

DXN News

• Serving DX'ers since 1933 •

Volume 77, No. 1 • September 28, 2009 • (ISSN 0737-1659)



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From the publisher ... We're back and rested from a road trip this year to Allentown, PA, where host Bob Smolarek conducted a very relaxing and fulfilling convention to about 38 attendees. Thanks for a good time, Bob!

From BoD chairman Wayne Heinen: "I am very please to announce that Ernie Wesolowski has accepted the position of the NRC's Convention Planner. Ernie is no stranger to convention goers, as he has attended many conventions over the years and has acted as Convention Host in Omaha in the past. Ernie will be handling all convention communications for the Board of Directors and assisting convention bidders and hosts in planning and setting up their conventions. You may contact Ernie via email at neerniew@hotmail.com or via US Mail at 13312 Westwood Ln, Omaha, NE 68144-3543." We were also pleased to award Ernie at the convention with this year's plaque in recognition of his ongoing contributions to the NRC.

DX GTB ... From host John Tudenham: "The annual Midwest DXers GTG will be held at Springfield MO October 30-November 1 at the Budget Inn - 2455 N Glenstone (417- 866-7460), Business Route 65 about 1/2 mile south of I 44, Exit 80, on the west side of the street. Since this is an informal event we will meet in motel rooms. A tour of Meyer communications, a local owner of several Springfield stations is planned for Saturday. Meyer owns KTXR FM, KWTO AM FM, and KBFL AM FM. KTXR morming DJ Jamie Turner will show us around." For more information contact John at 417-624 8058, or cell 417-438 4749; <jotud@yahoo.com>.

Publication schedule ... Retired people should never be put in charge of calendars; a couple of sharp-eyed members caught an error in the pub schedule in the previous issue of DXN. I think I have it fixed now. If not, let me know.

IRC's ... A post in another club publication implied that IRC's were being discontinued entirely by the USPS, but that doesn't seem to be so. From the USPS Consumer Affairs division: "International Reply Coupons are still available. However, the current version of the International Reply Coupon

expires on December 31, 2009. To allow customers time to purchase and use the International Reply Coupons it (sic) is being removed from sale on October 15, 2009. The new version was made available September 10, 2009."

Unfilled positions ... We're in need of volunteers for the following positions: an Internet web guru, to manage and update www.nrcdxas.org; , a DXN publisher, and one or more persons to edit future NRC publications developed by contributors or the club.

DXN Publishing Schedule, Volume 77

Deadline Publ Date		Deadline Publ Date	
1.	Sept. 18 Sept. 28	16.	Jan. 15 Jan. 25
2.	Oct. 2 Oct. 12	17.	Jan. 22 Feb. 1
3.	Oct. 9 Oct. 19	18.	Jan. 29 Feb. 8
4.	Oct. 16 Oct. 26	19.	Feb. 5 Feb. 15
5.	Oct. 23 Nov. 2	20.	Feb. 12 Feb. 22
6.	Oct. 30 Nov. 9	21.	Feb. 19 Mar. 1
7.	Nov. 6 Nov. 16	22.	Feb. 26 Mar. 8
8.	Nov. 13 Nov. 23	23.	Mar. 5 Mar. 15
9.	Nov. 20 Nov. 30	24.	Mar. 19 Mar. 29
10.	Nov. 27 Dec. 7	25.	Apr. 9 Apr. 19
11.	Dec. 4 Dec. 14	26.	May 7 May 17
12.	Dec. 11 Dec. 21	27.	June 4 June 14
13.	Dec. 26 Jan. 4	28.	July 9 July 19
14.	Jan. 2 Jan. 11	29.	Aug. 6 Aug. 16
15.	Jan. 8 Jan. 18	30.	Sept. 17 Sept. 27

DX Time Machine

From the pages of DX News

50 years ago ... from the September 19, 1959 issue of *DX News*: An NRC reorganization was announced, with Ray Edge as Executive Secretary/Publisher and editors Ernie Cooper and Fred Van Voorhees in complete charge of the respective sections; all other offices were eliminated.

25 years ago ... from the August 20, 1984 DXN: Dave Schneider, Mesa, AZ noted that he had written a program for the CoCo which would keep a log of stations, alphabetize them, and look them up by frequency or call letters, and he was offering it for free to NRC members.

10 years ago ... from the September 20, 1999 DXN: Luke Steele, Vinita, OK was reviving the DX Contests, the first one being to DX as many stations as possible where call letters included 3-letter words.



AM Switch

Bill Hale w_r_hale@sbcglobal.net
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North Richland Hills, TX 76180-5552



Status changes in AM stations, supplied by the FCC, CRTC, and listeners

CALL LETTER CHANGES

	<u>Old Call</u>		<u>New Call</u>
570	KNRS	UT	Salt Lake City
690	KRMX	CO	Pueblo
			[but wait four days and . . .]
690	KSIP	CO	Pueblo
700	WJOE	MA	Orange-Athol
			[and then . . .]
700	WVBB	MA	Orange-Athol
880	KGHT	AR	Sheridan
1190	WBSL	MS	Bay St. Louis
1250	NEW	CO	Johnstown
1340	WALR	GA	Atlanta
1370	KPCO	CA	Quincy
1390	WKIC	KY	Hazard
1410	WQBQ	FL	Leesburg
1410	NEW	VA	Midlothian
1540	WRSM	AL	Sumiton
1550	KSFT	MO	St. Joseph
1600	WDPZ	DE	Dover
1660	WBMX	NC	Charlotte

KGHT IS EXPERIENCING TRANSMITTER TROUBLE THAT CURRENTLY KEEPS US FROM BROADCASTING. AS SOON AS OUR TRANSMITTER IS FIXED, WE WILL BE BACK ON THE AIR SHARING THE GOOD NEWS AGAIN!! PLEASE PRAY FOR US AND KEEP CHECKING FOR OUR RETURN!

GOD BLESS YOU ALL!

Welcome to superstation880.com

SUPERSTATION KGHT AM 880
50,000 watts



CPs ON THE AIR

960	WLPR	AL	Prichard - CP for U1 6000/32 is on. The '6000' caught me by surprise, as their CP had read '5000'.
1060	KOAI	AR	Van Buren - Is operating under an Special Temporary Authority (STA) with D1 125/0 after component failure of their directional tuning unit damaged the transmitter.
1180	WPLX	AR	Turrell - CP to move here from 1170 kHz is on the air with U7 5000/26 CH 3500 from a new 2-tower array at 35-08-31/90-08-06. All three patterns are dissimilar, with the day and CH patterns headed to the northeast, and the small night pattern directed toward the southwest.
1270	WNOG	FL	Naples - Their CP for U4 5000/5000 is now on, increasing the nighttime power and adjusting the pattern slightly from southwest to due south, and changing a small east lobe to one heading west. I'll bet they put a great signal over the Keys . . . and Havana.
1330	WKTA	IL	Evanston - CP for U4 5000/110 is on the air.
1410	CFUN	BC	Vancouver - Began testing its new transmitter in late August. Similar testing for CKST-1040 began shortly thereafter. Both stations will be U4 50000/50000 from the new site at 49-05-33 122-55-57 in Delta. CFUN will radiate directionally from two towers with the same pattern (huge balloon to the northwest) day and night, while CKST will be directional from 5 towers with different patterns day (kidney-shaped with lobes to the east-northeast and west-northwest) and night (same shape only rotated counter-clockwise with lobes to the north and southwest). Full operation is expected in a few weeks.
1430	WION	MI	Ionia - CP for U2 4700/330 is on. A reduction of 300 Watts during the day affords them the opportunity to go non-directional and pick up some coverage to the east, south and west.
1480	KRAE	WY	Cheyenne - CP for U1 1000/72 is now on, from a new 200' tower at 41-01-17/104-50-22.
1490	KWUD	TX	Woodville - Is on the air with U1 1000/1000 at 30-44-52/94-25-56. Woodville is about 80 miles northeast of Houston.
1510	KCKK	CO	Littleton - CP for U4 10000/25000 is now on the air.
1520	WCHE	PA	West Chester - CP for D4 1000/0 CH 800 (adding the CH operation) is

now on. The CH pattern replicates the day pattern, with a large lobe to the northeast and a smaller lobe to the southwest.

1550	KIVA	NM	Albuquerque - Is now on the air with U1 50000/27.
1580	WNTF	FL	Bithlo - Is now on with D3 10000/0. They added two 140-foot towers to their original single stick to produce the new pattern, which directs the bulk of the signal to the northwest, with small lobes to the northeast, southeast and southwest.

GRANTS FOR NEW STATIONS

1400	NEW	UT	Vernal - CP granted for U1 1000/1000 at 40-29-30/109-31-45.
1450	NEW	CA	Helendale - CP granted for U1 250/250 at 34-44-26/117-17-50.

ACTIONS

540	WETC	NC	Wendell-Zebulon - CP granted for U4 10000/500. The new day pattern throws a large lobe to the southeast, with a smaller lobe to the northwest. No change to the nighttime facilities.
610	CHNC	QC	New Carlisle - Has been granted an extension to 1 December 2009 to leave the air as they are having 'signal issues' with their new replacement FM station.
790	WAEB	PA	Allentown - Licensed for U4 3600/1500, is now operating at (unknown) reduced power levels, or up to 25% of those powers non-directional. Details toward the end of the column.
790	CIGM	ON	Sudbury - Is now simulcasting with their FM on 93.5 kHz.
810	KLZV	CO	Brighton - CP granted for U4 10000/430. The new day pattern directs a large circular plot to the southwest, while the nighttime facilities remain the same.
840	WHAS	KY	Louisville - Granted auxiliary facilities of U1 50000/50000 from a new 196' tower located at 38-15-40/85-25-38, or 136 meters east of their 654' behemoth regular tower.
1010	KXEN	MO	St. Louis - CP granted for U4 50000/420. Along with the slight reduction in night power, they have gone from four to five towers, making some changes to the pattern.
1070	CBI	NS	Sydney - Has been granted an extension to 9 July 2010 to leave the air as they are having 'signal issues' with their new replacement FM station.
1100	KWWN	NV	Las Vegas - CP granted for U4 22000/2000, increasing their daytime power by 10%.
1150	WHBY	WI	Kimberly - CP granted for auxiliary facilities of U1 83/83.
1150	CHGM	QC	Gaspé - Has been granted an extension to leave the air until 1 December 2009 as they are having 'signal issues' with their new replacement FM station.
1190	NEW	AR	White Hall - CP granted to change the City of Licence from Pine Bluff, change facilities to U4 25000/350 and move the antenna site to 34-17-01/92-07-39.
1210	KQEQ	CA	Fowler - CP granted for D3 5000/0 moving to, and using three towers of, the KXEX-1550 four-tower site in Herndon at 36-46-14/119-55-20. The new pattern will be an almost circle directed to the south east.
1220	WSRQ	FL	Sarasota - This currently silent station has been granted a Special Temporary Authorization (STA) for D1 150/0 using a 145' vertical long wire. WSRQ was granted a CP for U4 1000/39 adding the night service, but has had a problem with the landowner of the property on which their tower was located. First, they refused to allow the proposed second tower, and now has terminated the lease. So in order to resume service, they requested this low power.
1240	KSUE	CA	Susanville - Coordinate correction to 40-23-45/120-37-39.
1270	CFGT	QC	Alma - Granted to move to 97.7 kw with 50 kw at 77.6 metres.
1320	KSCR	OR	Eugene - CP granted for U1 600/40, co-locating with KKNX-840 and KLZS-1450 at 44-04-55/123-06-34. Since the 'new' tower is almost twice the height of the old one, these lower power levels are necessary in order to cover the same area.
1370	KRVZ	AZ	Springerville - CP granted for U1 10000/22, along with a move from 1400 kHz.
1380	WKDM	NY	New York - Licensed for U4 5000/5000, WKDM has a CP for U4 5000/13000. But since the four tower array is located in the vicinity of the Meadowlands





in New Jersey, which is undergoing massive amounts of construction at a project called "Xanadu" employing several large cranes, WKDM cannot do a proper proof-of-performance. They have been **granted a Special Temporary Authority (STA) to operate with the U4 5000/13000 parameters** out of the specified tolerance until the Xanadu project is completed. This is scheduled in "late 2010". So expect some variances in their new nighttime pattern (directed to the southeast).

- 1510 WJKN MI **Jackson - Granted Special Temporary Authorization (STA) to continue operating D1 1000/0** (licensed for D1 5000/0) from a long wire antenna at N42-10-16 W84-23-40.
- 1660 WWRU NJ **Jersey City - Licensed for U4 10000/10000, WWRU has a CP** slightly loosening the small lobe headed to the northeast. But due to the same reasons given in the WKDM STA (above), they are operating on the CP until "late 2010".

AMENDMENTS TO CONSTRUCTION PERMITS

- 610 WVBE VA **Roanoke - Licensed for U4 5000/1000, WVBE has a CP for U4 10000/2500.** This amendment requests U4 7000/2500.
- 1170 WRPM MS **Poplarville - Having been just granted a CP to move to from 1530 with D3 5000/0, WRPM now has applied for an amendment for D1 1000/0 CH 1000** on 1170.
- 1260 KWNX TX **Taylor - Station has a CP for U4 2500/400, this amendment requests U1 1000/144 moving to Elgin.** [remember, "Elgin", in this instance, is pronounced with a 'hard 'G']
- 1460 KHOJ MO **St. Charles - Licensed for U4 5000/85, KHOJ has a CP for U4 5000/350.** This amendment requests U4 5000/210.

APPLICATIONS

- 770 KCBC CA **Riverbank - Applies for U4 50000/4100 moving to Manteca.**
- 980 KRTX TX **Rosenberg/Richmond - Applies for U5 5000/5000.**
- 1050 WEPN NY **New York - Applies for U4 50000/50000.**
- 1050 WFSC SC **Franklin - Applies for U1 5000/153.**
- 1150 WSNW SC **Seneca - Applies for U1 370/58 moving to Walhalla.**
- 1210 KTBK WA **Auburn-Federal Way - Licensed for U4 27500/10000** from two transmitter sites, KTBK applies to operate on an auxiliary license of U4 27500/227. The application explains: "The licensed nighttime transmitter site is located on the banks of the Green River, east of Auburn. For the past 47 years, this area of King County has been protected from flooding by the Howard Hansen Dam. The Army Corps of Engineers has discovered a leak in the dam and has announced that until repairs can be made the capacity of the dam to contain runoff will be limited. Flooding in the valley below, where the KTBK nighttime transmitter site is located is likely to occur. Repairs to the dam are projected to take as long as five years to complete. [The owner] is requesting authority to operate the presently authorized daytime facilities (with reduced power) during nighttime hours should the licensed nighttime transmitter site flood."
- 1410 KCAL CA **Redlands - Applies for U4 4700/4000.**

AMENDMENTS TO APPLICATIONS

- 890 WFAB PR **Cieba - Licensed for U1 250/250, WFAB applied for U1 2500/600.** This amendment requests U1 5000/600.
- 1150 NEW CA **Easton - Initial application was for U4 700/10000, then amended to U4 260/5500.** The latest application is for U4 260/5000.
- 1420 NEW NM **Rowe - This unbuilt facility originally applied for U2 1000/250, then amended the application to U1 2500/140.** This request is for U1 2900/124.
- 1430 WEEF IL **Highland Park - Licensed for U4 1000/29, WEEF applied for U4 1000/230** along with a CoL change to Wheeling. This amendment is for U4 1600/750 with another change in CoL, this time to Deerfield.
- 1450 NEW CO **Glenwood Springs - This unbuilt station initially applied for U1 250/180.** This amendment requests U1 300/300.
- 1500 NEW NV **Winchester - This new, unbuilt station, initially requested U2 1500/1500.** This amendment requests U2 1200/1500.

1540 KGBC TX Galveston - Licensed for U4 2500/250, KGBC applied for U2 5000/187 CH 5000. This amendment requests U2 5000/187 CH 5000.

AM on FM and FM on AM

550 WSAU WI Wausau - Now carried on WIZD-99.9 MHz Rudolph.
 660 KGDP CA Oildale - Is simulcasting KWVE-FM 107.9 San Clemente
 1230 CJNL BC Merritt - Is now // the new CKMQ-FM 101.1 in Merritt, and will continue until 1 December when it will begin relaying CHNL-610 Kamloops.
 1240 WINK FL Fort Myers - Their news/talk programming is now heard on WNTY-92.5 Estero, which is also // WNOG-1290 Naples.
 1490 WKDR NH Berlin - New station is on (see last Issue for details) carrying the Hot AC programming of WXXS-102.3
 1550 WJIL IL Jacksonville - Is being heard on W275BM-102.9 Lancaster

APPLICATIONS FOR RECONSIDERATION

1340 KIKO AZ Miami - Application to move to Queen Creek with U1 500/500.
 1580 NEW CA Cutten - Application for U2 50000/1000.

DISMISSALS

580 KSAZ AZ Marana - Application to move to Queen Creek with D3 7000/0.
 870 KRLA CA Glendale - Application for U4 50000/32000.
 1270 WDMC FL Melbourne - Application for renewal.
 1410 WJUS AL Marion - CP for U1 1100/16 at Selma.
 1340 WJAM AL Selma - Application to move to Thomaston.
 1560 KLTJ MO Springfield - Construction Permit to move to Macon, Missouri on 660 kHz with U4 1500/44.

LICENSE CANCELLATIONS/CALL LETTERS DELETED

790 CIGM ON Sudbury - Has moved to 93.5 MHz with CHR as *Hot FM*. CIGM was the last AM station licensed to Sudbury.
 850 CKBA AB Athabasca - Moved to 94.1 MHz, remaining Classic Hits as *The River*.

LICENSE RENEWALS GRANTED

680 WA2XPA PR Arecibo
 1230 WLSH NY Elmira
 1410 WLSH PA Lansford
 1450 KTIP CA Porterville



HEAR AND THAR

📻 Returning to the airwaves: WCKL-560 Catskill, New York; KGDP-660 Oildale, California returns with Contemporary Christian // KWVE-FM - 107.9 San Clemente; KWRP-690 Pueblo, Colorado is back on with Classic Hits and Talk; KIPA-1060 Hilo, Hawaii returns with an Ethnic format; WDGR-1210 Dahlonega, Georgia with Ethnic; WDCR-1340 Hanover, New Hampshire returns to the airwaves with *Dartmouth College Radio*; WOAM-1350 Peoria, Illinois returns with Adult Standards; WKIC-1390 Hazard, Kentucky; WAZX-1550 Smyrna, Georgia (see "Silent list");

📻 Reported as Silent: KSIP-690 Pueblo, Colorado (pending the sale of the station); WEEL-710 Dothan, Alabama (however, they are still streaming); WAMO-860 Millvale, Pennsylvania (pending the station's sale); WAMG-890 Dedham, Massachusetts signed off on September 14; it is rumored that they will return on September 21 with a format other than ESPN Sports, as they had been prior to shutting down; WLLH-1400 Lowell, Massachusetts is also off, as they were simulcasting WAMG; also reported as being off are WKIQ-1240 Eustis, Florida; WPBQ-1240 Flowood, Mississippi; KVWG-1280 Pearsall, Texas; WAVQ-1400 Jacksonville, North Carolina; WYIS-1410 McRae, Georgia; WLET-1420 Toccoa, Georgia; WTJV-1490 Deland, Florida (see details below); KWUD-1490 Woodville, Texas; WPGR-1510 Monroeville, Pennsylvania (pending the station's sale); WAZX-1550 Smyrna, Georgia (reported as back on, but did so for just one day so they wouldn't lose their license; has filed for another "Silent STA");

📻 FINES: WGBN-1150 New Kensington, Pennsylvania has been fined \$5000 for willfully and repeatedly violating rules by failing to operate its station in a manner which complies with the terms of the station authorization, operating a Studio Transmitter Link on an unauthorized frequency, and failing to maintain radio issues/program lists in the station's public inspection file; WKLJ-

1150 Sparta, Wisconsin (along with its FM station) is fined \$8800 for failure to reduce power at sunset plus other violations; **WIFI-1460 Florence, New Jersey** is fined \$18,400 for operating with excessive power, failing to maintain an operational EAS system, failing to maintain an effective enclosure at the base of the WIFI tower, and failing to maintain issues/program lists in the public inspection file; **KKAY-1590 White Castle, Louisiana** has been fined \$1500 for failure to apply for license renewal in a timely manner; **WECO-940 Wartburg, Tennessee** (along with their FM station) fined \$3000 for failure to apply for license renewal in a timely manner.

☹ Last Issue we reported that **KDOW-1220 Palo Alto, California** was granted a **CP for U4 50000/50000** to a new transmitter site. **Al Tobia** reports that KDOW was told by the city of Hayward, California (location of new site) that the placement of the new towers they proposed is unacceptable and the station cannot build on the land. We'll keep an eye on that for you . . .

☹ **Speaking of Towers, Part 1:** The 327-foot tower of **WTJV-1490 Deland, Florida** was toppled by a Jeep which was carrying fans following a high school football game (I hope they weren't DWI!). The Jeep caught one guy wire and down came the tower. No injuries were reported, but three vehicles were damaged by the falling structure. WTJV has applied for a 'silent' STA, stating they are working at putting some sort of auxiliary facility on the air. In the meantime, 1490 just lost a bit of nighttime 'hash' between Orlando and Daytona Beach.

☹ **Speaking of towers, Part 2:** One of the five 350-foot towers of **WAEB-790 Allentown, Pennsylvania** was intentionally toppled on Friday morning, September 2nd. Guy wires were cut, police say. Vandalism is suspected. They are operating on an STA (see above).

☹ **Speaking of towers, Part 3:** Five hours after the **WAEB** incident, it appears that vandals took down two of **KRKO-1380 Everett's** four new towers in rural Snohomish, Washington. There has been an ongoing environmental battle for years over the placement of the new towers.

☹ Referring to last Issue's item about **WNVR-1030** receiving the OK to resume licensed operation after being off, **Niel Kazaross** sends word that they haven't used their 120 Watt nighttime authorization in a couple of years. Hmmm . . . makes me wonder why a station would go to all the expense of buying a new transmitter and erecting new towers and not use some of their authorization.

☹ According to the FCC, as of the end of August there were 4789 AM stations and over 10,500 various classes of FM stations licensed. How many have you heard??

☹ Thanks to **Shawn Axelrod, Wheeler "Wheels" Conover, Marc DeLorenzo, Wayne Heinen, Deane McIntyre, Dave Schmidt.**

GRAVEYARD DX UPDATE

+ record held by a DXer in USA/Canada where a Canadian/USA record exceeds that mileage

1490 kHz:

KGOS	WY	Torrington	Ty Thormahlen	Billings, MT	Miles
					+ 333

TOTALS:

	<u>1230</u>	<u>1240</u>	<u>1340</u>	<u>1400</u>	<u>1450</u>	<u>1490 TOTAL</u>	
Tim Noonan Madison, WI	10	10	18	16	19	17	90
Tim Noonan Oak Creek, WI	12	9	4	12	19	14	70
Richard Lauhead Vadnais Heights, MN	6	6	7	1	4	2	26

Domestic DX Digest

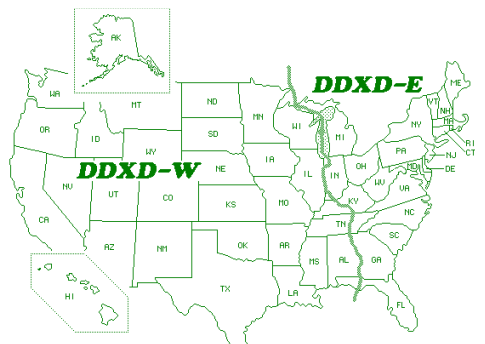
West: Jim Tedford Radio_Enthusiast@hotmail.com

20310 Bothell-Everett Highway B4 - Bothell, WA 98012-8133

East: Mike Brooker aum108@idirect.com

99 Wychcrest Ave - Toronto, Ontario M6G 3X8 CANADA

*(Division line
is between East
and Central time
zones)*



DX Catches in the U. S. and Canada, with 24-hr. ELT

DDXD-West

Hello! Welcome to my first column as editor for DDXD-West. I figured it was time to step out from the silent majority of club members who just read the bulletin every week, and actively participate in the group that has immensely helped me enjoy my radio hobby. I invite all of you other silent majority to join me.

A little about me: I've been an off-and-on BCB DXer for about 30 years (currently on) and have had my interest re-kindled most recently with the ultralight receiver craze. Part of my reason for volun-

teering to be editor of this column is learn more about mediumwave DX, and there isn't a better way than to immerse myself in all the fine loggings I know you will submit each issue. I hope you will be patient as I learn the ropes.

Same rules as before: submit your logs following the sequence you see in the column. Don't worry about formatting – just follow the sequence, and the highly skilled layout professionals at *DX News* will do the rest. And remember, real DX only, not the same 50 KW locals you hear every day.

Reporters

- (DP_HI) **Dale Park, Honolulu HI** Sangean ATS-818CS, Terk AM1000 loop
 (JDT-WA) **Jim Tedford Bothell WA** Grundig Sat-800, Eton E-1, Kaito KA-2100, 150 foot longwire, Degen loop
 (JS-MN) **John Sampson Grand Rapids, MN** Collins UR 388, Kiwa Loop
 (JW-CO) **John Wilkins Wheat Ridge, CO** Drake R-8, 4-foot loop.
 (SA-MB) **Shawn M. Axelrod VEDX1SMA, Winnipeg, MB** Icom ICT-70; Drake R8; 4 foot unamplified box loop; Quantum loop; 155 foot outdoor wire; 100 foot indoor wire; MFJ 1026 phasing unit.
 SP-WI) **Sheryl Paszkiewicz Manitowoc, WI** NRD-515, Eavesdropper antenna.

Station News

- 550 **WSAU WI Wausau** Per Wausau Daily Herald, stn began relaying over WIZD-FM 99.9 on 9/09. (DP-HI)
 570 **KACP UR Salt Lake City** Stn's old Family Values Talk Radio Format and KNRS callsign moved to 105.7 FM and has been replaced by conservative and financial talk 9/17 featuring Clark Howard, Neal Boortz, Todd Schnitt, Jason Lewis, Bill Handel and "Wall Street Journal This Morning." Station also relayed on KMY FM 99.5's HD-2 channel and K256AE-FM 99.1. Slogan is "Freedom 5-70." (DP-HI)
 590 **KID ID Idaho Falls** Per the FMQB newsletter, station is being relayed on former rocker KEGE-FM 92.1 as of 9/4. Station also relayed by 1240 KWIK ID. (DP-HI)
 700 **KALL UT North Salt Lake City** Per Radio.Info.com and *Deseret News*, station switched from Fox Sports Radio to ESPN Radio 8/31 but kept Dan Patrick, moving him back to 1406-1700. FSR and Jim Rome ankle to 1320 KFNZ-UT (DP-HI).
 950 **WNTD IL Chicago** Per Radio-Info.com, the Relevant Radio Catholic station adds a jazz/standards format called "Avenue 9-50" at night, airing 1900-0600. (DP-HI)
 970 **KHVN TX Fort Worth** Per Radio-Info, station added the syndicated "Yolanda Adams Morning Show," though there is no sked on KHVN's website. Slogan is "Heaven 97." (DP-HI)
 980 **KFWB CA Los Angeles** Per Orange County Register, station dumped most of its news programming 9/08 in favor of weekday talk featuring the tow Lauras (Ingraham (ex-KGIL) and Schlessinger (ex KFI) and Michael Smerconish. (DP-HI)
 1010 **KIHU UT Toole** Per Deseret News, the former KCPX now carries Catholic programming from 1620 KSMH-CA and its Immaculate Heart Radio Network (DP-HI)
 1040 **KURS CA San Diego** Per Radio-Info.com, station added the "Yolanda Adams Morning Show," though there is no sked on KURS's web site. Slogans are "San Diego's Gospel Radio Station" and "The New Soul of San Diego." (DP-HI)
 1260 **KGIL CA Beverly Hills** Per *Orange County Register* and *San Bernardino Sun*, station went "retro" 8/27 at 1900 EDT, dropping talk and switching to MOR, mixing oldies and adult standards. The relay over 540 XESURF-BCN will continue although website LARadio.com said 540 would carry brokered SS religion. KGIL is also relayed on KGGO-FM 105.1's HD-3 channel. Slogan is "Retro 12-60." (DP-HI)
 1380 **KRKO WA Everett** Per *Snohomish Times*, a so-called "eco-terrorism" group Earth Liberation Front (ELF) allegedly felled two of KRKO's towers in the Snohomish Valley on 9/04, using a stolen track hoe. The owners have been in litigation for years trying to expand the station's reach with a new tower site despite health and environmental concerns. The signal was temporarily transferred to a third tower with no service interruption. (DP-HI) Per phone call to station 9/05, broadcasting at reduced power with regular sports talk format, will likely not return to full power until early 2010. (JDT-WA)



- 1400 KGVL TX **Greenville** Per Radio-Info.com, station switched from SX to “Country Legends” under new ownership to complement the format on sister station KIKT-FM 93.5 (DP-HI)
- 1500 KUMU HI **Honolulu** 8/17, per tip from *Honolulu Star-Bulletin* about a format change, tuned in at 0550 EDT to hear end of Sporting News Radio’s David Stein, ID and “Sporting Newsflash” at 0600, followed by long stretch of dead air. SNR heard again at 0735 retune, but was replaced by simulcast of KUMU-FM 94.7’s AC at later retune.1400. Article said that several hosts had left the station, which was plagued by “recurring technical problems, where national audio feeds and local content would play at the same time.” Local play-by-play and some block programs will remain. KUMU last relayed the FM side in 2005 before it switched to liberal talk. Slogan is now “Today’s KUMU, Lite 94-7, Honolulu’s Lite Rock.” (DP-HI)

Special

- 1180 KYES MN **Rockville**0230 Fair signals with Relevant Radio programming, IDs as “Kay Yes Radio.” New station, on the air now. New one for me; first in a long time. (SA/MB)

DX Logs (Times ELT)

- 580 WIBW KS **Wichita**8/21 2340 Royals baseball coverage, mention of Royals Network, call signs, spot ads. (SP- WI)
- 620 KWAL ID **Wallace**9/5 2150 C&W music, local car shop ads, ID as “Silver Dollar Radio.” Mixing with KPOJ Portland Progressive Talk. (JDT-WA)
- 660 KTNN AZ **Window Rock**8/20 2240 C&W music, “You are listening to the Voice of the Navajo.” (SP-WI)
- 830 KOTC MO **Kennett**8/18 2240 “My 830 AM” “My Music” IDs; music through TOH, call signs @ 2302. On late. (SP- WI)
- 930 CJCA AB **Edmonton**9/8 0801.Gal with local and national news in progress; 0805 local ad and “AM 930 The Light” slogan, followed by sports, beginning with CFL results. Good peaks, mixing with others. (JW-CO)
- 1310 KGLB MN **Glencoe**8/22 0632 Poor signals with WIBA. Older country music, Non-IDs as “Classic Country.” One more station in poor conditions – just shows you should never give up, and that being old and stubborn may have its good side! (SA-MB) 9/15 0820 C/W mix and occasional station IDs, mixing with KMOX (who dominate 1310 here during the day). Surprised and happy to hear them as their pattern indicates they don’t have much power this way. (JS-MN)
- 1480 KPHX AZ **Phoenix**8/22 0759. 1-800 ad, then simple legal ID (“KPHX Phoenix”) at 0800:01; CNN News followed. Fair, just over the QRM. (JW-CO)
- 1520 KMSR ND **Mayville**9/9 0731. ESPN programming, with a couple of area Ag features inserted; North Dakota weather at 0755. Fair, with KOKC mostly nulled, but covered by XEJCC sign-on at 0758. (JW-CO)

A respectable turnout for my first column. Thanks for making it easy for me. I’m sure many of you are still enjoying fine summer weather and outdoor activities. Fresh air and sunshine are all very well, but don’t forget that time hunched over your receiver with headphones clamped on your head is also an important part of your total healthy lifestyle. See you next time. (JDT-WA)

DDXD-East


REPORTERS

- JC-DE John Cereghin, Smyrna - FRG-7, DX-150B, various ultralights
- SC-IN Steve Chappell, McCordsville - Chrysler car radio, 10 Ft Square copper loop
- HF-MI Harold Frodge, Midland - Drake R8B, 125 ft. bow-tie; 85 ft. RW & 180 ft. center-fed RW
- HJH-PA Harry Hayes, Wilkes-Barre - Grundig S-350, Kiwa Pocket Loop
- KK-VA Kraig Krist, Manassas - NRD-545, homemade 134 foot multiband antenna running NW to SE.
- JM-PA John Malicky, Pittsburgh – Superadio III
- JM-MD John Malicky, on the road in Maryland – GM Delco car radio
- DP-HI Dale Park, Honolulu – station news
- MKB-ON Mike Brooker, Toronto – Grundig G5, Grundig YB-400PE, Sony SRF-39FP, Panasonic RF-



2200 (receiver emeritus)

STATION NEWS

- 610 **WFNZ** NC **Charlotte** - Per *Charlotte Observer*, even though it lost its relay WFNA-1660, station is available on WPEG-FM 97.3's HD-3 channel. **(DP-HI)**
- 1000 **WIOO** PA **Carlisle** - Per Radio-Info.com, the daytimer is now relayed over translator W250AP-FM 97.9 in Carlisle. Station is already relayed by 1480 WEEO-PA and its translator W230AX-FM 93.9. **(DP-HI)**
- 1050 **WSEN** NY **Baldwinsville** - Per *Baldwinsville Messenger*, ended simulcasting the classic hits of WSEN-FM 92.1 9/01 and began relaying the classic oldies of 1390 WFBL-NY "Oldies 13-90" following the sale of these three stations; speculation is this format change is temporary. **(DP-HI)**
- 1080 **WOAP** MI **Owosso** - Per *Owosso Argus-Press*, returned to the air 8/18 with oldies from the '50s to the '70s. Slogan is "The Big 10-80, Michigan's Big Oldies" and they have a Facebook page! **(DP-HI)**
- 1130 **WDFN** MI **Detroit** - Per *Detroit Free Press*, dropped network talk 9/08 except for Jim Rome 1200-1400 in favor of mostly local programming again, eight months after previously dumping the local talent. **(DP-HI)** As Jim Rome has said on the show, WDFN will air the full three hours of the Jim Rome Show (i.e. 1200-1500 ELT). Mike
- 1150 **WNLR** VA **Churchville** - Per Radio-Info.com, station added Christian CHR music to its format 8/17. **(DP-HI)**
- 1290 **WATO** TN **Oak Ridge** - Per *Knoxville News*, station was scheduled to return to the air 8/26 with a conservative talk format after a test broadcast 8/14. Station slogan is "The Atomic Talker." **(DP-HI)**
- 1340 **WTRC** IN **Elkhart** - Per Radio-Info.com, station flipped from talk to "Hippie Radio" oldies 8/21. **(DP-HI)**
- WJRW** MI **Grand Rapids** - Per Radio-Info.com, station dropped sports format and call sign WBBL and flipped to news-talk featuring Mark Levin, Michael Patrick Shiels and "Larry King Live," plus WJR's Frank Beckmann and local news and personnel from WZZM-DTV39. **(DP-HI)**
- 1410 **WMYR** FL **Fort Myers (also 1660 WCNZ FL Marco Island)** - Per Radio-Info.com, the simulcasters have added "The Avenue" smooth jazz/standards hybrid program service, which is already on 950 WNTD-IL. Regular format is "Scott Shannon's True Oldies." **(DP-HI)**
- 1480 **WGVU** MI **Grand Rapids (also 850 WGVS-MI Muskegon)** - Per *Grand Rapids Press*, stations became the first public radio outlet to switch from news-talk to "golden oldies" 8/31, playing hits of the mid-'50s to early '70s, in reaction to WFGR-FM 98.7 dropping the format. Stations will still air National Public Radio and local news plus some weekend shows like "Car Talk." Slogan is "Real Oldies 14-80/8-50." **(DP-HI)**
-  1550 **WCLY** NC **Raleigh** - Per Radio-Info.com, station will switch from religious to SS sports featuring ESPN Deportes after its sale. **(DP-HI)**
- 1660 **WBCN** NC **Charlotte** - Per *Charlotte Observer*, ended the relay of WFNZ-610 9/14 and went conservative talk, featuring Glenn Beck, Sean Hannity and former WBT-1110 host Jason Lewis, who now comes out of KTLK-FM Minneapolis. WBCN will also simulcast newscasts from WCNC-TV. The call sign was changed from WFNA in late August in order to park the call letters of the legendary Boston FM rocker. Slogan is "America's Talk." **(DP-HI)**

TIS/HAR

- 1630 **(TIS)** VA **Manassas** - 8/16 2155 - Northern VA Community College TIS mixing with KCJJ. Loop with parking info and campus information. **(KK-VA)**
- 1640 **WQFL338** DE **Wilmington** - 9/5 1715 - taped loops of city info, "City Radio 1640", 10 watts, heard at the C&D Canal, about 15 miles south of Wilmington. **(JC-DE)**

UNID

- 530 - 9/4 0023 - fair with classical music, noted while driving near Chestertown, MD. CIAO? **(JM-MD)**

DX TEST

960 WHYL PA Carlisle – 9/6 0028 – very good, testing on day pattern with oldies, “WHYL” jingles and IDs. Noted at NRC convention in Allentown. (JM-PA)

LOGGINGS

560 WFRB MD Frostburg – 8/31 1200 – slogan “Talk Radio 560, left on the dial, right on the issues...Talk Radio 560 WFRB”. (JM-MD)

600 WCAO MD Baltimore – 9/2 1700 – ToH ID: “This is Heaven 600 WCAO Baltimore”. (JM-MD)

730 WACE MA Chicopee - 8/29 1945 - ID “AM 730 WACE Chicopee, Springfield”, into talk. (JC-DE)

780 WAVA VA Arlington – 9/17 1914 - over nulled WBBM with promo for Sid Roth’s “Messianic Vision” program mentioning www.sidroth.org website, “AM 780 WAVA Arlington-Washington, a service of Salem Communications...” ID and presumed sign-off, as signal abruptly disappeared under WBBM. (MKB-ON)

790 WSGW MI Saginaw – 8/14 1255 – excellent on daytime groundwave with Dennis Miller Show; Dennis said that the 1st joke he ever told on stage was, “A flock of pigeons overthrew the government of Ecuador today in a major political coo.” (HF-MI)

WLSV NY Wellsville – 8/30 0158 – presumably on groundwave, dominating frequency since demise of CIGM with C&W songs, ToH ID “your home for real country is 790 WLSV Wellsville” into Fox news. Shortwave pirate DXers will recognize Wellsville, NY as a maildrop QSL address. (MKB-ON)

840 WCEO SC Columbia - 8/29 2018 - SS Latino songs, slogan “La Raza!” after selections. (JC-DE)

860 WEVA VA Emporia - 8/29 2000 - “For the Weather Channel, I’m...for WEVA”, followed by partial ID mentioning “central North Carolina”, into oldies. (JC-DE)

870 WKAR MI East Lansing - 8/15 1222 - Car Talk program, said that if you take apart and reassemble a part such a carburetor enough times, you will eventually have two of them. The boys were having waaaaay too much fun today--great radio. (HF-MI)

920 WIRD NY Lake Placid – 8/23 2025 – ID as “920 and 1240 WNBZ”. Fair signal. (HJH-PA)

930 WFMD MD Frederick – 9/1 0205 – “news continues on Frederick’s News Radio 930 WFMD” into local news. (JM-MD)

940 WECO TN Wartburg - 9/9 0620 - Southern Gospel, call ID, “AM 940 Solid Gospel”, into a devotional reading. (JC-DE)

950 WCTN MD Potomac-Cabin John - 9/3 0000 - Very weak, ID as “950 WCTN Potomac.” NEW! (SC-IN)

WORD SC Spartanburg - 9/3 0206 - Poor, “News Radio 950 WORD” ID into Coast to Coast AM. (SC-IN)

WJKB SC Moncks Corner - 9/3 0544 - Very poor, “on WJKB” only noted. NEW! (SC-IN)

KWOS MO Jefferson City - 9/3 0706 - Poor, ID as “950 KWOS.” NEW! (SC-IN)

WAKM TN Franklin - 9/9 0630- noted with slogan “Hometown Radio AM 950”. (JC-DE)


980 WTEM DC Washington – 8/27 2000 – strong, now a regular with “ESPN 980”, Orioles baseball and a triple ID: “980 WTEM Washington, 94.3 WWXX Warrenton (VA) and 92.7 WWXT Prince Frederick” (MD). (JM-PA)

1070 WFNI IN Indianapolis – 8/25 0300 – fair with deep fades and KYW-1060 IBOC slop, “this is Indy Sports Center 1070 The Fan WFNI” into ESPN Sports Center and promo for Colts game. (JM-PA)

1080 WOAP MI Owosso – 8/24 1105 – back on air after extended silent period, varying quality audio and signal strength noted with slogans “the Big 10-80; “Michigan’s Big Oldies”, mentions of Owosso being the home of Felix Schlag, designer of the Jefferson nickel; mainly familiar post-50s oldies (no doo-wop, rama lama ding-dong or surfin’ tunes) with the occasional odd one; at 1207 played Your Auntie Grizelda by the Monkees. (HF-MI)



1120 WKQW PA Oil City – 9/2 2005 – over KMOX and SS hot hits (Buffalo or Bristol, CT) with CBS news, “KQW” jingle, “here is your Oil Region weather from the KQW weather center” local weather, into “Dancing in the Streets” by Martha and the Vandellas. (MKB-ON)

- 1200 WKOX MA **Newton** - 8/22 2150 - heard an EE "WKOX" call ID, back into Spanish/tropical music. **(JC-DE)**
- WKST PA **New Castle** - 8/22 2200 - ESPN Radio sports talk, ID, Fox News at TOH. **(JC-DE)**
- 1210 KUBR TX **San Juan** - 8/30 2203 - Very poor with string of FM Translators such as "K227BH McQueeny, San Antonio" and concluding with "La Radio Cristiana." NEW! **(SC-IN)**
- 1250 WTMA SC **Charleston** - 9/16 0600 - ID "WTMA Charleston", into local news. **(JC-DE)**
- 1260 WNRK DE **Newark** - 9/4 1000 - Hispanic music and EE ToH ID: "you're listening to 1260 in Newark, Delaware WNRK. **(JM-MD)**
- 1270 WJJC GA **Commerce** - 8/16 0006 - Weak, station promo, "Hear sports, local news and information WJJC AM." NEW! **(SC-IN)**
- 1290 WRNI RI **Providence** - 9/16 0605 - local news, NPR reports, RI-centric items, "WRNI" call ID. **(JC-DE)**
- 1300 WJZ MD **Baltimore** - 8/24 1927 - good with "Baltimore gameday" pre-game show for Ravens v. Jets pre-season game (WBAL-1090 is actually the Ravens' flagship), "ESPN 1300" slogan. **(JM-PA)**
- WKCY VA **Harrisonburg** - 8/27 2000 - good with Orioles baseball and triple ID: "you're listening to Orioles baseball on 900 WKDW Staunton, 970 WKCI Waynesboro and 1300 WKCY Harrisonburg". **(JM-PA)**
- WSSG NC **Goldsboro** - 9/13 1955 - gospel music, "WSSG" call ID between songs. **(JC-DE)**
- WGDJ NY **Rensselaer** - 9/13 2000 - ads for a car dealer "...here in the Capital District" and Albany, missed TOH ID, into ABC news, slogan "This is Talk 1300". **(JC-DE)**
- 1330 WYRD SC **Greenville** - 8/26 0611 - good, up quickly with weather, lawyer ad and local news, //WORD-950, then gone. **(JM-PA)**
- 1350 WHWH NJ **Princeton** - 8/17 2031 - over sports talker (likely WOYK) with instrumental big band tunes, "...only on AM 1350 WHWH Princeton-Trenton" ID. **(MKB-ON)**
- 1360 WWOW OH **Conneaut** - 8/27 2200 - "The New Talk Powerhouse WWOW Conneaut" Return to Michael Savage Show with good signal. **(HJH-PA)**
- 1370 WWCB PA **Corry** - 8/27 2122 - With 70's music. ID, fair competing against WXXI in Rochester, NY. **(HJH-PA)**
- WTAB NC **Tabor City** - 8/28 0630 - "WTAB" call ID, local church news. **(JC-DE)**
- 1390 WNIO OH **Youngstown** - 9/9 2141 - mixing with talk station, "... WNIO Youngstown..." ID into oldie song. **(KK-VA)**
- WEGP ME **Presque Isle** - 9/4 2300 - Red Sox baseball, "WEEI Radio Network" ID. **(JC-DE)**
- 1400 WRAK PA **Williamsport** - 9/6 0700 - dual WRAK/WRKK ToH ID noted in WDNY/WWWJ mix, "news-talk 1400 WRAK and 1200 WRKK Williamsport" into Fox news. **(MKB-ON)**
- 1410 KQV PA **Pittsburgh** - 9/7 2128 - station promo "Greetings to our listeners in New York. Thanks for using KQV dot com to stay in touch with Pittsburgh" into ad for handling credit card debt. "KQV news time nine thirty. This is KQV Pittsburgh". **(KK-VA)**
-  1420 WLIS CT **Old Saybrook** - 9/6 2148 - mixing with WHK, station promo "... local sports... WLIS... Morton Show...". **(KK-VA)**
- WHK OH **Cleveland** - 9/6 2132 - "... September 11th... we must remember... right here fourteen twenty WHK", in mix with WLIS. **(KK-VA)**
- WNRS NY **Herkimer** - 9/3 1955 - In with local ads mentioning Herkimer and ID. ID as "WNRS Herkimer, Utica..." and some other unheard town. **(HJH-PA)**
- +++ - 9/11 2240 - two call IDs, into ESPN sports update. **(JC-DE)**
- 1430 WION MI **Ionia** - 8/13 2359 - Very poor, "WION, I-1430" slogan heard. NEW! **(SC-IN)**
- 1440 WAJR WV **Morgantown** - 9/4 2125 - mixing with talk and oldies stations with high school football. "Morgantown leads Elkin 35 to 3, 2:07 remaining in the 3rd quarter. We'll be back with more Mohegan football right after this" into ad for Little Caesars Pizza. **(KK-VA)**
- 1470 WTTR MD **Westminster** - 9/4 1700 - oldies, ID as "Carroll County's favorite station WTTR". **(JM-MD)**

- 1480 WCNS PA **Latrobe** - 9/3 2155 – in mix with station promo “Fourteen eighty WCNS plays America’s best music and America’s best football... Steelers...”. (KK-VA)
- WWKO NC **Fair Bluff** – 9/3 2146 – Good signal at times with Carolina Panthers vs Pittsburgh FB coverage. ID as “Be sure to say you heard it on WWKO, Kickin’ Country” (HJH-PA)
- WCFR VT **Springfield** – 9/6 1953 – Fair to weak sig. w/several local ads back to back including Joe’s Discount Beverage Store, Cooper’s Restaurant in Springfield and the Springfield Reporter newspaper. Format is 80’s rock. (HJH-PA)
- +++ - 8/20 1750 – presumed with local insurance ad mentioning “...right here in Springfield...” (JC-DE)
- 1490 WARK MD **Hagerstown** – 9/1 1200 – station promo “...on Hagerstown’s Talk Radio 1490 WARK”, Dennis Miller show. (JM-MD)
- 1500 WFED DC **Washington** - 9/1 2125 – Washington Nationals baseball, “Game day interview brought to you by Lindsey Cadillac and the DC Police” on the Nationals Radio Network. Washington Nationals “On Deck Show”. (KK-VA)
- 1510 WLAC TN **Nashville** - 8/31 2155 – discussion about vitamins. 2200 ToH ID “... radio ... fifteen ten WLAC...”, into Fox radio news. (KK-VA)
- 1520 WWKB NY **Buffalo** - 8/30 2155 – talk about Ed Kennedy, 2200 ToH ID “Right here on a new voice a new voice AM fifteen twenty and 50,000 watts to back it up...the voice of the new majority WWKB Buffalo” into CNN Radio news. (KK-VA)
- WTRI MD **Brunswick** – 9/2 1600 – C&W music, station promo “it’s the greatest of all the greats, the biggest of the big...Radio Earl on 1520 AM WTRI...”. On visit to station, phone number was disconnected and door was locked! (JM-MD)
- 1530 WCKY OH **Cincinnati** - 8/29 2155 – Fox Sports Radio programming, talking about baseball, 2200 ID as “WCKY... fifteen thirty ‘Homer’” into Fox Sports news. (KK-VA)
- WCTR MD **Chestertown** – 9/4 *0645 – full sign on mentioning 1000 watts daytime-only, e-mail info@wctr.com, phone 410-778-1530, slogan “your on the town AM 1530 full service station”. (JM-MD)
- 1540 KXEL IA **Waterloo** - 8/28 2155 - mixing with talk, music/singing and Chinese (likely CHIN Toronto) with report from Radio Nederland on health care, 2225 slogan “The Midwest’s most dependable power source fifteen forty KXEL” into “Bible Prophecy”. (KK-VA)
- WECZ PA **Punxsutawney** – 8/25 1600 – fair, not a daytime regular, but in with Sean Hannity, local ads, WTAJ-TV 10 (Altoona) weather, promo for “Mike’s Polka Party” on Sundays and ID as “you’re listening to News Talk 1540 WECZ” into ABC news. Mixes with WWTK-Cleveland (Fox Sports), WRTK-Niles, OH (religion) and WBTC-Uhrichsville, OH (C&W). (JM-PA)
- 1550 CBE ON **Windsor** - 8/27 2155 – “Ideas” program discussing lead levels, in mix with SS (Cuban?) station, “On ‘Ideas’ you’ve been listening to the 2nd episode ‘The Brains of Babes’ ... stay tuned for the hourly news on CBC Radio One”. 2159 ID as “This is CBC Radio One fifteen fifty in Windsor”. (KK-VA)
- 1560 WQEW NY **New York** - 8/25 2155 – in mix with usual Radio Disney programming. Girl DJ excitedly talking about winning a trip. “Hi, this is smelly... hannah montana Radio Disney will be right back”. 2200 legal ID “WQEW WQEW HD New York” into song. (KK-VA)
- 1570 WYTI VA **Rocky Mount** – 9/14 1759 – fair with bluegrass music and “WYTI” jingle. (JM-PA)
- WNST MD **Towson** – 8/24 1828 – usually over under WPGM, but very strong at times with sports talk (Orioles, Ravens), slogans “we never stop talking Baltimore sports” and “Sports Talk 1570”, ads for Robbie’s First Base in Timonium, MD. (JM-PA)
- WNCA NC **Siler City** – 9/14 1920 – good at times with Hispanic music, “Let’s just say goodbye” in SS and ID in EE, “this is WNCA Siler City”, also “WNCA” jingle. (JM-PA)
- WCLE TN **Cleveland** – 8/25 0330 – good, fading in with ID and Sporting News Radio, sometimes strong at night. (JM-PA)
- 1580 CKDO ON **Oshawa** - 8/21 2200 - song “Silly Human Kindness” ends, station promo “... the greatest rock and roll of all time is here on CKDO” into Bee Gees “Night Fever”. (KK-VA)

+++ - 8/27 0300 – fair-good at times with oldies, local ads and ID: “this is CKDO playing the greatest rock & roll of all time on FM at 107.7 megahertz and 1580 AM CKDO”. (JM-PA)

- WLIJ TN **Shelbyville** – 9/1 2132 – Good at times. Had promo for Celebration 2009 Live on AM-1400 WZNG, then promo for Ma’s Kitchen on WLIJ. (HJH-PA)
- WHFS MD **Morningside** – 8/20 2000 – strong with “this is the Big Talker 1580 AM WHFS...” into CNN news. (JM-PA)
- 1590 WAKR OH **Akron** - 8/20 2210 – in mix with sports talk, “Fifteen ninety WAKR” ID into Cleveland Indian report. (KK-VA)
- WZUM PA **Carnegie** – 8/19 2000 – no local inserts or ID, but instead running IDs and promos from feed station with “the Lighthouse 1270 AM WTJZ” and “shining brightly with the best gospel music, the Light...” (JM-PA)
- 1600 WWRL NY **New York** - 8/19 2158 - “WWRL New York...” ID during call-in show. 2200 ToH ID “sixteen hundred WWRL”, into talk about health care reform. (KK-VA)
- WKKX WV **Wheeling** – 8/22 1043 – fair-good with WZUM off, local ads, ID as “the Valley’s Watchdog AM 1600 WKKX Wheeling”, CNN news, “Sports Huddle” local sports program. WZUM back on at 1100. (JM-PA)
- WAAM MI **Ann Arbor** – 8/19 0300 – fair over/under WKZK with ID “listen to WAAM (‘wham’) wherever you are in any part of the world live on waamannarbor.com...this is ‘wham’ AM 1600 W-A-A-M Ann Arbor” into Fox news. New! (JM-PA)
- WFIS SC **Fountain Inn** – 9/14 0200 – in very briefly with “WFIS” ID then gone. New! (JM-PA)
- WKZK SC **North Augusta** – 8/22 0300 – in and out, fair all morning, with gospel music, slogan “Sunshine 16 and 103.7 WKZK”. (JM-PA)
- WEHH NY **Elmira Heights** – 8/23 0300 – popped in very briefly with “WEHH” ID, possibly oldies, then gone. New! (JM-PA)
- 1610 CHHA ON **Toronto** - 8/18 2155 - EE and SS religious talk. 2159 slogan in SS “...Radio Voces Latina”. 2202 man in EE talking about God. 2231 SS “...Voces Latinas... Toronto... CHHA” then in EE “Sixteen ten AM”. (KK-VA)
- 1620 KOZN NE **Bellevue** - 8/17 2155 – presumed in WNRP mix with typical ESPN radio programming. According to ESPNRadio.com the only ESPN on 1620 is KOZN. (KK-VA)
- WNRP FL **Gulf Breeze** - 8/17 2155 - Mixing with KGZN, “... have a great Monday night everybody and we’ll talk to you again tomorrow on sixteen twenty ... newsradio... WNRP...”. (KK-VA)
- 1630 KCJJ IA **Iowa City** - 8/16 2200 - mixing with NVCC TIS station with jingle “Sixteen thirty KCJJ” followed by “This is KCJJ Iowa City...” legal ID. (KK-VA)
- 1650 KCNZ IA **Cedar Falls** - 8/14 2155 - Mixing with WHKT with sports scores, slogan “The Cedar Falls station...” into ABC news at 2200. (KK-VA)
- WHKT VA **Portsmouth** - 8/14 2155 – mixing with KCNZ with usual Radio Disney programming. “Friday night talent show coming up on R. Disney...” and “WHKT Portsmouth” ID by young girl. (KK-VA)
- 1660 WQLR MI **Kalamazoo** - 8/13 2225 - Mixing with WBCN, “...sixteen sixty ‘The Fan’” slogan and sports talk. (KK-VA)
- WBCN NC **Charlotte** - 8/13 2155 – in WQLR mix with Charlotte Knights vs Pawtucket Red Sox minor league baseball game. IDs as WFNZ-610 and WBCN. According to [http://en.wikipedia.org/wiki/WBCN_\(AM\)](http://en.wikipedia.org/wiki/WBCN_(AM)) WBCN (ex-WFNA,) simulcasts WFNZ. (KK-VA) *I tend not to trust Wikipedia. If I were a teacher, any student who quotes Wikipedia as a source in an essay or term paper would automatically get an F. Apparently they’ve switched from sports to talk, per Dale Park (see Station News above). Mike [Ditto on Mike’s statement about Wikipedia. In fact, I’ve removed some libelous and erroneous information from Wikipedia articles. On the other hand, guess who was the major contributor to the NRC Wikipedia article? -pls.]*
- 1670 WFSM GA **Dry Branch** - 8/12 2155 – ID and station promo “...so join us sixteen seventy WFSM Dry Branch Macon... online Fox Sports sixteen seventy dot com”, usual Fox Sports Radio programs, local “Fox Sports sixteen seventy weather”. (KK-VA)



International DX Digest

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Foreign DX Catches. All times are UTC

Transatlantic DX

- 153 **GERMANY** *Deutschlandfunk*, Donebach (49°34'N 9°11'E) JUL 31 0119 - Parallel 756 with opera; to fair peak. [Connelly-MA]
- 162 **FRANCE** *France-Inter*, Allouis (47°10'N 02°12'E) JUL 31 0027 - Man and woman in French; very good. 0119 "Rehab" by Amy Winehouse; good. [Connelly-MA] SEP 3 0424 - Man and woman with discussion in French to ad string. 0432 rare "France Inter" ID into apparent news segment. [Frodge-MI]
- 171 **MOROCCO** *R.Mediterranee Internationale*, Nador (35°03'N 2°55'W) JUL 31 0027 - Afropop group vocal music with kalimba and drumming, then woman in Arabic; good. 0120 pop Arabic male vocal with drumming; good. [Connelly-MA] SEP 3 0432 - Arabic chant. Fair; nothing on 9575 kHz. [Frodge-MI]
- 180 unID JUL 31 0119 - DRM-like hash spread from 177 to 183 kHz. [Connelly-MA]
- 183 **GERMANY** *Europe 1*, Felsberg (49°17'N 6°41'E) SEP 3 0433 - French news features, ID at end of reports. [Frodge-MI]
- 189 **ICELAND** *Ríkisútgáfa*, Gufuskálar (64°54'N 23°55'W) JUL 31 0119 - Man and woman in Icelandic; good. [Connelly-MA] SEP 3 0437 - Woman in Nordic language, mix of folk and pop tunes, including "Say You Love Me" by Fleetwood Mac. Fair; LSB helps with whine interference. [Frodge-MI]
- 198 **ENGLAND** *BBC Radio 4*, Droitwich et al. JUL 31 0120 - BBC report, "Large US banks which failed have continued to pay large bonuses to executives"; excellent. [Connelly-MA] SEP 3 0448 - BBC agriculture discussion program in English. DIX beacon interference. Cannot find a shortwave parallel. [Frodge-MI]
- 207 **GERMANY** *Deutschlandfunk*, Aholming (48°43'N 12°56'E) JUL 31 0119 - Parallel 153 and 756 with opera; fair. [Connelly-MA]
- 216 **FRANCE** *RMC Roumoules* (43°47'N 6°09'E) SEP 3 0457 - Man and woman with discussion in French, no apparent break at 0500. Fair, interference from 216 CLB beacon, LSB helps. [Frodge-MI]
- 225 **POLAND** *Polskie Radio*, Solec Kujawski (52°22'N 19°48'E) JUL 31 0120 - Slavic teletalk with two woman; poor to fair. [Connelly-MA]
- 234 **LUXEMBOURG** *R.Luxembourg*, Junglinster (49°40'N 6°19'E) JUL 31 0027 - "Bodhisattva" by Steely Dan; fair. 0119 "Cherish" by Kool & the Gang, then two men in French talking and laughing; loud. [Connelly-MA] SEP 3 0500 - Man and woman alternating in French; news? Fair; interference from 233 QN beacon, USB helps. No LWBCs audible above 234 kHz. [Frodge-MI]
- 252 **IRELAND** *RTÉ Radio 1*, Clarkestown JUL 31 0119 - Song from live blues-rock concert, "from California" mentioned at the beginning; atop foreign talker. [Connelly-MA]
- 531 **ALGERIA** *Chaîne 1*, El Ain Beida (35°49'N 7°19'E) SEP 6 0050 - Good, over Spain; distinctive vocal parallel 153 kHz. [Conti-NH]
- 531 **FAROE ISLANDS** *Kringvarp Føroya Útgáfa*, Akraberg (62°01'N 6°46'W) SEP 13 0053 - Heard last few nights with low K and A indices, tonight good at times with pop music, no ID on the hour. SEP 16 0538 - Fair with American pop tunes. [Barstow-MA]
- 531 **SPAIN** *RNE5* synchros JUL 31 0101 - Parallel 774 with news in Spanish; poor. [Connelly-MA]
- 549 **GERMANY** *Deutschlandfunk* synchros JUL 31 0118 - Parallel 756 with opera; poor. Algeria not noted. [Connelly-MA] SEP 6 0140 - Good; classical music, then a woman in German, parallel 756 kHz. [Conti-NH]
- 549 **SAUDI ARABIA** *BSKSA* Qurayyat SEP 6 0230 - Noticed strong pre-sign-on open carrier. 0240 test tone. 0300 Koranic vocal parallel 594 kHz. [Conti-NH]
- 585 **SPAIN** *RNE1* Madrid (40°28'N 3°52'W) JUL 31 0119 - Parallel 621 and 774 with teletalk show by woman in Spanish; poor in WEZE and VOXM slop. [Connelly-MA]
- 594 **SAUDI ARABIA** *BSKSA* Duba SEP 6 0158 - Huge pre-sign-on open carrier noted through the hour. 0240-0248 loud test tone over presumed Portugal. 0250 talk parallel 1521 kHz. SEP 13 0154 - Open carrier noted. [Conti-NH]
- 603 **SPAIN** *RNE5* synchros JUL 31 0101 - Parallel 774 with news; poor. [Connelly-MA]

- 612 **MOROCCO** *RTM A*, Sebaa-Aioun (33°54'N 5°23'W) SEP 7 0120 - Good; North African vocals. [Conti-NH]
- 621 **CANARY ISLANDS // SPAIN** *RNE1* synchros, Santa Cruz de Tenerife et al. JUL 31 0032 - Parallel 639 with fast Spanish talk; through WZON slop. [Connelly-MA] SEP 3 0038 - Soft music, then woman in Spanish. [Connelly-ULR]
- 639 **SPAIN** *RNE1* La Coruña et al. JUL 31 0032 - Parallel 621 with fast Spanish talk; poor to fair on LSB (to dodge CBN). [Connelly-MA] SEP 6 0051 - Good; telephone talk parallel 531, 558, 585, 603, 621, etc. 0300 mixing with an unID signal. [Conti-NH]
- 648 **SPAIN** *RNE1* Badajoz (38°53'N 6°58'W) JUL 31 0101 - Parallel 774 with news in Spanish; poor. [Connelly-MA]
- 675 **NETHERLANDS** *R.Maria*, Lopik (52°01'N 5°03'E) SEP 3 0041 - Religious organ music; good. [Connelly-ULR] SEP 7 0115 - Good; instrumental church music. [Conti-NH]
- 684 **SPAIN** *RNE1* Sevilla (37°12'N 5°55'W) JUL 31 0119 - Parallel 621 with woman in Spanish; fair through WRKO slop. [Connelly-MA] SEP 3 0041 - Spanish teletalk; through WRKO slop. [Connelly-ULR]
- 693 **UNITED KINGDOM** *BBC Radio 5*, Droitwich et al. SEP 3 0042 - Man in English; over others. [Connelly-ULR]
- 702 **IRAN** *IRIB* Kiashar-Rasht (36°24'N 49°56'E) SEP 8 0030 - Man with "Radyosidan" ID then man and woman in presumed Uzbek (did not sound Arabic). Recorded, fair. Per Mauno Ritola this is local programming from Tabritz studios near Rasht in Gilan province. [Black-MA] SEP 12 0000 - End of a male choral vocal, then an announcement in Azeri that became lost in propagational fading, "...mübarak ramazan ayinin." Translation, "...of the Holy month of Ramadan," thanks to Dmitry Mezin at RealDX. Azerbaijan is a primary target of 702 kHz broadcasts. [Conti-NH]
- 702 unIDs SEP 3 0042 - Arabic music; poor. [Connelly-ULR] SEP 6 0100 - Variable fair to good; Koran through the hour. 0200 Koran. Announcements at 0227 with a deteriorating signal. 0300 poor; Koran. Not parallel a strong 531 Algeria. Announcements on the half hour suggest Iran. SEP 7 0100 - Solid s9 signal; Koran over unID talk. At 0130 one station signed off leaving unID Koran in clear over yet another unID Koran station. SEP 12 0002 - Distinct 'late' time pips. SEP 13 0130 - Sign-off noted again, this time leaving a strong open carrier over an unID Koran signal. [Conti-NH]
- 711 **FRANCE** *France Info*, Rennes (47°51'N 1°30'W) JUL 31 0118 - Woman in French; to fair peak. [Connelly-MA] SEP 6 0300 - Good; fanfare and "Le Journal" news. [Conti-NH]
- 711 **SPAIN** *COPE* Murcia JUL 31 0102 - Fast Spanish talk by woman, then Cadena COPE ID; surprisingly over France, W.Sahara, Libya. [Connelly-MA]
- 747 **CANARY ISLANDS // SPAIN** *RNE5* synchros JUL 31 0101 - Parallel 774 et al. with RNE news; in CBGY slop. [Connelly-MA]
- 747 **IRAN** *IRIB1* Bandar-e-Torkaman SEP 16 2321 - Presumed; chanting under dominant Canaries/Spain *RNE5*. Fair. [Black-MA]
- 747 **NETHERLANDS** *Radio 5*, Flevoland (52°23'N 5°25'E) JUL 31 0130 - Man in Dutch; mixed with RNE synchros. [Connelly-MA] SEP 6 0037 - Good, over Canaries/Spain; avant-garde jazz instrumental and talk in Dutch. [Conti-NH]
- 756 **GERMANY** *Deutschlandfunk*, Braunschweig & Ravensburg JUL 31 0119 - Parallel 153 with opera; loud. [Connelly-MA] SEP 6 0045 - Good; classical music parallel 6190 kHz. SEP 7 0200 - Good; "Deutschlandfunk" with fanfare, time pips, and woman in German. [Conti-NH]
- 765 **SWITZERLAND** *RSR Option Musique*, Sottens (46°39'N 6°44'E) JUL 31 0052 - Slow folk-style French male vocal; fair. 0119 uptempo pop French vocal; good. [Connelly-MA] SEP 3 0045 - "Beat It" by Michael Jackson; loud. [Connelly-ULR] SEP 6 0033 - Good; Bob Marley reggae classic "Stand Up for Your Rights." [Conti-NH]
- 774 **EGYPT** *Middle East Radio*, Abis (30°45'N 30°57'E) SEP 3 0045 - Arabic music; evenly mixed with Spain. [Connelly-ULR] SEP 12 0130 - Good; presumed with Koranic recitations. [Conti-NH]
- 774 **SPAIN** *RNE1* synchros JUL 31 0032 - Parallel 621 with echoey Spanish talk by woman; fair. 0052 parallel 1098 with techno dance music, then man in Spanish; good. [Connelly-MA] SEP 3 0045 - Spanish talk; mixed with Egypt. [Connelly-ULR] SEP 13 0102 - News; good. [Barstow-MA]
- 783 **GERMANY** *MDR Info*, Leipzig-Wiederau JUL 31 0052 - Bits of German talk by woman; momentarily surfacing. [Connelly-MA]
- 783 **MAURITANIA** *R.Mauritanie*, Nouakchott (18°07'N 15°57'W) JUL 31 0029 - Arabic music. 0119 man in Arabic; fair. 0130 Arabic preaching; good. [Connelly-MA] SEP 3 0047 - Female Arabic vocal; fair with bits of Spain under. [Connelly-ULR]

- 783 **SYRIA** *R.Syria 1*, Tartus (34°55'N 35°52'E) SEP 7 0158 - Fair; Koran, announcement, and unequivocal interval signal. [Conti-NH]
- 819 **EGYPT** *ERTU* Batra (31°09'N 31°27'E) JUL 31 0119 - Koranic a cappella male vocal; to fair peak. [Connelly-MA] SEP 12 0305 - Fair; dry reading in Arabic with deliberate pauses between items, parallel 6290 kHz. [Conti-NH]
- 837 **CANARY ISLANDS // SPAIN** *COPE* sychros JUL 31 0000 - Cadena COPE ID, piano notes, then news by woman; fair. 0052 Spanish talk, telephone interview, COPE ID, into a bit of old song "As Time Goes By"; good, over France which had jazz. [Connelly-MA] SEP 3 0048 - Man in Spanish; strong, better than adjacent 840 (which had weak Brazil alone). [Connelly-ULR]
- 837 **FRANCE** *France Info*, Nancy (48°53'N 6°14'E) JUL 31 0030 - Parallel 1206 with spy-movie type instrumental, news sounder, then woman in French; fair. [Connelly-MA] SEP 6 0000 - Good, well over Canaries/Spain; fanfare and woman with news. [Conti-NH]
- 855 **SPAIN** *RNE1* sychros JUL 31 0030 - Parallel 621 with man and woman in Spanish; fair on USB (to dodge WEEI). 0100 pips, intro music, man said "Radio Nacional de España, informativo," then news by woman; fair. [Connelly-MA] SEP 3 0049 - Echoey Spanish talk by woman; over other station that was probably Romania. [Connelly-ULR]
- 864 **EGYPT** *ERTU* Santah (30°45'N 31°08'E) JUL 31 0102 - Koranic vocal; over France, LSB needed to dodge superslopper 870 WLVP. [Connelly-MA]
- 864 **FRANCE** *France Bleu*, Villebon-sur-Yvette (48°41'N 2°14'E) JUL 31 0053 - Parallel 1278 with slow male vocal and piano; fair. 0158 "New York, New York" by Frank Sinatra; good. [Connelly-MA] SEP 3 0049 - Old style French pop vocal; over Egypt. [Connelly-ULR] SEP 12 0300 - Good; time check, "Radio France Bleu" jingle with voice-over, and a nostalgic French vocal. [Conti-NH]
- 873 **GERMANY** *AFN* Frankfurt JUL 31 0131 - "Tell Me Why" by Wynonna Judd; mixed with Spain talk; through tough WLVP slop. 0201 AFN news by man mentioning "temporary evacuation of a site 100 miles from Houston"; over Spain. 0159 parallel 1107 with honky-tonk country song; mixing with Spain. [Connelly-MA]
- 873 **SPAIN** *SER* sychros JUL 31 0100 - ID "Cadena SER, servicios informativos" into start of newscast; over WLVP slop. [Connelly-MA] SEP 6 0000 - Good; fanfare, "Cadena Ser, Servicios Informativos." [Conti-NH]
- 882 **CANARY ISLANDS // SPAIN** *COPE* sychros JUL 31 0100 - COPE news; slightly over UK. [Connelly-MA]
- 882 **UNITED KINGDOM** *BBC R.Wales*, Washford (51°10'N 3°21'W) SEP 6 0029 - Fair; BBC World Service promos. [Conti-NH]
- 891 **PORTUGAL** *R.Sim*, Vila Moura JUL 31 0055 - Plaintive Portuguese vocal; poor. 0119 "Hello Mary Lou" by Ricky Nelson from '61. 0202 Portuguese talk by man; poor to fair. [Connelly-MA]
- 909 **UNITED KINGDOM** *BBC Radio 5 Live* sychros JUL 31 0031 - Sports report mentioning wickets; good. 0100 talk about a "garden guru" show, URL "bbc.co.uk," ID "on BBC Digital Radio, Digital TV, Downloads, and BBC I-Player" (no mention of MW interestingly); into Five Live news with first item about organ donation laws. 0120 interview about championship golf course in North Carolina; excellent. 0129 gardening discussion; excellent. 0200 news with basically the same items as an hour earlier; loud. [Connelly-MA] SEP 2 2340 - Five Live ID, promo for European football; good. SEP 3 0051 - Huge with talk, "the Home Office is not happy with the previous commissioner." [Connelly-ULR] SEP 6 0000 - Excellent, 10 dB stronger than 910 domestics and no problem getting past local 900 WGHM; "On digital and online, this is BBC Radio Five Live." [Conti-NH]
- 909 unID JUL 31 0029 - Koranic chanting under UK. Yemen is one possibility. 0120 Arabic-sounding vocal; way under UK. [Connelly-MA]
- 945 **FRANCE** *France Info*, Toulouse (43°21'N 1°20'E) JUL 31 0052 - Parallel 837 with smooth jazz; fair to good. 0100 news intro music, French news by woman; best on USB to dodge WGIN IBOC. [Connelly-MA] SEP 3 0052 - Man in French, then pop music; fair. [Connelly-ULR] SEP 7 0000 - Good; fanfare, "...France Info, Le Journal." [Conti-NH]
- 954 **QATAR** *QBS* Al Arish JUL 31 0055 - Possibly this with Arabic talk by man; to fair peak. 0129 Arabic news with emphasis music "stingers" between items. 0201 man in Arabic; over Spain most of the time. [Connelly-MA] SEP 3 0054 - Man with Arabic newstalk mentioning "arabiyah"; good. [Connelly-ULR]
- 954 **SPAIN** *Onda Cero*, Madrid JUL 31 0052 - Spanish talk by man; poor. [Connelly-MA]
- 963 **PORTUGAL** *R.Sim*, Seixal (38°38'N 9°05'W) SEP 3 0054 - Portuguese vocal; fair. [Connelly-ULR] SEP 12 0300 - Fair to good; signature time marker of five pips and a blip, then a woman

- in Portuguese. 0310 fair; same woman in Portuguese. [Conti-NH]
- 963 **SPAIN** *R.Euskadi*, Vitoria JUL 31 0030 - Spanish talk by man and woman; poor. [Connelly-MA]
- 963 **TUNISIA** *RTT* Tunis (36°48'N 10°10'E) JUL 31 0202 - Arabic male vocal; mixed with one or two others. [Connelly-MA] SEP 5 2350 - Presumed; good with Koranic vocals, weak audio through the hour. [Conti-NH]
- 963 unID JUL 31 0130 - Madonna song "Music," pips noted on the half hour but maybe from something else co-channel. Portugal suspected. [Connelly-MA]
- 972 **GERMANY** *NDR Info*, Hamburg (53°31'N 10°07'E) JUL 31 0202 - German newstalk; in severe WZAN slop. [Connelly-MA] SEP 12 0401 - Fair; news with *NDR Info* mention into report. [Conti-NH]
- 981 **ALGERIA** *RTVA Chaîne 2*, Algiers (36°40'N 3°09'E) JUL 31 0000 - Pop Arabic vocal, pips, string music fanfare, man in French; good. 0031 male Arabic vocal with flutes and strings; good. [Connelly-MA]
- 999 **SPAIN** *COPE* Madrid (40°28'N 3°52'W) JUL 31 0000 - Parallel 837 with Cadena COPE ID, a few piano notes, then news by woman; fair. 0100 pips, Cadena COPE ID, a few piano notes, then news; fair over WINS IBOC. [Connelly-MA] SEP 3 0055 - Man in Spanish; good. [Connelly-ULR]
- 999 unID SEP 6 0210 - Koran over Spain. [Conti-NH]
- 1008 **CANARY ISLANDS** *Punto Radio*, Las Palmas JUL 31 0053 - Spanish pop female vocal; over *SER* and through WINS slop. [Connelly-MA]
- 1026 **IRAN** *IRIB* Tabriz SEP 15 0039 - Good with chanting parallel 702 kHz. New log. [Barstow-MA]
- 1035 **PORTUGAL** *R.Clube Português*, Belmonte SEP 13 0105 - Fair with music. [Barstow-MA]
- 1053.1 **LIBYA** *Libyan Jamahiriya*, Tripoli (32°50'N 13°00'E) JUL 31 0159 - Arabic teletalk; now split-table on USB from *TalkSport*. [Connelly-MA]
- 1053 **MOROCCO** *RTM A*, Tangier SEP 3 0110 - Possibly this with French talk the Arabic music; dominant. [Connelly-ULR]
- 1053 **UNITED KINGDOM** *TalkSport* synchros JUL 31 0029 - Talk about 21 year old man in NE England who had affairs with 16 and 13 year old girls; over 1053.099 (Libya) growl. 0053 man on phone concludes call with "We went into Iraq for oil," announcer gives 08717 double 2 double 3 double 4 number, then Grace from Surrey phones in; good, over growl. 0131 more talk about Iraq; good. [Connelly-MA]
- 1062 **DENMARK** *Danmarks Radio*, Kalundborg (55°40'N 11°04'E) SEP 12 0340 - Excellent s9+10; alternating between two cycles of interval signal and announcement, then 0345 weather, pop music leading up to the hour. [Conti-NH] SEP 17 0358 - Elvis "Blue Suede Shoes" then announcer in Danish into top of the hour news with man and woman; very good. [Black-MA]
- 1062 **IRAN** *IRIB* Kerman SEP 13 0020 - Fair; monotone speaker followed by Koranic vocal parallel 1188 kHz. [Conti-NH]
- 1062 **TURKEY** *TRT* Diyarbakir (37°49'N 40°19'E) JUL 31 0052 - Likely this with Koranic chanting; poor. [Connelly-MA]
- 1088 **ANGOLA** *R.Nacional de Angola*, Mulenvos (8°51'S 13°19'E) JUL 31 0200 - Fanfare music, Portuguese news; poor. [Connelly-MA]
- 1089 **UNITED KINGDOM** *TalkSport* synchros JUL 31 0032 - Advert for "Race to Witch Mountain" DVD at Blockbuster, "Rent 4 movies for 4 nights for 10 pounds." Good, slight 1088 Angola het. 0131 parallel 1053 with talk about Iraq; good. [Connelly-MA] SEP 13 0000 - Good; "From the Sky News Center, *TalkSport* News." [Conti-NH]
- 1098 **SPAIN** *RNE5* synchros JUL 31 0031 - Short segment of '50s-type rock, then man and woman in Spanish; good. [Connelly-MA]
- 1098 unID JUL 31 0129 - Mideast music; under Spain. Iran (200 kW) the most likely suspect. [Connelly-MA] SEP 12 0030 - Middle Eastern string instrumental; signal on par with *RNE5* synchros. [Conti-NH]
- 1107 **GERMANY** *AFN* synchros JUL 31 0159 - Parallel 873 with honky-tonk country song; mixed with Spain. [Connelly-MA]
- 1107 **SPAIN** *RNE5* synchros JUL 31 0054 - Parallel 1098 with rock Spanish vocal then talk; slightly over unID second station that seemed more like Italy than Egypt or Germany. [Connelly-MA] SEP 3 0112 - Fast Spanish talk by man and woman; good. [Connelly-ULR]
- 1107.12 **SPAIN** *RNE5* Caceres JUL 31 0200 - "Radio Nacional de España... informativos" ID; slice-able on USB from the rest of the parallel *RNE* synchros on 1107.0 kHz. At this time the 1107.0 and 1107.12 signals were equal strength on the Perseus spectrum analysis display. [Connelly-

MA]

- 1116 **ITALY** *Rai Radiouno* synchros SEP 13 0438 - Good; news or discussion between two men with Palermo mentioned. [Barstow-MA]
- 1116 **SPAIN** *SER* synchros JUL 31 0001 - Parallel 1179 with fast Spanish news; poor to fair. 0031 music parallel 1179; fair. 0131 teletalk; good. 0202 parallel 1485 with news about Barcelona; good. [Connelly-MA]
- 1125 **SPAIN** *RNE5* synchros JUL 31 0000 - ID "Radio Nacional de España... informativos"; to fair peak over others and WBBR slop. 0031 talk parallel 1098; fair. 0200 news; chaotic multiple echoes with long delays. [Connelly-MA]
- 1134 **CROATIA** *Glas Hrvatske, Zadar* (44°06'N 15°15'E) JUL 31 0053 - Slavic folk male vocal; good, now way over Spain. 0200 English service, "You're listening to Croatia today." Good. [Connelly-MA] SEP 3 0113 - Country-influenced Balkan folksong. [Connelly-ULR] SEP 13 0107 - Strong with talk. [Barstow-MA]
- 1134 **SPAIN** *COPE* synchros JUL 31 0000 - Parallel 1143 with Cadena COPE ID; dominant. [Connelly-MA]
- 1143 **SPAIN** *COPE* synchros JUL 31 0000 - Parallel 1134 with Cadena COPE ID, news; poor. 0031 talk parallel 1224; fair. [Connelly-MA] SEP 3 0115 - Spanish interview; fair, minimal interference. [Connelly-ULR]
- 1152 **ROMANIA** *România Actualitata, Cluj* (46°42'N 23°34'E) JUL 31 0201 - Parallel 1593 with chanting monks type vocal; mixed with Spain. [Connelly-MA]
- 1152 **SPAIN** *RNE5* synchros JUL 31 0000 - Parallel 1125 with *R.Nacional de España* ID; to fair peak. 0031 parallel 1098 with 10 second rock music clip, then talk by woman; very echoey. [Connelly-MA] SEP 3 0115 - Woman in Spanish; good, stronger than 1150 CHGM and WWDJ. [Connelly-ULR]
- 1161 **IRAN** *IRIB Abadan* SEP 13 0000 - Good; Koranic vocal through the hour, presumed Iran. [Conti-NH]
- 1170 **UNITED ARAB EMIRATES** *R.Sawa, Al Dhabiya* (24°11'N 54°14'E) JUL 31 0053 - Pop Mid-east male vocal and strings; to good peak, way over WWVA, best on USB to dodge WHAM IBOC around 1167. 0054 pop mideast vocal, *R.Sawa* ID; over WWVA. 0129 Arabic talk with Sawa mention, then US boy-band type hit (Jonas Bros.?); over WWVA. [Connelly-MA]
- 1179 **CANARY ISLANDS // SPAIN** *SER* synchros JUL 31 0001 - Parallel 1116 with fast-talk news; fair. 0031 parallel 1116 with romantic music; good. [Connelly-MA]
- 1179 **ROMANIA** *România Actualitata, Galbeni-Bacau et al.* JUL 31 0131 - Parallel 1593 with male folk-style vocal and guitar; mixed with *SER*. [Connelly-MA]
- 1188 **IRAN** *IRIB R.Payam, Tehran* JUL 31 0100 - Koranic vocal, then three ascending chimes into news - same as what Bruce Conti noted during the DX Clams outing. Bruce got this ID'ed on RealDX. [Connelly-MA] SEP 13 0020 - Good; monotone speaker followed by Koranic vocal parallel 1062 kHz. [Conti-NH]
- 1196.75 **ANGOLA** *Emissora Provincial de Malanje, Malanje* JUL 31 0052 - Angolan presumed the source of 250 Hz low-side het against 1197 jumble, too much WKOX slop to pick off useful audio. [Connelly-MA]
- 1206 **FRANCE** *France Info, Bordeaux* (44°57'N 0°11'W) JUL 31 0001 - News by woman in French; to good peak over WKOX slop. [Connelly-MA] SEP 3 0116 - Woman in French; to good peak. [Connelly-ULR]
- 1215 **UNITED KINGDOM** *Absolute Radio* synchros JUL 31 0053 - Corny music intro, "Tom's Flick of the Day" film review feature; good, over Spain. [Connelly-MA] SEP 3 0117 - "Don't You Want Me" by Human League from '82; loud. [Connelly-ULR]
- 1224 **SPAIN** *COPE* synchros JUL 31 0031 - Parallel 1143 with man in Spanish; poor. [Connelly-MA]
- 1242 **FRANCE** *France Info, Marseille* (43°16'N 5°18'E) JUL 31 0001 - Parallel 1206 with news in French; poor. 0030 parallel 1206 with musical fanfare, news by woman in French; fair. [Connelly-MA]
- 1278 **FRANCE** *France Bleu, Selestat* JUL 31 0053 - Parallel 864 with slow male vocal; poor. [Connelly-MA]
- 1296 **SPAIN** *COPE Valencia* JUL 31 0201 - Parallel 999 with news by woman in Spanish; to fair peak over others. [Connelly-MA]
- 1305.09 **IRAN** *IRIB Bushehr* JUL 31 0052 - Middle Eastern vocal occasionally splittable out of high-side growl with Spain. Frequency offset confirmed by Mauno Ritola. [Connelly-MA]
- 1305 **SPAIN** *RNE5* synchros JUL 31 0030 - Talk parallel 1098; poor to fair. 0055 oldies-rock style vocal parallel 1314; good. 0100 *R.Nacional de España* ID, news; good over rumble. [Connelly-MA] SEP 3 0118 - Woman in Spanish, fast sub-audible het and echo; good. [Connelly-ULR]

- 1314 **SPAIN** *RNE5* synchros JUL 31 0055 - Parallel 1305 and 1413 with woman in Spanish, then oldies-rock style male Spanish group vocal; fair. [Connelly-MA]
- 1323 **CYPRUS** *BBC World Service, Zyyi* SEP 16 0327 - Man and woman in English with world news; fair mixing with presumed Germany. New log. Cyprus previously heard on 639 some 50 years ago. Audio clip on WTFDA Forums. [Barstow-MA]
- 1341 **NORTHERN IRELAND** *BBC Radio Ulster, Lisnagarvey (54°30'N 6°04'W)* JUL 31 0131 - English news, sports; poor. 0200 parallel 909 with "It's Five Live," into news about organ transplant laws; fair. [Connelly-MA]
- 1359 **SPAIN** *RNE Arganda del Rey (40°18'N 3°25'W)* JUL 31 0000 - Parallel 1152 with news in Spanish; poor. [Connelly-MA]
- 1377 **FRANCE** *France Info, Lille (50°31'N 2°59'E)* JUL 31 0053 - Parallel 945 with smooth jazz; good, peaking within 5 dB of local 1380 WMYF (which VSoft rates at 71 dBu). [Connelly-MA] SEP 3 0119 - Parallel 1206 with woman in French talking about the economy; huge. [Connelly-ULR] SEP 18 2330 - Excellent, no problem getting around local 1370 WFEA; fanfare into news by a woman with *France Info* ID. [Conti-NH]
- 1404 **FRANCE** *France Info* synchros SEP 18 2350 - Fair; orchestra instrumental parallel 1377 kHz. [Conti-NH]
- 1413 **SPAIN** *RNE5* synchros JUL 31 0055 - Parallel 1305 with oldies type Spanish rock; poor in WVAE IBOC. [Connelly-MA] SEP 18 2328 - Good; telephone talk in Spanish parallel 1305 kHz. [Conti-NH]
- 1422 **ALGERIA** *R.Algérienne, Algiers (36°40'N 3°09'E)* JUL 31 0001 - Man in French with news; to good peak. 0054 French talk by man, saxophone jazz; over Germany's opera. [Connelly-MA] SEP 2 2341 - Fast French talk by man; splittable from 1420 pile. [Connelly-ULR] SEP 18 2315 - Good; man in French parallel 252 kHz. [Conti-NH]
- 1422 **GERMANY** *Deutschlandfunk, Heusweiler (49°21'N 6°55'E)* JUL 31 0053 - Parallel 756 with operatic shrieking; loud. 0100 *Deutschlandfunk* ID, pips, German news by woman; good, over Algeria. 0200 same sequence of ID, pips, and news as at 0100; good. [Connelly-MA] SEP 3 0120 - Avant-garde jazz piano; excellent, over Algeria. [Connelly-ULR] SEP 13 0050 - Germany in good with classical music parallel 756 kHz. [Barstow-MA]
- 1431 **DJIBOUTI** *R.Sawa, Arta (11°31'N 42°50'E)* JUL 31 0052 - Bollywood-influenced male Arabic vocal; to good peak. 0202 Mideast dance-club music; fair. [Connelly-MA] SEP 3 0121 - Arabic vocal; splittable from 1430 pile and actually heard best with G8 tuned to 1434 kHz. [Connelly-ULR]
- 1440 **SAUDI ARABIA** *BSKSA Damman* JUL 31 0053 - Parallel 1521 with fast Arabic talk by man; momentarily over WRED Maine. [Connelly-MA]
- 1449 **ITALY** *Rai Radiouno* synchros SEP 13 0443 - Fair with slop; parallel 1116 kHz. New log. [Barstow-MA]
- 1449 **LIBYA** *Libyan Jamahiriya, Misurata (32°46'N 15°05'E)* SEP 18 2350 - Unstable signal, varying poor to good; Koranic vocals. [Conti-NH]
- 1467 **FRANCE** *R.Maria, Col de la Madone (43°47'N 7°25'E)* SEP 16 0505 - Fair to good at peaks. French speaking man along with easy listening music. All alone on channel. [Barstow-MA]
- 1485 **MELILLA // SPAIN** *SER* synchros JUL 31 0202 - Parallel 1116 with news by man and woman in Spanish; poor. [Connelly-MA] SEP 3 0121 - Spanish teletalk; fair. [Connelly-ULR]
- 1494 **FRANCE** *France Info* synchros JUL 31 0159 - Parallel 1206 with easy-listening instrumental; poor in WBAE slop. [Connelly-MA]
- 1503 **SPAIN** *RNE5 Piñeira and La Línea de la Concepción* SEP 16 0520 - Peak to fair at times with talk. Awash at times in IBOC hash. [Barstow-MA] SEP 18 2300 - Fair with synchro echo; time marker, fanfare into news. [Conti-NH]
- 1512 **SAUDI ARABIA** *BSKSA Jeddah (21°15'N 39°10'E)* JUL 31 0053 - Arabic chant; mixed with second station. 0201 Arabic music; poor to fair. [Connelly-MA]
- 1521 **SAUDI ARABIA** *BSKSA Duba (27°20'N 35°45'E)* JUL 31 0022 - Huge with two men in Arabic talking and laughing. 0201 Koranic vocal; loud. [Connelly-MA] SEP 2 2342 - High-energy Arabic male vocal and chorus; excellent. SEP 3 0122 - Man in Arabic; monster-loud (reducing WWKB to a background het). [Connelly-ULR] SEP 6 0215 - Excellent, s9+20; Koran. SEP 18 2300 - s9+20. [Conti-NH]
- 1521 **SPAIN** *SER Castellón* JUL 31 0000 - ID "Cadena SER, servicios informativos"; actually over the Saudi! [Connelly-MA] SEP 16 0502 - Fair with talk and Saudi out of the way. [Barstow-MA]
- 1530 **VATICAN** *R.Vaticana, Vatican City (42°03'N 12°19'E)* SEP 13 0340 - In WCKY null; one cycle of interval signal, brief announcement, and religious vocal. [Conti-NH]

- 1548 **KUWAIT** *R.Sawa*, Kabd-Kuwait City (29°10'N 47°32'E) JUL 31 0131 - Pop Arabic male group vocal; over IBOC noise. [Connelly-MA] SEP 3 0122 - Man in Arabic; good. [Connelly-ULR]
- 1548 **UNITED KINGDOM** *BBC R.Bristol*, Bristol-Mangotsfield JUL 31 0200 - Parallel 909 with news about organ donation and transplants; poor. [Connelly-MA]
- 1550 **ALGERIA** *RASD Tindouf-Rabouni* (27°29'N 7°49'W) JUL 30 2359 - Spanish talk including ID, "Radio Nacional Saharaui," sign-off with 'tubby' anthem; to good peak. [Connelly-MA]
- 1557 **FRANCE** *France Info*, Fontbonne (43°46'N 7°25'E) JUL 31 0001 - Parallel 1206 with news; fair when the WQEW slop let up. [Connelly-MA] SEP 13 0400 - Good; fanfare into "Le Journal" news. [Conti-NH] SEP 16 0455 - Huge signal above and equal to 1560 at times. [Barstow-MA]
- 1575 **ITALY** *Rai Radiouno* synchros SEP 13 0431 - Fast talking Italian girl; good during peaks and all alone on this channel. SEP 16 0440 - Woman with fast paced news parallel 1062 and 1116 kHz; fair to good at peaks. [Barstow-MA]
- 1575 **UNITED ARAB EMIRATES** *R.Farda*, Al Dhabiya (24°11'N 54°14'E) JUL 31 0130 - *R.Farda* (Far-DA) ID, news headlines with music bursts between them; to good peak. [Connelly-MA]
- 1584 **CEUTA** *RadiOlé*, Ceuta (35°53'N 5°17'W) JUL 31 0000 - Romantic Spanish vocal going across the top-of-hour; pips and a bit of talk from *SER* noted way off in the background. [Connelly-MA] SEP 3 0124 - Folk Spanish male vocal and guitar, then tropical music; excellent. [Connelly-ULR]
- 1593 **ROMANIA** *România Actualități*, Ion Korvinn JUL 31 0131 - Parallel 1179 with male folk-style vocal and guitar; to fair peak. [Connelly-MA]
- 1611 **ITALY** *R.Vaticana*, Santa Maria di Galeria (41°54'N 12°27'E) SEP 13 0423 - Man in unknown language; fair at times. Any time they are in I check the Italian channels. SEP 16 0451 - Fair with slop; in unknown language. Good on 1612 to get away from 1610 kHz. [Barstow-MA]

Pan-American DX

- 530 **TURKS & CAICOS** *R.Visión Cristiana*, South Caicos (21°30'N 71°31'W) SEP 3 0000 - Religious music then full ID in Spanish followed by woman in English giving U.S. parallels 1330 WWRV New York and 1310 WRVP Mount Kisco; fair-good. [Black-MA]
- 540 **MEXICO** *XEWA* San Luis Potosí (22°10'N 100°58'W) SEP 13 1030 - *W Radio* ID and jingles into Mexican pop music; good. [Black-MA]
- 555 **ST. KITTS & NEVIS** *ZIZ* Basseterre (17°19'N 62°44'W) JUL 31 0120 - Fragments of Caribbean English talk; in tough WGAN slop. [Connelly-MA]
- 580 **PUERTO RICO** *WKAQ* San Juan (18°26'N 66°08'W) JUL 31 0100 - *WKAQ* ID in Spanish talk; a bit behind WTAG. 0120 Spanish newstalk about Puerto Rico subjects; mixed with WTAG and CFRA. [Connelly-MA]
- 630 **PUERTO RICO** *WUNO* San Juan (18°26'N 66°07'W) JUL 31 0119 - Uno and Radio Uno mentions in Spanish talk; under WPRO. [Connelly-MA]
- 640 **GUADELOUPE** *R.Guadeloupe*, Pointe-à-Pitre (16°15'N 61°32'W) SEP 9 2359 - Man in French, top of the hour ID with Guadeloupe mentions; very good. [Black-MA]
- 670 **VENEZUELA** *YVLL R.Rumbos*, Caracas (10°29'N 66°59'W) SEP 3 0040 - Rumbos mention and Spanish talk about Venezuelan topics. [Connelly-ULR]
- 700 **BRAZIL** *ZYK686 R.Eldorado AM*, São Paulo (23°32'S 46°37'W) JUL 31 0120 - Reverberated Portuguese screaming including "goooooal!"; mixed with WLW. [Connelly-MA]
- 720 **BRAZIL** *ZYK276 R.Guaíba*, Porto Alegre (30°02'S 51°12'W) JUL 31 0030 - Portuguese sports coverage, São Paulo mentions; dominant. [Connelly-MA]
- 720 **VENEZUELA** *YVQE Oriente 720*, Porlamar (10°56'N 64°12'W) JUL 31 0120 - "En Venezuela, Oriente" ID, then hot tropical music; slightly over jumble of others. [Connelly-MA]
- 750 **VENEZUELA** *YVKS RCR* Caracas (10°29'N 67°00'W) SEP 3 0043 - Caracas mentions; over CBGY. [Connelly-ULR]
- 760 **BRAZIL** *ZYH588 R.Uirapuru*, Fortaleza (3°45'S 38°31'W) JUL 31 0120 - Portuguese sports shouting; under WJR. [Connelly-MA] SEP 2 2345 - Two men in Portuguese; fair. [Connelly-ULR]
- 760 **COLOMBIA** *HJAJ RCN* Barranquilla (10°53'N 74°49'W) JUL 31 0054 - Spanish talk mentioning casinos, then *RCN* ID. [Connelly-MA]
- 770 **COLOMBIA** *HJJX RCN* Bogotá (4°37'N 74°11'W) JUL 31 0119 - Bogotá mentions in Spanish talk; under WABC. [Connelly-MA]
- 780 **VENEZUELA** *YVMN R.Coro*, Coro (11°23'N 69°40'W) JUL 31 0120 - Coro mention popped out of jumble. [Connelly-MA] SEP 3 0046 - ID, "En Venezuela, Coro"; dominant. [Connelly-ULR]

- 820 **ST. KITTS & NEVIS** TBN/R.Paradise, Charlestown (17°08'N 62°37'W) JUL 31 0052 - Testimony about being healed by prayer; good. 0131 black gospel female chorus; good. [Connelly-MA]
- 840 **BRAZIL** ZYK687 R.Bandeirantes, São Paulo (23°32'S 46°37'W) JUL 31 0000 - Reverberated Portuguese talk; poor. 0031 São Paulo mention. 0100 Portuguese news by man. [Connelly-MA]
- 860 **BRAZIL** unID JUL 31 0000 - Two equal strength Brazilians, likely ZYJ459 and ZYH592, very soft-spoken man on one station and hyper-fast-delivery sportstalk on the other. [Connelly-MA]
- 890 **COLOMBIA** HJPM R.Galeón, Santa Marta SEP 15 2359 - Man with Latin news, fanfare and woman with "Radio Galeón" and Santa Marta ID, then station promos with R.Galeón and Santa Marta mentions. Very good; recorded. [Black-MA]
- 895 **ST. KITTS & NEVIS** Voice of Nevis, Bath Village (17°07'N 62°37'W) JUL 31 0102 - Soul vocal then ID as VON Radio (letters said individually rather than 'Von' word used previously); poor to fair. [Connelly-MA]
- 1000 **BRAZIL** ZYK522 R.Record, São Paulo (23°33'S 46°38'W) JUL 31 0000 - Circus type music, Portuguese talk mentioning São Paulo; poor to fair. [Connelly-MA]
- 1000 unID JUL 31 0100 - Pips about 25 seconds late (at 0100:25) mixed with Brazil and pig-pile of other signals. [Connelly-MA]
- 1100 **BRAZIL** ZYK694 R.Globo, São Paulo (23°32'S 46°37'W) JUL 31 0032 - Fast Portuguese talk by man; coming up over WTAM. 0201 reverberated Portuguese news; under WTAM. [Connelly-MA]
- 1110 **VENEZUELA** YVQT R.Carúpano, Carúpano (10°40'N 63°18'W) JUL 31 0200 - Spanish-language cover version of the Beatles' "You're Gonna Lose That Girl," then ID, "En Venezuela, Carúpano," timecheck, "nueve... treinta minutos"; loud, demolishing WBT. [Connelly-MA]
- SEP 3 0112 - R.Carúpano ID; dominant. [Connelly-ULR]
- 1139.4 unID JUL 31 0000 - Weak het. [Connelly-MA]
- 1140 **BRAZIL** ZYH449 R.Cultura, Salvador JUL 31 0000 - Portuguese talk; weak but dominant. 0031 "en Salvador" and "futebol" mentions in Portuguese talk; poor. [Connelly-MA]
- 1160 **BERMUDA** VSB3 Hamilton (32°18'N 64°46'W) JUL 31 0001 - BBC news by man and woman; under WSKW. [Connelly-MA]
- 1220 **BRAZIL** ZYJ458 R.Globo, Rio de Janeiro (22°55'S 43°13'W) JUL 31 0030 - Fast and highly reverberated Portuguese talk by man; slightly over others. [Connelly-MA]
- 1240.068 unID JUL 31 0030 - Growl against WSYY and WBUR. [Connelly-MA]
- 1399.923 unID JUL 31 0054 - Low growl against WVAE, WJZN, and CBG. [Connelly-MA]
- 1620 **CUBA** R.Progreso, unknown location JUL 31 0202 - Instead of WDHP, noted ID of "Radio Progreso de Habana" topping the channel. Audio was somewhat compressed and tinny-sounding. [Connelly-MA]



Contributors

Roy Barstow, Teaticket MA; RFSpace SDR IQ, SuperLoop at 63°.

Chris Black N1CP, South Yarmouth MA; Microtelecom Perseus, 35 x 90-ft Flag.

Mark Connelly WA1ION, Rockport MA; Perseus operated with MSI Wind U100 netbook, cardioid-pattern Micro-SuperLoop on car roof, square 2 m per side with 9:1 xfmr on east bottom corner to speaker wire to 2:1 xfmr to W7IUV transfer amp and 9:1 xfmr on west corner to speaker wire to 500 ohm null-adjust potentiometer, and Grundig G8 ultralight (ULR) with same antenna air-coupled via Radio Shack 15-1853 passive loop.

Bruce Conti, Nashua NH; SDR IQ, variable termination SuperLoop antennas 13 x 20-m east and 15 x 23-m south.

Harold Frodge, Midland MI; Drake R8B, 125-ft bow-tie, 85-ft random wire, 180-ft center-fed random wire.

International News

ARGENTINA: New station, 1660 R.Esperanza, Barrio Esperanza, Virrey del Pino. [Marcelo A. Cornachioni, ConDig via ARC]

MEXICO: Grupo Radiodifusoras Capital affiliates: 650 XECHH Chilpancingo, Gro., 700 XERV Villahermosa, Tab., 830 XEITE México, D.F., 920 XEHQ Hermosillo, Son., 1040 XECH Toluca, Edo. Méx., 1120 XEGV Querétaro, Qro., and 1130 XEZL Xalapa, Ver. [www.gruporadiocapital.com.mx]

MEXICO: 1250 XETF R.Fórmula, Veracruz, 10 kW, ex-1060 kHz. [Héctor García Bojorge via Christer Brunström, ARC]

73 and Good DX!

Professional Sports

Networks

Barry S. Finkel bsfinkel@ANL.gov
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Network listings for team sports stations

Here is the National Football League (NFL) list of radio networks for the 2009 season. Some of the web pages state "Do not reproduce", so I cannot include them here. There is one web page <<http://the506.com/yabb/YaBB.pl?num=1249422807>> that has all of the network lists; I have not reviewed it to see what the sources are. I did use that source for a few lists that I could not find elsewhere. There are some web sites whose contents I am not sure are official. There are some pages where I returned to the URL to check for a "Do not reproduce" statement, and Firefox told me that the URL was not found; when I went to the URL via other means, I found that the same URL (It looked the same to me) worked. I have no explanation. Always remember that these network lists are subject to change. In most cases, I did not check the announcer lists on any web page with those that Ken Onyschuk provided in my last column.

Arizona Cardinals 2009 (EE) Dave Pasch, Ron Wolfey

<http://www.skyviewsatellite.com/azcardinals> (09/12/2009)

560	KBLU-AZ	980	KNTR-AZ	1250	KBSZ-AZ	1420	KTAN-AZ
600	KVNA-AZ	1130	KQNA-AZ	1290	KCUB-AZ		
620	KTAR-AZ *	1150	KDEF-NM	1340	KIKO-AZ	92.1	KZUA-AZ
780	KAZM-AZ	1230	KATO-AZ	1400	KRVZ-AZ	94.3	KDDL-AZ

Arizona Cardinals 2009 (SS) Gabriel Trujillo, Rolando Cantu

<http://www.azcardinals.com/photos-videos/spanish-radio.html> (09/12/2009)

I am not sure that this is the list for the 2009 season. This list has cities and frequencies but no call letters nor states; Google was/is my assistant.

650	XEVILL-TB	960	XEOZ-VE	1310	XEHIT-PU		
710	KMIA-AZ *	1090	XEIL-VC	1370	XEPJ-MX	88.1	XERE-GT
830	XEVQ-SI	1120	XEGV-QT	1420	XEPK-HG	94.3	XHJTA-GT
920	XEQD-CH	1130	XETOL-MX	1430	XECOC-CL	99.5	XHMAT-SI
	XERE-GT	1140	XEMR-NL	1580	XEDM-SO		

Atlanta Falcons 2009 Wes Durham, Dave Archer

<http://www.929dave.fm/pages/1737068.php> (08/27/2009)

540	WDAK-GA	1050	WBRG-VA x	1420	WPEH-GA	98.1	WMGP-GA
550	WDUN-GA	1250	WSRA-GA	1450	WKEU-GA	101.1	WTGA-GA
630	WNEG-GA	1310	WDOD-TN		WMVG-GA	101.9	WJFL-GA
720	WVCC-GA	1320	WENN-AL	1630	WRDW-GA	102.9	WMJE-GA
790	WSFN-GA	1350	WFNS-GA			103.9	WYAB-MS
800	WJAT-GA	1370	WLOP-GA	92.1	WPEH-GA	104.5	WBRG-VA
850	WPTB-GA	1400	WCOH-GA	92.9	WZGC-GA *	104.9	WCCP-SC x
910	WTMZ-SC		WSEG-GA	95.7	WATG-GA	105.5	WIFN-GA
960	WRFC-GA		WCOS-SC	97.5	WUFF-GA		WCCP-SC
970	WVOP-GA	1410	WRJD-NC				

Baltimore Ravens 2009 Gerry Sandusky, Rob Burnette, Stan White

http://www.baltimoreravens.com/Gameday/Media_Coverage/Gameday_Affiliates.aspx (08/31/2009)

910	WSBA-PA	1340	WHAP-VA	92.5	WICO-MD	104.9	WWRT-VA
930	WFMD-MD	1470	WTTR-MD	93.5	WZBH-MD	105.5	WWRE-VA
1050	ZAA-DC a	1490	WARK-MD	97.7	WMDM-MD	106.3	WCEM-MD
1090	WBAL-MD *			97.9	WIYY-MD *	107.1	WCBC-MD
1240	WCEM-MD						

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Buffalo Bills 2009 John Murphy, Mark Kelso <http://www.buffalobillsradio.com/> (09/13/2009)

590	CJCL-ON	1260	WRIE-NY	1570	WFLR-NY r	96.9	WGRF-NY *
920	WKRT-NY	1290	WNBF-NY	1590	WAUB-NY r	100.1	WBRR-NY
1160	WPIE-NY	1330	WSPQ-NY			101.9	WZKZ-NY
1180	WHAM-NY	1380	WABH-NY	92.7	WXUR-NY	103.3	WEDG-NY *
1240	WGVA-NY r	1410	WELM-NY	95.7	WPIG-NY	103.5	WQBK-NY
	WJTN-NY	1420	WACK-NY	96.5	WBKX-NY	103.9	WQBJ-NY
1260	WNSS-NY						

Carolina Panthers 2009 Mick Mixon, Eugene Robinson, Jim Szoke This list is the same as last year; I do not know if it is for this season. DO NOT REPRODUCE.

Chicago Bears 2009 Jeff Joniak, Tom Thayer, Zach Zaidman

<http://www.freefootballradio.com/Chicago.html> (08/11/2009) I am not sure that this is an official list.

670	WSCR-IL *b	1280	WBIG-IL	1450	WFMB-IL	101.3	WVIL-IL
780	WBBM-IL *	1290	WIRL-IL			105.1	WGEM-IL j
1060	WRHL-IL	1440	WROK-IL	98.9	WJEZ-IL	106.3	WGCY-IL
1230	WJBC-IL						

Cincinnati Bengals 2009 Brad Johansen, Dave Lapham

<http://www.bengals.com/multimedia/on-the-air.html> (08/10/2009)

600	WKYH-KY	1010	WIOI-OH	1490	WBEX-OH		
610	WTVN-OH	1150	WIMA-OH		WMOA-OH	96.7	WCSM-OH
630	WLAP-KY	1230	WIRO-OH	1510	WLGN-OH	97.7	WCJO-OH
700	WLW -OH *c	1240	WHIZ-OH	1530	WCKY-OH *	102.7	WEBN-OH *
790	WKRD-KY	1360	WMOV-WV	1540	WBTC-OH 1	104.7	WTUE-OH
800	WVHU-WV	1390	WMPO-OH	1590	WSRW-OH	105.5	WCHO-OH
970	WATH-OH	1420	WTCR-WV	1600	WZZW-WV		WMVR-OH
990	WTIG-OH						

**Cleveland Browns 2009** Jim Donovan, Mike Snyder, Doug Dieken

<http://www.clevelandbrowns.com/gameday/air.php> (08/04/2009)

570	WKBN-OH		WLEC-OH			100.7	WMMS-OH *
970	WFUN-OH	1460	WABQ-OH	92.7	WQEL-OH	100.9	WJAW-OH
980	WONE-OH	1480	WHBC-OH	93.1	WWSR-OH	104.5	WQKT-OH
1100	WTAM-OH *	1490	WMRN-OH	93.3	WNCD-OH	105.7	WBWR-OH
1400	WMAN-OH	1540	WBTC-OH 1	94.3	WKKI-OH	106.3	WBUK-OH
1430	WFOB-OH	1570	WPTW-OH	95.3	WKTN-OH		WCDK-OH
1450	WJER-OH	1590	WAKR-OH				

Dallas Cowboys (EE) 2009 Brad Sham, Babe Laufenburg

<http://www.dallascowboys.com/dcradio.cfm> (08/16/2009) DO NOT REPRODUCE.

Dallas Cowboys (SS) 2009

<http://www.dallascowboys.com/dcradio.cfm> (08/16/2009) DO NOT REPRODUCE.

Denver Broncos 2009 Dave Logan, Dave Diaz-Infante

<http://www.dallascowboys.com/dcradio.cfm> (08/16/2009)

550	KRAI-CO	1230	KBCR-CO	1400	KWUF-CO	92.5	KCRT-CO
	KFYR-ND h		KXLO-MT		KCOW-NE		KLZY-WY
580	KUBC-CO	1240	KDGO-CO		KBJM-SD	93.5	KALQ-CO
590	KCSJ-CO		KASL-WY		KODI-WY	96.1	KSTR-CO
600	KCOL-CO		KRAL-WY	1410	KOOQ-NE	96.5	KDZN-MT
610	KCSR-NE		KTHE-WY		KWYO-WY	96.9	KDAG-NM
790	KGHL-MT	1260	KPOW-WY q	1450	KMMS-MT	99.1	KMTS-CO
850	KOA -CO *	1270	KIML-WY		KBFS-SD	100.1	KMMR-MT
930	KRKY-CO	1290	KOWB-WY		KBBS-WY	102.3	KSPK-CO
950	KMER-WY	1310	KFKA-CO		KVOW-WY	102.5	KKCI-KS
960	KNEB-NE	1340	KVRH-CO	1470	KKTY-WY	103.1	KYDT-WY
990	KSVP-NM		KWOR-WY	1490	KPKE-CO	105.7	KVAY-CO
1010	KSIR-CO		KYCN-WY		KGOS-WY	106.1	KNFO-CO
1030	KTWO-WY	1350	KABQ-NM		KUGR-WY		KOAL-MT
1180	KOFI-MT	1380	KOTA-SD			107.9	KDZA-CO

Detroit Lions 2009 Dan Miller, Jim Brandstatter

http://www.detroitlions.com/section_display.cfm?section_id=25 (as of September 1, 2009) (09/07/2009)

DO NOT REPRODUCE.

Green Bay Packers 2009 Wayne Larrivee, Larry McCarren

http://www.packers.com/multimedia/radio_shows/packers_radio_network/station_listing/ (08/10/2009)

550	KFYR-ND h	1330	WHBL-WI	95.3	WXRO-WI	100.7	WOBE-MI
	WSAU-WI	1360	WTAQ-WI	95.7	WTAQ-WI		WBIZ-WI
570	WMAM-WI	1400	WATW-WI	96.1	WJMC-WI	100.9	WRCO-WI
580	WKTY-WI		WBIZ-WI	97.1	WGLQ-MI	101.1	WIXX-WI
620	WTMJ-WI *	1450	KFIZ-WI		WCOW-WI	101.5	WIBA-WI
710	WDSM-WI	1550	WEVR-WI	97.7	WGLR-WI	102.3	WAUH-WI
940	WFAW-WI				WSRG-WI		WHTL-WI
960	WTCH-WI	92.3	WJMQ-WI	98.3	WCQM-WI	102.9	WBDL-WI
1140	KSOO-SD		WRLS-WI	99.1	WIKB-MI	105.3	WRLO-WI
1150	WHBY-WI	92.7	WDUX-WI	99.3	WKEB-WI	105.7	WAPL-WI
1220	KLBB-MN	93.3	WBSZ-WI	99.7	WIMI-MI		WXCX-WI
1230	WCLO-WI	93.7	WCYE-WI	99.9	WIZD-WI	106.3	WEVR-WI
1240	WOMT-WI	94.3	WQPC-WI		WJVL-WI	107.1	WFON-WI
1310	WIBA-WI	95.1	WLST-WI				

Houston Texans 2009 Marc Vandermeer, Andre Ware

http://www.houstontexans.com/gameday/radio_network.asp (08/10/2009)

This list has cities and frequencies but no call letters. DO NOT REPRODUCE.

Indianapolis Colts Vectren Radio Network 2009 Bob Lamey, Will Wolford

http://www.colts.com/sub.cfm?page=broadcast_dynamic&id=92 (08/04/2009)

740	WVLN-IL	1420	WVJS-KY p	94.3	WIFE-IN	100.9	WPGW-IN
860	WMRI-IN	1440	WPGW-IN		WREB-IN	102.3	WZOW-IN
1070	WFNI-IN	1460	WJCP-IN	94.5	WRZR-IN	103.1	WGBF-IN
1090	WCRA-IL	1480	WRSW-IN	94.9	WYNG-IL	103.3	WAXL-IN
1190	WOWO-IN	1490	WDAN-IL	95.3	WNDI-IN	103.9	WIMC-IN
1230	WSAL-IN		WKBV-IN	95.9	WEFM-IN	104.7	WCRA-IL
	WTCJ-IN	1510	WJOT-IN	96.7	WMXQ-IN	105.5	WWVR-IN
1320	WBRT-KY	1570	WNDA-IN		WORX-IN	105.9	WJOT-IN
1340	WBIW-IN	1600	WTSZ-KY	97.1	WLHK-IN *	106.5	WWBL-IN
	WTRC-IN			97.7	WZOW-IN	106.7	WYFX-IN
	WXFN-IN	92.1	WROI-IN	98.1	WIBN-IN	107.3	WRZQ-IN
1370	WGCL-IN		WZDM-IN	98.7	WASK-IN	107.7	WMRS-IN

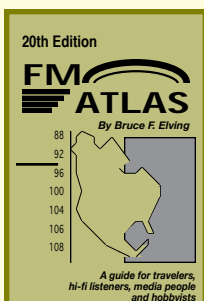
Jacksonville Jaguars 2009 Jeff Lageman, Brian Sexton

<http://www.jaguars.com/Multimedia/radioshows.aspx> (08/10/2009)

690	WOKV-FL *	1240	WFOY-FL			105.5	WIFO-GA
850	WRUF-FL	1380	WELE-FL i	94.3	WNFB-FL	106.1	WUTL-FL
	WCUG-GA	1420	WFOY-FL	103.3	WWSN-GA	106.5	WOKV-FL *
1060	WIXC-FL w	1450	WVLD-GA	105.3	WSTI-GA	107.7	WBGA-GA
1080	WHOO-FL	1590	WPSL-FL i				

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Kansas City Chiefs 2009 Mitch Holthus, Len Dawson

<http://www.kcchiefsradio.com/AffiliateTeam/tabid/551/Default.aspx> (08/10/2009)

590	KXSP-NE	1350	KMAN-KS		99.9	KSKG-KS	
680	KFEQ-MO	1370	KIOL-KS	92.3	KSDL-MO	100.1	KBBM-MO
690	KGGF-KS	1400	KGMV-MO v	92.7	KSJQ-MO	100.3	KDVV-KS
790	KXXX-KS		KWON-OK	93.5	KLKC-KS		KQLS-KS
860	KKOW-KS	1420	KJCK-KS	94.5	KRXL-MO	100.9	KCLY-KS
870	KAAN-MO		KBTN-MO	95.1	KAMS-AR	101.1	KCFX-MO *
990	KRMO-MO		KRLL-MO	95.3	KDKD-MO	101.7	KVOE-KS
1130	KLEY-KS	1450	WBW -KS	95.5	KAAN-MO	102.9	KMMO-MO
1150	KWKY-IA		KYNT-SD	96.7	KBBE-KS	103.9	KOMB-KS
	KRMS-MO v	1540	KLKC-KS	96.9	KFIX-KS	104.3	KVGB-KS
1220	KJAN-IA		KNGL-KS	97.3	KKJQ-KS	105.5	KKOY-KS
1230	KTNC-NE	1550	KKLE-KS		KXUS-MO	105.9	KULH-MO
1240	KFOR-NE	1600	KMDO-KS	99.3	KMA -IA	107.3	KTHR-KS
1300	KMMO-MO						

Miami Dolphins 2009 Jimmy Cefalo, Jim Mandich, Joe Rose

<http://www.miamidolphins.com/newsite/dolfanzone/radionetwork.asp> (08/27/2009)

560	WQAM-FL *		WIXC-FL w	93.5	WBGF-FL	104.9	WYGC-FL
760	WEFL-FL	1300	WFFG-FL	96.1	WRXK-FL	105.9	WOCL-FL
790	WPNN-FL	1600	WKWF-FL	101.7	WCZR-FL	106.1	WLVO-FL
1060	WIXC-FL			102.7	WPHK-FL		

Minnesota Vikings 2009 Pete Berich, Greg Coleman

http://prod.static.vikings.clubs.nfl.com/assets/docs/09_Vikings_Radio_Network_6_24_09.pdf (08/04/2009) This is a PDF file from which I had to extract manually the network list. See footnote "e".

620	KMNS-IA	1260	KROX-MN	1560	KDAK-ND	100.7	KIKV-MN
650	WMNT-MN	1270	KWEB-MN	1570	KAKK-MN e		KMLO-SD
660	KEYZ-ND		KYSM-MN			100.9	WCMP-MN
710	KXMR-ND e		KDDR-ND	93.1	KXLP-MN	101.1	KBHP-MN
790	KFGO-ND	1300	KGLO-IA	93.3	KBLB-MN		WHSM-WI
870	KPRM-MN	1340	KDLM-MN	93.5	KSCR-MN	101.7	KRCH-MN
880	WMEQ-WI		KWLM-MN	94.3	KKIN-MN	101.9	KQKK-MN
930	KSDN-SD	1380	KWNO-MN	94.5	WELY-MN	102.1	KCAJ-MN
950	KWAT-SD	1390	KRRZ-ND		KPLO-SD	102.9	KBWS-SD
1070	KVKK-MN	1400	KQDJ-ND	94.7	KSKK-MN	104.1	KROT-MN
1130	KFAN-MN *	1440	KKXL-ND	94.9	KQDS-MN		KSDM-MN
1170	KOWZ-MN	1450	KBUN-MN	95.7	KKOK-MN	104.9	WLMX-WI
1230	KTRF-MN		WELY-MN	96.9	KMFY-MN	105.1	KARL-MN
	KWSN-SD	1460	KXNO-IA	97.5	KDKK-MN	105.7	KRAQ-MN
1240	KICD-IA		KLTC-ND	98.1	KBEW-MN	105.9	KHRS-MN
	WJON-MN	1490	KQDS-MN	98.3	KQYB-MN	106.9	KARP-MN
	KDLR-ND		KOVC-ND	99.1	WKFX-WI	107.3	KNUJ-MN
1250	KBRF-MN	1510	KMSD-SD	100.3	KTLK-MN *		

New England Patriots 2009 Gil Santos, Gino Cappelletti

<http://wbcn.com/pages/58654.php> (08/04/2009)

790	WSKO-RI	1420	WBEC-MA	95.3	WPVQ-MA	102.1	WAQY-MA
860	WSBS-MA		WBSM-MA	95.7	WWMJ-ME		WSAK-ME
900	WGAM-ME	1450	WSNO-VT	96.7	WXZO-VT	102.3	WXLM-CT
960	WEAV-NY	1480	WSAR-MA	98.5	WEBB-ME	102.9	WBLM-ME
1230	WNAW-MA	1490	WIKE-VT	99.7	WSKO-RI	103.7	WPKQ-ME
1250	WKBR-ME			100.1	WWFX-MA	104.1	WBCN-MA *
1340	WGAW-MA	92.7	WKVT-VT	101.5	WWHQ-ME	105.3	WSHK-ME
	WSTJ-VT	93.9	WMXR-VT		WEXP-VT	106.9	WCCC-CT
1350	WINY-CT	95.1	WXTK-MA	101.7	WVRR-ME	107.7	WTPL-ME
1370	WBTN-VT						

Expiring? Time to renew? Not sure when? Need to call or e-mail someone or join e-DXN or DXAS? Check the back page - it's all there!

New Orleans Saints 2009 Jim Henderson, Hokie Gajan

<http://www.neworleanssaints.com/News/Saints%20Radio.aspx> (08/10/2009)

540	KNOE-LA	1290	KJEF-LA	93.4	KJAE-LA	103.3	WZKR-MS
640	KTIB-LA	1370	WCOA-FL	94.3	KRLQ-LA	104.3	KEZP-LA
680	WJDX-MS	1420	WQBC-MS	95.3	KQKI-LA	104.6	WCJU-MS
830	WFNO-LA *S	1450	WJIX-MS		WRKG-MS	105.1	KTYK-LA
870	WWL -LA *	1520	KVPI-LA	96.5	WXHB-MS	105.3	WWL -LA *
920	WBOX-LA			97.3	KMDL-LA	105.5	WNSP-AL
1130	KWKH-LA	92.1	KLIL-LA		WNJJ-MS	107.1	WKNZ-MS
1240	KANE-LA	92.2	WBOX-LA	98.3	WJDR-MS	107.3	WYPY-LA
1250	WHNY-MS	92.5	KVPI-LA	101.3	KKGB-LA	107.5	KCIL-LA
1260	WGVM-MS	93.1	WYAB-MS				

New York Giants 2009 Bob Papa, Carl Banks

<http://www.giants.com/multimedia/broadcastinfo.asp> (08/16/2009) DO NOT REPRODUCE.

New York Jets 2009 Bob Wischusen, Marty Lyons (no network)

<http://www.freefootballradio.com/NYjets.html> (08/11/2009) This web site only lists stations with Internet streaming: http://radiotime.com/affiliate/a_37476/station/New_York_Jets_Radio_Stations.aspx (09/12/2009). I am not sure that this is an official list.

770	WABC-NY *f	94.3	WKXP-NY	103.9	WRCN-NY f	1050	WEPN-NY *
800	WLAD-CT	980	WOFX-NY				

Oakland Raiders 2009 Greg Papa, Tom Flores

<http://www.raiders.com/Multimedia/Default.aspx?id=180> (08/16/2009) DO NOT REPRODUCE.

Philadelphia Eagles 2009 Merrill Reese, Mike Quick

<http://www.philadelphiaeagles.com/gameday/RadioInformation.html> (09/09/2009) I am not sure that this is the 2009 list.

610	WIP -PA *	1360	WPPA-PA	93.3	WBZD-PA	103.7	WMGM-NJ
830	WEEU-PA	1490	WBCB-PA	96.1	WCTO-PA	105.7	WQXA-PA
1150	WDEL-DE			97.9	WBSX-PA	107.3	WEGH-PA

Pittsburgh Steelers 2009 Bill Hillgrove, Tunch Ilkin

<http://news.steelers.com/gameday/broadcasts/> (08/11/2009)

540	WFRB-MD	1330	WFIN-OH			101.3	WBRB-WV
590	WMBS-PA	1340	WYCK-PA	92.5	WQMU-PA	102.1	WOWQ-PA
630	WJAW-WV	1400	WICK-PA	92.7	WCCR-PA	102.5	WDVE-PA *
680	WISR-PA	1410	WHAG-MD	93.3	WCXR-PA	103.7	WZXR-PA
800	WCHA-PA	1430	WVAM-PA	93.5	WTPA-PA	103.9	WTDA-OH
850	WNTJ-PA	1440	WJET-PA	94.3	WUZZ-PA		WLSW-PA
920	WMMN-WV	1450	WTBO-MD		WRLF-WV	104.1	WPXZ-PA
970	WBGG-PA *		WJPA-PA	94.7	WELK-WV	104.3	WKNB-PA
1170	WWVA-WV		WMAJ-PA	95.1	WWGY-PA	104.9	WRKY-PA
1230	WBVP-PA	1460	WMBA-PA	98.7	WQWK-PA	105.5	WCHX-PA
1280	WFBS-PA	1480	WCNS-PA	99.1	WRKW-PA	106.1	WBBG-OH
1290	WDNE-WV	1490	WESB-PA	990	WNTW-PA	107.7	WUUZ-PA
1320	WGET-PA	1590	WPSN-PA	100.9	WAYC-PA		

Saint Louis Rams 2009 Steve Savard, D'marco Farr

http://radiotime.com/affiliate/a_37483/station/St_Louis_Rams_Radio_Stations.aspx (09/13/2009)

I am not sure that this is an official list.

550	KTRS-MO	990	WCAZ-IL	1480	WJBM-IL	100.1	WKAI-IL
560	KWTO-MO k	1150	KRMS-MO v	1550	KAPE-MO	100.5	KKCA-MO
800	KREI-MO	1220	KGIR-MO	1580	KTGR-MO	101.1	WXOS-IL *
900	KFAL-MO	1230	KADA-OK			102.3	KDEX-MO
930	WTAD-IL	1260	KPOW-WY q	95.9	KKBL-MO	104.5	KSLQ-MO
	KWOC-MO	1360	KBKB-IA	96.7	WCVS-IL	105.1	WGEM-IL j
940	WMIX-IL	1400	KGMY-MO v	96.9	KUPH-MO	105.3	KZNN-MO
950	KWOS-MO		KSIM-MO	97.5	WBBA-IL	106.7	WZZL-KY
970	WMAY-IL		KREF-OK				

Two URL's you need: <http://e-dxn.com>; <http://www.nrcdxas.org>

San Diego Chargers 2009 Josh Lewin, Hank Bauer

<http://www.chargers.com/media-vault/broadcasting-tv-and-radio/radio-network.html> (08/10/2009)

570	KLAC-CA	1230	KGEO-CA	1360	KWDJ-CA	101.3	KATY-CA
970	KNWZ-CA		KXO-CA	1380	KOSS-CA	105.3	KIOZ-CA *
1100	KWWN-NV	1250	KNWH-CA	1510	KSPA-CA	107.3	XHFG-BC
1140	KNWQ-CA	1330	KWKW-CA				

San Francisco 49ers 2009 (EE) Ted Robinson, Gary Plummer, Rod Brooks

<http://www.49ers.com/media-gallery/on-the-radio.html> (08/04/2009) DO NOT REPRODUCE.

San Francisco 49ers 2009 (SS) -Fernando Arias, Ambrosio Rico

<http://www.49ers.com/media-gallery/on-the-radio.html> (08/04/2009) DO NOT REPRODUCE.

Seattle Seahawks 2009 -Steve Raible, Warren Moon

The 2008 network list is still online and is reproduced here.

560	KPQ-WA	1120	KPNW-OR	1400	KEDO-WA	1580	KGAL-OR
580	KRSA-AK	1170	KPUG-WA	1420	KUJ-WA		
610	KONA-WA	1230	KRXK-ID	1430	KCLK-ID	92.7	KNCW-WA
710	KIRO-WA *		KCUP-OR		KBRC-WA	94.9	KRSA-AK
750	KXL-OR	1240	KSAM-MT	1440	KODL-OR	95.5	KXTG-OR
800	KINY-AK		KTIX-OR	1450	KLAM-AK	96.5	KWLZ-OR
840	KMAX-WA		KCVL-WA		KGRZ-MT	97.3	KSHR-OR
920	KXLY-WA		KGY-WA		KONP-WA	98.5	KEYG-WA
930	KSEI-ID		KXLE-WA	1470	KBSN-WA	100.5	KBFX-AK
1030	KMAS-WA	1280	KIT-WA	1490	KBIS-WA	102.3	KCRX-OR
1040	CKST-BC h	1310	KZXR-WA		KWOK-WA	104.3	KMNT-WA
1080	KVNI-ID						

Tampa Bay Buccaneers 2009 Dave Moore, Gary Deckerhoff

http://radiotime.com/affiliate/a_37484/station/Tampa_Bay_Buccaneers_Radio_Stations.aspx (09/12/2009) I am not sure that this is an official list.

620	WDAE-FL *	1270	WNLS-FL	1590	WPSL-FL i	99.5	WBXY-FL
900	WMOP-FL	1380	WELE-FL i				WQYK-FL
910	WOLI-SC	1430	WLKF-FL	95.1	WBVD-FL	101.1	WYOO-FL
930	WFXJ-FL	1450	WWJB-FL	95.3	WXCV-FL	103.5	WFUS-FL *
1010	WQYK-FL	1580	WCCF-FL				

Tennessee Titans 2009 Mike Keith, Frank Wycheck, Larry Stone

<http://titansradio.com/sectional.asp?id=28041> KY (08/04/2009)

<http://titansradio.com/sectional.asp?id=28042> AL (08/04/2009)

<http://titansradio.com/sectional.asp?id=28043> AR/MS (08/04/2009)

<http://titansradio.com/sectional.asp?id=27770> TN (08/04/2009)

570	WKYX-KY	1280	WMCP-TN	92.7	WAFN-AL		WZDQ-TN
640	WXSM-TN	1320	WNGO-KY	93.7	WBXE-TN	103.3	WKDF-TN *
730	WUMP-AL		WMSR-TN	94.5	WJOX-AL	103.7	WFGS-KY
770	WVNN-AL	1340	WCDT-TN	95.7	WCCK-KY		WPTQ-KY
790	WQSV-TN	1370	WDXE-TN	95.9	WRJB-TN	104.1	WUCZ-TN
860	WSON-KY	1400	WIEL-KY	96.7	WNKX-TN	104.7	WMUF-TN
870	WMTL-KY		WJZM-TN	97.1	WXCM-KY	104.9	WAVJ-KY
950	WAKM-TN		WMUF-TN	97.3	WKJQ-TN		WKHG-KY
1050	WWIC-AL		WZNG-TN	97.7	WWKY-KY		WTNQ-TN
1060	WQMV-TN	1420	WVJS-KY p	98.1	WXMN-TN	105.3	WOWC-TN
1150	WCRK-TN	1430	WXAM-KY	98.3	WKSR-TN	105.5	KWAK-AR
	WGOW-TN	1440	WHDM-TN	98.9	WANT-TN		WYTM-TN
1220	WAXO-TN u	1450	WTCO-KY	99.3	WPBX-TN	105.7	WQAK-TN
	WFWL-TN		WWKU-KY	100.1	WASL-TN	106.5	WKDZ-KY
1240	WPBQ-MS	1490	WCOR-TN	100.3	WNOX-TN	106.7	WDXE-TN
1260	WDKN-TN	1560	WPAD-KY	101.3	WCMT-TN	107.3	WQLT-AL
1270	WQKR-TN			102.3	WGOW-TN		

NEWS RADIO
1580 abc **WCCF**

College Sports Networks

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Smyrna, DE 19977-1203

Network listings for college sports stations

For the upcoming DX season and these college sports network lists, I wanted to do a little something different. Last year, I organized these lists by conference. This year, I want to do it alphabetically. This may allow me to list some schools that I might not be able to list otherwise.

This time, we have the schools starting with "A", regardless of division (we have the FCS, FBS, Division II and III schools all mixed in).

Adams State Grizzlies, Alamosa CO, Rocky Mountain Athletic Conference
102.3 KSPK-CO

Air Force Academy Falcons, Colorado Springs CO, Mountain West Conference
740 KVOR-CO

Akron Zips, Akron OH, Mid-America Conference
1350 WARF-OH
106.9 WRQK-OH



Alabama Crimson Tide, Tuscaloosa AL, Southeast Conference

570	WAAX-AL	1300	WKXM-AL	93.3	WHRP-AL	99.3	WMFC-AL
690	WSPZ-AL	1320	WAGF-AL	93.9	WQSI-AL	99.5	WZRR-AL
730	WUMP-AL	1340	WFEB-AL	93.9	WYTK-AL	100.1	WDXX-AL
740	WJIG-TN	1360	WIXI-AL	94.1	WZBQ-AL	100.3	WKGA-AL
780	WZZX-AL	1360	WMFC-AL	95.1	WBPC-FL	100.9	WCJM-GA
860	WAMI-AL	1400	WWTM-AL	95.1	WXFX-AL	101.3	WAGF-AL
920	WGOL-AL	1420	WACT-AL	95.3	WADI-MS	102.3	WAMI-AL
950	WHSY-MS	1430	WFHK-AL	95.5	WFMH-AL	105.5	WFCT-FL
980	WKLF-AL	1460	WFMH-AL	95.5	WHMA-AL	105.9	WKXM-AL
990	WLDX-AL	1490	WHBB-AL	97.7	WHPH-AL	105.5	WNSP-AL
1010	WMOX-AL	1530	WASC-SC	97.7	WKLD-AL	105.9	WRHY-AL
1130	WACQ-AL	1570	WCRL-AL	97.9	WRVX-AL	106.1	WBMH-AL
1230	WJBB-AL			98.1	WTKE-FL	106.3	WKNU-AL
1230	WRJX-AL	92.1	WZEW-AL	98.3	WKEA-AL	107.7	WFXX-AL
1240	WULA-AL	92.7	WAFN-AL	98.5	WINL-AL	107.7	WPRN-AL
1270	WSHE-GA	92.7	WJBB-AL				

State University of New York at Albany Great Danes, Albany NY, Northeast Conference
980 WOFX-NY
90.9 WCDB-NY

Appalachian State University Mountaineers, Boone NC, Southern Conference

620	WDNC-NC	1050	WLON-NC	1350	WZGM-NC		
790	WBLO-NC	1150	WAVO-NC	1450	WATA-NC	97.3	WKBC-NC
850	WRBZ-NC	1160	WODY-VA	1450	WHKP-NC	98.3	WIST-NC
870	WPWT-TN	1270	WCGC-NC	1470	WTOE-NC	101.1	WZTK-NC
920	WPCM-NC	1300	WLNC-NC				

Arizona Wildcats, Tucson AZ, Pac-10
1290 KCUB-AZ

Arizona State Sun Devils, Tempe AZ, Pac-10

780	KAZM-AZ	1400	KRVZ-AZ			92.5	KTHQ-AZ
980	KNTR-AZ	1490	KYCA-AZ	92.1	KZUA-AZ	96.5	KDAP-AZ
1230	KATO-AZ	1650	KBXZ-AZ	92.3	KTAR-AZ	106.1	KIKO-AZ
1340	KIKO-AZ						

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Arkansas Razorbacks, Fayetteville AR, Southeast Conference

670	KWXI-AR	1480	KTHS-AR	96.3	KTTG-AR	103.1	KHGG-AR
710	KEEL-LA	1540	KDYN-AR	96.7	KDYN-AR	103.3	KWOZ-AR
800	KAGH-AR			98.9	KWXI-AR	103.7	KABZ-AR
900	KHOZ-AR	92.1	KDQN-AR	99.1	KSMD-AR	104.5	KTRN-AR
970	KCFO-OK	92.1	KQSM-AR	99.5	KHMB-AR	104.9	KAGH-AR
970	KNEA-AR	92.3	KSAR-AR	99.9	KGPQ-AR	104.9	KHPA-AR
980	KCAB-AR	92.5	KWYN-AR	100.5	KEGI-AR	105.3	KUOA-AR
1240	KVRC-AR	93.5	KBFC-AR	100.5	KZHE-AR	105.5	KWAK-AR
1260	KCCB-AR	93.5	KBKG-AR	101.7	KCTT-AR	105.9	KLAZ-AR
1290	KUOA-AR	94.1	KRLQ-LA	101.7	KVOM-AR	106.5	KKIK-AR
1360	KFFA-AR	95.3	KCXY-AR	102.3	KCJC-AR	107.5	KOMT-AR
1370	KAWW-AR	96.1	KMRX-AR	102.9	KHOZ-AR	107.9	KEZA-AR
1400	KWYN-AR	96.3	KHLS-AR	103.1	KFFA-AR		

Arkansas State Red Wolves, Jonesboro AR, Sun Belt Conference

2007-2008 list	1400	KWYN-AR	95.9	KWHF-AR	105.5	KWAK-AR
690	KEWI-AR*		102.3	KQEW-AR	106.3	KRLW-AR
1240	KTLO-AR	88.3	KABF-AR	104.7	KOOU-AR	*selected games
1320	KRLW-AR	92.1	KHPQ-AR			

Army Black Knights, West Point NY, Independent,

770	WABC-NY	920	WGHQ-NY	1260	WBNR-NY	1420	WLNA-NY
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Auburn Tigers, Auburn AL, Southeast Conference

630	WJDB-AL	1350	WFNS-GA	92.1	WKUL-AL	100.3	WRKN-FL
680	WCNN-GA	1350	WGAD-AL	92.3	WLWI-AL	100.5	WJOX-AL
740	WMSP-AL	1380	WVSA-AL	92.7	WJBB-AL	101.9	WBGE-GA
790	WSFN-GA	1400	WJWF-MS	92.7	WTDR-AL	102.3	WELR-AL
950	WBHK-MS	1410	WLAQ-GA	94.3	WQZX-AL	102.9	WVRK-GA
970	WTBF-AL	1430	WLTG-FL	95.5	WJDB-AL	103.7	WAAO-AL
990	WEIS-AL	1470	WPGG-AL	95.9	WTWX-AL	103.9	WJRL-AL
1060	WKNG-GA	1490	WHBB-AL	97.5	WKGA-AL	105.1	WPFL-FL
1220	WABF-AL	1530	WASC-SC	97.7	WKKR-AL	105.5	WNSP-AL
1230	WBHP-AL	1570	WCRL-AL	97.7	WKLD-AL	105.7	WCSN-AL
1250	WHNY-MS			98.3	WALW-AL	106.1	WTAK-AL
1250	WZOB-AL	88.5	WJBE-AL	98.7	WESZ-AL	106.3	WBTG-AL
1310	WHEP-AL	90.5	WCOQ-GA	99.1	WDGM-AL	106.5	WJEC-AL
1330	WZCT-AL			100.1	WDXX-AL		

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Although AMSwitch, DDXD, and IDXD are not indexed, we acknowledge their editors' considerable contributions to DXN. Titles are generic; errors and any omissions are regretted. You, too, could be compiling this next year; apply within if interested.

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DX Tool Box

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 Winnipeg MB R2N 2X9 Canada

Shared tips and information from NRC members, both new and old

Welcome to the DX Tool Box Column number 8.

Greetings once again from the Heart of the Continent.

Many listeners find that due to their location they are limited to what kind of antenna they can put up. This does not have to limit your listening if you are willing to experiment a bit. Other ideas (not counting loop antennas) that you can easily put together with no technical knowledge or a ton of tools can include:

1-You can try dropping a wire out your apartment or condo window. You can tie a fishing weight to the lead edge so the wire will stay fairly straight. Feed the antenna to the radio via wire or with coax by using the center of the coax only and not the braid.

2-You can use a metal slinky. Yes the famous toy makes a great portable antenna by dropping it out a window or stretching it across an open space. Changing the length can help with different frequencies. In fact there is a company selling them as antennas. They can be reached on line at <http://slinkyantennas.com/>

3-Metal window frames have also come into use. Make sure you have a good contact to the metal and strip away any coating or paint at the point where you attach the wire lead in to the radio.

4-Drain pipes and eaves troughs or gutters also work well. Attach the lead in wire from your radio to the down spout by making sure you have a good metal to metal contact. You can scrape off paint to insure a good contact. This antenna can work nicely except in the rain when they are basically useless. Also the down spouts and eaves must be metal. The new plastic pipes are of no use.

5-You can use a door by taping aluminum foil to the door. Run a foil strip around the face of the door and run wire from a bottom corner of the foil to the radio. This rectangle antenna can be useful. Believe it or not some DX'ers have found that by swinging the door it can effect reception...or so they claim.

6-This foil antenna can also be done on a wall. I had a large diamond shaped aluminum antenna on my wall in an apartment that worked not too badly. An alligator clip at the bottom was used as a feed point to the lead in wire going to the radio radio.

7-You can also use the wire tape used in some security systems on a window to form a square on a large picture window. Run the lead wire from the radio to the security tape foil making sure you get a good metal to wire contact.

8-Attics can be useful as can ceilings in rec rooms in basements. You can run wire around the perimeter of the attic or ceiling. The wire does not have to be straight. In fact in an attic you can run the wire in a zigzag pattern back and forth in an attic giving you much more wire than you would if you just ran a straight line loop around the perimeter.

9-To get the signal under the window, of a condo or apartment you can try to use a strip of Ribbon Cable, first wrapped in typing paper, then wrapped in one layer of Aluminum Foil, then one layer of plastic (all for Insulation / Waterproofing). This is then wrapped up in one layer of duct tape. The Aluminum foil / silver duct tape may act to help at blocking out all the RF that's around. Hook everything up, cover with your favorite RF resistant material (Duct Tape). Open the window put the ribbon cable coax in, close the window & lock it.

10- If you want to put antenna outside and have no easy way to run the lead in wire try using your dryer vent. You can run the coax or other insulated wire between the wall and the dryer vent or through the vent to get into the house without drilling a hole.

You can try your own thing or let us know what you have found that works.

Great White North Special Antenna

This space saving antenna is sort of a vertical antenna that can be mounted or put any place you can make it fit. It can be used for all manner of DX'ing as well and BCB DX'ing. It may take a bit of experimenting but no technical knowledge or special tools are needed.

You will need the following material:

1) A broken hockey stick (a broom handle will do if you live south of the 45th parallel)

Yes a PVC pipe will work too

2) Coated or insulated wire (bare wire will NOT do) 20-22 gauge copper or metal stranded or solid it does not matter. About 100 feet or so should be good.

- 3) Coax feed line to reach your receiver.
- 4) Nails or heavy staples or tacks etc to secure wire.
- 5) One alligator type clip.

Starting at the bottom of the hockey stick (we have lots of broken ones up here so that is easy and cheap to use) secure a feeder of about 12 inches to the bottom of the stick with nails staples or whatever you have. This will keep things in place. And give you a flexible feed point. Now wind your wire tightly around the stick. Keep the windings up against each other to insure you get lots on the stick. When you are about 18 inches from the top stop winding and nail/ tape the wire in place. You have finished the winding of a coil for the antenna. Now run the rest of the wire straight up to the top. Secure the wire at the top with the nails or heavy staples or what ever you have. This will form a short vertical.

You can if you so choose coat the wires with a varnish to keep them in place and stop them unwinding. This will be helpful but not necessary. You can also wind tape around the winding coil, if you choose. If you wish you can now pinch a winding and pull it out a bit to stand away from the stick about every 6 to 8 inches. Gently strip off the coating/insulation so the wire is showing. This will form taps on the coil you have wound on the stick.

The next step is to build a feed line to your radio. Attach an alligator to the centre feed of a length of coax cable. Be very careful to keep the grounding braid away from the centre wire. In fact you can tape the braid back so it does not come into contact

With the centre wire feed the other end of the coax to your receiver with what ever connector it uses. You can use the alligator clip at the opposite end of the feedline to grab on to the end feed of the antenna or to any tap you created.

Experimenting will show you which tap is best for which frequency and band conditions. This antenna can be fed to an antenna tuner which in some cases will be of help.

Tuners with amplifiers can be used but in some situations could cause an overload of signals so tune carefully and use the amp as little as needed.

The antenna can then be placed on the balcony or pointed out a window. If you put it out at about a 45 degree angle it could help so experiment with placement. Keep it near a window to work best.

To build an indoor version you can buy a piece of plastic pipe 6 to 8 feet long and wind wire on it. The pipe should be one and a half to two inches in diameter. You can stand this up in a corner of the room and hide it behind the drapes near the window if you wish. The closer to a window the better in most apartments. This will need more wire but try 100 to 200 feet. Well there you go the Great White North Special Antenna is ready to go and you can start DX'ing with it.

Bits and Bites from the NRC listserv:

A mix of things this month from the listserv. One goes to show you that you never know what you might hear unless you try. One of my pests is his DX!

Subject: Photo-enhanced 7-26 Grayland DX'pedition Article

Hello All, For those interested in the performance of large tuned passive loops, or the DXpedition-related modifications of Ultralight radios, a photo-enhanced version of the July 26th Grayland, WA DXpedition report has been uploaded to dxer.ca (ULR Feature Article section), and the Ultralightdx Yahoo site (Member DXpedition Result file section) [Note: the full article, with photos, follows this column -pls.]. With photos of the new 8' (diagonal) collapsible frame tuned passive loop, the all-PVC altazimuth tilting base, the 30" loopstick ICF-2010 spotting receiver, the C.Crane SWP 7.5" Slider model and several other hot-rodded Ultralight radios, this article details the thrilling performance of the tuned 8' loop in receiving multiple South Pacific stations from Australia, New Zealand, Tonga, Fiji and Tahiti during a one-night DXpedition on July 26th. MP3 recordings of booming signals from 1116-4BC (Brisbane, Australia), 891-5AN (Adelaide, Australia) and KPUA-670 (Hilo, Hawaii) as received on this 8' tuned loop have also been uploaded to the audio file sections of dxer.ca, and the Ultralightdx Yahoo site. It is certainly true (as Mark Connelly says) that a highly sensitive tuned loop with a figure 8 reception pattern would not be the first choice at DXpedition sites in the northeast, with heavy domestic QRM from the back side. In the relatively isolated environment of Grayland, however, this type of large tuned loop can provide some serious DX'ing fun, at a very low cost. Full details will be provided in the upcoming PVC Loop article to be published this month, with details on constructing any size of these lightweight, waterproof tuned passive loops from 18" (side dimension) all the way up to a fanatical 9 foot model. 73, Gary DeBock (in Puyallup, WA)

From: Pete Kemp radioguy@tampabay.rr.com Subject: FCC to Twitter FCC Launches Blog, Starts Twitter Account New FCC Chairman Julius Genachowski has repeatedly stated that the expansion of broadband internet access is at the top of his to-do list. On Tuesday, in support of this effort, the FCC did what millions of Americans do on the internet everyday: they blogged and tweeted. In the maiden <http://blog.broadband.gov/?p=33> post on the FCC's new <http://blog.broadband.gov/> blog (dubbed

Blogband), Genachowski stated, “The feedback, ideas, and discussions generated on this blog will be critical in developing the best possible National Broadband Plan.” He went on to write that the FCC blog demonstrates that “the Internet is changing and expanding the way Americans communicate, providing them with unparalleled access to information.” In conjunction with Blogland, the FCC is now operating a Twitter account: [@fccdotgov](http://twitter.com/fccdotgov). By the end of the day on Tuesday, the stream had 870 followers. It appears that the commission will use @fccdotgov to promote new initiatives and stoke public conversation. It doesn’t appear, though, as of this writing, that the FCC plans on actively communicating via Twitter—they have not yet followed anyone.

From: Russ Edmunds wb2bjh@yahoo.com Subject: [NRC-AM] Fwd: Are Sunspots Disappearing? Russ Edmunds Blue Bell, PA (360’ ASL) [15 mi NNW of Philadelphia] From: NASA Science News snglist@snglist.msfc.nasa.gov Subject: Are Sunspots Disappearing? To: NASA Science News snglist@snglist.msfc.nasa.gov NASA Science News for September 3, 2009. The sun is in the pits of the deepest solar minimum in nearly a century. Weeks and sometimes whole months go by without even a single tiny sunspot. Are sunspots disappearing? Experts discuss the question in today’s story from [Science@NASA](http://science.nasa.gov). FULL STORY at http://science.nasa.gov/headlines/y2009/03sep_sunspots.htm?list838608 Check out our RSS feed at <http://science.nasa.gov/rss.xml>

From: “Robert S.Ross VA3SW” <va3sw@rogers.com> Subject: [NRC-AM] A Surprise @ Sunrise..... NEW STATION...950 CFAM Altona, MANITOBA!! Hi Guys: Got up today just in time to catch the last few minutes of Darkness before sunrise and Bagged a New Stationwasn’t expecting to hear this one...sorta caught me by surprise!! Was expecting to hear the usual WWJ Detroit here...but this was OVER Detroit!! It’s NEW to both the OVERALL LOG and the ULR LOG. Radio Used SONY SRF-T615 ULR Antenna Used 2 1/2 Foot Tunable Box Loop. ULR LOG TOTALS are now 683 Stations Heard. 73 ROB Robert S. Ross VA3SW London, Ontario CANADA

950 CFAM Altona, MANITOBA Sept/07/09 0635 EDT EE GOOD Classical Piano Music 0635-38 EDT. Male DJ spoke and Listed Classical Selections played. Ad for “Huron or Heron??? Lumber” @ 0638. ID given by Female as And now more Classics brought to you by Huron Lumber on CFAM Radio 9-50”. Into more Classical Piano Music. Still on top of the Frequency @ 0645 EDT!!

This month’s DX Tool Box web site is:

This time around we are looking at a European based DX site. Ydun’s Medium Wave Info site has a lot to offer in a simple format. The site is run by long time DX’er Ydun Ritz. She has put together an informative site that should be of special interest to Trans Atlantic DX’ers in particular. Included on the site is News about stations in Europe Africa and North America as well as a loggings column photos links and propagation info. Have a look and see if she and her reporters can be of help in your DX’ing. The site is located at:

<http://mediumwave.info/news.html>

73 for this time - Shawn. Remember on a Clear Day You Can Hear Forever

The PVC Loop—Low Cost Ticket to High DX Gain!

By Gary DeBock

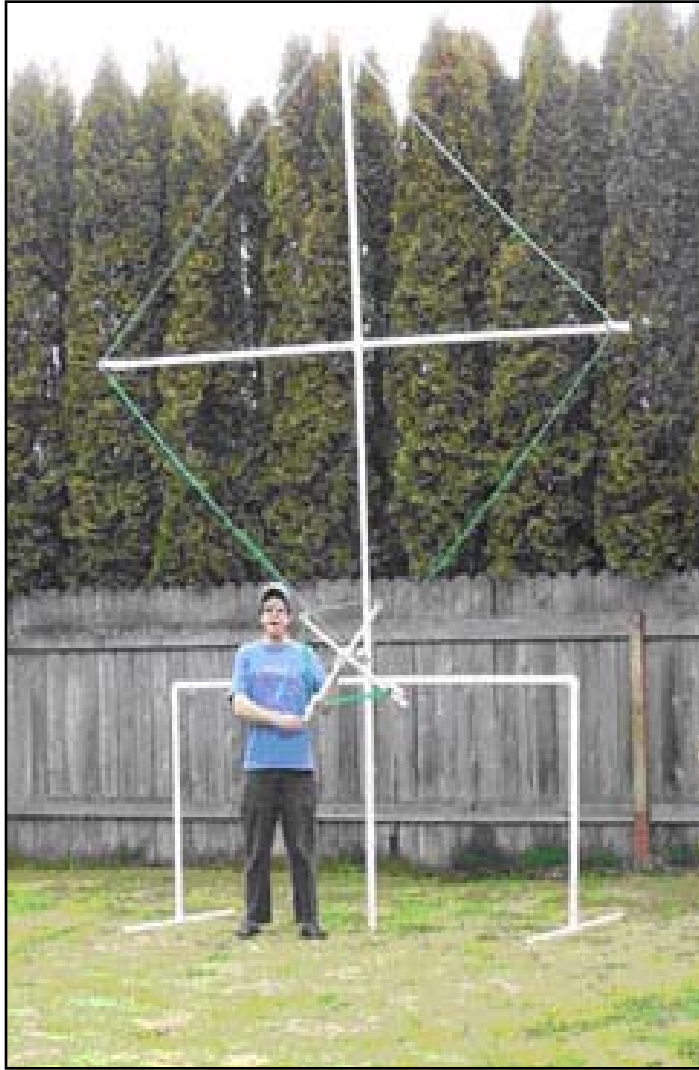
The DX will flow when your use this common water pipe material to construct a dream antenna, from 18 inches to 9 feet on each side. Don’t be afraid to dream big. It’s lightweight, rugged, waterproof, completely symmetrical—and dirt cheap!

Introduction What began here as a casual project to construct a couple of small tuned passive loops was suddenly transformed into a fascinating experience in designing and building a series of monster antennas—all because of the accidental discovery of the perfect frame material. Symmetry, weight and cost suddenly all became manageable for every conceivable loop size, despite the unrealistic expectations of the author. Not only was the frame material ideal, but it was available in extremely strong fittings with multiple angles, assuring complete flexibility in designing both the antenna frames, and support structures. Truly a DXer’s dream!

The Benefits Tuned passive loops have been with us for decades, and many fine designs have been published in the IRCA and NRC technical guides. Popular with hobbyists because of the significant DX signal boost provided by a simple loop and tuning capacitor, tuned passive loops are available in either ferrite or air core form, and many small commercial designs are available. For Ultralight radios, the degree of the DX signal boost provided by passive loops is related to the quality and size of a portable’s loopstick, with the greatest benefit given to the radios with the smallest loopsticks. In addition, DXers using communication receivers who are unable to erect external antennas often choose

the 3' or 4' tuned passive loop as their best option, due to the attractive combination of significant gain and excellent nulling capability.

A Few New Design Ideas Most of the traditional passive air core loop designs seem to have a support frame in the center of the loop coil, or even have the entire loop wound around a form. Based on transcontinental QRP contact experience, however, I was eager to follow the amateur radio goal of having an antenna "high and in the clear," which in the case of a tuned passive loop would mean



that the loop would have minimal contact with any support frame, and approach the situation of being isolated in space. Also, the tuning capacitor should be connected exactly at the electrical ends of the symmetrical loop (without going off on any tangents), and be both of minimal size and of a vernier design, for tuning ease. These were challenging objectives, but I was convinced that they were necessary for the best sensitivity, cleanest electromagnetic reception patterns, and the sharpest nulling ability. The biggest challenge was in finding a suitable frame material to make the "isolated loop" concept a reality, without upsetting the design objectives of complete symmetry, light weight, and extremely low cost.

PVC as a Frame Material PVC-framed air core loop designs have been increasingly popular among MW and LW DXers, primarily because of their unique combination of symmetry, light weight, and structural strength. Large frame designs that would be impractical with wood are easily constructed with PVC, even up to the 7, 8 and 9 foot side dimensions.

In choosing my own design objectives, I examined the plans of James Dale (of the Minnesota DX Club) and others, in which the PVC frame was at the center of the loop, using spreaders to maintain tension on the coil windings. This seemed to be the "standard" box loop design, a PVC adaptation of the classic wood-framed

designs of the 70's and 80's. No doubt these loops provided much exciting DX for their builders, but I personally thought that PVC had potential for greater things, especially in the design of monster loops that would be absolutely impractical to construct with wood. As mentioned previously, I also wished to offset the PVC frame from the electromagnetic center of the loop, so as to isolate the coil in relatively free space for maximum performance.

One Standard Design This project was simplified by the choice of one standard frame design, which could give optimum performance regardless of the side dimension. The only differences would be in the side dimensions, coil turns, and in the diameter of PVC used to maintain rigidity. Special variants such as tabletop, collapsible frame, long wave and waterproof loop models were developed which have specialized parts, but all models follow the same basic frame design. Ten loops were constructed, with side dimensions of 18", 2'1", 3'4", 4', 5'3", 5'6", 6'3", 7'7", 9'1" and a Longwave model of 6'5". As interested hobbyists will soon discover, once you have built one of these standard-design PVC loops, you will have the experience to build any one of them-- a fascinating ability that (as the author has discovered) can turn a casual hobbyist into a fanatic.



Choosing Your Dream Antenna Although even a small tuned passive loop will provide a significant DXing boost over a stock portable, the antenna gain from these loops is directly related to the size of the loop. Larger sizes will provide more gain, and greater DXing performance. Within the limits of practicality in each hobbyist's own unique situation, it is the author's recommendation that DXers choose to build the maximum size of loop that their situation will allow.

Both the 18" and 2' PVC Loops can be constructed in a "tabletop" design, where they can be placed on desk tops, and picnic table surfaces. These loops will provide a significant DXing boost for typical

Ultralight radios, and also have great portability for travel situations.

The 3', 4' and 5' PVC loops are more suitable for use on a support stand, either of a custom wood design, a basic PVC design, or of the all-PVC altazimuth tilting system (more later). These loops provide the best gain for DXers limited to indoor antennas, and should perform superbly whether inductively coupled to Ultralight radios, or directly connected to table receivers.

The 6', 7.5' and 9' PVC Loop models are most suitable for outdoor DXing away from house wiring and computer noise, where their high gain and excellent nulling capabilities can really shine. These monster loop antennas have the capability of taking fringe AM signals completely inaudible on stock Ultralight radios and boosting the signal gain to the point that the same Ultralight radios start to overload! Of serious size but moderate weight, these antennas do require stable and strong support structures (of non-conducting materials), weather-resistant construction, and tolerant family members (and neighbors).

Since the author was fascinated by the performance of these large loops and greatly desired similar DXing gain during ocean beach runs, experimentation was undertaken to create a 6' (side) collapsible-frame variant that would fit in a small car, and have foolproof assembly within a minute. That model is also now an exciting reality, the first of the "Pipe Dream" traveling monster loops.

Whereas these PVC loop antennas can provide high gain and highly directional nulling capabilities, they are not substitutes for large external antennas with cardioid reception patterns. The typical "figure 8" reception pattern of loop antennas means that the user must expect situations where QRM from unwanted stations comes from the back direction. The loops can be made highly symmetrical and can be tilted to optimize nulling of pest stations, but this will be of limited value if your target DX station is very close to the opposite bearing of the pest. Fortunately, there are also many situations when the bearing of the DX station is significantly different from that of a nulled pest, leading to easy receptions.

The PVC Construction Primer There is a short learning curve involved in becoming an expert PVC frame builder, but after a few simple lessons, even a total novice like the author can assemble like a journeyman plumber. The PVC pipe, fittings, and glue are all dirt cheap, making it easy to practice until complete skill is attained. Perhaps the only downside will be the multiple requests from family members for PVC-framed projects like soccer goals and storage racks, after building expertise is gained. A few simple precautions will ensure maximum strength and symmetry in your dream antenna:

- 1) Choose the correct diameter of PVC for the size of your antenna frame (recommendations will follow). The most common novice mistake is to use PVC which is too small to rigidly support itself. This leads to a sagging frame, and sagging DX potential.
- 2) Always make a "dry run" to ensure that the PVC pipe will mate solidly with the PVC fitting, before reaching for glue. The time to discover that the pipe needs sanding is not when you are attempting to glue it to the fitting! Before gluing, ensure that the pipe "bottoms out" in the fitting slot during the "dry run," for maximum strength and symmetry in all loop designs.
- 3) PVC glue is very easy to use, and is strong and waterproof. Work outdoors, however, since the fumes are too potent for household venting systems. PVC glue also "grabs" very quickly, so know exactly what you plan to do, before applying it.. Make sure the pipe is of the correct length, and that if you need to glue a pipe at a 90 degree angle (such as the wire notch pipes), a 90 degree guide is available. PVC glue "grabs" about 5 seconds after the pipe is twisted into a fitting, so you have about that long to "get it right."
- 4) Woodworking tools (and experience) are extremely useful in PVC frame construction. A miter saw can cut all types of PVC pipe cleanly, usually leaving clean edges that require no sanding. A circular saw with an edge guide (and multiple wooden spacers) can cut perfectly symmetrical wire slots. Skills in measuring and cutting identical parts will be extremely useful in this project. Carpentry experience is helpful, and perhaps even a plumber might find his skills useful :->)
- 5) Use "Schedule 40" PVC pipe for all these projects. This is the thickest, strongest type of pipe for frame construction, providing maximum symmetry and rigidity. "Schedule 40" is always stamped on this kind of pipe, usually with the date of manufacture.
- 6) Learn the PVC fitting lingo. A "cross" has four openings, and is shaped like an "X." A "tee" has three openings, and is shaped like a "T." An "elbow" has two openings, and is shaped like an "L." There are other PVC fittings, but these are the main ones used in building antenna frames.
- 7) Have fun! PVC assembly mistakes are never fatal—the pipe can always be recycled to make smaller frames. Do your best to learn the skills, and if you have an unexpected "lesson," you can easily write off the cost of a few cheap fittings as "education." Before long, you will be fully qualified to build any size of PVC loop!

Cutting of PVC Pipe The easiest and most efficient way of cutting PVC pipe is by using a power miter saw, with the blade (preferably a "finishing" blade) set at a 90 degree angle. All the pipes for any PVC loop (and its PVC support stand) can easily be cut within a few minutes this way. If you

don't have access to such a saw, however, don't despair. A manual miter saw box can also be used to cut perfectly straight pipes, and any hardware store has manual PVC cutting tools, which work very well once you get the hang of them. The trick with these manual cutting tools is to use a repeated cylindrical rolling motion on the PVC to cut through the pipe, rather than attempting to chop the pipe with brute, macho force in a hand grip (as the author quickly discovered). Before purchasing any PVC cutting tool, make sure that it will cut the PVC diameter size that you are planning to use in your project, and practice cutting a few scrap pieces of PVC before you make the important cuts on your dream antenna frame. Practice making clean, perpendicular cuts, which will give your PVC loop the maximum possible strength and symmetry.

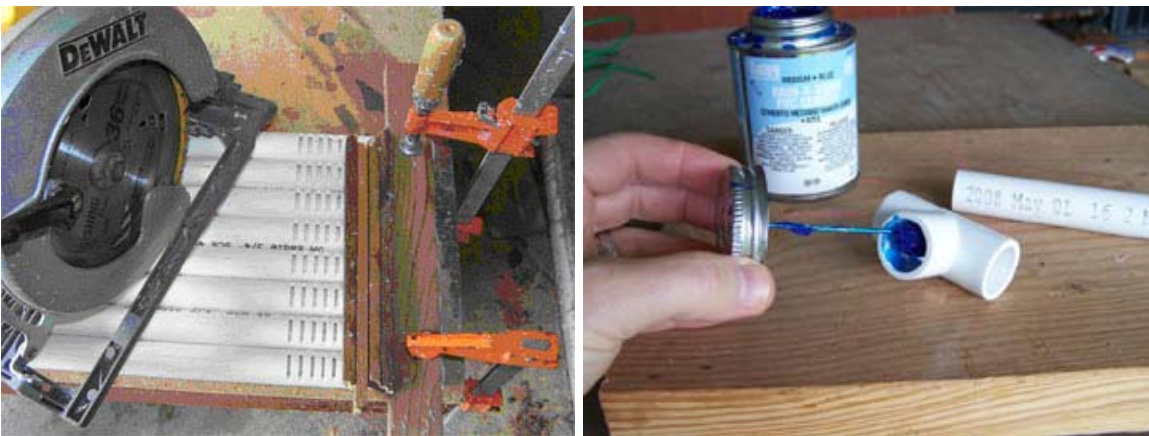
If you plan to use a hacksaw (or other manual saw) and lack a miter cutting box, it is recommended that you mark a perpendicular cutting line around the PVC pipe at the exact dimension you wish to cut, and score this line with the saw to start off your cut. This will help you avoid the angular cuts which tend to creep in with this cutting method.

After choosing your desired size of loop and cutting your pipe lengths according to the "Table A" dimensions, ensure that the pipe ends will fit easily into your PVC fittings for gluing purposes. Rough edges should be sanded with 150 grade sandpaper (on the edges only, not on the smooth sides of the pipe) to ensure easy fitting. Always make "dry runs" before reaching for PVC glue.

Cutting the Coil Wire Notches The PVC loop design places a high priority on great coil symmetry, which comes from perfectly spaced coil wire notches. The easiest and most efficient way of cutting these symmetrical notches is by using a circular saw with an edge guide, and multiple wooden spacers to cut evenly spaced wire slots (see photo). The author used several 10" long pieces of 1/4" and 3/8" wide mahogany furring strips for this "spacer" purpose, which worked very well. Any experienced woodworker or carpenter should be able to cut highly symmetrical notches this way, but this method requires experience, and should not be attempted by novices (see note below).

If you don't have access to such a saw, you can still make highly accurate coil slots by carefully using a hacksaw on marked cutting lines, which are drawn using a straightedge. Use a ruler to mark out parallel cutting lines spaced exactly .3 inches (or whichever other space is directed in "Table A") apart, and cut the slots wide enough so that your wire size can fit inside the slot for "nesting." This will ensure that your coil turns can be highly symmetrical, to optimize your loop's DXing performance and nulling ability.

Note: Use of a circular saw is not recommended if you lack experience. In preparation for this article, the author has pre-cut many sets of wire-notch PVC pipes for various sizes of loops. If you wish to build a PVC loop but have no interest or ability to cut wire notches, feel free to contact the author to check on the availability of a pre-cut set of 4 wire-notch pipes ("Pipe B", in the Table A loop dimension list) for your chosen PVC Loop design, which can simply be glued to four "spreader" pipes to make your loop. If available, a set will be sent for the cost of USPS Priority Mail shipment.



Professional Glue Joints The symmetry and strength of your PVC Loop will be optimized when you make accurate, secure glue joints between the PVC pipe and fittings. Although all loops will benefit from skillful gluing, the larger loop sizes in particular need strong bonds at various points of stress, such as at the center "cross" fitting, and at the lower "tee" fitting where the loop will be mounted on a support frame. Read the instructions on the glue can and follow them carefully—both for the maximum strength of the joints you make, and for maximum personal safety.

Inside every PVC fitting is a recessed slot, designed to securely hold the pipe after gluing. The fitting's maximum strength comes when a generous amount of glue holds a "bottomed out" pipe securely, in this slot. You can ensure gluing skill by making several practice PVC joints with cheap, scrap pieces of pipe and fittings. After gluing the scrap pieces to fittings, check the opposite end of the fitting to see if you "bottomed out" the pipe in the slot. Practice making glue joints at various angles between pipe sections. Remember that PVC glue gives you about 5 seconds before starting to "grab," so you need

to know exactly what you are doing (and what angle you want) before reaching for glue.

When preparing to glue a fitting in your PVC Loop frame, during the “dry run,” ensure that the pipe will come close to “bottoming out” in the PVC fitting, before applying glue. If it will not, clean the dirt or other debris off the pipe and fitting slot, and try again. Sand the pipe end with 150 grade sandpaper if necessary. Although PVC glue will often dissolve dirt, stains and other debris to “bottom out” a pipe in the fitting slot, it is best to have smooth, clean PVC material before gluing.

Gluing the four “spreader” pipes to the “cross” fitting is easy, since there are no angular glue joints. Simply ensure that the four pipes “bottom out” in the “cross” fitting (see photo). Gluing the four relatively short “wire slot” PVC pipes to the spreader pipes requires that the “wire slot” pipes all be pointing straight upward, perpendicular to all the “spreader” pipes (see photo). During these glue-ups, it is best to have a guide for a 90 degree angle, such as an unglued “wire slot” pipe set at a 90 degree angle in the fitting at the opposite end of the loop frame. Within 5 seconds, the builder should be ready to get the “wire slot” pipes bottomed out in the fittings, and set them at an angle of 90 degrees before the glue “grabs.”

PVC glue forms strong, waterproof bonds when used properly, but will give off a pretty strong smell for about 24 hours after use. Plan to keep your glued PVC pipe project outdoors to vent off the fumes for at least a day after construction, to avoid irritation to yourself and others. Once again, be sure to read all the safety precautions on the glue container, and follow them carefully.

PVC glue also is also known to make interesting, psychedelic patterns when excess glue runs out of joints, especially when it is used as specified on the glue can. If you don’t wish your PVC loop to resemble some counter-culture art from the late 60’s, use masking tape, and clean rags to wipe up.

Choose your loop size(s) according to the following information. **All of these loops have actually been built and tested by the author**, and should perform as specified when instructions are followed. PVC diameter instructions must be followed exactly, to ensure symmetrical frames. Larger PVC diameters than those recommended may result in unnecessary, excess loop weight.

Table A – PVC Loop Dimensions, Pipe Lengths, Weight and Cost

Side Dimension	18.5"	25.5"	40"	48"	63"	66"	75"	91"	109"	77"	(LW)
Diagonal Dimension	25.5"	35.5"	55"	69"	88"	93"	108"	125"	153"	107"	
PVC Diameter ***	1"	.75"	1"	1"	1"	1"	1.25"	1.25"	1.25"	1.25"	
Pipe “A” length	10.75"	16.4"	26"	32"	42"	44"	51"	60"	73"	51"	
Pipe “B” length	8.75"	7"	7"	7"	7"	7"	7"	7"	10.5"		
Loop Turns	20	12	9	7	6	6	6	4	4	22	
Coil Turn Spacing	.3"	.3"	.3"	.3"	.3"	.3"	.6"	.6"	1"	.3"	
Wire Length	123'	102'	120'	112'	126'	132'	150'	121'	145'	564'	
Wire Size	#18	#18	#18	#18	#18	#18	#16	#14	#14	#18	
Cost of Frame*	\$6	\$7	\$8	\$9	\$10	\$10	\$14	\$15	\$18	\$11	
Cost of Loop**	\$40	\$41	\$42	\$43	\$44	\$44	\$48	\$49	\$52	\$146	
Weight of Frame	2 lb.	2.5 lb.	4.5 lb.	5.5 lb.	6.5 lb.	7 lb.	9 lb.	12 lb.	14.5 lb.	9.5 lb.	
Weight of Loop	3.5 lb.	4 lb.	6 lb.	7 lb.	8 lb.	8.5 lb.	10.5 lb.	13.5 lb.	16 lb.	15 lb.	
Start Frequency (kHz)	500	530	510	530	550	530	530	670	590	148	
End Frequency (kHz)	1710	1750	1710	1700	1500	1470	1450	1720	1480	374	

*Pretax cost of PVC pipe, fittings and glue (retail prices in western Washington state, August 2009)

**Pretax cost of PVC pipe, fittings, glue, wire, plus high quality “N50P” 381 pf variable capacitor

***For the 18.5” side PVC loop (and all loops smaller than 24” per side), 1” diameter PVC material is recommended to stiffen the frame, to avoid bowing due to multiple tight wire turns on the frame.

Practical Considerations in Building Your Dream Loop Although most DXers would probably wish to have as much DXing gain as possible from their antennas, the monster-sized loops larger than 4’ per side are unwieldy animals when used in indoor locations, and are impractical to rotate and transport in such environments. RF pollution and multiple conductors in walls, floors and ceilings compromise the indoor performance of these monster loops, which have the potential to cause serious stress in marriages (and serious doubts about the builder’s sanity). It is the author’s sincere hope that no broken relationships or other such negative consequences arise from a DXer’s unrealistic choice of loop size.

Preparing to Build Your Own PVC Loop After choosing the size of loop(s) you wish to construct (when viewing Table A), the next step is to gather your materials.

1) Secure a high quality variable capacitor to use in your loop. The author strongly recommends the compact, 381 pf variable cap from Crystal Radio Supply (part # N50P), which has 8:1 reduction gearing for smooth, hassle-free tuning from 530 to 1700 kHz. It is also compact enough to fit inside a 1.5” diameter PVC pipe, for complete waterproofing of an outdoor loop. The current cost is \$13.99

plus shipping. It's true that you can recycle an old variable cap from a junk radio and make a tuned loop, but the hassles of hair-trigger high band tuning (and extra hand capacitance) just aren't worth it, in the author's opinion. The final quality of your loop will only be as good as the quality of your variable capacitor—so choose a high quality capacitor from the beginning, and avoid the tuning hassles.

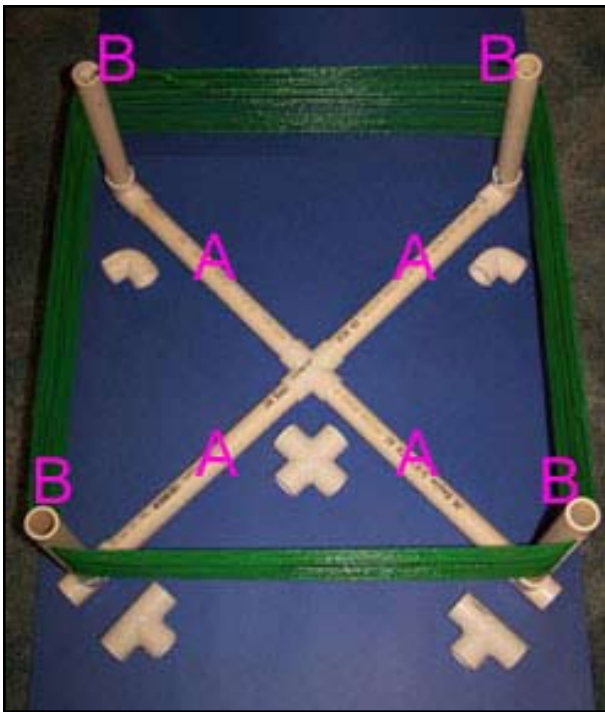
- 2) Purchase PVC pipe for your chosen loop, making sure it is "Schedule 40" pipe in the diameter size specified in Table A. PVC pipe is commonly sold in 5', 10', 15' and 20' lengths in major hardware stores, and it must be cut to the "Pipe A" and "Pipe B" lengths specified in the table. Each loop will need at least four "Pipe A" lengths and four "Pipe B" lengths, so add up these total lengths to find how much pipe you will need for your loop. Remember to purchase some extra PVC pipe for cutting and gluing practice, and to make a PVC support stand for your loop, if desired.
- 3) Purchase at least one "cross" fitting, two "tee" fittings, two "elbow" fittings and three "cap" fittings in the PVC diameter specified for your loop (in Table A). Purchase some extra fittings to practice gluing, if desired. All of these PVC fittings should be "slip" (flat mating surfaces), and **not** "threaded" (screw-on type). If you wish to waterproof your loop, purchase an additional 1.5" PVC "coupler" fitting, and a "slip bushing" PVC fitting matching your loop's diameter (.75, 1, or 1.25") to the 1.5" coupler fitting.
- 4) Purchase stranded insulated wire of the type specified in Table A for your chosen loop, with 25' more than the length specified. Be advised that copper prices have become quite outrageous, and that you can expect to pay about \$18 for 125' of #18 wire. Recycled #18, #16 or #14 stranded wire may be used, but sizes larger than these are impractical for winding highly symmetrical loops.
- 5) Purchase PVC glue, in cans with a built-in applicator brush. The author recommends Oatey "Rain-R-Shine" medium blue PVC cement (8 ounces), which retails for \$5.48 and is enough for one loop.
- 6) Purchase silicone rubber sealant to lock in the symmetry of the coil you wind, at the coil ends. The author recommends DAP 100% Silicone Rubber Sealant for windows and doors (2.8 fluid ounces), which retails for \$3.50, and has a 50 year durability guarantee.
- 7) Gather tools and materials necessary to construct the loop. You will need a pipe cutting tool (power miter saw, miter box manual saw or hacksaw), coil notch cutting tool (electrical circular saw or hacksaw), needle-nose pliers, diagonal cutters, insulation-removing tool, scissors, strapping tape, a tape measure, soldering iron, screwdriver and hardware for connecting the variable capacitor chassis lead, and rags to clean up excess glue. For checking loop performance and adjusting the new loop's tuning range, you will need a portable radio with some type of tuning indicator (bar graph, signal strength LED(s), etc.
- 8) The author strongly recommends that you build a PVC (or other type) support base for your loop, prior to constructing the actual loop. PVC material of the same diameter as your loop makes an ideal, insulating support structure to allow rotation of your loop for DXing purposes, and elevation of your loop away from ground obstructions. Support bases with electrical conductors (steel, aluminum or other conducting metals) should **not** be used, since they will upset the symmetrical reception pattern of the loop. More information on PVC support bases will follow.
- 9) Remember to work **outdoors** during all cutting and gluing operations. The PVC glue has a very potent smell, which can fill an indoor space within seconds. After any gluing, make sure to keep your loop project **outdoors** for at least 24 hours, to vent out any remaining glue odor.

Building Your Own PVC Loop—Basic Loop Construction Article

Step By Step Construction (Note: The instructions below are suitable for building a standard PVC waterproofed loop with a fixed frame, ready to mount on a PVC support stand which allows loop rotation. They are not suitable for building a collapsible frame loop or a tabletop loop, for which basic instructions will be follow later in this article, and detailed instructions in subsequent articles.

Observe the "loop turns" number in Table A for your chosen loop size. Using your wire notch cutting tool, cut one more than this number of parallel notches (of .75") length in four PVC pipes, with the first notch 3" from the end of a pipe, and the remaining notches getting closer to the center of the pipe. Ensure the spacing between these notches is close to the "coil turn spacing" specified in Table A, for your chosen loop. Experienced users of a circular saw may set the blade depth to one "tooth" of a finishing blade, clamp the pipes in a horizontal position, and use wooden spacers to quickly cut multiple notches with perfect symmetry (as shown on p. 5).

- 1) After all the notches are cut in four pipes, use your pipe-cutting tool to cut these four pipes into the "Pipe B" dimension specified in Table A, ensuring that there is at least 3 inches of space between one side of the pipes and the first wire notch, but no more than 2 inches of space between the other side of the pipes and the nearest wire notch. A power miter saw can cut all four pipes quickly and easily, if used for this step. If using a manual cutting tool, de-burr pipe debris from the cut edges with 150 grade sandpaper prior to any gluing attempts.



2) After cutting the four "Pipe B" pipes, cut four "Pipe A" pipes, according to the dimension listed in Table A for your chosen loop. If using a manual cutting tool, again de-burr any pipe debris on the cut edges with 150 grade sandpaper, as in the previous step.

3) Take the PVC cross fitting, and make a "dry run" prior to gluing (as explained on Page 5), to ensure that all four "Pipe A" pipes will insert easily into the fitting, and come close to bottoming out in the recessed slot. De-burr the ends of the pipes as necessary, to ensure smooth insertion in the cross fitting. Clean the ends of the pipes, then apply PVC glue with a brush to one of the cross fitting's open slots, and also to the end of one of the "Pipe A" pipes. Insert this end as deeply as possible into the PVC cross fitting's glued slot, twisting it as necessary to "bottom out" the pipe in the recessed slot. Use rags to clean up any excess glue. Then following the above procedure, glue the other three "Pipe A" pipes into the PVC cross fitting, en-

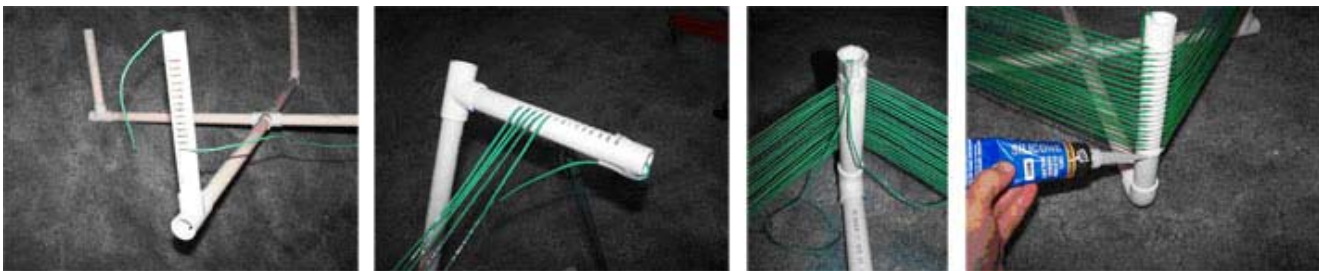
suring that all of them "bottom out" in the slots. This completes the construction of the loop's vertical frame.



- 4) Take two "elbow" PVC fittings, and two "tee" PVC fittings, and make a "dry run" (preparation for gluing) with the sides of the four "Pipe B" pipes having the most space between the notches and the end of the pipes. When making the dry run with the "tee" fittings, insert the "Pipe B" end into the **center slot**, not into either of the end slots of the fitting. De-burr the ends of the pipes with 150 grade sandpaper as necessary, to ensure smooth insertion in the fittings. Clean up any debris in the PVC fittings or around the pipe ends, prior to gluing.
- 5) Observing the photo at the above right, note that all the pre-cut wire notches on the "Pipe B" sections must be facing directly **toward the outside of the loop**, for proper assembly. When gluing to the center slot of the "tee" fittings, these notches must be facing directly **towards one end** of the "tee" fitting, as shown. When gluing to the "elbow" fittings, these notches must be facing **directly opposite the open end** of the elbow fittings, as shown. Before gluing these "Pipe B" sections to the PVC fittings, practice as necessary to know exactly where to position these coil notches, within 3 seconds of inserting the glued pipe into the "tee" and "elbow" fitting slots.
- 6) Taking one of the "Pipe B" sections, apply a thin coat of PVC glue to the end of the pipe having the most space between the wire notches and the pipe's edge. Then promptly take a PVC "elbow" fitting, and apply glue to one of the slots. Insert the pipe's glued edge into the "elbow" fitting's glued slot, bottoming it out, and **twist the pipe to ensure that the wire notches face directly opposite the "elbow" fitting's open end**. Clean up excess glue as necessary. Repeat the above steps to glue another "Pipe B" section into another "elbow" fitting, so that two "Pipe B" sections will be glued to "elbow" fittings, both with the wire notches facing directly opposite the "elbow" fitting's open end.
- 7) Taking one of the remaining two "Pipe B" sections, apply a thin coat of PVC glue to the end of the pipe having the most space between the wire notches and the pipe's edge. Then promptly take a PVC "tee" fitting, and apply glue to **the center slot** of the fitting. Insert the pipe's glued edge into the glued center slot of the "tee" fitting, bottoming it out, and **twist the pipe to ensure that the wire notches face directly towards one of the ends of the "tee" fitting**. Clean up excess glue as necessary. Repeat the above steps to glue another "Pipe B" section into another "tee" fitting, so that two "Pipe B" sections will be glued to "tee" fittings, both with the wire notches facing directly towards one end of the "tee" fittings.
- 8) Again observing the photo at the above right, note that when the "Pipe B" sections with the "tee" fittings are glued into the "Pipe A" frame pipes, the wire notches **must face toward the outside of the loop**, and that there is only **one correct side** of the "tee" fitting to glue to the "Pipe A" frame pipe (the one opposite the wire notches). Note also that all of these "Pipe B" wire notch pipes **must be glued at a 90 degree angle**, relative to the plane of the "Pipe A" frame pipes. In the same way,

observing the photo, note that when the “Pipe B” sections with the “elbow” fittings are glued into the “Pipe A” frame pipes, both of these “Pipe B” wire notch pipes **must also be glued at a 90 degree angle**, relative to the plane of the “Pipe A” frame pipes. Practice making these angular glue jobs before the actual glue-up, which will require the longer frame pipes to be “bottomed out” in the PVC fittings, and the shorter wire notch pipes to be rotated to a 90 degree angle within 5 seconds. Know exactly what you plan to do, before reaching for glue.

- 9) Without using any glue, insert the open end of an “elbow” fitting (attached to a wire notch “Pipe B” side) onto the edge of one of the “Pipe A” frame pipes, and rotate the “Pipe B” wire notch pipe to an exact 90 degree angle, relative to the plane of the “Pipe A” frame pipes. This will act as a guide for making an accurate 90 degree angle glue-up in the next step.
- 10) Apply glue to the **correct** opening slot (the one farthest away from the wire notches) of the “tee” fitting attached to one of the “Pipe B” wire notch pipes, and also apply glue to the edge of the “Pipe A” frame pipe directly opposite the 90 degree guide, prepared in the last step. Insert the end of the “Pipe A” frame pipe into the glued “tee” fitting, forcing it in to completely bottom out the pipe, and **rotate the “Pipe B” wire notch pipe so that it is a 90 degree angle, following the guide prepared in the last step.** Use rags to clean up as necessary.
- 11) Remove the unglued “Pipe B” wire notch pipe that was used as a 90 degree angle guide in the last step. Using the wire notch pipe that was glued in the last step as a 90 degree angle guide (assuming it was correctly glued at 90 degrees :-), apply glue to the open slot of the “elbow” fitting attached to the wire notch pipe, and also to the end of the “Pipe A” frame pipe directly opposite the 90 degree guide, glued in the last step. Insert the end of the “Pipe A” frame pipe into the glued “elbow” fitting, forcing it in to completely bottom out the pipe, and **rotate the “Pipe B” wire notch pipe so that it is at a 90 degree angle, following the guide glued in the last step.** Use rags to clean up as necessary.
- 12) Repeat steps 11, 12 and 13 to attach the remaining two “Pipe B” wire notch pipes to the remaining two “Pipe A” frame pipes. Follow instructions closely, and use rags to clean up any excess glue. This completes the assembly of the PVC loop frame, which should be left **outdoors** to vent off glue fumes for at least 24 hours.



Winding the Coil on the PVC Frame The wire size and length recommendations in Table A have been tested in actual PVC loops, and should be followed for best results. In any case, wire should be stranded, insulated, single conductor, and of a size close to the wire recommended in Table A.

- 1) Using the wire size specified in Table A for your chosen loop, cut 25 feet more than the Table A length specified for your chosen loop. This should compensate for minor loop frame construction differences. When cutting long lengths of wire for loop construction, it is helpful to lay the wire out flat on the ground—both for measurement, and to avoid tangled messes when winding a coil.
- 2) Choosing one of the wire notch pipes attached to a “tee” fitting, bend and insert one end of the cut wire length into the wire notch **closest to the “tee” fitting**, and twist and push it up through the wire notch pipe until it comes out of the free end of the pipe (needle nose pliers may help in pulling it through the pipe). Pull about 6” of this wire past the end of the pipe, then use strong strapping tape to secure this wire on the pipe side opposite the wire notches (see photo). Note: this will be the “capacitor pipe,” in the final loop.
- 3) Start to wind your loop coil (in either direction) by pulling the wire, and inserting it into the wire notch pipe slot **closest to the PVC fitting**, on the next frame pipe. Use moderate force to pull out any slack in the wire (further tightening will come later), and push the wire into the notch as deeply as possible. Continue in this manner to proceed to the next frame pipes, always pulling up the slack as you insert the loop wire into the wire slots, and keeping the coil moderately tight and symmetrical (winding the coil from the bottom to the top of the wire notch pipes). Note: it is normal for the coil to appear quite ugly and disorderly when first wound on the PVC frame.
- 4) When you have wound the correct number of turns according to the instructions in Table A for your chosen loop, you will end up at the same wire notch pipe (with a “tee” fitting) that has the other wire end taped in place. Stop at this pipe, temporarily tape off the coil you have wound, and insert the free end of the wire into the last remaining slot on the same wire notch pipe (It may be

helpful to cut off any excess wire at this point—you will only need about 12 inches more wire than where the pre-wound coil reaches the last wire notch slot). After inserting the free end of the coil wire into the last wire notch slot, push it upwards until it comes out of the end of the wire notch pipe (like the other end of the wire, which is taped in place). Then remove the tape temporarily securing your recently wound coil, and pull up all slack in the coil by working it through the last coil notch slot (while pulling on the free end of the wire, which now comes out of the pipe end). Finally, tape this free end in the same position as the other coil end, on the side of the pipe opposite the winding notches (secure both ends together, as shown in the photo).

- 5) Starting from one end of the taped coil, start pulling out the slack in the coil turns, moving from pipe to pipe. Smooth out any bends or kinks in the wire, and push the wire back into the wire notches after pulling out any slack. Continue pulling out the slack in this way until you reach the other end of the coil (where it enters the pipe through the wire slot), and pull up this slack through the wire notch pipe. Temporarily remove the tape securing the coil end to the pipe, pull out all slack in the wire, and re-tape the coil end.
- 6) Repeat step 5 multiple times (in both winding directions, clockwise and counterclockwise) to pull out as much slack as possible in the coil wire, until the coil is as symmetrical as possible. On loops with many turns, this step may need to be repeated as many as 10 times, for best results. (Note: **minor** bowing of the frame pipes may occur on loops with many turns as the slack is pulled out tightly, but this will not affect the loop's performance). If the ends of a frame pipe bend toward an adjacent pipe, simply grasp the coil wire and slide the frame pipe back into a straight position.
- 7) When satisfied that your loop coil is as symmetrical as possible, use silicon rubber sealant to seal the wire notch slots **where the ends of the coil enter the pipe**. Use a generous amount to completely cover the two slots, and lock in the symmetry of the coil you have just wound. In a similar manner, use a generous amount of silicon rubber sealant **inside the open end** of the wire notch pipe (where the two wires exit the pipe), to lock in the position of the two end wires. Ensure that **no sealant is applied to the outside edge** of the pipe—in the waterproofing system, a PVC fitting will cover these surfaces. Allow 24 hours for the rubber sealant to cure, before proceeding.



Final Electrical Assembly For those builders wishing to connect the recommended “N50P” variable cap from Crystal Radio Supply and waterproof their loop, final instructions follow. If you wish to connect a different variable cap and are not concerned about waterproofing, ensure that the leads to your variable cap **are as short as possible**, and that you use a plastic tuning knob on your variable cap to minimize hand capacitance.

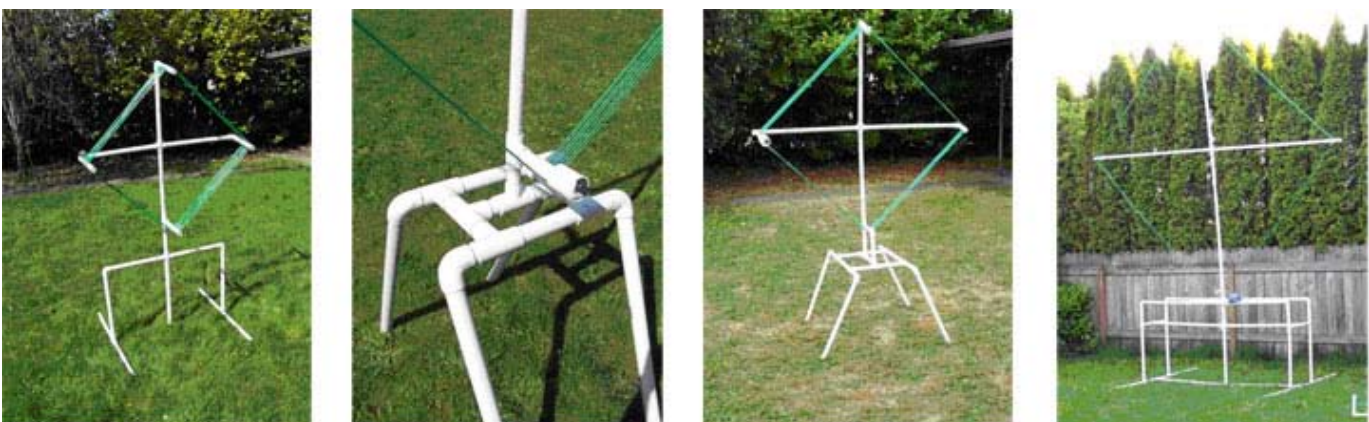
- 1) Remove the tape securing the two coil ends to the wire notch pipe. Measuring from the end of the pipe, cut these two coil wire end leads to a length of $4\frac{1}{2}$ ". Strip off $\frac{3}{4}$ " of insulation from one wire end, and $\frac{1}{2}$ " of insulation from the other wire end. Twist the stranded wires at the end of each lead together tightly, so they can be securely connected to the variable capacitor.
- 2) Take a 1.5" PVC “coupler” fitting and the PVC “slip bushing” fitting that you purchased earlier (with one side having a 1.5" diameter, and the other side having the diameter of your loop frame). Use PVC glue to insert the 1.5" side of this “slip bushing” to one side of the 1.5" coupler, pushing the “slip bushing” into the “coupler” until it bottoms out.
- 3) Thread the two loop wire ends through the smaller-diameter opening in this bushing-coupler assembly until they come out the opposite end (see photo). Then twist the bushing-coupler assembly firmly onto the end of the wire notch pipe, until it reaches its maximum depth (Note: glue is not necessary, and is avoided to enable replacement of the variable cap should it become necessary in the future).
- 4) Take the 381 pf variable cap from Crystal Radio Supply, and make sure the rotor plates are fully meshed inside the stator plates, to avoid damage during assembly. Pre-tin the loop wire end with $\frac{1}{2}$ " of insulation stripped, and solder it to one of the two variable cap terminals at the back of the variable cap (the side opposite the tuning shaft).
- 5) Attach the other loop wire end to the variable capacitor chassis with an 8-32 x $\frac{1}{4}$ " screw, a #8 lock-washer, and two 8-32 nuts. Used the threaded screw hole on the side of the variable cap chassis which is opposite the side having the terminal chosen in step 4. Wrap the end of the loop wire

securely around the screw with nuts on both sides of the lead wire end, so that it will lock in place when the screw is tightened. Then securely tighten the screw. (Note: Do **not** attempt to solder the wire lead directly to the chassis of the variable cap. This will usually create a poor connection, subject to breakage when the variable cap is inserted in the PVC coupler fitting)

- 6) Attach a plastic knob to the tuning shaft of the loop's variable cap. Using a portable radio with a signal strength LED or bar graph (Tecsun R9012, Eton E100 or similar), tune in a weak station near the lower end of the band, and place the radio within 3 inches of the loop wire. Check the operation of your new loop by tuning its variable cap slowly clockwise, until the signal from the weak station becomes MUCH stronger. Even if the loop is in a horizontal position on a work table, it should be able to greatly boost the signal from any weak station, once the loop is tuned to the radio's frequency. Ensure proper loop operation before proceeding.
- 7) While observing the two connecting wires on the back of the variable cap, gently insert the variable cap into the PVC coupler fitting with a slight twisting motion, so that the slack in the wire leads will be taken up inside the coupler. Bend the four terminal leads on the bottom of the variable cap just enough so that the variable cap will lock in place inside the coupler, with the back of the variable cap bottoming out inside the coupler. After this step, use the portable radio to again check the variable cap operation, to ensure that both connecting leads are still connected, and operating properly. If not, remove the variable cap from the coupler fitting and check the leads. Most often at this point, if a problem exists, the wire terminal on the bottom of the variable cap has shorted to the chassis of the variable cap. Use diagonal cutters to remove a section of this terminal so that it will not short, and reinsert it into the coupler fitting. Check normal operation.
- 8) When the variable cap is fully inserted into the coupler fitting, locked in place with its bottom terminals, in a straight orientation relative to the frame pipe and operating normally, secure the variable cap in this position by carefully applying silicone rubber sealant around three front edges of the variable cap—the left, right and bottom (see photo). Use only enough sealant to bond these edges to the **inside** of the coupler fitting, and ensure that no sealant touches the variable cap's rotor or stator plates. Leave the top edge of the variable cap without sealant, so that the approximate tuning position may be observed (this will not affect waterproofing, in a vertical loop). Let the sealant cure for 24 hours. (This completes the assembly and waterproofing of your PVC Loop.)

Operation and Performance When mounted in a vertical position on an insulating stand, your new PVC Loop should provide a very strong DX signal boost when its loop coil is broadside to the DX (i.e. the loop frame pointing at the DX station), whenever a radio tuned to its frequency is held within a few inches of the loop. Depending upon the size of PVC Loop you have constructed, the DX signal boost will range from very significant (18" size) to overwhelming (9' size).

If you have constructed a loop larger than 4' square, you will notice that the frequency range of your loop (as constructed) will not cover the entire AM band. The solution to this situation is to use capacitive switching (or wire jumper shorting) schemes, which are beyond the scope of this initial article and will be covered in a dedicated Monster PVC Loop article at a later date. Also in a separate article, the indoor use of 3' and 4' PVC Loops connected to communications receivers will be discussed.



PVC Support Bases The ideal structure to support your new PVC Loop is a PVC support base, constructed of identical material (of the same diameter). It is lightweight, waterproof, insulating, strong—and cheap. It makes an excellent first PVC project, as you learn the tricks of cutting and gluing before building your loop. A simple support base is shown in the photo at left, along with the more specialized altazimuth tilting base and heavy-duty monster loop base.

To construct the simple PVC base, glue a short stub of pipe (about 5") into one side of a "cross" fitting. Glue a 3' pipe section into the opposite side of the "cross" fitting. Cut two more 3' pipe sections and glue them into the other two openings in the "cross" fitting. Cut two sections of pipe 33" long, and glue each one into the center opening of two "tee" fittings. This will be the "center assembly." Cut four 2' sections of pipe, and glue them into the other openings in the "tee" fittings. These will

be the “side legs.” Glue two “elbow” fittings to the other end of the two 33” side leg pipes, **ensuring that the elbow fittings are perpendicular to the 2’ ground level pipes.** Finally glue the two side leg assemblies to the center assembly, ensuring that the **short stub is pointing upward.** This simple base will be suitable for supporting PVC Loops 4’ (and smaller) on flat ground in good weather, and may be downsized for indoor usage. Larger loops should use stronger outdoor support bases, designed to survive the toughest of local weather conditions (a special article will follow).



Collapsible-Frame, Longwave and Tabletop PVC Loops Three popular variants of the basic PVC Loop design are a collapsible-frame model which can be easily transported for DXpeditions and travel, a Longwave model which can tune from 148-374 kHz, and a tabletop model for outdoor park usage. All can be easily made, once you have experience in building the standard PVC Loop-- and all will be covered in detail, in future dedicated articles.

The collapsible-frame model has DXing performance identical to the fixed-frame models, but only two of the “Pipe A” frame pipes are glued to the center cross fitting, and only two of the “Pipe B” wire notch pipes are glued to the “Pipe A” frame pipes. The others are unglued, which allows for easy disassembly for transport. The coil is wound the same way as in fixed-frame models, but silicone rubber sealant is applied to all the wire notch pipes on all windings, completely locking in coil symmetry indefinitely—whether or not the frame is disassembled.

The Longwave model has the size and sensitivity to dig out weak signals in the lower LW spectrum, with decent nulling ability. It has been successfully built by Steve Ratzlaff as a first-time project, as well as by the author (who is quite intrigued by its strong beacon reception).

The tabletop AM model has four short PVC legs attached to the loop frame, which enables a DXer to place it comfortably on a desktop or picnic table, for casual listening sessions.

Conclusion The author tested three collapsible-frame PVC Loops (3’, 4’ and 5.5’ per side) during summer DXpeditions to Grayland, Washington, and found their performance extremely effective. The signals of typically weak DU (South Pacific) stations were boosted to the point of sounding like locals, when Ultralight radios were inductively coupled to the loops. Several MP3’s of these DU receptions have been posted on Dxr.Ca and the Ultralightdx Yahoo site, and include very strong recordings of 1116-4BC, 648-NZ Rhema, 675-3YA, 738-R.Tahiti and 567-2YA.

It is the author’s sincere hope that this passive loop experimentation will provide some new DX-ing excitement for those hobbyists who desire more weak-signal success, both at home, and during travel. If you seem to have hit a “brick wall” during your DXing sessions, why not build one of these very inexpensive loops, and enjoy a new burst of hobby enthusiasm? For the cost of the smallest commercial loop models, you can have a monster PVC Loop that will smash down your “brick wall” with exciting new loggings, and give you profound new optimism during the upcoming DX season.

73 and Best Wishes to All, Gary DeBock

(The author wishes to express appreciation for the detailed assistance of John Bryant in the preparation of this article, and for the contribution of Steve Ratzlaff in testing the Longwave variant PVC Loop.)

IRCA Mexican Log, 13th Edition (Winter 2008)

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

Prices: **NRC/IRCA members** - \$9.50 (US/Canada/Mexico/sea mail), \$12.00 (rest of the Americas/Europe airmail), \$12.50 (Australia/Japan/New Zealand airmail). Non-NRC/IRCA members - add \$2.00.

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

NRC Contests

An annual DX contest which encourages DX'ing and offers prizes

Wayne Heinen amradiolog@nrcdxas.org

4131 Andes Way

Aurora, CO 80013-3831

National Radio Club 2009-2010 DX Season Contests

Contest #1

The Cumulative Logging contest:

Clear Channel Stations - 1 point per logging

Expanded Band Stations - 2 points per logging

Regional Channel Stations - 3 points per logging

Graveyard Channels - 5 points per logging

Entries are limited to stations in North America and include the USA, Canada, Mexico and the Caribbean. Stations on any split frequency will be considered Clear Channels.

Clear Channels - 530, 540, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 800, 810, 820, 830, 840, 850, 860, 870, 890, 900, 940, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570 and 1580.

Expanded Band - 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690 and 1700

Regional Channels - 550, 560, 570, 580, 590, 600, 610, 620, 630, 790, 910, 920, 930, 950, 960, 970, 980, 1150, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1350, 1360, 1370, 1380, 1390, 1410, 1420, 1430, 1440, 1460, 1470, 1480, 1590 and 1600

Graveyard Channels - 1230, 1240, 1340, 1400, 1450 and 1490

The leader with the most points as of 11:59 PM ELT December 31, 2009 will receive a 2010 WRTH Handbook. The entrant with the most points as of 11:59 PM ELT May 31, 2010 will receive a one year NRC membership extension.

Contest #2

How far can you go?

This will be the cumulative mileage of all the loggings you make during the contest period. All stations anywhere in the Standard Broadcast Band are eligible. This contest should be a real shooting match from both coasts for those who like international TA and TP DX. Your latitude and longitude as submitted by you or determined using DeLorme Maps 2009 will be used. The best distances will be posted at the contest mid point Midnight ELT December 31, 2009 and at the end on 11:59 PM ELT May 31, 2010. This contest will have two prizes; A 2010 WRTH will be awarded to the entrant that has the most points the midpoint and a one year NRC membership subscription extension to the entrant with the most points at the end.

General Rules for all contests

Contest Eligibility - All NRC Members (*DX News*, e-DXN.com and DX Audio Service subscribers) as long as they remain members. You may enter either one or both contests.

Contest Dates - The Contest period runs from Midnight ELT October 1, 2009 through 11:59 PM ELT May 31, 2010.

Location Changes - All stations must be logged within 25 miles of your established QTH

Log Criteria - You must hear the station call letters or a universally recognized Station Slogan may be substituted for non-USA stations that are more prone to use these than any assigned call signs.

Reporting Criteria - Should be submitted in column form. Both Contests - Logs shall contain Frequency, Call Sign/Slogan, City, State/Province, Country, Date, and Local Time Heard. All points and mileage will be programmatically calculated by the contest manager - All entries must arrive at the Contest managers address by the 5th of the month following the reporting period (October logs are due by November 5th). All late entries will be discarded. All contest standings will be updated and posted in *DX News* around the middle of the month, beginning in November. You may enter at any reporting time.

Reporting Location - Email submissions are encouraged. Please email them in Word, Word Perfect or any other word processor format, Excel or acceptable Spreadsheet format to amradiolog@nrcdxas.org.

Snail mail may be submitted to the Contest manager at 4131 S. Andes Way, Aurora CO 80013-3831.

The Contest Manager will make the final decision as to the eligibility of all entrants and entries. Rules may be added, amended or clarified by the contest manager as required to ensure a fair contest. The contest Manager is not eligible to receive any prizes or awards in any of the contests.

Musings of the Members

Dave Schmidt NRCMusings@aol.com
P. O. Box 126
New Freedom, PA 17349-0126

Times are local per Muse; submit double-spaced only.

Thoughts from NRC members ... the opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the editors, publishers, or the National Radio Club, Inc.

Time to get things rolling again. Musings are still a very active part of the NRC; all we need is YOU to send in your reports. Deadlines are Fridays. And here we go:

John R. Malicky - 995 Shadycrest Road - Pittsburgh, PA 15216-3046

Greetings and salutations! Some relatively old radio news and changes: For KDKA-1020, it seems like yesterday as two personalities let go about 3 years ago have rejoined the station with Mike Pintek hosting weekday evenings while Mike Romigh is on Saturday nights proceeding Dr. Knowledge. With the pending sale of WAMO-860/106.7 and WPGR-1510 from Sheridan Broadcasting, who still plan to keep their main offices here, to St. Joseph Missions with format changes, recently-released talk host Lynn Cullen of AM 860 will begin her own show August 18 on the internet, pairing up with the City Paper, "www.pghcitypaper.com." Not so relevant, but Relevant Radio's WZUM-1590 is now owned by Sovereign City Radio Services programming Southern Gospel with neither a phone number nor address per the new 2009 Radio Book. Now for TV and those interested. Young Sonni Abatta of KDKA TV 2 has left for sunny Orlando to begin weeknight anchoring as she was one of the morning hosts. Still 'at ESPN/WFAE-1250 hosting his 10-12 noon show with Guy Junker, "Stan & Guy" - "love the show", Stan Savran was released after many years of hosting his weeknight "Sportsbeat" show on FSN-Pittsburgh. Also, it has taken awhile, but new FSN and WPGH-104.7 Pirate voice Tim Everett has filled in well, replacing the 33-year voice Lanny Frattare who now teaches at Waynesburg College. As for the digital box which is doing very well, when I should be or not listening to the radio as sometimes I do both, WTAE-4-2 has replaced their weather channel with "This TV" which runs old recent movies and past TV shows like my favorite, "The Outer Limits!" "This" now complements WPXI-TV's RTN or "Retro TV." No DX, except on 8/4 picked up WECZ-1540 Punxcy, PA which really is not a daytime regular here. Sorry to hear about Mike Lantz's guidedog Lexie passing away and best wishes to John Bowker stepping down as a BOD and Ombudsman. 73s!

Frederick R. Vobbe, W8HDU -706 Mackenzie Drive - Lima OH 45805-1835

A quick intro before the Muse. I've been the publisher of the DX Audio Service since April of 1985. That makes next April a "biggie" for the club. I work at five network television stations in Lima OH as V.P. and Chief Engineer. Our station runs ABC, CBS, NBC, Fox, and America One all out of the Rice Avenue facility in HD digital. Those who attended the NRC conventions in 2000 and 2002 will recognize the outside of the building, but the inside has been completely remodeled. (The master control can actually handle ten stations, but four is enough!) I really wanted to attend the 2009 convention, but between work and family it was impossible. If the club sticks to the Labor Day weekend for future conventions, I'm likely going to be a no-show for those as well. The problem is that too much happens around Labor Day including school starting a week before, and some impressive TV/DX that seems to peak in late August. Has anyone thought of a July or early August date? Any other members in the same predicament? Since I'm freed up from the rigors of 60-hour weeks building DTV stations, I'm getting more active in the DX hobby. I've logged three new ones in the past week alone. Since most of my loggings were from Westland MI, Temperance MI, and Toledo OH, I'm thinking of starting fresh. Wayne's contest, starting October 1st, sounds like a good reason to scrub the logbook I'm in the process of building a new loop for the backyard that is robotically oriented, (az/el/tuning) using some of the old servos from TV camera robots. I also rejoined the WTFDA this past month. A tip from one of the WTFDA members lead me to get a Zenith DTT900 converter box, and I hope to try some DTV DX too. Besides the NRC and WTFDA I'm also active on ham radio D-Star/UHF, 6-meter FM and SSB, and sometimes down in the HF bands. I'm married to Deb, and have two kids, Jon who is still in school, and C.J. who now lives up north of Schenectady and works for a major department store chain in loss prevention. I'm also active in the school system's band program, county EMA, RACES, and Salvation Army. Other hobbies include collecting oldies songs and playing around with electronics, building tuners, amps, antennas, and other stuff. And just this year I took courses to learn to MIG/TIG weld. See? You can teach old dogs new tricks. Hi-hi 73 & GUD DX.

Frank Merrill - P.O. Box 669 - Macomb IL 61455 <fmerrilljr@yahoo.com>

I am responding to, and adding to, the note which Fred Vobbe just told me that he sent for pub-

lication in *DX News*. He's brought up some valid points regarding convention scheduling, and it's something that's caused me a lot of anxiety and frustration for quite a few years.

Consider that on a three-day weekend, the MIDPOINT of the "waking" weekend is around Sunday at noon. Very few NRC'ers know this yet, but all will know NOW - but, when I went to the NRC Convention in Irving, Texas in 2003, I attended under the cloud of knowing that removal of my left kidney was IMMINENT, because cancer had been discovered there. The surgery was to take place on September 11 (!) - and in fact did - I've been living with one kidney since, and no known recurrence of cancer. I made a special trip ONLY to go to that convention, and I went with the idea that it could easily be the last convention I would ever attend in my lifetime. In other words, it was sort of a "bucket list" type of thing, and I felt very fortunate to be spending what could have been some of my final viable and "healthy" days around a group of friends and hobbyists.

My mirth and fun turned into almost unimaginable dismay when Sunday came, and I very quickly realized that the convention was over with and done. By Sunday afternoon, WHEN THE THREE DAY WEEKEND WAS ONLY HALFWAY OVER, everybody was gone!!!! The words to Peggy Lee's final hit record (*Is That All There Is?*) were running through my mind, as I rather felt that I could have probably done something that was a lot more fulfilling than a nominal three-day convention which in truth included only one full day and one evening with people. However, I continued going to NRC conventions when possible, and I felt a sense of relief when in 2007/Boise there was a small group of us hanging around late into Sunday, and in 2008/Pittsburgh when a considerable group of us watched a spectacular pitching performance by CC Sabathia (and a 7-0 loss for the home team) on the Sunday afternoon.

Forward to the very recent past, in Allentown. I enjoyed the convention and all that but - again - EVERYBODY was gone by Sunday afternoon. Again, when the weekend was only halfway over, everybody was gone. It was at that point that I've finally decided that I may possibly never attend an NRC convention again. I don't say this lightly, because I've long considered the NRC convention to be the MOST IMPORTANT thing that I do in almost any year.

I am finding a growing sense that there are a number of people who would prefer that the Convention happen on a weekend other than Labor Day, but there has almost never been any publicity of that fact. I will include, here, a few reasons why I am more and more feeling that the Labor Day weekend is not only a poor choice for the Convention, but perhaps the worst possible (outside the late-year holidays period, or in winter).

0. TV/FM DX PEAK - the NRC is a BCB club, not a TV/FM club. (However, this would apply during years that the WTFDA convention merges with the NRC convention, such as 2009.) Though the timing is a major factor with me regarding the possibility of missing great DX, I'm not sure it's entirely germane to the timing of a BCB-DX convention. As a result of the NRC this year, and a larger trip that I attached to it, I missed what was probably the last opportunity of my lifetime to see long-haul ANALOG TVDX via Tropo. The U.S. analogs are gone, and the Canadians have only two more years. Nevertheless, it's NOT the fault of the NRC convention that I attached this much larger trip to it, therefore I numbered this as reason #0, or NOT truly a reason, LOL. However, I'll add that often the first week of September or the last week of August has the absolute best Tropo opening of the year in the Great Lakes area.

1. LABOR DAY weekend, in this country, is a MAJOR "family" weekend - and the last fling of summer for most. Don't forget that we live in a country whose workforce has an average of LESS THAN 9 paid vacation days per year, and those weekends which are structured always to be three-day weekends are rare and precious. With family reunions, picnics and outings, final beach trips, etc., a family is NOT very likely to be happy when their final holiday weekend is ruined because "Daddy went off to spend the whole weekend with his friends instead of going with us."

2. Related to #1 above, LABOR DAY weekend is probably the single most predictable set of dates every year, when tourist-friendly festivals, celebrations and events, gatherings, etc. are scheduled.

3. And, anyway, if the convention usually breaks up by Sunday AT NOON OR AFTERNOON anyway, why should a three-day weekend ever be wasted on it? People can leave the Convention by Sunday afternoon ON ANY WEEKEND. So while Labor Day weekend is being used for our conventions, the special character of that weekend is being ENTIRELY IGNORED and even disparaged.

4. Traveling and traffic is at one of the worst peaks on Labor Day weekend. In my efforts to fly to one of the eastern Conventions (Nashua, I think), my flights were delayed about SEVEN HOURS, and all of Friday evening was entirely lost. Hotels and motels en route often hike their rates that weekend and, though 2009 was an exception, the price of gas almost always hits its absolute peak close to Labor Day weekend. Let is not forget that three NRC members were killed in a traffic accident en route to the 1962 Indianapolis Convention.

5. CONVENTION "CLUSTERING" - I've generally been one who tries to attend as many of the major DX conventions as possible. Besides two VERY MINOR DX-related get togethers that I attend

(which are doing really great if they get TEN people to attend!), my only interest is in the following: NRC, WTFDA [sometimes these 2 are merged], IRCA, and the Madison/Milwaukee DX party. IRCA is never scheduled any later than late September. The Wisconsin thing,, after one very successful fling with end-of-July scheduling, is returning to mid-August. WTFDA, when there's a separate convention, is almost always in August. So...there's a very short period of complete and total overkill - in some years these four events have been known to be scheduled BamBamBamBam...and, afterwards, absolutely nothing whatsoever (among the four) for as long as 47 to 50 weeks.

6. ORIGINAL REASON #A: Labor Day weekend was originally set because, for people with families, their children were *NEVER* in school yet. Schools invariably started after Labor Day, except for some colleges and universities, and perhaps private primary schools. Now, with the NRC population of Conventioneers aging, few people in attendance actually have children at home to coordinate school with anymore. And, furthermore, if a DX'er DOES have children at home, their kids are almost certainly in school before Labor Day. (New Jersey, I'm aware, still begins its public schools after Labor Day, but I'm not sure if any other place thus remains.) The advantage of a Labor Day weekend Convention no longer exists for those families that have children at home, and Reason #1 above can still be a huge conflict even if there is no longer a family at home. Furthermore, until a few years ago, NRC Conventions always used to go until Labor Day Monday itself, perhaps because of #7.

7. ORIGINAL REASON #B: On the way east, nearly three weeks before the recent NRC Convention, I looked up and visited Pat Flanagan, who now lives near Syracuse. Only a few NRC'ers will remember him, because his name hasn't been around much in about forty years. HE had to remind me of the primary reason for Labor Day weekend scheduling: THE MONDAY MORNING DXPEDITION!! That distinction is now totally archaic, outdated and obsolete - because the band conditions at 0400 on a Monday morning are IDENTICAL to the band conditions at 2130 on a Wednesday evening, or 0135 on a Saturday morning. Nobody signs off anymore. There are no more DXpeditions at conventions. I remember DXpeditions at conventions where 2,000 mile stuff, and even occasional loggings such as two-time-zones-away graveyarders, were routine.

My summary: I understand that the 2010 Convention may actually be held on a different weekend, for the first time in 36 years. I applaud the proposed host for scheduling in such a sensible way. However, in my case, rescheduling it DOES NOT guarantee that I'm suddenly more likely to attend, because my 2009 trip (on the way to Allentown) caused me to miss perhaps the best Tropo TV Dx opening I have ever missed, in which Jeff Kadet made what I consider to be the best tropo catch in the history of TV DX'ing (931 miles on Channel 2, CBFT, over a terrible and rare path). Labor Day weekend or not, from now on in late summer I'll only attend on no or minimal prior notice. I would actually very much love to see it moved to April or (early) May, but that's probably too much to hope for. Only a radical date revision of that sort will finally result in at least one of the Big Four happening outside of that very tightly-compacted cluster of EVERYTHING which can be as short as 3 or 4 weeks. duration. [Frank has brought up an excellent topic for discussion. If you'd like to add points or comment, please send your thoughts in a form of a Musing to Dave -pls.]

Dave Schmidt - P O Box 126 - New Freedom, PA 17349

It was good to see everyone at thge Allentown gathering over Labor Day weekend even though I had to cut the trip down to one day. As I enter my 45th year of being an NRC'er, I still read *DX News* cover to cover and send along info to Bill Hale who does a great job getting all the FCC info together, which isn't an easy job. After 42 years of being in the radio business in both on air and engineering work, the carpet was pulled out from under me amd my job was done away with at WZBA 100.7 Baltimore after being there for 3 1/2 years, due to the general state of the economy. So at 58 years old, I'm looking for work, and its tough with all the cuts stations/companies have made. I've started an internet station, www.oldiesradio1620.com, on the internet and also on 1620 in New Freedom, PA (Part 15 station) and its actually starting to pick up speed and get some noticing. Don't forget, our deadlines are every Friday. Maybe we'll even get in some listening this year!

The County Cross Reference

What a time-saver! A complete list of counties, parishes, and similar political divisions in the U. S. and Canada. Two lists are included: alpha by county, and by state. Compiled by Bill Hale and designed and produced by Wayne and Joan Heinen. \$8.95 for members, \$11.95, non-member; overseas surface mail, add \$4.00 for first copy; \$.64 for each add'l copy/ For airmail, add \$8.00 for each 3 or fraction of 3. Order "CCR" from NRC Publications - P.O. Box 473251, Aurora CO - 80047-3251. (CO residents, please add 3.5% sales tax.)

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DX News is printed by Benjamin Printing, Inc. - 311 State St. - Watertown, NY 13601

First-Class Mail
U. S. Postage
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