

September 12 2009 - Volume 47, Number 1-2 - Edition 1473-4 - ISSN 899-9733
 This "double issue" combines the first two issues of Volume 47. A family emergency has prevented IRCA's new Editor-in-Chief from editing this issue. Hopefully, these issues will be resolved soon. On with the DX... pb

IRCA Slogan's and IRCA TIS/HAR List Editors Needed
 Anyone interested in taking over either of these positions and preparing a new edition for this fall's DX season, please contact **Phil Bytheway** at the **IRCA Bookstore** (phil_tekno@yahoo.com).

IRCA/DecalcoMania 2009 Convention
 The 2009 **IRCA/DecalcoMania** convention will be held Thu Sept 17, Fri Sept 18 and Sat Sept 19 at the Days Inn, 2120 Menaul Blvd NE, Albuquerque NM 87107 (Near I-40 and Hwy 25) www.midtowndaysinn.com. Guest room rates \$44.95 1 person, \$54.95 2 persons. Free shuttle within 5 mile radius (includes airport and train station.) Phone number for reservations is 505-884-0250 (events manager is Danita) Registration fee is \$25 (not including banquet) payable to Mike Sanburn, PO Box 1256, Bellflower CA 90707-1256. mikesanburn@hotmail.com 73

The tentative convention schedule includes station tours on Friday beginning at 12 noon. A tour of Kkob and all sister stations has been confirmed! On Saturday there may be an impromptu drive out to the Kkob tower site followed by the business meeting and banquet at the Golden Corral (\$10 all you can eat!!). Make your plans now and join in on the fun. The Albuquerque web site is: www.itsatrip.org.

BROADCASTING INFORMATION
Robert Wien - 5975 Nora Point Apt. #102 - Colorado Springs CO 80919-3744
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CALL LETTER CHANGES		NEW CALL	
FREQ	OLD CALL CITY	NEW CALL	
690	KRMX Pueblo, CO	KSJP	
800	KGHT Sheridan, AR	KLRG	
1010	KPCW Tooele, UT	KIHU	
1190	WBLS Bay St Louis, MS	WJZD	
1250	WVKY Nicholasville, KY	WLRT	
1340	WBBL Grand Rapids, MI	WJRW	
1410	new Midlothian, VA	WQOK	
1450	WMAJ State College, PA	WQWK	
1660	WBWX Charlotte, NC	WBCN	

FORMAT CHANGES		NEW INFO	
FREQ	CALL	OLD INFO	
600	WVAR	Richwood, WV	classic hits
690	KSPJ	Pueblo, CO	KRMX, regional Mex
780	KFDR	Dartmouth, NS	country
790	GIGM	Sudbury, ON	country
980	WAZS	Summerville, SC	oldies
1000	WRTG	Garner, NC	regional Mexican
1010	KIHU	Tooele, UT	KPCW, news/talk
1080	WQAP	Owosso, MI	silent
1090	WQAR	Livonia, MI	religious teaching
1120	KLIM	Limon, CO	classic hits
1200	WAGE	Leesburg, VA	talk

1230	KHDN	Hardin, MT	adult contemporary
1230	KZYM	Joplin, MO	sports
1250	WIPS	Ticonderoga, NY	talk
1260	WDKN	Dickson, TN	variety
1280	KWVG	Pearsall, TX	country
1300	WRCR	Spring Valley, NY	silent
1320	KAWC	Yuma, AZ	adult contemporary
1340	new	Vidalia, LA	variety
1340	WJRW	Grand Rapids, MI	format not available
1340	WTRC	Elkhart, IN	talk
1350	KDZA	Pueblo, CO	oldies
1370	KIOL	Iola, KS	oldies "Hippie Radio 1340"
1380	WTOB	Winston-Salem, NC	talk
1390	WRSC	State College, PA	Spanish hits
1400	KGVL	Greenville, TX	talk
1400	WAVQ	Jacksonville, NC	classic country
1420	KPIR	Granbury, TX	black gospel
1420	WLET	Toccoa, GA	country
1470	WWBG	Greensboro, NC	religious teaching
1480	WZJY	Mt. Pleasant, SC	regional Mexican
1490	KWUD	Woodville, TX	talk
1490	WECM	Milton, FL	country
1490	WKDR	Berlin, NH	silent
1500	KUMU	Honolulu, HI	new
1530	WLLQ	Chapel Hill, NC	sports
1530	WTTI	Dalton, GA	regional Mexican
1550	WAZX	Smyrna, GA	southern gospel
1550	WKTF	Vienna, GA	silent
1570	WNSH	New Albany, IN	contemporary Xian
1570	WCNN	East Grand Forks, MN	talk
1590	KQLO	Sun Valley, NV	talk
1600	KNWA	Bellefonte, AR	silent
1600	WDPZ	Dover, DE	southern gospel
1600	WTSZ	Eminence, KY	gospel music
			religious teaching

FACILITY AND PARAMETER APPLICATIONS AND GRANTS	
(A) = application, (G) = grant	
8000/500	DA-2 to 10000/500 DA-2 (A)
500/243	ND to 1000/1000 DA-2 (A)
2500/220	DA-2 to 10000/250 DA-2 (A)
5000/500	DA-2 to 3800 DA-D (G)
10000/143	to 2500/19 ND (G)
5000/450	DA-2 to 12000/450 DA-2 (G)
5000/79	ND to 5000/320 DA-N
1000/500	DA-2 to 500/500 DA-2 (A)
7500/460	DA-2 to 50000/25000 DA-2 (G)
10000/10000	ND to 50000/2000 ND (G)
50000/300	DA-3 to 15000/260 DA-3 (A)
1000/250	DA-N to 5000/210 DA-N (G)
5000	DA-D to 50000 DA-D (A)
2500/390	DA-N to 10000/390 DA-2 (A)
1100/103	ND to 5000/103 ND (G)
1000/160	ND to 10000/190 ND (A)
25000/43	DA-2 to 20000/50 DA-2 (A)
50000/1000	DA-2 to 500000/4100 DA-2 (A)
1000	ND-D to 100000/200 DA-3 (A)
5000/29	ND to 50000/27 ND (A)
50000/50000	DA-1 to 50000/50000 DA-2 (A)
5000	ND-D to 50000/1500 DA-N (G)
1000/1000	DA-2 to 50000/1000 DA-2 (A)
50000/25000	DA-2 to 500000/16000 DA-2 (A)
50000/24000	DA-2 to 500000/20000 DA-2 (A)
50000/5000	DA-N to 50000/15000 DA-N (G)
1000/47	ND to 250 ND (A)
1000/12	ND to 50000/740 DA-2 (G)
10000	DA-D to 10000 DA-2 (G)
25000/1000	DA-N to 40000/1000 DA-N (G)
250/70	ND to 500/500 DA-3 (A)
50000/2000	DA-2 to 500000/2400 DA-2 (G)
1000/1000	DA-1 to 12000/51 DA-2 (G)

NOTE: I'VE COMBINED THE FACILITY AND PARAMETER APPLICATIONS AND GRANTS INTO ONE SECTION EFFECTIVE THIS ISSUE FOR EASE OF TYPING THE COLUMN. NOTE NEW KEY LEGEND BELOW.

920	WJRA	Quantico, VA	2000/970 DA-2 to 7000/970 DA-2 (A)	KRKO	Everett, WA	34000/50000 DA-N to 50000/50000 DA-N (A)
930	WEZZ	Monroeville, AL	5000 ND-D to 450 ND (A)	WAGS	Bishopville, SC	1000/67 ND to 5000/38 ND (G)
940	KDIL	Dillon, MT	10000/350 DA-2 to 1000/250 DA-2 (G)	WFNW	Naugatuck, CT	5000/500 DA-2 to 3500/350 DA-2 (G)
940	KICE	Bend, OR	10000/60 DA-2 to 10000/95 DA-2 (G)	WGVY	Greenville, AL	1000/89 to 500 DA-2 (G)
940	WCSY	South Haven, MI	1000/5 DA-2 to 300 DA-D (G)	WMJR	Nicholasville, KY	5000/38 ND to 10000/38 ND (A)
950	WPEN	Philadelphia, PA	25000/21000 DA-N to 43000/21000 DA-2 (G)	WBLL	Bellefontaine, OH	500/81 ND to 500 ND-D (A)
960	WFOR	Provo, UT	5000/1000 DA-N to 50000/940 (G)	WISK	Americus, GA	1000 ND-D to 950/25 ND (G)
960	KVRO	Roanoke, VA	5000/5000 DA-N to 10000/4800 DA-N (G)	KRVZ	Springerville, AZ	1000/1000 ND to 10000/22 ND (A) (10000?-ye ed)
960	WSVU	North Palm Beach, FL	1200/1400 DA-2 to 2400/1400 DA-2 (G)	WEGO	Concord, NC	1000/182 ND to 1000/68 ND
970	KFEL	Pueblo, CO	3200/180 ND to 15000 DA-D (G)	KJLD	Lubbock, TX	500/500 DA-N to 500/140 ND (G)
970	KHVN	Ft. Worth, TX	1000/270 ND to 600/245 ND (A)	WATB	Decatur, GA	1000/51 DA-2 to 50000/174 DA-2 Z(G)
980	KGLN	Glenwood Springs, CO	1000/225 ND to 2000/225 ND (G)	KFIG	Fresno, CA	5000/5000 DA-1 to 5000/5000 DA-2 (G)
980	WJKY	Chase City, VA	500 ND-D to 1000/26 ND (G)	KFOG	Ogden, UT	1000/5000 DA-2 to 25000/5000 DA-2 (G)
990	WLEE	Richmond, VA	1000/13 ND to 4000/2000 DA-2 (G)	WEEF	Highland Park, IL	1000/29 DA-2 to 1000/230 DA-2 (A)
1010	KIHU	Tooele, UT	50000/194 DA-2 to 50000/225 DA-2 (A)	WHAN	Ashland, VA	1000/31 ND to 50000 DA-D (G)
1010	WFGW	Black Mountain, NC	50000/500 DA-1 to 47000/90 ND (A)	WBYN	Babylon, NY	1000/38 ND to 1000/189 DA-N (G)
1010	WOLB	Baltimore, MD	250/30 ND to 1000/30 ND (A)	KGFF	Shawnee, OK	1000/1000 ND to 560/1000 ND (G)
1030	KVOI	Cortaro, AZ	10000/1000 DA-2 to 10000/1800 DA-2 (A)	KOBO	Yuba City, CA	500/1000 ND to 160/500 ND (G)
1040	WZNA	Moca, PR	5000/245 DA-D to 9000/250 DA-2 (A)	KBRZ	Missouri City, TX	5000/125 ND to 10000 DA-D (A)
1050	KTCT	San Mateo, CA	50000/1000 DA-2 to 50000/50000 DA-2 (A)	KHOJ	St Charles, MO	5000/85 DA-D to 5000/35 DA-2 (G)
1050	WFSC	Franklin, NC	1000/163 ND to 5000/153 ND (A)	WBUC	Buckhannon, WV	5000/25 ND to 5500/24 ND (A)
1050	WJOK	Kaukauna, WI	1000/500 DA-1 to 5000/1000 DA-2 (G)	WJTI	Racine, WI	500/62 ND to 1000/240 DA-2 (G)
1050	WZAA	Silver Spring, MD	3500/44 ND to 10000/44 ND (G)	WPON	Walled Lake, MI	1000/760 DA-2 to 670/175 DA-2 (G)
1080	KGTV	Green Valley, AZ	1000 ND-D to 1400 ND-D (G)	WQXM	Bartow, FL	1000/155 ND to 10000/155 DA-D (A)
1080	WHOO	Kissimmee, FL	19000/190 DA-2 to 27000/2000 DA-3 (A)	KFMZ	Broomfield, MO	500/20 DA-1 to 5000/50 DA-2 (G)
1080	WOAP	Owosso, MI	1000 ND-D to 50000/4500 DA-2 (G)	WMGG	Dunedin, FL	5000/500 ND to 3600/800 DA-2 (G)
1090	KUCU	Farrington, NM	1500/250 DA-2 to 10000/250 DA-2 (G)	WNAU	New Albany, MS	2500/500 ND to 2500/58 ND (G)
1110	KJSA	Mineral Wells, TX	2000 DA-D to 50000 DA-2 (G)	WRWB	Huntington, WV	5000/72 ND to 22000/9 ND (G)
1110	WOMN	Franklinton, LA	1000 ND-D to 50000/250 DA-3 (G)	WSPY	Geneva, IL	1000/500 DA-2 to 400/300 DA-2 (A)
1120	KANN	Roy, UT	10000/900 DA-2 to 10000/1100 DA-2 (G)	KGBA	Heber, CA	500/500 ND to 1000/1000 ND (A)
1120	KTXX	Manor, TX	250/153 DA-2 to 430/153 DA-2 (A)	KGA	Spokane, WA	50000/50000 DA-2 to 15000 DA-2 (G)
1130	WEAF	Camden, SC	5000/7 ND to 1000/9 ND (G)	KSPA	Ontario, CA	10000/1000 DA-2 to 50000/6000 DA-3 (A)
1140	KCXL	Liberty, MO	500/5 ND to 4000/6 ND (A)	WBSS	Lajas, PR	1000/1000 DA-1 to 1000/1000 DA-2 (G)
1140	KHFX	Cleburne, TX	5000/710 DA-2 to 25000/710 DA-2 (A)	new	Savannah, GA	50000/700 DA-2 to 50000/780 DA-3 (G)
1150	KCKY	Coolidge, AZ	5000/1000 DA-2 to 5000/185 DA-2 (G)	WEXY	Willton Manors, FL	3500/250 DA-N to 5000/800 DA-N (G)
1150	WDEL	Wilmington, DE	5000/5000 DA-2 to 10000/5000 DA-2 (G)	WMBE	Chilton, WI	250 ND-D to 4500 ND-D (G)
1150	WSNW	Seneca, SC	1000/58 ND to 370/58 ND (A)	WRPM	Poplarville, MS	10000 ND-D to 5000 DA-2 (G)
1160	WGFO	East Point, GA	50000/160 DA-2 to 50000/138 DA-D (G)	KGBC	Galveston, TX	2500/250 DA-2 to 5000/187 DA-N (A)
1160	WCXI	Fenton, MI	1000/1000 DA-1 to 15000/1000 DA-2 (A)	WGRK	Greensburg, KY	1000 ND-D to 3500 ND (A)
1170	WPLX	Hermitown, TN	1000/159 DA-2 to 10000/26 DA-3 (G)	WSIV	East Syracuse, NY	50000/10000 DA-2 to 50000/50000 DA-2 (A)
1180	KORL	Honolulu, HI	1000/1000 ND to 330/140 ND (G)	KRPI	Ferndale, WA	250/26 ND to 1400/24 DA-D (G)
1190	KNJUV	Tollson, AZ	5000/250 DA-2 to 400 (G)	KWBC	Navasota, TX	50000/500 DA-2 to 50000/16 DA-D (G)
1190	KREB	Bentonville, AR	5000 ND-D to 5000/14 ND (G)	WAZX	Smyrna, GA	50000/500 DA-2 to 50000/16 DA-D (G)
1190	KRFT	De Soto, MO	10000/22 DA-2 to 10000/6500 DA-2 (G)	WCVL	Crawfordsville, IN	250/250 DA-N to 250/5 ND (G)
1190	new	Pine Bluff, AR	10000/350 DA-N to 25000/350 DA-2 (A)	WFTD	Reserve Township, PA	2000/12 DA-2 to 4000/12 DA-2 (G)
1200	WRTO	Chicago, IL	10000/1000 DA-2 to 20000/4500 DA-2 (G)	WFPZ	Clarksville, TN	2500/10 ND to 2000 ND-D (G)
1210	KEBR	Rocklin, CA	5000/500 DA-D to 5000/1800 DA-2 (A)	KGOW	Bellaire, TX	50000/15000 DA-2 to 50000/15000 DA-N (A)
1210	KQEQ	Fowler, CA	370/370 ND to 5000 DA-D (A)	KKAA	Aberdeen, SC	10000/5000 DA-2 to 10000/10000 DA-2 (G)
1210	WDGR	Dahlonaga, GA	10000 ND-D to 10000 ND (A)	KLTI	Macon, MO	1000 ND to 1500/44 DA-2 (G)
1220	WSRQ	Sarasota, FL	1000/159 DA-2 to 10000/39 DA-2 (G)	WTOO	Toledo, OH	5000 DA-D to 43000/2 DA-3 (G)
1230	KYPA	Los Angeles, CA	1000/1000 ND to 1000/1000 DA-2 (G)	WFTU	Riverhead, NY	5000/500 DA-2 to 5000/1500 DA-2 (G)
1250	KBSZ	Wickenburg, AZ	350/100 to 320/50 ND (G)	WNKX	Centerville, TN	5000/77 ND to 1000/66 ND (A)
1260	KIMB	Kimball, NE	1000/112 ND to 50000/110 DA-D (G)	WTLK	Taylorsville, NC	1000/244 ND to 900/198 ND (A)
1260	KWFA	Tye, TX	5000/370 DA-2 to 50000/650 DA-2 (G)	WANB	Waynesburg, PA	720 ND-D to 5000 ND (G)
1260	WSDZ	Belleville, IL	5000/5000 DA-2 to 20000/5000 DA-2 (G)	KEAS	Eastland, TX	500 ND-D to 1000 ND-D (A)
1270	WXGO	Madison, IN	1000/58 DA-2 to 330 DA-D (G)	WABV	Abbeville, SC	1000/26 ND to 14000 DA-D (A)
1280	KZNS	Salt Lake City, UT	50000/670 DA-2 to 50000/725 DA-2 (A)	WGBW	Two Rivers, WI	1000/33 ND to 10000/200 DA-2 (G)
1280	WWPG	Tuscaloosa, AL	5000/500 DA-N to 7000/25 ND (G)	KLEB	Golden MeADOW, LA	50000/250 DA-2 to 7500/250 DA-2 (A)
1290	WCHK	Canton, GA	6000/17 ND to 10000/17 ND (G)	new	Dalhart, TX	30000/500 DA-N to 2500/270 DA-2 (A)
1310	WOWZ	Appomattox, VA	15000/7500 DA-2 to 50000/7500 DA-2 (G)	WLAA	Winter Garden, FL	2200/35 ND to 4000 DA-D (G)
1310	WGUS	Marion, AL	5000/34 ND to 1100/16 ND (G)	new	new	new
1320	KSCR	Eugene, OR	1000/40 ND to 600/40 ND (A)	new	new	new
1320	KSDT	Hemet, CA	500/300 DA-2 to 230/285 DA-2 (A)	new	new	new
1330	KCKM	Monahans, TX	5000/1000 DA-N to 12000 ND-D (A)	new	new	new
1330	WKTA	Evanston, IL	5000/17 DA-D to 5000/1100 DA-2 (G)	new	new	new
1340	WNBS	Murray, KY	1000/1000 ND to 800/800 ND (G)	new	new	new
1340	WYBC	New Haven, CT	1000/1000 ND to 1000/880 ND (A)	new	new	new
1350	KTIK	Nampa, ID	5000/600 DA-N to 25000/600 DA-N (G)	new	new	new
1360	WKAT	Ruidoso, NM	5000/201 ND to 9000/201 ND (G)	new	new	new
1360	WBYN	North Miami, FL	5000/1000 ND to 50000/5000 DA-2 (G)	new	new	new
1360	WWNY	McKeesport, PA	5000/1000 DA-N to 7000 DA-D (G)	new	new	new
1360	WWWJ	Galax, VA	5000/31 ND to 22000/1400 DA-3 (A)	new	new	new
1370	KGEN	Sanger, CA	710/72 to 3800/102 DA-D (G)	new	new	new
1380	KOSS	Lancaster, CA	1000/20 DA-D to 1000/11 DA-2 (G)	new	new	new
1380	KRCM	Baumont, TX	1000/127 DA-1 to 250/69 ND (G)	new	new	new

PUBLIC LISTINGS COURTESY OF THERADIOJOURNAL.COM AND 100000WATTS.COM:

- 690: KNKN 106.9 and KRMX 690 Pueblo CO go silent pending sale; they're changing calls to KIQN and KSPJ, respectively. (Note: station still silent as of 8/22/09, semi-local here-ye ed).
- 780: CFLT 92.9 Dartmouth/Halifax NS signs on with soft AC as "Lite FM," replacing now-silent CFDR 780.
- 950: WNTD 950 Chicago IL adds jazz at night as "Avenue 950."
- 980/1480: WAZS 980 Summerville/Charleston SC drops oldies "Rocket 980" to simulcast Spanish top 40 "El Sol" WAZS-FM 98.9 McClintonville SC. The "El Sol" simulcast also replaces talk/sports on WZJY 1480 Mt. Pleasant SC.
- 1390: WRSC 1390 State College PA flips from news-talk (now heard on sister station WRSC-FM 103.1) to progressive talk, retaining a simulcast of the FM station's morning show.
- 1490: WKDR 1490 Berlin NH signs on as "Kiss 102.3," simulcasting sister station WXXS 102.3 Lancaster NH.
- 1570: WNDA 1570 New Albany IN flips from sports "Indiana 1570" to oldies "Kool 1570," simulcasting with WT SZ 1600 Eminence KY.
- 1660: WFNA 1660 Charlotte NC changes calls to WBMX, parking those calls in advance of the move of WBMX (now WBIMX-FM) 98.5 Boston to the soon-to-be-former WBCN 104.1 Boston.

INDIVIDUAL MEMBER AND CONTRIBUTOR LISTINGS:

Dale Park sends along the following from the Halifax, NS (Canada) Metro News dated 7/29/09:
Happy trails to Halifax's last AM radio station, ALY THOMSON, METRO HALIFAX.

Tones of dismay and disbelief radiated through Frank Lowe's voice yesterday as he signed off from Halifax's last AM radio station – 780 KIXX Classic Country. The station's airwaves fell silent at 10 am. "This is a tough day," the station's longtime music director told Metro Halifax as he arrived back at his Beaverbank home later in the day. NewCap Radio, which owned AM 780 CFDR/KIXX Country, recently sold the 46-year-old station to Rogers Communications, which is planning to turn the station to FM. Lowe said the switch from AM to FM radio has been "an ongoing process. (FM radio) sounds so much better." Lowe confessed, "and everything has to be better nowadays." Ted Hyland, general manager of NewCap Radio, suspects AM radio will go off the air everywhere – eventually. But there's no telling how long that could take. Hyland said he thinks the new FM station for Rogers will play light rock music. It is an evolution, a sign of the times," Hyland said. KIXX is the third AM station in Halifax to bite the dust in three years. In July of 2006, AM 960 CHNS switched to the FM dial and became 89.9 Hal FM. And last year, AM 920 CJCH went full throttle into the mainstream music scene and became 101.3 The Bounce on May 30. Hyland said more companies are switching to FM radio because it costs less to operate and the signal is clearer. An emotional Lowe showered the airwaves with "thank you's" during his last moments on air. "It's like saying goodbye to your family," Lowe told Metro, speaking through a subtle sob. Many last minute callers praised the station and Lowe's contributions. "You're a big part of everyone's day and I know they're a big part of yours," said Lowe's daughter Amy, in the station's last few minutes of air time. One minute before the airwaves fell flat, a classic country tune wished fans and staff of KIXX, "happy trails to you until we meet again." (DP-HI)

(Note: Dale also sent an article from the South Bend, IN paper concerning a man attempting to commit suicide off the WSBT-960 tower, but the article was no longer available, dated 7/29/09).

Pat Martin sends along the following from Deane McIntyre of Calgary, AB dated 7/29/09:
CJOY-1460 Guelph ON has applied to the CRTC to move to FM (95.7 MHz, 9.5 kW, 53.7 metres). I suspect that the reason that CJOY did not apply to move to FM some years ago is that until recently the CRTC did not allow a true oldies station to operate on FM, as the amount of hits from before 1981 that could be broadcast as limited to no more than 50%. This rule is still in effect in French language markets however. <http://www.crtc.gc.ca/eng/archiv/2009/2009-461.htm#21>

21. Guelph, Ontario, Application No. 2009-0766-0.
Application by 591989 BC Ltd. to convert the English-language commercial radio station CJOY Guelph from the AM band to the FM band. The new station would operate on frequency 95.7 MHz (channel 239B) with an average effective radiated power (ERP) of 9,500 watts (maximum effective ERP radiated power of 30,000 watts with an effective height of antenna above average terrain of 53.7 metres). The applicant proposes to maintain CJOY's current Oldies music format on the proposed FM station. The applicant is also requesting approval to operate under the condition of licence set out in Broadcasting Decision 2006-398 allowing it to broadcast a minimum level of 30% Canadian content in any broadcast week where at least 90% of musical selections from content category 2 that it broadcasts are selections released before 1 January 1981. The applicant is requesting permission to simulcast the programming of the new FM station on CJOY for a period of three months from the date of implementation of the new FM station. The applicant is also requesting, pursuant to sections 9(1)(e) and 24 (1) of the Broadcasting Act, the revocation of the licence of CJOY effective at the end of the simulcast period. (PM-OR)

Dale Park sends along the following from the Salt Lake City, UT Deseret-News dated 7/31/09:
Take a tour of towers and stations, By Lynn Arave, Deseret News.

Where does your radio signal come from? What do the studios of your favorite radio station look like? A portion of Scott Fybush's Web site is devoted to radio tower and studio tours across the nation, including the Wasatch Front. Log on to www.fybush.com and click on "site of the week archives" to see the Utah portion. Even if you're not into this behind-the-scenes kind of radio, the photographs are worth viewing. When radio buffs visited the Wasatch Front area last summer, they found the AM towers for KOVO, KSRR, KOGN, KSVN, KANN, KLO and others. As far as stations go, they seemed most impressed with KSOP, which they said is among the rarest of breeds these days – an independently owned station that is still thriving. They even checked out local TV station studios as well as radio studios in Park City and Evanston WY. There's also a "Tower Site Calendar," which sells for \$60. (DP-HI)

John Johnson sends along the following from Radio Online dated 8/3/09:
CCR Moves KNRS-AM/Salt Lake City to 105.7 FM.

Clear Channel moves KNRS-AM/Salt Lake City and its News/Talk programming to 105.7 FM, at what it calls the best FM signals in Utah, broadcasting in HD from Farnsworth Peak. The move replaces Spanish AC "La Preciosa." The AM and FM outlets will simulcast before a new format debuts at 570 AM. Meanwhile, KTMV, which flipped from Country to Spanish earlier this year, will move to 105.9. No programming changes are being made. Bob Lonsberry, Glenn Beck, Rush Limbaugh, Dr. Laura, Dave Ramsey, George Noory, all weekend talk shows – plus Fox News, local news, traffic and weather – will continue to be heard on 105.7 FM. (08-03-09) (JJ-MT)

Dale Park sends along the following from **Omaha.com** (Omaha, NE World Herald) dated 8/3/09:
Omaha gets urban talk radio station, By Wes Taylor, WORLD-HERALD STAFF WRITER.

A new voice can be heard in north Omaha. WONE 1710 AM hit the air this week. "The One" is a black-owned local radio station with an urban talk and news format. The station's goal is to be community-based, allowing people to share their thoughts, talents and opinions. "There's a Bible verse, I think Hosea 4:6, that says, 'My people are destroyed for lack of knowledge,'" said the station's founder and owner, William King. "I think this station can help to change that here in Omaha." Although the station currently has a limited transmission range, from about 48th to 78th Streets and Sorensen Parkway to the Northwest Radial, King said that within two to four weeks coverage will reach all of north Omaha, midtown and downtown. King said he welcomes contributions from all community members, whether they are former engineers who can help with station logistics or musicians who hope to find an audience. "Omaha does have a voice, and we're trying

to build that voice, and we need everyone's help to do it," King said He can be reached at 402-714-6482. Contact the writer: 444-1339, wesley.taylor@owh.com. (DP-HI)

Dale Park sends along the following from the Loudoun Times-Mirror (Loudoun County VA) dated 8/4/09:
Local radio station goes silent, By Holly Hobbs, Source: Loudoun Times-Mirror.

Financial struggles have claimed another media outlet in Loudoun. WAGE 1200 AM radio suspended operations Aug 2. Listeners who turn their dials to the station now hear static instead of sports, news and talk radio. In addition, the station's Web site, www.wage.com, has ceased operations. "We just don't have any income," said Alan Pendleton, vice president of New World Radio, a company that bought WAGE in 2005. "We weren't selling any advertisements. So, we were just paying big electric bills." The radio station's silence is not permanent, he said, adding that WAGE should be back on the air within the first few months of 2010. WAGE first aired in 1958. On top of the station's financial woes, plans to up its 5,000-watt signal to 50,000 watts have taken longer than expected, Pendleton said. He blamed the delays on the Federal Communications Commission and government land-use permits. "In WAGE's case...you're in an area that's over-shadowed by a major metro area," Pendleton said. The signal upgrade would have helped the station compete with the larger Washington, D.C.-based stations and retain listeners, many of whom commute to the city to work, Pendleton said. New World Radio is continuing to work on the upgrade, he said. "What they did is what's called going dark in the radio vernacular." Longtime WAGE radio personality Paul Draisney said, "Radio stations like WAGE are a dying breed." Draisney, once known as the "voice of Loudoun County," was the morning newsmen and disc jockey. "The morning show was live. It wasn't uncommon to have the board chairman or sheriff show up, you know, for coffee," he said, referring to the station as the county's electronic general store. "I still think there's a market for local [radio]." Loudoun residents, Draisney said, want to know what's going on in the county. "Who won my kids' game last night? What are they doing with the water rates? Who won the election... people care about that," he said. WAGE's financial struggles join those of other media outlets in the county. On July 22, the Loudoun Easterner, a weekly newspaper, stopped printing. In April, American Community Newspapers, the parent company of Leesburg Today, filed for Chapter 11 bankruptcy. The parent company has since filed for Chapter 7 status. Purcellville-based Blue Ridge Leader ceased its operations the same month. In February 2008, the Loudoun Independent filed for bankruptcy before Dulles-based tech firm MC Dean took over operations. (DP-HI)

Dale Park sends along the following from **knoxnews.com** (Knoxville, TN) dated 8/5/09:
Oak Ridge's WATO Radio soon back on the air, By Bob Fowler.

OAK RIDGE – Just retired from accounting, Ann C. Walden is starting a second career by resurrecting an Oak Ridge institution. Walden is the new president of WATO Radio, which many thought was gone for good when it signed off the air in March 2008 after a 60-year run. A windstorm had toppled one of three towers at its location in east Oak Ridge then, and owner Home Radio shut the station down. "When the tower fell, I thought there was no way Oak Ridge was going to have a community radio station again," said David Clary. Known as the "Voice of the Wildcats," Clary had broadcast Oak Ridge High School sports events over WATO for years. Weeks before the FCC license was to be pulled, Walden she said purchased it from owner Doug Horne "at a pretty reasonable value." "It's almost like a miracle that she actually decided to buy it and save it," Clary said. "This is a really huge jump for me." Walden said. It comes after a 32-year career in accounting at the three Department of Energy facilities in Oak Ridge. The station is scheduled to go back on the air later this month from an office in the middle of town from local radio pioneer Johnny Pirkle. "He's sort of like the transmission tower in the middle of town from local radio pioneer Johnny Pirkle. He's sort of like the godfather of radio in East Tennessee," she said. A test run is planned Aug. 14 to broadcast a high school football jamboree, and the station will go on the air around the clock starting Aug. 26, Walden said. Walden said the station, AM 1290 and FM 101.1, will have a listening area that includes all of Oak Ridge as well as Farraquitt, Karns, Powell, Lake City and Loudoun County. It will have a talk-radio format with conservative leanings, Walden said. Its logo: "The Atomic Talker." One commentator, Clinton attorney Phil Harber, touts himself as "somewhere to the far right of the late President Reagan and the late Senator Barry Goldwater." Other programs, from call-ins with a teen theme to a talk show featuring a psychic, are also planned. Walden said she plans to be the commentator for a three-hour, early-morning show on weekdays that will include discussions of natural health care. The broadcasts will also be simulcast on the Internet at www.sheepdogbroadcasting.com. Walden said she picked that name for her company because that breed of canine "protects the sheep from the wolves." Walden said she hopes "we can use the radio as a tool to effect positive change for people." Bob Fowler, News Sentinel Anderson County editor, may be reached at 865-481-3625. (DP-HI)

Eric Buenuman sends along the following dated 8/7/09:

I'm listening to WGNU 920 Granite City, IL right now (1745 ELT August 7), and listening to an R&B Oldies show with Doug Eason (former program director at WESL 1490 East St Louis IL). This is apparently in addition to the Contemporary Christian and Urban Gospel music blocks they've been running since the station changed ownership in 2007. (EB-MO)

Dale Park sends along the following from **Al.com** (Birmingham, AL News) dated 8/7/09:
Radio station WERC-AM in Birmingham now airing on FM frequency.

Rush Limbaugh fans may now get their daily dose of Rush on FM, too, as Birmingham news-talk radio station WERC-AM 960 is now also airing on FM. WERC began broadcasting on both the AM and FM frequencies Sunday night, Paul Cashin, the station's program director, said Monday. On the FM dial, WERC may be heard on the 105.5 FM frequency that was previously home to rock station The Vulcan, which is now off the air. Clear Channel Communications, which owns WERC, made the move to strengthen the station's coverage area, Cashin said. "A number of our business partners (advertisers) requested we switch to FM," Cashin said. "They, along with listeners, who depending on where they live in town, and particularly those in office buildings, wanted a better signal for our programming." In addition to nationally syndicated shows

hosted by Limbaugh, Glenn Beck and Clark Howard, WERC is home to the locally produced "Steve & Leah in the Morning" with Steve Shannon and Leah Brandon. It was recently named the state's best large-market talk show by the Alabama Broadcasters Association. Bob Carlton. (DP-H)

Dale Park sends along the following from stjoenews.net (St Joseph MO) dated 8/14/09:

Local radio station to switch to all-sports format, by Scott Pummel.
Last year, local sports fans couldn't even listen to the University of Missouri football games on the radio. This year, they're going to get a wealth of local sports on the radio, thanks to a decision by Eagle Communications, which plans to merge ESPN and St Joseph sports. The broadcasting company is shifting the format of KSFT 1550 AM from 1960s and 70s "gold" music to all-sports. The change is planned for Aug. 25. "It's a great market to be able to explore the local sports programming and be able to put our stamp on what they're doing," said Dave Riggert, who joins the reformatted station as sports director. "I think it's going go over really well." Daytime hours will include ESPN's popular lineup, such as "Mike & Mike in the Morning," "The Herd with Colin Cowherd" and "The Scott Van Pelt Show." But plans also are to amplify local content significantly. The station expects to broadcast a high school "game of the week," focusing on the five St Joseph high schools and Savannah. Riggert also said he plans a Saturday morning coaches' show as well as an hour-long weekday call-in program featuring local high schools, colleges and Big 12 teams. "This decision has been driven mostly by the fact that there is no local station covering local sports," said Gary Exline, Eagle general manager. "We hope to fill that void." The other significant factor, Exline said, is the Kansas City Chiefs' decision to move their summer training camp to Missouri Western. The Chiefs will spend about three weeks in August next year practicing on the Western campus. "The camp next summer drove part of this decision," Exline said. "We felt we needed to have a station devoted day-to-day at that camp." Riggert is new to Eagle Communications. He's been at Salina Media Group in Salina, Kan., for nine years and is a graduate of the University of Nebraska. He was the sports director at Salina. "The format of all sports," Riggert said, "that's exciting for me, and I think it's a great opportunity." (DP-H)

Tim Noonan sends along his monthly list of FCC call changes dated 8/14/09. Thanks, Tim! (TN-WI)

Dale Park sends along the following from the Salt Lake City, UT Deseret-News dated 8/22/09:

KNRS will soon be heard exclusively on 105.7. By Lynn Arave, Deseret News.
KNRS (AM-570) is now simulcasting at FM-105.7. But within 45 days, the station will be heard exclusively on 105.7 FM, and a new radio station will debut on AM-570. The simulcast began Aug. 3. It aims to provide KNRS listeners with a higher-quality sound and a much stronger signal, reaching more listeners along the Wasatch Front. The FM-105.7 signal is among the best FM signals in Utah, broadcasting in HD from Farnsworth Peak. This FM-105.7 signal can be heard from Brigham City to Santaquin, from the West Desert to the Uinta Mountains. Also, the more powerful 105.7 FM signal penetrates buildings better than an AM signal, allowing better listening for office workers. FM-105.7 used to be KTMY, a Clear Channel station with a Spanish music format that no longer exists. FM-105.7 has a stormy history. From 2001-07, the frequency was KCPX, featuring rock music. From 2004-07, it was KXRV "The River," with album adult alternative music. Next up was country music with "My Country 105.7" (sans DJs), "La Preciosa 105.7," the Spanish format of adult hits, came along on Jan. 30, 2009. Putting KNRS on the FM dial, where more than 80 percent of radio listeners go, will undoubtedly bring more listeners to the station. I estimate about 1 percent or more. A decade ago, a 1 percent increase wouldn't be a big deal, but today, tenths of a percent separate some stations in the ratings. Bob Lonsberry, Glenn Beck, Rush Limbaugh, Dr. Laura, Dave Ramsey, George Noory, all weekend talk shows — plus Fox News, local news, traffic and weather — will continue. The first clue of the simulcast came on July 27, when Clear Channel, owner of KNRS, registered the Internet domain name of "1057knrs.com." (DP-H)

John Johnson sends along the following dated 8/23/09 (source unknown):

Utah's first Catholic radio station goes on air.
WEST VALLEY CITY — There's a new radio station in town and it's geared toward the Catholic community. With a flip of the switch, Bishop John Wester of the Salt Lake City Diocese turned on Utah's first Catholic radio station, which goes by the call letters KHU. Immaculate Heart Radio will broadcast 24 hours a day on AM 1010 from a station at 6173 W. 2100 South in West Valley City. It's part of a network of 22 stations and translators in the Western states. Owners say they hope it will help Catholics better understand their faith and learn how to share it with others. (JJ-MT)

Contributors:

Eric Buoneman, Hazelwood, MO (EB-MO)
John Johnson, Billings, MT (JJ-MT)
Pat Martin, Seaside, OR (PM-OR)
Tim Noonan, Oak Creek, WI (TN-WI)
Dale Park, Honolulu, HI (DP-HI)

Date of Column: 8/23/09. Just 24 days till the IRCA convention, I'm ready to head there, have lots of auction items. We also have several station tours planned, and xmtr tours. Plus the banquet at the Golden Corral Buffet on the west side of Albuquerque, and lots of auction goodies. If you haven't made reservations yet, do so soon! Mike Sanburn and I both hit the big 49 recently, mine on August 5th, his August 15th, one year till the dreaded 50... See you in Albuquerque! Also we've bought a new house in Colorado Springs on NE side of town, it will be custom-built and finished sometime between Dec 09 and Mar 10, so will be in this apartment until then, when I know new address I will let you know in the column. 73's.

WESTERN DX ROUNDUP

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

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WDXR DEADLINES: Sept 25, Oct 2, Oct 9, Oct 16, Oct 23. Please use Eastern Time.

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(5P-H12) DXing at Koko Marina Center, East Honolulu with Honda car radio
(5P-H13) DXing at Kawaikui Beach Park, East Honolulu with Honda car radio
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Realistic DX-440 barefoot

570 KNRS UT, Salt Lake City 7/27 0000 KNRS ID under KVI, New, (AB-ID)
580 KMJ CA, Fresno 8/24 0020 "Sunday Night With Bill Cunningham" from WLW-700 in progress, promo for half-off gift certificates available from stn website KMJ580.com. Fair. QRM from KSSK-590. (5P-H11)
600 CJWW SK, Saskatoon 7/30 0129 C&W music, CJWW ID at 0131. Poor. (AB-ID)
610 KONA WA, Kennewick 8/22 2355 ad for county fair, ID, Coast to Coast show. Weak with unID Spanish and C&W oldies over/under, on Hammarlund with Sanserino loop. (GH-OR)
620 KPOJ OR, Portland 8/24 0108 Air America Radio's "Best of Nicole Sandler", confirmed by checking stn webstream via iheartradio.com app on my smartphone. Poor, ripply fading, very weak KHNU-HI underneath. (5P-H12)
630 KPLY NV, Reno 9/1 0048 KPLY ID, New. (AB-ID)
750 KFQD AK, Anchorage 8/29 0430 nice and dominant over KXL with "Newstalk 7-50 KFQD" ID. (PM-OR)
750 KHWG NV, Fallon a new catch on 8/1 at 1001 with semi-local KERR nulled. Man gave dual ID for an FM station and KHWG-AM, "Together bringing you great, classic country music, 24 hours a day." KERR did reduce power at first of month but evidently KHWG did not. (LG-MT)
790 KGHL MT, Billings 7/28 0252 many ads, "Mighty 7-90 KGHL" slogan at 0256. Good over KABC and KSPD. (AB-ID)
KJRB WA, Spokane, WA 8/24 2300 KJRB ID followed by news. Fair under KSPD. New. (AB-ID)
800 CHAB SK, Moose Jaw 7/31 0040 "800 CHAB" into unID vocal tune. Poor. (AB-ID)
810 KSWW NM, Santa Fe 7/23 0510 went on day power early poking KGO. Station ID at 0516. Station was a mixed variety format of oldies, country, Spanish, etc. (MR-UT)
830 KFLT AZ, Tucson 7/30-7/31 on day power all night burying WCCO. (MR-UT)
KNCO CA, Grass Valley 8/10 2330 ID and news. George Noory show. Somewhat scratchy but totally alone with no CKKY on R-390A and Sanserino loop. (GH-OR)
840 KXNT NV, North Las Vegas 8/11 2330 "News Radio KXNT" ID followed by several ads. Good. (AB-ID)
860 XEMO BCN, Tijuana 8/30 0335 noted in passing with romantica music atop KTRB-CA. Fair to poor. (5P-H13)
870 KFLD WA, Pasco 8/25 0008 "Newstalk 8-70 KFLD" slogan. (AB-ID)
920 KVEL UT, Vernal 8/25 0031 gent with "AM 9-20 KVEL," local ads. Good. (AB-ID)
930 KSEI ID, Pocatello 8/14 0000 ESPN sports talk. Fair to poor with rapid fades on R-390A and Sanserino loop. (GH-OR)
950 KMTX MT, Helena 8/17 2333 "Classic Hits Radio" slogan, ads and local weather at 2337. (AB-ID)
KTBR OR, Roseburg 8/12 0801 BBC News, gone by 0804. New. (AB-ID)

970 KCMD OR, Portland 8/14 0800 ID with call sign and "AM 970 The Talker" slogan, as well as mentions of 970.am web site. (NP-AB)

980 KFVB CA, Los Angeles 8/17 KFVB ID and traffic report. Fair-good with others. (AB-ID)

990 KSPZ ID, Ammon 7/31 0022 MexiPop music, "La Super Caliente" slogan at 0027. Poor-fair in the mix. New. (AB-ID)

1110 KSVK UT, Richfield 9/3 0000 KSVK ID, into ABC news. Utah #30. (AB-ID)

1111 CBW MB, Winnipeg 8/26 2351 talk with director of the film "The Necessity of Life," CBC news at 0000. Very good. (AB-ID)

1112 (KAOI) HI, Kihai 9/1 0035 noted off the air all night, back on the next day. Usual c-channel KDIS-CA not heard, perhaps affected by the Los Angeles wildfire? (5P-HI)

1120 KMOX MO, St Louis 7/3 0600 in poor with "Newsradio 1120 KMOX St Louis" just sitting on the frequency most of the night due to KPNW off. (CM-CA)

1150 (KPNW) OR, Eugene 7/3 0300 noted off the air tonight, just a mix of stations heard. (CM-CA)

1160 CKFR BC, Kelowna 8/8 0004 CFL game, BC Lions vs Calgary Stampeders. Poor. (AB-ID)

1170 KSL UT, Salt Lake City 7/25 0500 IBOC. Off. (MR-UT)

1171 KFAQ OK, Tulsa 8/8 0021 Ace Hardware ad, program notes and KFAQ ID. Poor. New. (AB-ID)

1190 CFSL SK, Weyburn 7/29 0150 C&W music. "AM 1190" at 0152. Fair-poor. (AB-ID)

1210 CFYM SK, Kindersley 8/2 0015 ID, ad for Battelford Furniture. Fair, trading places with unID Spanish on TMC with E-W wire (perhaps KTBK?). Heard occasionally. (GH-OR)

1220 KPJC OR, Salem 7/29 0159 weather for Salem. SRN news at 0000. Poor-fair. (AB-ID) + 8/14 0800 quite weak, but nearly alone with ID as "AM 1220. KPJC Salem," then into SRN news. (NP-AB)

1230 KORT ID, Grangeville 8/15 2259 KORT ID. (AB-ID) + 8/25 2350 man said "Idaho's favorite, K-O-R-T." Up strong for a moment then gone in the mix on R-390A with Sanserino loop. Heard only once before way back in October of '03. (GH-OR)

1240 KZZR OR, Burns 8/1 0350 gent with KZZR ID. (AB-ID)

1250 KCUP OR, Toledo 8/17 0010 faint ID in the blend with unID C&W. Weak and soon lost in the static on TMC with Sanserino loop. New! (GH-OR)

1270 KOZI WA, Chelan 8/26 0010 David Gates Bread song, man said "K-O-Z-I." Trading places with the rest of the pack and very weak on TMC with Terk loop. (GH-OR) + 9/1 0909 KOZI ID. New. (AB-ID)

1280 KWIK ID, Pocatello 8/10 2306 KWIK ID. (AB-ID)

1290 KQEN OR, Roseburg 7/31 2355 faint ID in the jumble, ABC news (I think) very weak on TMC with N-S wire. (GH-OR) + 8/29 0659 Nationwide ad. KQEN ID at 0700. New. (AB-ID)

1300 KGY WA, Olympia 8/17 0000 woman said "KGY," news sputtering in the static. Very weak and noisy. Seldom heard. (GH-OR)

1320 CHSM MB, Steinbach 8/14 0659 item about Canada Summer Games, then "AM 1250 News" leading off with severe thunderstorm watch. (NP-AB)

1370 KXBX CA, Lakeport 8/14 0800 ID at the hour through a couple of others with NOS music. ID as the hour as "The music you remember... information around the clock, KXBX Lakeport." New catch for me. (NP-AB)

1380 KBZZ NV, Sparks 8/4 0000 faint ID whirling in the slop just under KTFI. Very weak on TMC with N-S wire. (GH-OR)

1390 KBAM WA, Longview 8/10 0830 gent with KBAM ID. (AB-ID)

1400 KIT WA, Yakima 8/1 0400 "KIT Yakima" ID then into Fox news. (AB-ID)

1410 CFRW MB, Winnipeg 8/8 2343 song "You Ain't Seen Nothing Yet" by Bachman-Turner Overdrive, CFRW ID at 2346. New. (AB-ID)

1420 KAPL OR, Phoenix 8/14 0800 Christian music. ID at 1202 as "Setting our hearts on things above, this is KAPL, AM 1300, Phoenix-Jacksonville." (NP-AB)

1430 KNPT WA, Newport 7/23 0000 ad for Clark Howard show. ID, and Fox news. Up from nothing and in like a local on R-388 with N-S wire. Seldom heard. (GH-OR)

1440 KKPZ OR, Portland 8/3 0028 unID talk program, "K-Praise" slogan at 0031. Fair with mucho lightning. (AB-ID)

1450 KBNW OR, Bend 8/31 2330 male with ID, Phil Harvey show or ad for Phil Harvey show (I don't know which). Very weak and buried in static on Hammarlund with Terk loop. (GH-OR)

1460 KQVR OR, Enterprise 8/13 2259 gent with "KWVR Enterprise" ID. (AB-ID)

1470 KYCN WA, Wheatland 8/15 2257 gent with KYCN ID. New. (AB-ID)

1480 KRLC WA, Clarkston 8/4 0030 Hometown Radio ID buried in a 3-way mix with unIDs. Weak on TMC with N-S wire. (GH-OR) + 8/23 0834 gent with "Home Town Radio" slogan under KTIK. (AB-ID)

1490 KKMO WA, Tacoma 8/8 2258 vocal music, gent with KKMO ID at 2300. Poor. (AB-ID)

1500 KSPJ UT, Salt Lake City 7/25 noted on day power all night. (MR-UT)

1510 KJOX WA, Yakima 7/23 ESPN sports talk and ad for Tire Factory. Weak! Barely perceptible but totally alone on R-388 with N-S wire. (GH-OR)

1400 KRPL ID, Moscow 8/10 2328 song "My Girl" sung by the Temptations. "Oldies 1400" at 2330. (AB-ID)

1430 KYKN OR, Keizer 8/5 0000 mention of "KYKN.com" News. Weak and mixing it up with KLO but 70% on top on TMC with E-W wire. Not heard for a while. (GH-OR)

1440 KODL OR, The Dalles 8/13 0900 KODL ID and CBS news, good until ripped by KMED. Oregon #70. (AB-ID)

1450 KQVR OR, Medford 8/14 0700 mixing with CKJR but on top at the hour with ID "Newstalk AM 1440 KMED Medford... stimulating talk radio." (NP-AB)

1470 KELA WA, Centralia-Chehalis 8/7 0830 C&W music and KELA ID. CJBV QRM. (AB-ID)

1490 KRTR ID, Chubbuck 8/7 0759 gent with KRTR ID under KCID. New. (AB-ID)

1510 KBKR OR, Baker City 8/14 0800 KBKR ID with partial null on KVID. New. (AB-ID)

1510 KCKK CO, Littleton 9/4 with KGA off at 0230 with sports talk, SNR, cluster of spots at 0240, one with 303 area code, then at 0258 "Sporting News Radio" jingle followed by "Mile High Sports, KCKK, Littleton-Denver," fair. Conditions aren't too good to the east. (PM-OR)

1520 KOKC OK, Oklahoma City 7/27 2347 string of ads and PSA's, "Newstalk 1520 KOKC" then into Savage Nation program. Poor-fair. (AB-ID) + 8/24 0027 Clark Howard briefly dominant, then weaker, promo for "America's Morning News" "exclusively on Newstalk 15-20 KOKC," string of PSA's. Fair to poor. UnID C&W music over/under. (5P-HI)

1540 KXPA WA, Bellevue 8/9 0000 Spanish vocal music with ID in English. Fair to good with only slight fades and alone on TMC with Terk loop. (GH-OR)

1560 KNZR CA, Bakersfield 8/7 0000 AP news. ID. Fair with quick fades on Hammarlund with E-W wire. One UnID far under. (GH-OR) + 8/13 0931 woman with KNZR ID, ads followed. Fair-good. (AB-ID)

1580 KBLA CA, Santa Monica 8/24 0023 booming in with man with Spanish religious talk, guitar in background. Good, tentative KMIK-AZ way underneath. (5P-HI)

1590 KCNN MN, East Grand Forks 8/14 0700 ID at the hour "...and the Weather Eye forecast when you need it we've got you covered, 1590 KCNN," then buried by KLFE. (NP-AB)

1600 KOPB OR, Eugene 8/13 0920 KPR news, co-frequency QRM from KTUB. Fair-good. (AB-ID) + 8/14 0659 coming through the mix with list of network stations. (NP-AB)

1630 ?KGBT TX, Harlingen 8/24 0025 tentative with woman with Spanish pop music. KGBT has been logged in this state by other DXers. Poor, KFBK-CA underneath. (5P-HI)

UNIDS

1320 UNID 8/1 0000 ESPN sports talker with no ID at top of the hour. ID only as "ESPN 1320." KCTC Sacramento or KSCR Eugene OR? On R-390A with N-S wire. (GH-OR)

1430 UNID 8/5 0015 Gospel format, male preaching sermon in English. No listing that I feel fits this one. Who could this be? Heard on TMC with N-S wire. (GH-OR)

1550 UNID 8/10 0000-0030 oldies playing in semi-local KKAD null. Several ID's sounding like KFRC? KFRZ? No listing. Ideas? Thanks! (GH-OR) (How about ex-KYCY, KFRC San Francisco?—NJ)

1620 UNID 8/30 0340 Techno version of Elton John classic "Don't Go Breaking My Heart," then song in Spanish. Fair to poor. (5P-HI)

1710 UNID Children's choir weak at 0959 on 8/11, then woman talking at 0959 on 8/15, 8/16 and 8/17. Couldn't tell language. Probably Pat Martin's Russian-speaker in Seattle area. (LG-MT)

It's good to see Larry and Nigel in the list of reporters this issue. Welcome back! A big "thank you" to our four reporters this time. Nancy 9/4 2100

CENTRAL DX ROUNDUP

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

E-mail: John_Johnson@prodigy.net CDXR reports ONLY: cdxr@iraonline.org

RIDING GAIN

[EB-MO] **Eric Bueneman, Hazelwood MO N0UJHEric@aol.com**

DXing aboard Amtrak's Lake Shore Limited near New Carlisle IN, Using a Sony SRF-49 Walkman.

[TN-WJ] **Tim Noonan**, Oak Creek WI **DXing2@aol.com**
 Kenwood R-1000, Radio West Loop
 [SP-WJ] **Sheryl Paszkiewicz**, Manitowoc WI **spaszdxer@comcast.net**
 NRD-515 and Evedropper antenna.

DOWN THE DIAL

580 WIBW KS, Topeka. 8-21. 23:40 with Royals PBP. Mentioned the Royals Network, calls, spots. [SP-WJ]
 660 KTNM AZ, Window Rock. 8-20. 22:40 with country music. "You are listening to the Voice of the Navajo Nation, KTNM" ID. [SP-WJ]
 830 KOTC MO, Kennett. 8-18. 22:40 with "My 8-30 AM. My Music" slogan. 23:02 with calls. On late. [SP-WJ]
 1000 WMVP IL, Chicago. 7-31 good with medium fades. 23:53 with local spots and ESPN sports talk. [EB-IN]
 1120 KMOX MO, St Louis. 7-31 good with medium fades. 23:50 with John Carney [EB-IN]
 1490 KRIB IA, Mason City. 8-19 fair to good. 23:00 with "Good Times Oldies" and legal ID. New for me. [TN-WI]
 WFFX IL, East St Louis. 8-20 fair. 23:00 with distinct calls in legal ID. Call change for me, EX-WESL. [TN-WI]
 WMRN OH, Marion. 8-13 fair to good. In briefly at 23:00 with "Information Station" slogan and legal ID. New for me. [TN-WI]

25 YEARS AGO

August 11, 1984 issue of IRCA's "DX Monitor" ... **Karl Zuk** of Croton, NY became the new EDXR editor ... **Gary Siegel** of Toledo, OH updated details on the Toledo Convention ... **Jim Hall** of Pittsburgh, PA learned about the IRCA through his uncle who was working at WIRL 1290 ... **Gary Larson** of Burbank, CA told about his visit to the KWNK 670 transmitter site.

OPEN MIKE

The new DX season seems to be starting early. **Tim Noonan** parked on1490 and logged three new ones. Special thanks to **Phil Bytheway** for all his work over the years; and to **Dan Riordan** for taking on the EIC duties. See you in Albuquerque! This column was typed 8-22-09 and updated on 9-5-09. 73, John

CDXR REPORTER TOTALS FOR VOLUME 46

- [CK-CO] 74/12 **Chris Knight**, Fort Lupton CO
- [NJ-MT] 33/12 **Nancy Johnson**, Billings MT
- [EB-MO] 14/2 **Eric Bueneman**, Hazelwood MO
- [SP-WI] 13/6 **Sheryl Paszkiewicz**, Manitowoc WI
- [PAL-MN] 12/7 **Paul LaFreniere**, Grand Marais MN
- [TN-WI] 11/3 **Tim Noonan**, Oak Creek WI
- [TMJ-IL] 8/4 **Tom Jasinski**, Shorewood IL
- [JcJ-MT] 2/2 **John Johnson**, Billings MT

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

Deadlines: 9-19/9-25 then every Saturday!!!

STARS OF THE WEEK

(KK-VA) **Kraig Krist** Manassas VA
 (EB-PA) **Eric Bueneman** NRD-545 rx w/134' multiband antenna NW to SE.
 Vacationing in Erie PA
 GE Super Radio III

LOGGINGS

550 MO KTRS St Louis, 8/3 2149, noted with "The Big 550 KTRS" slogan and talk on Cardinals baseball. Fair to poor through WGR. (EB-PA)
 VA WWSA Harrisonburg, 8/4 0525-0635, Mixing with Spanish talk, ESPN radio and singing. 0535 "WSVA news time five thirty five" 0543 "Five fifty WSVA" 0546 "World agricultural news" 0600 "ABC News" 0605 "WSVA Shenandoah Valley 4 day forecast" 0610 "...no one is more up to date than you are with WSVA. WSVA news time six ten". (KK-VA)
 560 KY WMIK Middleboro, 8/3 0525-0635, mixing with Spanish talk and English talk. 0547 "...Middleboro insurance at... avenue in Middleboro or call 248 1280." (KK-VA)
 570 MD WTNT Bethesda, 8/1 0525-0635, Mixing with Radio Reloj. 0534 "...virtual physical is located in Rockville. Call..." 0600 "This is your talk station". Jingle "WTNT" into "Fox News Radio". (KK-VA)

580 PA WHP Harrisburg, 7/30 0525-0635, mixing with WCHS and religious type singing. 0528 "...Rush on WHP five eighty" 0548 "...on talk radio WHP five eighty" 0949 (KK-VA)
 WV WCHS Harrisburg events. 0556 "Five fifty six WHP". (KK-VA)
 600 CT WICC Charleston, 7/30 0525-0635, mixing with WHP and religious type singing. 0930 "...sports... WCHS Charleston... radio corporation..." (KK-VA)
 MD WCAO Bridgeport, 8/3 2359, noted with PSA, legal ID into USA Radio Network news. Fair to poor with others. (EB-PA)
 610 PA WIP Baltimore, 7/28 0525-0635, Mixing with Spanish talk (mentioning Cuba) and English talk. Gospel singing. 0602 "WCAO Baltimore... WCAO Baltimore it's the morning experience..." (KK-VA)
 620 PA WKHB(t) Philadelphia, 7/27 0525-0635, mixing with Spanish talk. 0558 "...WIP weather... chance of rain or thunderstorms... sports... WIP". 0603 "Philadelphia's sports leader... WIP, WIP HD ..." (KK-VA)
 670 IL WSCR Irwin, 7/26 0525-0635, Mixing with talk mentioning "South Carolina" and Spanish singing. 0601 Discussing corruption mentioning "Pennsylvania". 0629 "Lincoln Radio Journal... Pennsylvania..." (KK-VA)
 690 MI WNZK Chicago, 8/3 1418, noted with local ads, promo. "The Score" slogan and sports talk. Weak signal with splash from CFTR 680. (EB-PA)
 850 OH WKTZ Dearborn Heights, 8/3 1350, noted with ads in English and Arabic, into talk in Arabic. Fair signal with slight splash from CFTR 680.
 970 OH WFUN Cortland, 8/3 1403, noted with USA Radio Network news, ads, weather, calls and Adult Standards. Good sig. with splash from CHAM 820. (EB-PA)
 1080 NY WJFO Ashtabula, 8/3 1400, noted with ESPN sports news, "ESPN 970 WFUN" slogan. Fair signal over WJED. (EB-PA)
 1120 MO KMOX Amherst, 8/3 1427, noted with Urban Gospel music, "1080 AM WJFO" slogan. Good signal. (EB-PA)
 1170 WV WWVA St Louis, 8/3 2246, noted with travel promo, local ads, into John Carney. Good to fair signal; best signal for this station from Erie. (EB-PA)
 1230 NY WECK Wheeling, 8/3 1355, noted with Rush Limbaugh, ads, PSA, "News Radio 1170 WWVA" slogan. Fair signal. (EB-PA)
 1250 ON CJYE Cheektowaga, 8/3 1431, noted with local news, EDT time check, weather forecast, "Hometown 1230" slogan and Buffalo area ads. Fair signal over other stations. (EB-PA)
 1350 NJ WHWH Oakville, 8/3 1523, noted with Contemporary Christian music, promo for the Christian Channel (a Canadian Christian cable channel), into "Freedom Today". (EB-PA)
 1360 MI WKMI Fair signal with splash from WRIE 1260.
 1580 OH WAKR Princeton, 8/4 0016, noted with "You're never going to know what you're going to hear next on AM 1350 WHWH Princeton, Trenton," into Contemporary Jazz. Good to fair over WAFB. (EB-PA)
 1600 NY WWRL Kalamazoo, 8/3 2251, noted with calls in promo. Fair to poor signal. (EB-PA)
 1610 ON CHTA "Fifteen ninety WAKR" into Cleveland Indian report. Akron, 8/20 2155-2235, mixing with sports talk and Gospel type singing. 2210 New York City, 8/19 2155-2235, Call in show. 2158 "WWRL New York..." 2200 "sixteen hundred WWRL". Talk about health care reform. (KK-VA)
 1620 FL WNRP Wheeling, 8/4 1106, noted with local ads, PSA, weather forecast. Fair to poor with two other stations. (KK-VA)
 1630 IA KCJJ Toronto, 8/18 2155-2235, English and Spanish language religious talk. 2159 Spanish "...Radio Voces Latina", 2202 English talking about God. 2231 Spanish "...Voces Latinas... Toronto... CHHA" then in English "Sixteen ten AM". (KK-VA)
 1650 IA KCNZ Gulf Breeze, 8/17 2155-2235, Mixing with KGZN. "...have a great Monday night everybody and we'll talk to you again tomorrow on sixteen twenty... newstradio... WNRP..." (KK-VA)
 1660 MI WQLR Bellevue, 8/17 2155-2235, Mixing with WNRP. Typical ESPN radio. According to **ESPNradio.com** the only ESPN on 1620 is KGZN. so. (KK-VA)
 1660 NC WBCN Iowa City, 8/16 2155-2235, Mixing with NVCC TIS. "Sixteen thirty KCJJ". "This is KCJJ Iowa City..." (KK-VA)
 VA NVCC Manassas, 8/16 2155-2235, TIS. Mixing with KCJJ. Loop with parking info and campus information. (KK-VA)
 VA WHKT Cedar Falls, 8/14 2155-2235, Mixing with WHKT. Sports results. 2200 "The Cedar Falls station..." into "ABC News". (KK-VA)
 1660 MI WQLR Portsmouth, 8/14 2155-2235, Mixing with KCNZ. Typical Radio Disney programming. "Friday night talent show coming up on R. Disney..." and "WHKT Portsmouth". (KK-VA)
 1660 NC WBCN Kalamazoo, 8/13 2155-2235, Mixing with WBCN. 2225 OM "...sixteen sixty 'The Fan'". Also sports talk. (KK-VA)
 1660 NC WBCN Kalamazoo, 8/13 2155-2235, Mixing with WBCN. 2225 "...sixteen sixty 'The Fan'". Also sports talk. (KK-VA)

1670 GA WFSM Dry Branch, 8/12 2155-2235, "...so join us sixteen seventy WFSM Dry Branch Macon... online Fox Sports sixteen seventy dot com". "Fox Sports Radio", "Fox Sports News". "Fox Sports sixteen seventy weather". (KK-VA)

Welcome to Volume 47!!! We enter a new Volume and a new Editor in Chief.... Best of luck to Dan. As always, we review the EDXR rules with every volume.... Deadlines are usually SATURDAY 8 AM. Report DX ONLY The deadlines may change with my travel schedule. Station formats, local info, etc should be sent to Bob. When sending email, please try to put it in a form I can copy/paste. Please put logging in order of frequency. It will save me time. If you are posting on the list serv, PLEASE CC me at EDXR AT amlogbook dot com. I don't pull info off the list serv, as I don't have time to read and separate the entries.... I try to keep track of tips, so we only use the tip ONCE per season. Band scans are NOT part of EDXR, but will be included at the bottom and published as space permits. PLEASE do NOT report locals or semi locals... Nice to hear from Eric again. Last time he was in Erie, I wrote "Eric reports from Erie, home of the Wonders"... He knew what I meant... Eric writes... I was back in Erie visiting friends this past week... and noted KMOX for the first time. I was able to put a null on WDFN 1130 to get through this time. WTAM has improved its signal to the east; although they're Buffalo come in stronger than any of the Cleveland stations, save for WHK 1420. This time, I mainly listened to CFTR 680 and CKOC 1150. Erie also has a full-time jazz station now; just a few months ago, as WMCE 88.5 has switched to jazz from variety. And a little bit about The Wonders: this was the group portrayed in the 1997 movie "That Thing You Do!" The title song from the movie was on the hit parade that year." Best to all... fresh 8-22 0830

DX WORLDWIDE – WEST / TROPICAL BAND DX

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

Greetings everyone.
 First off, I would like to thank Phil for all of his years as EIC and to thank Dan for taking over the position. We have a great start to the Fall season this time around. So away we go.

TRANS PACIFIC DX ROUNDUP

- 153 **RUSSIA**, Radio Rossii 1207 8/18 with S-1 signal, but fair sounding signal and Radio Rossii ID. (DV-WA)
- + 1203 9/5 fair with man in Russian. (DV-WA)
- 180 **RUSSIA**, Radio Rossii, at 1139 8/18 fair with music and a man in RR after song. (DV-WA)
- + 1206 9/5. (DV-WA)
- 189 **RUSSIA**, Radio Rossii at 1142 8/18, almost as good of a signal as 180, man still talking. (DV-WA)
- + 1208 9/5, weak. (DV-WA)
- 234 **RUSSIA**, Radio Rossii at 1143 weak with woman in RR. Solid S-4 signal 8/18. (DV-WA)
- + 1209 9/5 very weak. (DV-WA)
- 279 **RUSSIA**, Radio Rossii 1144 8/18 fair with fluttering signal with woman interviewed by man. (DV-WA)
- + Also Radio Rossii 8/21 1235 with music. (BB-AZ)
- 567 **JAPAN**, Sapporo JOIK probably the one with threshold audio that sounded JJ. Signal nulled towards the NW, same as other JJ stations logged. Poor level at 1235 8/23. (GA-OR*)
- 594t **AUSTRALIA**, Horsham 3WV may have been the one heard at 1248 8/21 with talk. (BB-AZ)
- 594 **JAPAN**, Tokyo JOAK strong with flute and piano music, then JJ talk at 1234 8/21. (GA-OR*)
- 603t **NEW ZEALAND**, 1XO may have been the one with talk just above the noise level at 1252 8/21. (BB-AZ)
- 639 **FUJI**, fair with island music and man in Fijian at 0815 8/23. (PM-OR)
- 693 **JAPAN**, Tokyo JOAB struggling with threshold JJ audio at 1312 8/23. (GA-OR*)
- 702 **AUSTRALIA**, Sydney 2BL, threshold audio in EE at 1316 8/23, then down in the mud. Presumed. (GA-OR*)
- 738 **AUSTRALIA**, Grafton 2NR man and woman talking in Aussie accented EE, one of the few signals this morning at poor level. Heard at 1242 8/21 and only on Gary's hotrodDED E100. The D96L could only produce a strong het. (GA-OR*)
- 774 **AUSTRALIA**, Melbourne 3LO heard very well at 1246 8/21 with talk about the Australian Bulldogs on top of JOUB. (BB-AZ)
- 792 **AUSTRALIA**, Brisbane 4RN man and woman with EE talk seemed to be discussing Aussie C&W music 8/21. (GA-OR*)
- 828 **JAPAN**, Osaka JOBB also // with 747, good level with EE lessons at 1253 8/18. (GA-OR*)
- 837 **JAPAN**, Niigata JOQK very tentative with possible JJ talk by female, signal nulled in the direction of other JJ stations heard this morning 8/18, poor to fair at 1303. (GA-OR*)
- 963 **CHINA**, CRI in RR language by female, fair at 1310 8/18. (GA-OR*)

- 963 **NEW ZEALAND**, Christchurch, Southern Star tentative with Kiwi or Aussie accented talk by man, poor to fair 8/21. (GA-OR*)
- 972 **REP KOREA**, HCA KK talk by man and woman at 1310 8/21. (GA-OR*)
- 1060 **HAWAII**, Hilo KIPA 9/5 0657. Noted back on the air for the first time since Winter with eclectic Music for a Change. Program with Beatles album cut, Steely Dan album cut, the Doors, No ID heard for 10 minutes. Last heard as KHBC, presumably the AM now relaying FM instead of the other way around. Good to fair. (5P-HI2)
- 1134 **JAPAN**, Tokyo JOQK heard 1314 8/21 with excited ancr (Sports?) in JJ very good to excellent level peaking at 1316 just past dawn 8/21. (GA-OR*)
- 1143 **UNID**, Possibly Taiwan Fisheries station with poor to fair signal in CC by man & woman, plus orchestral music 8/21. (GA-OR*)
- 1206 **CHINA**, presumed Yambian RGD the one here with KK talk, per PAL sked. Good signal at 1315 but ravaged by splatter on both Ultralights. On 8/21. (GA-OR*)
- 1287 **JAPAN**, Sapporo JOHR with JJ talk by man at 1320 8/21. Very good peak at 1321. (GA-OR*)
- 1475 **MALAYSIA**, RTM Kota Kinabalu with weak Bahasa Malaysian language (very similar sounding to Indonesian) and talk by man and woman from 1314 to 1320 UTC, on 8/20. Slightly stronger at 1321 with romantic pop music in presumed to be Bahasa Malaysian. The signal was definitely centered on 1475, determined by de-tuning the D96L and listening for the "soft mute" to kick in with reduced signal. The strongest level was definitely on 1475, and the sound and programming of R1M matches my prior loggings of this station. (GA-OR*)
- 1500 **HAWAII**, Honolulu KUMU 8/17. Per tip from Honolulu Star-Bulletin about a format change, tuned in at 0950 to hear end of Sporting News radio. David Stein ID and a Sporting Newsflash at 1000, followed by a long stretch of dead air. A SNR heard again at 1135 return, but was replaced by simulcast of KUMU-FM 94.7, AC at later return 1800. Article said that several local hosts had left the station which was played by reoccurring 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. (9P-HI)

PAN AMERICAN DX ROUNDUP

- 860 **MEXICO**, Tijuana XEMO 8/30 0735. Noted in passing with Romanica mx atop KTRB-CA Fair to poor. (5P-HI)
- THANKS TO THESE REPORTERS**
- GA-OR* **GUY ATKINS**, Puyallup WA **dx@guytkins.com**
 DXing from Yachats OR
 DXing with Gary DeBock's hotrod E100 with Amidon 7.5" slider ferrite antenna and metal-cased Murata filter and my Kchibo D96L with fixed coil Amidon 7.5" rod (external).
- BB-AZ **BILL BLOCK**, Prescott Valley AZ **billwblock@msn.com**
 DXing with Drake R8, EWE antenna
- 5P-HI **DALE PARK**, PO Box 10640, Honolulu HI 96816 **dxfool@aol.com**
 DXing with Sangean ATS-818CS, Terk AM1000 loop
- 5P-HI1 DXing at Kawaiki Beach Park, East Honolulu, Honda car radio
- 5P-HI2 DXing at Alina Haina Shopping Center, East Honolulu with Honda car radio
- DV-WA **DENNIS VROOM**, Salmon Creek WA **vroomski@comcast.net**
 DXing with JRC545 & Drake R8B with NW EWE and SW Broadband loop
- PM-OR **PATRICK MARTIN**, PO Box 843, Seaside OR 97138-0843 **mwdxer@webtv.net**, **mwdxer@msn.com**
 DXing with Drake R8, Drake SPR4, and NW EWE

DX WORLDWIDE – EAST

Brandon Jordan – 3443 S Perkins Rd – Memphis TN 38118
E-mail: dxww-east@gmail.com
 all times UTC

Hi folks. Many logs from Mark Connelly this edition, including his Perseus logs from the 2009 DX Clams DXpedition at the Granite Pier in scenic Rockport, MA. Mark notes it took about a month to pull all the logs from the Perseus spectrum recordings.

+++ TRANSATLANTIC DX +++

- 153 **GERMANY** Deutschlandfunk, Donebach, JUL 31 0119 – /7756 with opera; to fair peak. [Connelly*R-MA]
- 162 **FRANCE** France-Inter, Allouis, JUN 26 0118 – French female vocal, then talk by man; fair to good over static crashes.
 + JUL 31 0027 – man & woman in French; very good.
 + JUL 31 0119 – "Rehab" by Amy Winehouse; good. [Connelly*R-MA]

171 **MOROCCO** R Mediterranean Internationale, Nador, JUN 26 0119 – pop style Arabic vocal; fair.
+ JUL 31 0027 – Afropop group vocal music with kalimba and drumming, then woman in Arabic; good.
+ JUL 31 0120 – pop Arabic male vocal with drumming; good. [Connelly*R-MA]
180 **unID** JUL 31 0119 – DRM-like hash spread from 177 to 183. [Connelly*R-MA]
189 **ICELAND** Ríkisutvarp, Gufuskalar, JUL 31 0119 – man & woman in Icelandic; good. [Connelly*R-MA]
198 **UNITED KINGDOM** BBC R 4, Droitwich et al, JUN 26 0118 – discussion about Michael Jackson, Kingdom Records; fair.
+ JUL 31 0120 – BBC report "large US banks which failed have continued to pay large bonuses to executives"; exc. [Connelly*R-MA]
207 **GERMANY** Deutschlandfunk, Aholming, JUL 31 0119 – //153 & 756 with opera; fair. [Connelly*R-MA]
225 **POLAND** Polskie Radio, Konstanczynow, JUL 31 0120 – Slavic teletalk with two women; poor to fair. [Connelly*R-MA]
234 **LUXEMBOURG** RTL, Junglinster, JUN 26 0118 – man in French; poor in static.
+ JUL 31 0027 – "Bodhisattva" by Steely Dan; fair.
+ JUL 31 0119 – "Cherish" by Kool & the Gang, then two men in French talking and laughing; LOUD. [Connelly*R-MA]
252 **IRELAND** RTE R 1, Clarkstown, JUL 31 0119 – song from live blues-rock concert, "from California" mentioned at the beginning; atop foreign talker. [Connelly*R-MA]
531 **SPAIN** RNE R 5 synchros, JUL 31 0101 – //774 with news in Spanish; p. [Connelly*R-MA]
549 **GERMANY** Deutschlandfunk, Nordkirchen & Thurnau, JUL 31 0118 – //756 with opera; poor. Algeria not noted. [Connelly*R-MA]
585 **SPAIN** RNE R 1, Madrid, JUN 26 0202 – //621 with news by woman in Spanish; poor.
+ JUL 31 0119 – //621 & 774 with teletalk show by woman in Spanish; poor in WEZE/VOCM slop. [Connelly*R-MA]
603 **SPAIN** RNE R 5 synchros, JUL 31 0101 – //774 with news; poor. [Connelly*R-MA]
621 **CANARY ISLANDS//SPAIN** RNE R 1 synchros, Santa Cruz de Tenerife et al, JUN 26 0202 – //685 with news by woman in Spanish.
+ JUL 31 0032 – //639 with fast Spanish talk; through WZON slop. [Connelly*R-MA]
639 **SPAIN** RNE R 1, La Coruna et al, JUL 31 0032 – //621 with fast Spanish talk; poor to fair on LSB (to dodge CBN). [Connelly*R-MA]
648 **SPAIN** RNE R 1, Badajoz et al, JUL 31 0101 – //774 with news in Spanish; poor. [Connelly*R-MA]
684 **SPAIN** RNE R 1, Sevilla, JUL 31 0119 – //621 with woman in Spanish; fair through WRKO slop. [Connelly*R-MA]
711 **FRANCE** France Info, Rennes, JUL 31 0118 – woman in French; to fair peak. [Connelly*R-MA]
711 **SPAIN** COPE, Murcia, JUL 31 0102 – fast Spanish talk by woman, then Cadena COPE ID; surprisingly over France, W. Sahara, Libya. [Connelly*R-MA]
747 **CANARY ISLANDS//SPAIN** RNE R 5 synchros, JUL 31 0101 – //774 et al with RNE news; in CBGY slop. [Connelly*R-MA]
747 **NETHERLANDS** R 5, Zeewolde-Flevoland, JUL 31 0130 – man in Dutch; mixed with RNE synchros. [Connelly*R-MA]
756 **GERMANY** Deutschlandfunk, Braunschweig & Ravensburg, JUL 31 0119 – //153 with opera; loud. [Connelly*R-MA]
765 **SWITZERLAND** RSR Option Musique, Sottens, JUN 26 0100 – Option Musique jingle, French news by man; to fair peak over static crashes.
+ JUL 31 0052 – slow folk-style French male vocal; fair.
+ JUL 31 0119 – uptempo pop French vocal; good. [Connelly*R-MA]
774 **SPAIN** RNE R 1 synchros, JUL 31 0032 – //621 with echoey Spanish talk by woman; fair.
+ JUL 31 0052 – //1098 with techno dance music, then man in Spanish; g. [Connelly*R-MA]
783 **GERMANY** MDR Info, Leipzig-Wiederau, JUL 31 0052 – bits of German talk by woman; momentarily surfacing. [Connelly*R-MA]
783 **MAURITANIA** R Mauritanie, Nouakchott, JUN 26 0059 – man in Arabic with sermon or political harangue; fair through CFDR slop.
+ JUL 31 0029 – Arabic music.
+ JUL 31 0119 – man in Arabic; fair.
+ JUL 31 0130 – Arabic preaching; good. [Connelly*R-MA]
819 **EGYPT** Egyptian Radio, Barra, JUL 31 0119 – Koranic a cappella male vocal; to fair peak. [Connelly*R-MA]
837 **CANARY ISLANDS//SPAIN** COPE synchros, JUN 26 0059 – //882 with woman in Spanish; fair.
+ JUL 31 0000 – Cadena COPE ID, piano notes, then news by woman; fair.
+ JUL 31 0052 – Spanish talk, telephone interview, COPE ID, into a bit of old song "As Time Goes By"; good, over France which had jazz. [Connelly*R-MA]

837 **FRANCE** France Info, Nancy, JUN 26 0109 – //1206 with showtune-style female vocal; good.
+ JUN 26 0200 – music fanfare, French news by woman; to good peak.
+ JUL 31 0030 – //1206 with spy-movie type instrumental, news sounder; then woman in French; fair. [Connelly*R-MA]
855 **SPAIN** RNE R 1 synchros, JUL 31 0030 – //621 with man & woman in Spanish; fair on USB (to dodge WEEI).
+ JUL 31 0100 – pips, intro music, man said "Radio Nacional de Espana, informativo", then news by woman; fair. [Connelly*R-MA]
864 **EGYPT** ERTU, Santah, JUL 31 0102 – Koranic vocal; over France. LSB needed to dodge superslopper 870 WLVP. [Connelly*R-MA]
864 **FRANCE** France Bleu, Villebon-sur-Yvette, JUN 26 0101 – folk style French male vocal; fair.
+ JUL 31 0053 – //1278 with slow male vocal & piano; fair.
+ JUL 31 0158 – "New York, New York" by Frank Sinatra; good. [Connelly*R-MA]
873 **GERMANY** AFN, Frankfurt, JUL 31 0131 – "Tell Me Why" by Wynonna Judd; mixed with Spain talk; through tough WLVP slop.
+ JUL 31 0201 – AFN news by man mentioning "temporary evacuation of a site 100 miles from Houston"; over Spain.
+ JUL 31 0159 – //1107 with honky-tonk country song; mixing with Spain. [Connelly*R-MA]
873 **SPAIN** SER synchros, JUL 31 0100 – ID "Cadena SER, servicios informativos" into start of newscast; over WLVP slop. [Connelly*R-MA]
882 **CANARY ISLANDS//SPAIN** COPE synchros, JUN 26 0059 – //837 with woman in Spanish; poor to fair in mix with UK.
+ JUL 31 0100 – COPE news; slightly over UK. [Connelly*R-MA]
891 **PORTUGAL** Radio Sim, Vila Moura, JUL 31 0055 – plaintive Portuguese vocal; poor.
+ JUL 31 0119 – "Hello Mary Lou" by Ricky Nelson from '61.
909 **unID** JUL 31 0029 – Koranic chanting under UK. Yemen is one possibility.
+ JUL 31 0120 – Arabic-sounding vocal; way under UK. [Connelly*R-MA]
909 **UNITED KINGDOM** BBC R 5 synchros, JUN 26 0100 – woman reading news about Michael Jackson death; fair.
+ JUN 26 0150 – US-accented woman; good.
+ JUN 26 0200 – "This is Five Live News."; fair, relatively in the clear (less 910 slop than usual).
+ JUL 31 0031 – sports report mentioning wickets; good.
+ JUL 31 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.
+ JUL 31 0120 – interview about championship golf course in North Carolina; excellent.
+ JUL 31 0129 – gardening discussion; excellent.
+ JUL 31 0200 – news with basically the same items as an hour earlier; loud. [Connelly*R-MA]
945 **FRANCE** France Info, Toulouse, JUN 26 0157 – //837 with female group vocal like children's song; fair, best on USB.
+ JUL 31 0052 – //837 with smooth jazz; fair to good.
+ JUL 31 0100 – news intro music, French news by woman; best on USB to dodge WGIN IBOC. [Connelly*R-MA]
954i **QATAR** QBS, Al Arish, JUL 31 0055 – possibly this with Arabic talk by man; to fair peak.
+ JUL 31 0129 – Arabic news with emphasis music "stingers" between items.
+ JUL 31 0201 – man in Arabic; over Spain most of the time. [Connelly*R-MA]
954 **SPAIN** Onda Cero, Madrid, JUN 26 0100 – news in Spanish; fair.
963 + JUL 31 0052 – Spanish talk by man; poor. [Connelly*R-MA]
963 **PORTUGAL** Radio Renascenca, Seixal, JUN 26 0100 – "Homeward Bound" by Simon & Garfunkel from '66, then pips followed by man & woman in Portuguese; poor. [Connelly*R-MA]
963 **SPAIN** R Euskadi, Vitoria, JUL 31 0030 – Spanish talk by man & woman; poor.
963 **TUNISIA** RTT, Tunis, JUL 31 0202 – Arabic male vocal; mixed with one or two others. [Connelly*R-MA]
963 **unID** JUL 31 0130 – Madonna song "Music", pips noted on the half hour but maybe from something else co-channel, Portugal suspected. [Connelly*R-MA]
972 **GERMANY** NDR Info, Hamburg, JUL 31 0202 – German newstalk; in severe WZAN slop. [Connelly*R-MA]
981 **ALGERIA** RTVA Chaîne 2, Algiers, JUN 26 0031 – string music and drumming; poor.
+ JUL 31 0000 – pop Arabic vocal, pips, string music fanfare, man in French; good.
+ JUL 31 0031 – male Arabic vocal with flutes and strings; good. [Connelly*R-MA]
999 **SPAIN** COPE, Madrid, JUN 26 0059 – man & woman in Spanish; to fair peak over WINS IBOC.
+ JUL 31 0000 – //837 with Cadena COPE ID, a few piano notes, then news by woman; fair.
+ JUL 31 0100 – pips, Cadena COPE ID, a few piano notes, then news; fair over WINS IBOC. [Connelly*R-MA]

1008 **CANARY ISLANDS** Punto Radio, Las Palmas, JUL 31 0053 – Spanish pop female vocal; over SER and through WINS sloop. [Connelly*R-MA]

1053 **UNITED KINGDOM** TalkSport synchros, JUN 26 0101 – //1089 with Reverend Al Sharpton commenting on Michael Jackson; fair, Sharpton's booming delivery cut through the junk.
+ JUN 26 0148 – talk about guilt being assumed because of hearsay evidence; now better than //1089.
+ 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.
+ JUL 31 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.
+ JUL 31 0131 – more talk about Iraq; good. [Connelly*R-MA]

1053.1 **LIBYA** Libyan Jamahiriya, Tripoli, JUL 31 0159 – Arabic teletalk; now splittable on USB from TalkSport. [Connelly*R-MA]

1062t **TURKEY** TRT-1, Diyarbakir, JUL 31 0052 – likely this with Koranic chanting; poor. [Connelly*R-MA]

1088 **ANGOLA** R Nacional, Mulenvos, JUN 26 0031 – Portuguese talk by two people; poor.
+ JUL 31 0200 – fanfare music, Portuguese news; poor. [Connelly*R-MA]

1089 **UNITED KINGDOM** TalkSport synchros, JUN 26 0101 – //1053 with Reverend Al Sharpton commenting on Michael Jackson; good.
+ JUL 26 0159 – "0800-186-187" phone number in advert for a business in Birmingham; fair.
+ 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.
+ JUL 31 0131 – //1053 with talk about Iraq; good. [Connelly*R-MA]

1098 **SPAIN** RNE R 5 synchros, JUN 26 0031 – echoey Spanish talk by woman, then teletalk; fair.
+ JUL 31 0031 – short segment of '50s-type rock, then man & woman in Spanish; good. [Connelly*R-MA]

1098 **unID** JUL 31 0129 – Mideast music; under Spain. Iran (200 kW) the most likely suspect. [Connelly*R-MA]

1107 **GERMANY** AFN synchros, JUL 31 0159 – //873 with honky-tonk country song; mixed with Spain. [Connelly*R-MA]

1107 **SPAIN** RNE R 5 synchros, JUN 26 0100 – news by woman in Spanish; fair, equal strength to off-channel RNE synchro on 1107.12 with one heck of a growl resulting.
+ JUL 31 0054 – //1098 with rock Spanish vocal then talk; slightly over unID second station that seemed more like Italy than Egypt or Germany. [Connelly*R-MA]

1107.12 **SPAIN** RNE R 5 "Todo Noticias", Caceres, JUL 31 0200 – "Radio Nacional de Espana... informativos" ID; sliceable on USB from the rest of the //RNE synchros on 1107.0. At this time the 1107.0 and 1107.12 signals were equal strength on the Perseus spectrum analysis display. [Connelly*R-MA]

1116 **SPAIN** SER synchros, JUN 26 0059 – piano music, "Radio Pontevedra" local ID
+ JUN 26 0102 – fast-Spanish news by woman mentioned Michael Jackson; to good peak.
+ JUL 31 0001 – //1179 with fast Spanish news; poor to fair.
+ JUL 31 0031 – music //1179; fair.
+ JUL 31 0131 – teletalk; good.
+ JUL 31 0202 – //1485 with news about Barcelona; good. [Connelly*R-MA]

1125 **SPAIN** RNE R 5 synchros, JUN 26 0100 – //1107 with extremely echoey newstalk by woman in Spanish.
+ JUL 31 0000 – ID "Radio Nacional de Espana... informativos"; to fair peak over others and WBBR sloop.
+ JUL 31 0031 – talk //1098; fair.
+ JUL 31 0200 – news; chaotic multiple echoes with long delays. [Connelly*R-MA]

1134 **CROATIA** Glas Hrvatske, Zadar, JUN 26 0100 – Hrvatski Radio ID, lead news item about Michael Jackson death; to good peak.
+ JUL 31 0053 – Slavic folk male vocal; good, now way over Spain.
+ JUL 31 0200 – English service "You're listening to Croatia today"; good. [Connelly*R-MA]

1134 **SPAIN** COPE synchros, JUL 31 0000 – //1143 with Cadena COPE ID; dominant. [Connelly*R-MA]

1143 **SPAIN** COPE synchros, JUN 26 0100 – Spanish news by man & woman; through static crashes.
+ JUL 31 0000 – //1134 with Cadena COPE ID, news; poor.
+ JUL 31 0031 – talk //1224; fair. [Connelly*R-MA]

1152 **ROMANIA** R Romania Actualitati, Cluj, JUL 31 0201 – //1593 with chanting monks type vocal; mixed with Spain. [Connelly*R-MA]

1152 **SPAIN** RNE R 5 synchros, JUL 31 0000 – //1125 with Radio Nacional de Espana ID; to fair peak.
+ JUL 31 0031 – //1098 with 10 second rock music clip, then talk by woman; very echoey. [Connelly*R-MA]

1170 **UNITED ARAB EMIRATES** R Sawa, Al Dhabiya, JUL 31 0053 – pop Mideast male vocal and strings; to good peak, way over WWVA, best on USB to dodge WHAM IBOC around 1167.
+ JUL 31 0054 – pop mideast vocal, Radio Sawa ID; over WWVA.
+ JUL 31 0129 – Arabic talk with Sawa mention, then US boy-band type hit (Jonas Bros ?); over WWVA. [Connelly*R-MA]

1179 **CANARY ISLANDS/SPAIN** SER synchros, JUL 31 0001 – //1116 with fast-talk news; f.
+ JUL 31 0031 – //1116 with romantic music; good. [Connelly*R-MA]

1179 **ROMANIA** R Romania Actualitati, Galbeni-Bacau et al., JUL 31 0131 – //1593 with male folk-style vocal and guitar; mixed with SER. [Connelly*R-MA]

1188 **IRAN** 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 IDed on RealDX. [Connelly*R-MA]

1196.75t **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 sloop to pick off useful audio. [Connelly*R-MA]

1206 **FRANCE** France Info, Bordeaux, JUN 26 0100 – Simon & Garfunkel "Sounds of Silence", top-of-hour musical fanfare, woman in French with news about Michael Jackson; fair.
+ JUL 31 0001 – news by woman in French; to good peak over WKOX sloop. [Connelly*R-MA]

1215 **UNITED KINGDOM** Absolute R synchros, JUN 26 0101 – good with talk "news of Michael Jackson's death was received by thousands of fans gathered for the weekend Glastonbury Festival".
+ JUN 26 0139 – "Watching the Wheels" by John Lennon; good.
+ JUL 31 0053 – corny music intro, "Tom's Flick of the Day" film review feature; good, over Spain. [Connelly*R-MA]

1224 **SPAIN** COPE synchros, JUL 31 0031 – //1143 with man in Spanish; p. [Connelly*R-MA]

1242 **FRANCE** France Info, Marseille, JUN 26 0058 – //1206 with "Sounds of Silence" by Simon & Garfunkel; poor.
+ JUL 31 0001 – //1206 with news in French; poor.
+ JUL 31 0030 – //1206 with musical fanfare, news by woman in French; f. [Connelly*R-MA]

1278 **FRANCE** France Bleu, Selestat, JUL 31 0053 – //864 with slow male vocal; poor. [Connelly*R-MA]

1296 **SPAIN** COPE, Valencia, JUL 31 0201 – //999 with news by woman in Spanish; to fair peak over others. [Connelly*R-MA]

1305 **SPAIN** RNE R 5 synchros, JUN 26 0058 – woman in Spanish; to fair peak.
+ JUL 26 0140 – music //1314.
+ JUL 31 0030 – talk //1098; poor to fair.
+ JUL 31 0055 – oldies-rock style vocal //1314; good.
+ JUL 31 0100 – R Nacional de Espana ID, news; good over rumble. [Connelly*R-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 Mauro Ritola. [Connelly*R-MA]

1314 **SPAIN** RNE R 5 synchros, JUN 26 0140 – //1305 with fast Spanish talk, then music.
+ JUL 31 0055 – //1305 & 1413 with woman in Spanish, then oldies-rock style male Spanish group vocal; fair. [Connelly*R-MA]

1341 **NORTHERN IRELAND** BBC R Ulster, Lisnagarvey, JUL 31 0131 – English news, sports; poor.
+ JUL 31 0200 – //909 with "It's Five Live", into news about organ transplant laws; fair. [Connelly*R-MA]

1359 **SPAIN** RNE, Arganda del Rey, JUL 31 0000 – //1152 with news in Spanish; poor. [Connelly*R-MA]

1377 **FRANCE** France Info, Lille, JUN 26 0109 – //1206 with female showtune vocal; good.
+ JUL 31 0053 – //945 with smooth jazz; good, peaking within 5 dB of local 1380 WMYF (which VSoft rates at 71 dBu). [Connelly*R-MA]

1413 **SPAIN** RNE R 5 synchros, JUN 26 0141 – //774 with woman in Spanish; to fair peak.
+ JUL 31 0055 – //1305 with oldies type Spanish rock; poor in WVAE IBOC. [Connelly*R-MA]

1422 **ALGERIA** RTA, Agiers, JUN 26 0030 – high energy electronic dance-club music; to good peak.
+ JUL 31 0001 – man in French with news; to good peak.
+ JUL 31 0054 – French talk by man, saxophone jazz; over Germany's opera. [Connelly*R-MA]

1422 **GERMANY** Deutschlandfunk, Heusweiler, JUL 31 0053 – //756 with operatic shrieking; loud.
+ JUL 31 0100 – Deutschlandfunk ID, pips, German news by woman; good, over Algeria.
+ JUL 31 0200 – same sequence of ID, pips, and news as at 0100; good. [Connelly*R-MA]

1431 **DJIBOUTI** R Sawa, Arta, JUL 31 0052 – Bollywood-influenced male Arabic vocal; to good peak.
+ JUL 31 0202 – Mideast dance-club music; fair. [Connelly*R-MA]

1440 **SAUDI ARABIA** BSKSA, Dammam, JUL 31 0053 – //1521 with fast Arabic talk by man; momentarily over WRED-ME. [Connelly*R-MA]

- 1485 **SPAIN** SER synchros, JUL 31 0202 – //1116 with news by man & woman in Spanish; poor. [Connelly*R-MA]
- 1494 **FRANCE** France info synchros, JUL 31 0159 – //1206 with easy-listening instrumental; poor in WBAE slop. [Connelly*R-MA]
- 1512 **SAUDI ARABIA** BSKSA, Jeddah, JUL 31 0053 – Arabic chant; mixed with second station. + JUL 31 0201 – Arabic music; poor to fair. [Connelly*R-MA]
- 1521 **SAUDI ARABIA** BSKSA, Duba, JUN 26 0142 – a cappella chanting; fair to good. + JUL 31 0022 – huge with two men in Arabic talking and laughing. + JUL 31 0201 – Koranic vocal; loud. [Connelly*R-MA]
- 1521 **SPAIN** SER, Castellon, JUL 31 0000 – ID "Cadena SER, servicios informativos"; actually over the Saudi! [Connelly*R-MA]
- 1548 **KUWAIT** R Sawa, Kabd-Kuwait City, JUL 31 0131 – pop Arabic male group vocal; over IBOC news. [Connelly*R-MA]
- 1548 **UNITED KINGDOM** BBC R Bristol, Bristol-Mangotsfield, JUL 31 0200 – //909 with news about organ donation and transplants; poor. [Connelly*R-MA]
- 1550 **ALGERIA** RASD Claudestine, Rabouni, JUL 30 2359 – Spanish talk including ID "Radio Nacional Saharaui", sign-off with "tubby" anthem; to good peak. [Connelly*R-MA]
- 1557 **FRANCE** France Info, Fontbonne, JUN 26 0148 – mood music, then French talk by man & woman; to good peak.
- 1575 + JUL 31 0001 – //1206 with news; fair when the WQEW slop let up. [Connelly*R-MA]
- UNITED ARAB EMIRATES** R Farda, Al Dhabiya, JUL 31 0130 – Radio Far-DA ID, news headlines with music bursts between them; to good peak. [Connelly*R-MA]
- 1584 **CEUTA** RadiOle, 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*R-MA]
- 1593 **ROMANIA** R Romania Actualitati, Ion Korvinn, JUL 31 0131 – //1179 with male folk-style vocal and guitar; to fair peak. [Connelly*R-MA]
- *** PAN-AMERICAN DX ***
- 555 **ST KITTS & NEVIS** R ZIZ, Basseterre, JUL 31 0120 – fragments of Caribbean English talk; in tough WGAN slop. [Connelly*R-MA]
- 580 **PUERTO RICO** WKAQ, San Juan, JUL 31 0100 – WKAQ ID in Spanish talk; a bit behind WTAG.
- + JUL 31 0120 – Spanish newstalk about Puerto Rico subjects; mixed with WTAG & CFRA. [Connelly*R-MA]
- 630 **PUERTO RICO** WUNO, San Juan, JUL 31 0119 – Uno and Radio Uno mentions in Spanish talk; under WPRO. [Connelly*R-MA]
- 700 **BRAZIL** ZYK686; R Eldorado AM; Sao Paulo, JUL 31 0120 – reverberated Portuguese screaming including "goooooool!", mixed with WLW. [Connelly*R-MA]
- 720 **BRAZIL** R Guaiba, ZYK276, Porto Alegre, JUN 26 0202 – rapid-fire sports report in Portuguese; to fair; peak, noisy.
- + JUL 31 0030 – Portuguese sports coverage, Sao Paulo mentions; dominant. [Connelly*R-MA]
- 720 **VENEZUELA** YVQE; R Oriente, Portomar, JUL 31 0120 – "en Venezuela, Oriente" ID; then hot tropical music; slightly over jumble of others. [Connelly*R-MA]
- 750 **VENEZUELA** YVKS, RCR, Caracas, JUN 26 0100 – RCR ID, Caracas mentions in sports coverage; good, over CBGY. [Connelly*R-MA]
- 760 **BRAZIL** ZYH588, R Uirapuru, Fortaleza, JUL 31 0120 – Portuguese sports shouting; under WJR. [Connelly*R-MA]
- 760 **COLOMBIA** HJAJ, RCN, Barranquilla, JUN 26 0100 – pip, Radio Suceso RCN ID; under YVQQ.
- + JUL 31 0054 – Spanish talk mentioning casinos, then RCN ID. [Connelly*R-MA]
- 760 **VENEZUELA** YVQQ, R Puerto La Cruz, Puerto La Cruz, JUN 26 0100 – Spanish talk, "Doble O" slogan; over HJAJ. [Connelly*R-MA]
- 770 **COLOMBIA** HJUX, RCN, Bogota, JUL 31 0119 – Bogota mentions in Spanish talk; under WABC. [Connelly*R-MA]
- 780 **VENEZUELA** YVMN, R Coro, Coro, JUN 26 0159 – Spanish talk, Coro ID; under CFDR. + JUL 31 0120 – Coro mention popped out of jumble. [Connelly*R-MA]
- 800 **NETHERLANDS ANTILLES** PJB, Trans-World Radio, Bonaire, JUN 26 0101 – man in Spanish with Radio Transmundo ID, mention of programming for "America del Norte, America Central, y America del Sur tambien"; slightly over mess. + JUN 26 0202 – US English talk, Trans-World Radio ID, hymn; in jumble with CHRC & CJAD. [Connelly*R-MA]
- 820 **ST KITTS & NEVIS** Trinity Broadcast Network/R Paradise, Charlestown, JUN 26 0030 – Caribbean-accented preacher recalling the Biblical passage on the Great Flood; over WNYC. + JUN 26 0101 – talk "I am Pastor Joseph Dean from Trinidad and I encourage you to listen to Radio Paradise, 820 on your dial."; then advert by a woman for a R. Paradise lapel pin; good/dominant.
- + JUL 31 0052 – testimony about being healed by prayer; good.
- + JUL 31 0131 – black gospel female chorus; good. [Connelly*R-MA]
- 840 **BRAZIL** ZYK687, R Bandeirantes, Sao Paulo, JUL 31 0000 – reverberated Portuguese talk; poor.
- + JUL 31 0031 – Sao Paulo mention.
- + JUL 31 0100 – Portuguese news by man. [Connelly*R-MA]
- 859.74 **unID** JUN 26 2348 – someone slightly off channel, putting weak growl against Brazil. [Connelly*R-MA]
- 860 **BRAZIL** ZYJ459, R CBN, Rio de Janeiro, JUN 26 0059 – man & woman in Portuguese; poor, over Spanish-language station that was likely YVYE. [Connelly*R-MA]
- 860 **BRAZIL** 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*R-MA]
- 880t **BRAZIL** ZYL275, R Inconfidencia, Belo Horizonte, JUN 26 0031 – presumed this with Portuguese talk; briefly over WCBS. [Connelly*R-MA]
- 895 **ST KITTS & NEVIS** V of Nevis, Bath Village, JUN 26 0159 – talk about freedom of movement; fair.
- + JUL 31 0102 – soul vocal then ID as V-O-N Radio (letters said individually rather than 'Von' word used previously); poor to fair. [Connelly*R-MA]
- 899.53 **unID** JUN 26 2348 – fragments of talk that was either Portuguese or Spanish; poor.
- + JUN 26 0059 – fast reverberated talk. [Connelly*R-MA]
- 900 **VENEZUELA** YVMD, Mara Ritmo 900, Maracaibo, JUN 26 0101 – adverts for businesses in several Venezuelan cities; slightly over dogpile of others and 899.53 growl. CKDH not noted, so maybe gone (to FM).
- + JUN 26 0158 – local adverts. [Connelly*R-MA]
- 939.879 **MEXICO** XEQ, R Besame, Mexico City, 0200 – XEQ noted significantly off frequency, putting a huge low frequency het on nominal 940. [Jordan-TN]
- 960 **CUBA** R Reloj, JUN 26 0100 – Reloj top-of-minute "RR" beeps cutting through WEAV. [Connelly*R-MA]
- 1000 **BRAZIL** ZYK522, R Record, Sao Paulo, JUN 26 0031 – man in Portuguese; poor to fair.
- + JUL 31 0000 – circus type music, Portuguese talk mentioning Sao Paulo; poor to fair. [Connelly*R-MA]
- 1000 **unID** JUL 31 0100 – pips about 25 seconds late (at 0100:25) mixed with Brazil and pig-pile of other signals. [Connelly*R-MA]
- 1100 **BRAZIL** ZYK694, R Globo, Sao Paulo, JUN 26 0031 – Globo and Sao Paulo mentions; way over WHLI.
- + JUN 26 0147 – Portuguese talk, local adverts; good.
- + JUL 31 0032 – fast Portuguese talk by man; coming up over WTAM.
- + JUL 31 0201 – reverberated Portuguese news; under WTAM. [Connelly*R-MA]
- 1110 **VENEZUELA** YVQT, R Carupano, Carupano, JUN 26 0100 – BLASTING in with ID "En Venezuela, Carupano", then timecheck "ocho, treinta minutos".
- + JUL 31 0200 – a Spanish-language cover version of the Beatles' "You're Gonna Lose That Girl", then ID "En Venezuela, Carupano", timecheck "nueve... treinta minutos"; loud, demolishing WBT. [Connelly*R-MA]
- 1139.4 **unID** JUL 31 0000 – weak het. [Connelly*R-MA]
- 1140 **BRAZIL** ZYH449, R Cultura, Salvador, JUN 26 0202 – Portuguese talk, female vocal; mixing with CBI.
- + JUL 31 0000 – Portuguese talk; weak but dominant.
- + JUL 31 0031 – "en Salvador" & "futebol" mentions in Portuguese talk; p. [Connelly*R-MA]
- 1149.827 **unID** JUN 26 0059 – low growl against WWDJ/others, couldn't hack much audio out of it. [Connelly*R-MA]
- 1160 **BERMUJDA** VSB3, Hamilton, JUL 31 0001 – BBC news by man & woman; under WSKW. [Connelly*R-MA]
- 1190.336 **COLOMBIA** HJCT, LV de la Costa, Barranquilla, JUN 26 0101 – Spanish talk occasionally separable from WLIB.
- + JUN 26 0202 – fast Spanish talk. [Connelly*R-MA]
- 1210.22 **unID** JUN 26 0059 – weak growl against W/PHT. [Connelly*R-MA]
- 1220 **BRAZIL** ZYJ258, R Globo, Rio de Janeiro, JUN 26 0100 – something about Sao Paulo, then news in Portuguese about Michael Jackson; over WHKW/WSTL/WPHX melange.
- + JUL 31 0030 – fast and highly reverberated Portuguese talk by man; slightly over others. [Connelly*R-MA]
- 1240.068 **unID** JUL 31 0030 – growl against WSYW/WBUR. [Connelly*R-MA]
- 1309.68 **unID** JUN 26 0145 – low growl against WLOB. [Connelly*R-MA]
- 1399.923 **unID** JUL 31 0054 – low growl against WVAE/WJZN/CBG. [Connelly*R-MA]
- 1620 **CUBA** JUL 31 0202 – instead of W/DHP, I noted ID of "Radio Progreso de Habana" topping the channel. Audio was somewhat compressed and tinny-sounding. [Connelly*R-MA]

*** CONTRIBUTORS ***

Mark Connelly MarkWA1ION@aol.com

[Connely*P-MA] = Rockport MA USA (GC= 42.667 N/70.621 W) (Granite Pier)

Receiver: Microtelecom Perseus operated with MSI Wind U100 netbook. **Antenna:** cardioid-pattern Micro-Super-Loop on car roof, square, 2 m per side, with 9:1 transformer on east bottom corner to speaker wire to 2:1 transformer to W7LUV transfer amp, and 9:1 transformer on west corner to speaker wire to 500 ohm null-adjust potentiometer. See http://home.comcast.net/~dx_lab/pictures/micro_superloop.htm for a similar antenna.

Brandon Jordan bcdx.org@gmail.com

[Jordan-TN] = Memphis TN USA

Receivers: Microtelecom Perseus, WinRadio G313e, Tecsun PL-300wt ultralight. **Antenna**

System: Wellbrook ALA-100 loop in 4m x 8m delta configuration, Wellbrook ALA330S.

73, Brandon.

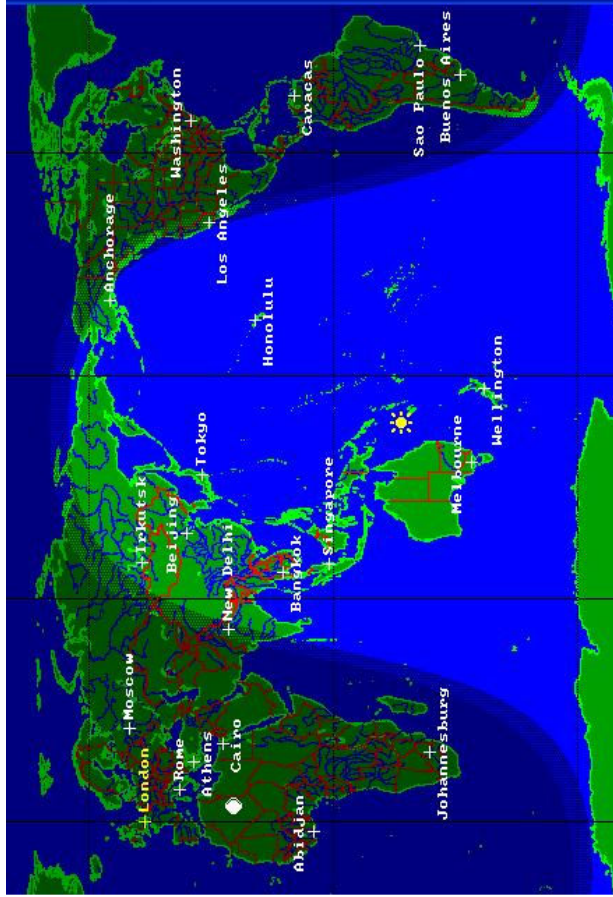
Newfoundland 2008 DXpedition Report, Part 2

Chuck Hutton: 1800 foot terminated Beverage at 40 degrees, 1500 foot terminated Beverage at 1500 degrees, Perseus receiver

India

Other than 3 superpower stations, India has not been heard from North America. This is not due to lack of transmitters or lack of power, but rather schedules. Almost all AIR stations leave the air before 1800 UTC with a few staying on a little later. Therefore, they are impossible from the US and extremely unlikely from Newfoundland. Only the 1566, 1134 and 1071 (no longer operating) stations had been heard due to their extended schedule.

However, most of the AIR stations sign on at 0025 UTC or close to that time. While eastern India is in sunlight then, some of the country is in darkness until about 0100. Here's the 0025 UTC picture:



Could any of the less-than-superpower Indians be heard in this half hour window of possibility? Yes, including a 20 kW station!

The key to hearing these Indians was to listen on channels with little or no European activity, since India is 6000 to 7000 miles (10,000 to 12,000 km) from Newfoundland while most of the European stations are around 5000 km.

The party started when listening to 1467 kHz at 0025 Nov 12. At that time, there was no European station on the air and Iran was fortunately off-channel at 1467.330 Hz. LSB reception left a poor (to almost fair on peaks) but lonely signal from Jeypore with 100 kW. This is very close to local sunrise of approximately 0020 and was by far the furthest east of the Indian receptions. The signal was still barely audible until 0100. This reception was repeated several nights, although with a poorer signal. With TWR off at 0000 and Radio Maria not on the air until 0500, India has the channel to itself!

Realizing the window of opportunity, I scanned for other open channels and here's the result:

648

Indore (Madhya Pradesh) 0025-0031 mixing of 2 stations at poor level: one with talk and the other with Indian music. Back 0045:40-0046, 0048, and 0049:40-0052:50 with poor level Indian music. 0053:45-0056:50 almost fair Indian flute music then 0056:50 a few words and 0057 back to music that ran over the hour.

873

Jalandhar (Punjab) with a fair signal on peaks, dominating the Europeans: Spain, AFN Germany and sometimes BBC Radio Ulster. Others (Rossii, Moldova) were off the air. Iran (often a pest) was nowhere to be found. A program of Hindi music was often on top from 0019 until 0041.

918

Suratgarh (Rajasthan) was amazing. From 0021 to 0034 this station was totally dominant with no sign of Spain or Slovenia under it! The signal was fair overall with periods where it was even better than fair. Indian music and news, with a tremendous AIR ID in English just after 0030 and then a newscast entirely in English.

954

Najibabad (Uttar Pradesh) 0030:07 poor to maybe fair on peaks with an Akashvani id. 0031:30-0032:40 & 0034:15-0035:10 & 0037:30-0038 fair with India news. In and out until 0102 with some interference from an Arabic station assumed to be Qatar that was IDed before and after.

990

Jammu (Jammu and Kashmir) 0056 – 0101:50 poor with Indian music usually far underneath Canadian QRM.

1395

Bikaner (Rajasthan): at only 20 kW, this was a shock. 0025:20 tablas and Hindi mx appeared and at 0026:11 a very poor Akashvani ID made it. Fair music to 0027. From 0056:05 – 0057:45 music, then 0059:05 – 0059:30 a man talking. To fair level with music until 0100 then at 0106:46 another poor Akashvani id. AIR South in Avadi is near Chennai so is well past local sunrise while AIR North in Bikaner (Rajasthan) is still in darkness and must be the source.

1467

Jeypore 0013:43 poor or poorer. Indian singing, 0015:00 poor talk. 0015:58 poor flute music. Either they were on a few minutes before listed sign-on, or I took bad notes.

I think some of these should be heard again as the path to India is approximately 40 degrees and therefore a very quiet sun with resulting extraordinary high latitude conditions is not needed.

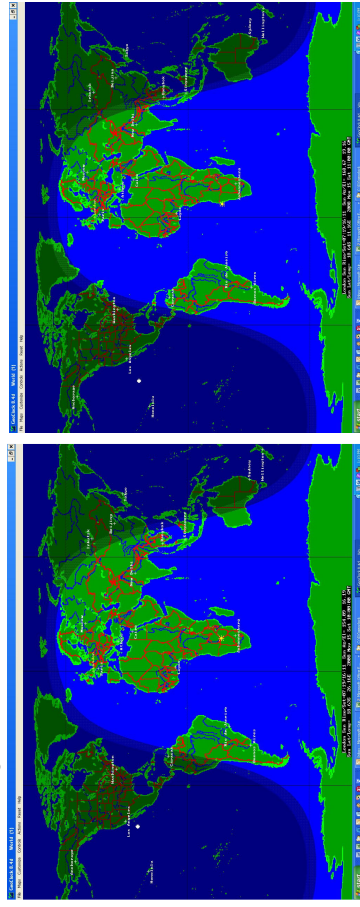
The Far East At Newfoundland Local Sunrise

In the 60's, a few trans-polar receptions of Far East signals occurred. I don't remember the details, other than that Pyongyang-655 was heard. Until Bruce Conti managed to hear Japan 747 a few years ago, I don't think there were any other TP receptions from the east coast.

One of our goals for the 2008 DXpedition was to pay some attention to TP DX. We even set up a special untermated Beverage on a north – south axis to give ourselves another possibility. Too bad it was noisy, being almost underneath a power line. We took it down and used our 40 degree, 1800 Beverage instead.

Great high latitude conditions kept me up late every night, so I did not do any live listening at local sunrise. Instead, I did recordings at the top and bottom of the hour from about 0800 UTC to 1000 UTC. At 0800, only the very northern tip of Japan is in darkness. By 1000, Japan, South Korea, North Korea, eastern China, Taiwan and Far East Russia would be in darkness.

Below you will see that local sunrise in Newfoundland is around 1030 UTC: the left picture is 1000 UTC and the right picture is 1100 UTC.



On the other side of the world: the left picture is 0800 UTC and the right is 1000 UTC.

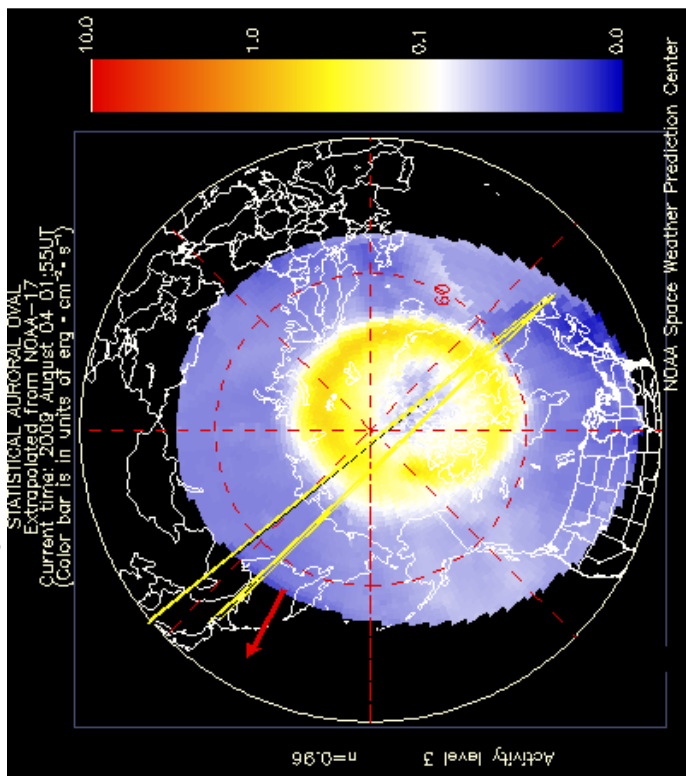
A quick check of the Japanese powerhouse frequencies (594, 693, 747, 774 and 828) showed nothing for Nov. 10. Ditto for Nov 11. Same for Nov 12. 13. No recordings from Nov 14 due to a glitch. Should I even bother to listen to the recordings from Nov 15, the last morning of the DXpedition? Oh, why not? It will only take a few minutes to see that again nothing was heard.

And nothing was heard at all. Until I checked 981 kHz, that is. Wow! That is the CNR theme music I heard at poor-fair levels! Shock set in, as I knew there must be more to hear. And there was....

- 819 **NORTH KOREA** Pyongyang KCBS 0930:50 poor with operatic music. 1000 poor with Korean talk followed by pips. Frequency was off at 819.073 kHz.
- 972 **SOUTH KOREA** Dajin KBS: at 0930 fair in apparent Korean. At 1000 a slow set of pips and a set of 4+1 pips but I don't know which was Korea and which was China or Russia or ??
- 981 **CHINA** Changchun (Jilin) 0930 fair at best with clear Chinese talk. 1000 poor but sure CNR theme music and ID. A bit of echo was heard, indicating (just like my receptions from the west coast) a non-synchronized network.
- 999 **NORTH KOREA** Hamhung KCBS noted on 998.920 at 1000, very poor with just a few notes of audio. Off channel as always.
- 1035 **CHINA** CNR1, various sites. 1000 UTC poor with growl from slightly off frequency station(s) and assumed 5 short and 1 long pips, although the deteriorating signal made a few pips tough.
- 1053 **SOUTH KOREA** jammer, various sites: if they want to know, their jammer prevented anyone in Newfoundland from hearing North Korean transmissions. Noted 0930 and 1000 with the brain-jarring jammer noise.
- 1062 **UNID** 1000 some sort of musical sounder or theme, hopefully to be identified by someone in the Far East.
- 1071 **UNID** 1000 someone with the last of their hourly pips, but nothing else.
- 1089 **CHINA** Liaoning assumed 0929-0931 poor or a little better with Chinese. 1000: standard Beijing time check.
- 1098 **TAIWAN** (?) 0930 fair carrier but only bits of audio. 0958-1001 poor Chinese but not good enough to say whether it is Mandarin, Cantonese, Amoy or ?? Low growl also present.
- 1107 **UNIDS** 0959 on 1106.970 & 1107 with poor audio. Not a channel I expected to hear TP's on.
- 1125 **CHINA** 1000 poor – fair with standard Beijing time check.
- 1134 **JAPAN** NCB Tokyo and **SOUTH KOREA** Kimpo KBS: 0929 Japanese, mixed with seeming Korean. 0959-1001 mix of the two with quiet instrumental music and talk.
- 1143 **UNID** 0930 poor with music too poor to identify. A shame, as anything here would be interesting.
- 1170 **SOUTH KOREA** KBS Gimje the champion of the TP signals: 1000 UTC fair, on top of WWVA with the KBS World Radio theme music and a handful of KBS World Radio ID's in slightly accented English.
- 1188 **UNID** with pips at 1000, no possibility of an ID.
- 1206 **CHINA** 0859 fair to poor with Korean? About 20 Hz low. 1000 fanfare at poor level and 1000:55 fair in what seemed Chinese but should be Korean.
- 1251 **UNID** 1000 poor Chinese talk. I'm not sure if this is Voice of Russia in Chinese (the schedule is confusing and I'm not sure if they sign on at 1000 or 1100) or China.
- 1251 **UNID** poor on 1250.960 with bits of audio.
- 1278 **JAPAN** Fukuoka RKB 0900 poor – fair Japanese. 1000 RKB theme music and several IDs at fair level and all alone. I give them second place behind Korea – 1170 for best signal.
- 1278 **CHINA** Hebei dominated by RKB but just enough signal to have the language confirmed as Chinese by Hiroo Nakagawa. 0930 mixing with Japan but not heard later.
- 1287 **SOUTH KOREA** MBC Cheongju/Gangneung (10 kW each) 0900 poor with the very distinctive MBC chimes! Perhaps the biggest shock of the TP sunrise DX. I have not heard this MBC outlet from the west coast so hearing it from the east coast was unimaginable.
- 1305 **UNID** 1000 poor music at the top of the hour – likely South Korea.
- 1323 **UNID** 1000 poor talk.
- 1323 **UNID** carrier on 1322.950.
- 1332 **UNID** 1000:20 poor or slightly better talk seems Asiatic but I can't tell what.
- 1359 **CHINA** CNR, various 1000:08 poor piece of CNR theme music heard. Very tough, as a poor signal and a bit of nearby Loran almost covered it.
- 1377 **CHINA** Xinyang CNR 1000 to poor-fair peak.
- 1413 **JAPAN** KBC Fukuoka 0900 poor or a little better. By 0928, fair with KBC theme music. 0958:04 and 0958:11 fair with KBC ID's. They were tied for second place with 1278 Fukuoka.
- 1422 **UNID** 1000 poor talk, probably not going to tell me anything.
- 1467 **UNID** 0958 – 1001 poor or slightly better talk.
- 1476 **TAIWAN** (seemingly) 0958 poor – fair Chinese and religious music up to the hour.
- 1557 **UNID** just a bit of poor talk at 1000:50. This should not be South Korea as they are not on the air until 1100.
- 1566 **UNID** 1583.035 poor carrier at 1100.

What's interesting is what I did not hear. There was absolutely nothing heard below 819 and the action really started in the top half of the band. How can I receive Japan on 1278 and 1413 at fair levels but hear nothing from the superpowers on 594, 693, 747, 774 and 828? It's interesting that 1278 and 1413 are both from Fukuoka. Fukuoka has a bearing of 357 degrees while Tokyo and Sapporo are at 347 degrees. Fukuoka is as far north a path as is possible from Japan and the rest of the country has a bit less "over the pole" path. My guess is that Fukuoka (and the Koreans and China) just missed the inner edge of the extremely small auroral zone during this period of extremely low solar activity. Most of Japan was swallowed by the auroral zone.

The NOAA picture below helps to show the relationships. This map is centered on the geographic North Pole, so it is not correct for me to draw a straight line between Fukuoka and Newfoundland (the rightmost yellow line) or Tokyo and Newfoundland (the leftmost yellow line). Ignoring any small distortions that result, the paths cross through the auroral zone (in yellow). Unfortunately the picture below is from August 04 2009 rather than November 2008, but remember the center of the auroral zone doesn't normally move much and it is the outer edge of the doughnut hole and the Tokyo path is at least fair to say the Fukuoka path is right in the middle of the doughnut hole and the Tokyo path is at least closer to the auroral doughnut. All this ignores frequency: 1278 and 1413 may have propagated differently than the low-band powerhouses with Fukuoka fortuitously bouncing under the aurora up to a point over the doughnut hole and then back under the aurora while poor Tokyo's ionospheric reflection point happened to be right in the aurora.



Coming soon: Volume 3, with Mozambique on 1260 and various southern Africans, 10 kW Iranians, and more.

DX FORUM
Richard C Evans – 3908 Grand Oak Ave Apt 4 – Indianapolis IN 46237
E-mail: REvans5435@yahoo.com DEADLINES: Sundays

Mike Sanburn, PO Box 1256, Bellflower, California 90707-1256
 This is the last call for the 2009 IRCA convention in Albuquerque! Hope to see many of you there. We will be meeting in the TAOS ROOM of the hotel (Thu, Fri, and Sat). KALY tour has been confirmed for Friday (albeit a short one). Got some neat goodies for the Saturday auction. Finally, I would like to echo the comments and thank yous going out to Phil Bytheway for his many years of service to IRCA! 73 Mike

2009-2010 IRCA Focus on Five DX CONTEST
Manager: Nancy Johnson – 265 Waterton Wy – Billings MT 59102-7755
E-mail: NancyJohnson@prodigy.net

2009-2010 IRCA FOCUS ON FIVE DX CONTEST RULES
 The object of this year's IRCA contest will be to hear stations on five frequencies that YOU chose. Your five frequencies must be stated in your first contest entry and cannot be changed. A station can be located in the US, Canada, or Mexico. Each station will be worth one point. The contestant with the

most total points at the end of the contest will be determined the winner. Entry reports must include the call letter and frequency, along with the location of the station, and date and time heard.

The contest will begin at 0001 on September 1 2009 and end 2359 on May 31 2010. The contestant with the highest amount of points will be declared the winner. In the event that two people have the same number of points, the person that reached that number first will be the winner.

The contest will be open to all IRCA members in good standing. Entrants will be disqualified if they cease to be members of the club. You may join the contest at any time during the year.

All loggings must be made within 25 miles of your main DX location. Normally this is your home, for students this might be your college dorm. If a person moves during the contest they may start over at the new location.

Stations must be in the normal 530-1710 kHz band, licensed by the US, Canada or Mexico. TIS and utility stations are not eligible for contest purposes. To count a US station, you must hear the actual call letters. To count a Canadian or Mexican station, you must hear the actual call letters or hear a recognized slogan plus location. Loggings may be first time heard, or relogs of stations heard before. If a station changes call letters it may be relogged and be counted.

Your contest report of stations heard in any particular month must be postmarked by the 5th day of the following month. For example, a station heard on October 12th must be submitted by November 5th to be eligible. Failure to do this will disqualify the item in question for points. Contest entries must not be sent along with WDXR DX tips as they easily become lost when filed away in the WDXR file. Contest entries may be sent e-mail or postal mail to the address above. E-mail entries must not be "attached files."

The contest manager will have the final word on all station and interpretation of all rules, including disqualification of a station for scoring or a member from the contest. The contest manager may join the contest, but will be ineligible for the prize.

Standings will be updated on the 15th of each month and results published in the next available bulletin subject to normal deadline delays. The final standings will be tabulated on June 15, 2010 and will appear in the July bulletin, subject to space in that bulletin. There is no entry fee for the contest.

Entry in the contest implies consent to all rules, including those which may appear later as necessity dictates. If you have any questions please write.

Prize: \$5.00 IRCA Bookstore Credit for the contest winner. Have fun! 73--Nancy

IRCA TECHNICAL COLUMN

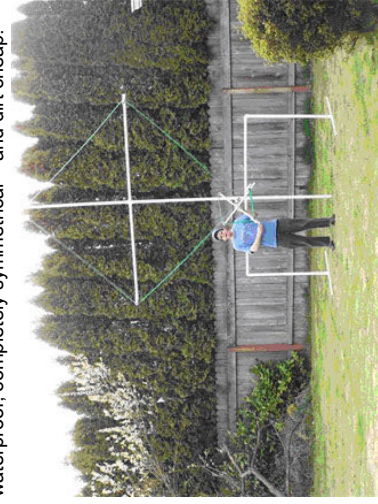
Nick Hall-Patch – 1538 Amphion St – Victoria BC Canada V8R 4Z6

E-mail: nhp@ieee.org

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!



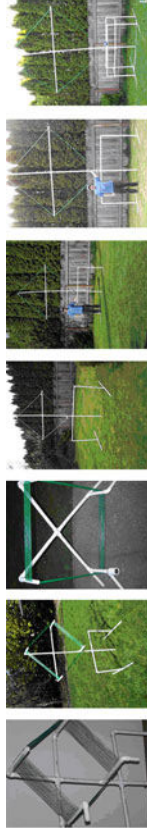
The Benefits: Tuned passive loops have been with us for decades, and many fine designs have been published in the IRCA and NRC technical guides. Popular with hobbyists because of the significant DX signal boost provided by a simple loop and tuning capacitor, tuned passive loops are available in either 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 a 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", 21", 34", 4", 53", 56", 63", 77", 91", 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 nullified 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 that 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 1/2" and 3/8" wide mahogany firing 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.

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.

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"	7"	10.5"
Loop Turns	20	12	9	7	6	6	6	4	4	22
Coil Turn Spacing	0.3"	0.3"	0.3"	0.3"	0.3"	0.3"	0.6"	0.6"	1"	0.3"
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 (lb.)	2	2.5	4.5	5.5	6.5	7	9	12	14.5	9.5
Weight of Loop (lb.)	3.5	4	6	7	8	8.5	10.5	13.5	16	15
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" 38

*** For the 1.5" 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. 1 pt variable capacitor

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.

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 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.

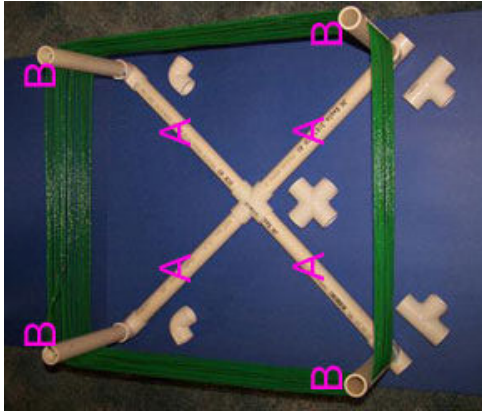


Ensure the spacing between these notches is close to the "coil turn spacing" specified in Table A, for your chosen loop. Experienced users of a circular saw may set the blade depth to one "tooth" of a finishing blade, clamp the pipes in a horizontal position, and use wooden spacers to quickly cut multiple notches with perfect symmetry (as shown on page 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.

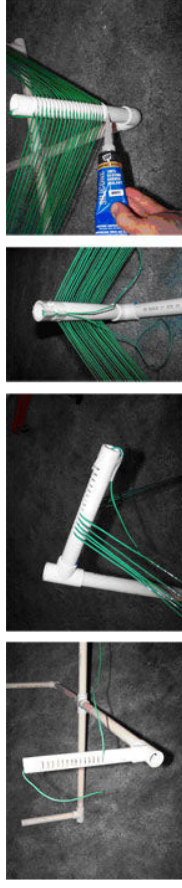
- 3) Take the PVC cross fitting, and make a "dry run" prior to gluing (as explained on Page 5), to ensure that all four "Pipe A" pipes will insert easily into the fitting, and come close to bottoming out in the recessed slot. De-burr the ends of the pipes as necessary, to ensure smooth insertion in the 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, ensuring 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. 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.
- 5) 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.
- 6) 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.
- 7) 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 9, 10 and 11 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 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 silicone 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 silicone 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.



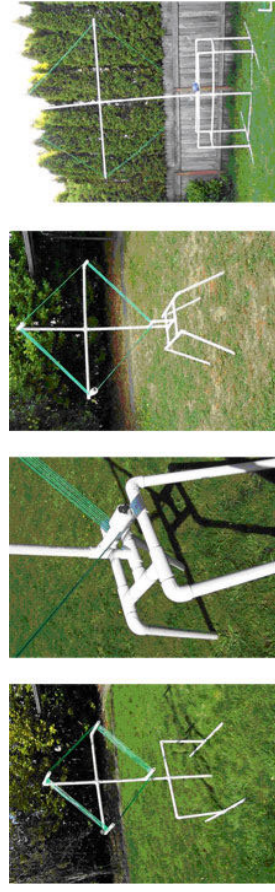
Final Electrical Assembly: For those builders wishing to connect the recommended "N50P" variable cap from Crystal Radio Supply and waterproof their loop, final instructions follow. If you wish to connect a different variable cap and are not concerned about waterproofing, ensure that the leads to your 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. Measure 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 that 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.)

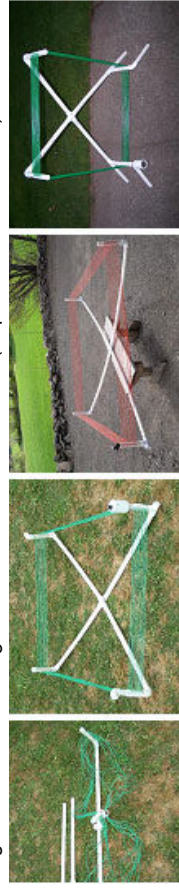
Operation and Performance: When mounted in a vertical position on an insulating stand, your new PVC Loop should provide a very strong DX signal boost when its loop coil is broadcast to the DX (i.e. the loop frame pointing at the DX station), whenever a radio tuned to its frequency is held within a few 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 sort 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 that 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 AMI 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 recordings have been posted on Dxer.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 DXing 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.

(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.)

A DXers Technical Guide, 4th Edition (Spring 2004)

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

Prices: **IRCA members** – \$15.00 (US/Canada/Mexico/sea-mail), \$20.50 (rest of the Americas/Europe airmail), \$21.50 (Australia/Japan/New Zealand airmail). Non-IRCA members – add \$2.50.

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: **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-IRCA members – add \$2.00.

IRCA Slogans List (Winter 2008)

This completely revised Slogans List includes radio slogans from the US, Canada and Mexico (over 4000).

Prices: **IRCA members** – \$6.00 (US/Canada/Mexico/sea mail), \$8.00 (rest of the Americas/Europe airmail), \$8.50 (Australia/Japan/New Zealand airmail). Non-IRCA members – add \$1.00.

IRCA TIS/HAR List (Fall 2004)

Mike Hardester has completed the most up to date list yet. 56 pages of top-notch information on current TIS/HAR stations in the AM Band.

Prices: **IRCA members** – \$8.50. Overseas, add \$3.00. Non-IRCA members – add \$1.00.

IRCA Foreign Log

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

The IRCA has published nine additional volumes of the **IRCA Foreign Log**. Each volume contains the several hundred actual tips that were reported to the DXWW sections during an entire year, compiled and retyped in a book format. In addition, special features include articles on foreign DXing (volumes 6, 7 and 8), utility lists (volumes 7 and 8), shortwave parallels (volume 8) and BCB propagation (volumes 6, 7 and 8). The **IRCA Bookstore** still has volumes 3, 4, 6, 7 and 8 of the **IRCA Foreign Log** available for \$2.50 each (overseas airmail add \$2.50/book).

Sunrise/Sunset Maps

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

Prices: **IRCA members** – \$2.25 (US/Canada/Mexico/sea mail), \$3.00 (rest of the Americas/Europe airmail), \$4.00 (Australia/New Zealand airmail). Non-IRCA members – add \$1.00.

IRCA Reprints

The IRCA maintains a large file of articles that have appeared in past issues of **DX Monitor**. These articles cover a wide variety of topics, including: antenna theory and construction, tips for the foreign BCB DXer, how to improve your DXing skills, history of DXing and broadcasting, lists of stations by subject, construction projects and receiver modification, receiver reviews, medium wave propagation, and more. Copies are available for a nominal charge. Price for the complete list is \$1.00.

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