

# DX News

Serving DX'ers since 1933

Volume 67, No. 29 - August 14, 2000 (ISSN 0737-1659)



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### CPC Test Calendar

WMIB FL 1660 Aug. 20 0000-0400

**From the Publisher ...** Already a test from NRC's Phil Beckman to end the summer DX season. These get out well and generate reports from as far away as Europe, so join in the fun: "WMIB will be testing 08/20 from 0000-0400 at 10kw with old rock 'n roll, old jingles and old jokes." Their address is 601 Elkcam Cir. #B - Marco, FL 33937.

I think we're up and running almost normally after the infamous hard drive crash in July, but if you sent me or an editor material for publication, and you haven't seen it in print yet, kindly resend it. Although the data recovery service (VERY expensive; back up YOUR hard drive NOW!) recovered about 90% of the hard drive, media damage prevented retrieval of some info, most of which had been saved in late June and early July on the hard drive.

**NRC 2000 ...** Last call for the convention! The 2000 NRC Convention will be held in Lima, OH and hosted by Fred Vobbe, Publisher of the DX Audio Service. The convention will be held at the Hampton Inn, located at 1933 Roschman Avenue, Lima OH 45804. (Intersection of I-75 and State Route 309).

The hotel's phone number is 419-225-8300. (FAX 419-225-8328). To book your room call the Hampton Inn and tell them that you're with the National Radio Club and your CODE is "NRC". Room rate is \$69.00 per night, and there is a block of 24 rooms till August 19, 2000. Rooms are blocked from 8/31/2000 to 9/4/2000. You can hold your room by credit card.

Convention Registration is \$35.00 per person until August 19. After August 19, or if paid at the convention, it is \$40.00. Convention registration includes all the beverages for the weekend, snacks, the N.R.C. Banquet, and a special picnic dinner from 5:00-7:00 PM on Friday night sponsored by the editors of the DX Audio Service in the hospitality room. A continental breakfast is provided for the Hampton hotel registrants in their spacious breakfast area every morning. Our banquet will be an all you can eat buffet with steak. You will not go hungry in Lima!

In addition to the business meeting, and auction, there will be the NRC Quiz; new for this year

will be a scavenger hunt (less WSRD stickers), and John Bowker will record the Travellog for the October issue.

For details via Email contact Fred Vobbe at fredv@nrcdxas.org or see the convention information at <http://www.nrcdxas.org/convention>. You can send in registrations to: NRC Convention, Fred Vobbe, 706 Mackenzie Drive, Lima OH 45805-1835. Prepaid calls to 419-228-4199. Best time to call is between 6-9 weekdays, and daylight time on weekends.

Bring your radios, and let's talk radio at the 2000 Convention!

CPC ... Blaine Thompson is already sending out letters now for September 15, 2000 dates, so send him stamps, targets, and \$ for supplies. His address is P. O. Box 15762 - Fort Wayne, IN 46885-5762.

### DXN Publishing Schedule, Volume 67

Iss.	Deadline	Pub. Date	Iss.	Deadline	Pub. Date
30.	Sept. 8	Sept. 18			

### Partial DXN Publishing Schedule, Volume 68

Iss.	Deadline	Pub. Date	Iss.	Deadline	Pub. Date
1.	Sept. 22	Oct. 2	8.	Nov. 17	Nov. 27
2.	Oct. 6	Oct. 16	9.	Nov. 24	Dec. 4
3.	Oct. 13	Oct. 23	10.	Dec. 1	Dec. 11
4.	Oct. 20	Oct. 30	11.	Dec. 8	Dec. 18
5.	Oct. 27	Nov. 6	12.	Dec. 15	Dec. 25
6.	Nov. 3	Nov. 13	13.	Dec. 29	Jan. 8
7.	Nov. 10	Nov. 20	14.	Jan. 5	Jan. 15

### DX Time Machine

#### From the pages of DX News:

50 years ago ... from the August 5, 1950 DXN: NRC contest winners were announced, with Alan Arnold, Milwaukee, WI, first in the Domestic Contest with 489 points, winning \$3 and a plaque, and Len Kruse, Dubuque, IA, second with 477 points, winning \$2; in the Foreign Contest, Randy Hunt, Encinitas, CA was first, winning \$2, and Gene Allen, Vallejo, CA was second, winning \$1.50

25 years ago ... from the August 11, 1975 DXN: The NRC membership level passed 700 for the first time.

10 years ago ... from the August 27, 1990 DXN: Strother Communications petitioned the FCC for a sweeping rules change to replace all AM and FM stations in favor of a DAB (digital) service.

# AM Switch

**Jerry Starr** w8jv@yahoo.com  
c/o WIIOT Radio  
4040 Simon Road  
Youngstown, OH 44512-1320

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

## CALL LETTER CHANGES

	<i>Old call</i>		<i>New call</i>
550	WLKW RI	Pawtucket	WICI*
610	KHTL NM	Albuquerque	KNMI
900	CJVI BC	Victoria	CKMO
1030	WWGQ TN	Memphis	WGSF
1050	KNML NM	Los Ranchos de Albuquerque	KHTL
1210	WGSF TN	Bartlett	WWGQ
1230	WZZQ IN	Terre Haute	WBZU
1270	KTRT OK	Claremore	KRVT
1380	WTVR VA	Richmond	WVBB
1440	WRBP OH	Warren	WRRO
1490	KBAS AZ	Bullhead City	KZZZ
1550	KYJY NM	Albuquerque	KKJY
1560	WTMS FL	Melbourne	WAOA
1640	KBFO OK	Enid	KMMZ

\*WLKW request for WBZU shown last issue was set aside in favor of WICE

## APPLICATIONS FOR NEW STATIONS

680 PR Arcibo: no facilities shown, synchro for WAPA San Juan

## GRANTS FOR NEW STATIONS

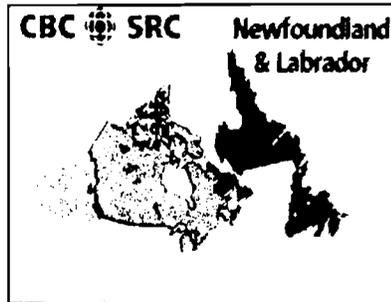
660 OR Eugene: 0/140 N1 (synchro for KZTU Junction City, OR)  
890 CA Arroyo Grande: 5000/1000 U2  
1220 ON Cornwall: 1000/1000 U4 (replaces CJSS which moved to FM)

## APPLICATIONS FROM EXISTING FACILITIES

620 WKHB PA Irwin: 5500/400 U2  
740 KATK NM Carlsbad: 1000/500 U1  
800 KDDD TX Dumas: 250/8 U1  
910 WHSM WI Hayward: 5000/70 U1  
920 WMOK IL Metropolis: 1000/73 U5  
1140 KCXL MO Liberty: 500/6 U1  
1280 WADO NY New York: 50000/7200 U4  
1320 WLOH OH Lancaster: 500/16 U1  
1340 WWNA PR Aguadilla: 1000/800 U1  
1400 CKGO BC Hope: to 100.5 FM  
1400 CKFL PQ Lac Megantic: to 106.7 FM  
1440 WCDS KY Glasgow: 5000/30 U1  
1470 WWBG NC Greensboro: 10000/5000 U4  
1510 KVCI TX Canton: 2500 D3  
1530 KDSN IA Denison: 500/13 U1  
1560 WSQR IL Sycamore: 198/210 U2

## GRANTS TO EXISTING FACILITIES

540 WLUX NY Islip: 320/204 U5  
540 WETC NC Wendell-Zebulon: 8000/500 U4  
580 WELO MS Tupelo: 770/95 U1  
640 WLVI FL Royal Palm Beach: 25000/37500 U4  
730 WFMW KY Madisonville: 500/215 U1, relocate transmitter site  
760 WCHP NY Champlain: 35000/11 U4  
850 KJON OK Anadarko: 5000 D3, relocate transmitter  
880 WTZY NC Fairview: 5000 D1



1020 KOTD NE Plattsburgh: 6000/5 U1  
1030 WNVN IL Vernon Hills: 5000/5 (3200 CH) U11 (this is a brand new antenna mode designator for this unique combination: separate directional patterns for day-time and critical hours and non-directional nights)  
1100 KZPM CA Bakersfield: 4200/800 U2  
1130 KQEO NM Milan: 5000/20 U1  
1140 WRMQ FL Orlando: 5000 D1  
1150 WTMP FL Egypt Lake: 5000/500 U4, relocate transmitter  
1300 KGLO IA Mason City: 5000/5000 U4  
1300 WWCH PA Clarion: 850/28 U1  
1310 WYND FL Deland: 8500/95 U1  
1350 KABQ NM Albuquerque: 5000/120 U1  
1410 KYFV TX Victoria: 500/740 U2  
1450 KVSL AZ Show Low: 1000/950 U1, relocate transmitter  
1510 WRNJ NJ Hackettstown: 2000/230 U2  
1520 WTLM AL Opelika: 1000 (1000 CH) D1  
1520 KKJY NM Albuquerque: to 1550 kHz with 5000/20 U1



CHAMPLAIN RADIO INC.  
137 RAPIDS ROAD / BOX 888  
CHAMPLAIN, NY 12919

## OTHERNESS

540 KKGO CA Costa Mesa: station is SILENT and will not return to the air, license CANCELLED  
630 WMFD NC Wilmington: silent station is ON THE AIR  
800 KQCV OK Oklahoma City: CP for 2500/1000 U4 is on  
830 KPLS CA Orange: CP for 30000/20000 U2 is on  
920 KGHO WA Olympia: station is SILENT (again)  
990 CJCJ2 NB Plaster Rock: station will remain on the air and relay CIKX-FM Grand Falls, had been slated to go silent  
1100 KZPM CA Bakersfield: new station is ON THE AIR (began 7/22)  
1120 KJSA TX Mineral Wells: station is now here, ex-1140 kHz  
1140 KCLE TX Cleburne: station is now here, ex-1120 kHz  
1160 WSCR IL Chicago: is now simulcasting on 1160 and on 670 until 8/15 with the WMAQ calls still licensed to 670. After 8/15 WSCR will move to 670 and 1160 will be an FM simulcast until it is sold, no word on what the 1160 call will become. Stay tuned.  
1210 WQLS AL Ozark: silent station is ON THE AIR  
1230 CJLP PQ Disraeli: CP to move to 107.1 is on  
1340 KFEZ KS Kansas City: station is IDing as "KCKN" but this call is still licensed to 1020 Roswell, NM  
1340 KSRR NM Santa Rosa: station is SILENT  
1340 WCVI PA Connellsville: silent station is ON THE AIR  
1340 WWPA PA Williamsport: silent station is ON THE AIR  
1380 WKDM NY New York: station is SILENT, will return to the air in September with NYC's first Spanish all-news format  
1550 KKJY NM Albuquerque: station was silent on 1520 kHz but is now ON THE AIR on this frequency

THANKS: Bill Hale, Ed Krejny, Shawn Axelrod, Eugene Hinton, Barry Finkel, Bill Collins, Wayne Heinen & MSJ

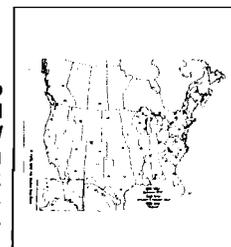
*Jerry & BKF*

73 and Good DX, Jerry Starr & Buffalo K. Foonman

## AM Station Location Maps

5th edition - \$12.00 to members  
(\$17.95 non-members), postpaid.

Compiled by Bill Hale, this must-have companion to the **AM Radio Log and Nighttime Pattern Book** shows the location of all U. S. and Canadian broadcast stations (except TIS/LPRT) as well as latitude/longitude coordinates, plus instructions by Dave Sundius enabling users to calculate distance and bearing to any station. This book is three-hole punched for a letter-size ring binder. Order from NRC Publications - Box 164 - Mannsville, NY 13661. NY orders, please add sales tax.



# Domestic DX Digest

West: Bill Hale phantom2@eaze.net

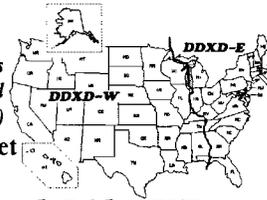
6124 Roaring Springs Drive - North Richland Hills, TX 76180-5552

East: Michael Shaw thousandislands@mediaone.net

25 Trask Ct Apt 14 - Beverly MA 01915-5370

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

(Division line is  
between East and  
Central time zones)



## DDXD-West

### MEDIUM WAVE RAMBLINGS

- o If you live west of the Eastern Time Zone, your DX and station news/tips are always welcome here. Lots of new 'west' members have joined recently, so this is the place for you contributions. Join us here, and let us hear what's been coming through your speaker/headphones/fillings.
- o This month's "whoops" is another miscue by ye editor. When cutting and pasting the Graveyard record for Russ Edmunds' WMOG record the cutting went OK, but the line was pasted under 1450 instead of 1490. It appears below, under the correct frequency. Don't forget, ALL the Graveyard DX Achievements records are on line at: <http://www.angelfire.com/tx2/phantom2/index.html>.
- o For those of you heading to the convention, have a great time. I was planning to attend, but recent events ere at the old homestead have interfered with those plans. But I'll be thinking of you all.
- o One more issue to go. Then it's time to say goodbye... to Volume 67 of DX News. The deadline for DDXD-West for Issue 30 is September 6, 2000. DX early and DX often. See you here!

### REPORTERS

- FA-ID Frank Aden Boise DXing in Eastern Idaho 1998 Ford Windstar radio  
 SA-MB Shawn Axelrod Winnipeg Icom ICR-70 & Drake R8 + 4 Foot Unamplified Box Loop/  
 Quantum Loop, 145' outdoor wire, 100' indoor wire, MFJ 1026 Phasing Unit  
 <saxelrod@mb.sympatico.ca>  
 AB-CA Art Blair Folsom NRD-515 & Kiwa Loop <blairs@calweb.com>  
 JC-TX John Callarman Mount Vernon, IL DXing from Krum  
 GH-KS Gary Houdek Munden Magnavox digital radio  
 TRH-CA Tim Hall Chula Vista ICF 2010, KIWA Loop <halls@inetworld.net>  
 TRH-TX Tim Hall DXing on a business trip to Houston ICF-2010, KIWA Pocket Loop, Ford car  
 radio  
 GJ-CA Gary Jackson Sacramento FRG-8800 + Kiwa Loop  
 AR-IL Andy Rugg 1996 Buick car radio Western Illinois on/off Interstate between Galesburg  
 and Carthage  
 AR-IA Andy Rugg 1996 Buick car radio NW Iowa between Sioux City and Spencer  
 AR-NE Andy Rugg 1996 Buick car radio on/off Interstate roads in Northeast Nebraska be-  
 tween Blair and South Sioux City  
 CR-IL Christos Rigas Wood Dale R-2000, ICF-2010, Kowalski Loop <crigas@birinc.com>  
 JJR-WI John J Rieger South Milwaukee Radio Shack DX398 stock <[http://DX-  
 midAmerica.com](http://DX-midAmerica.com)>  
 JW-CO Jihn Wilkins Wheat Ridge Drake R8, KIWA loop <peakbagger3@juno.com>  
 Ed.-TX Editor North Richland Hills Delco caradio; ICF-2010

### STATION NEWS & NOTES

- 670 WMAQ IL Chicago - Per Jim Kirk's Media Column in the Chicago Tribune on 7/27, the WMAQ call letters will officially remain until August 15, 2000. On August 1st, WSCR (The Score) moves its programming from 1160 kHz to 670 kHz. The Score's programming will, however, be simulcast on 670 and 1160 kHz until August 15, 2000. For legal purposes, 670 kHz will have to be identified as WMAQ. On August 15, the calls on 670 will become WSCR, while the programming on 1160 kHz will be a simulcast of WXRT FM 93.1, which is also owned by CBS/Infinity. WXRT programming on 1160 kHz will be simulcast until CBS/Infinity finds a buyer for the 1160 kHz station. (CR-IL) ... and this follow-up ...

- 670 WMAQ IL CHICAGO - 8/1 1200 - The official NBC TOWER • 455 N CITYFRONT PLAZA • CHICAGO, IL 60611

**WMAQ ALL NEWS 67**

**WMAQ 67**



switch from All News to Sports Radio happened as scheduled. At 1159 announcement was made for listeners who want to hear news to switch to WBBM AM 780. At 1200 dual ID for WMAQ 670 and WSCR 1160 was given, followed by a short history of

WSCR - The Score (moving from 820 kHz to 1160 kHz and now to 670 kHz). After that the Mike North show live from the Harry Carey's Restaurant was broadcast. Frequent Score Sports Radio 6-70 slogans were mentioned. After 1200 the programming on 670 and 1160 kHz was the same. This will stay that way until August 15th, when the 1160 kHz will be used to simulcast WXRT FM 93.1. This will last until a buyer for AM 1160 is found. (CR-IL)

- 690 KECN ID Blackfoot - 7/8 - Running SS all afternoon. Not // KICN-1260. (FA-ID)  
 1120 KJSA TX Mineral Wells - 7/31 - Has switched to this frequency... finally. Still 250 watts daytime. [Ed.-TX]  
 1140 KCLE TX Cleburne - 7/31 - Has switched to this frequency. Although still operates at D1 250/0, is planning tests of both the new day (850 watts) and nighttime (710 watts) arrays. Both patterns are directed in the general direction of... Denver! So you Rocky Mountain guys keep listening. [Ed.-TX]  
 1150 KJBC TX Midland - 8/1 - Ex: classic country; now Mother Angelica's EWTN. [Ed.-TX]  
 1240 KMCL ID Donnelly - 7/18 - // with FM. Mountain Air slogans, playing AC/oldies. Very weak from McCall to Donnelly and pretty much gone by time I got to Cascade. Very weak in Donnelly itself. (FA-ID)  
 1260 KICN ID Idaho Falls - 7/8 - Running SRN, news talk. Running dual IDs for KECN, but KECN was not // them! (FA-ID)  
 1310 KLIX ID Twin Falls - 7/8 - Running // KIDO, with KIDO ID at top of hour, but KLIX ID after ABC News. News Radio 1310. (FA-ID)  
 1400 KIGOT ID St. Anthony - 7/8 - Very weak on I-15, running oldies. Did not hear ID, but suspect this was them. Definitely not C&W. Will try to follow up on this one. (FA-ID) [follow-up below - Ed.]  
 1400 (KIGO) ID St. Anthony - Called the chamber of commerce in St. Anthony after got back from trip. They confirm, station is not on the air & know of no plans of coming back on. Not sure who I was hearing east of town last week, maybe KART? (FA-ID)

### UNIDs and UNID HELP

- 1340 UNID ?? - 7/13 0659 - Star Spangled Banner, slogan Your first choice for news. Seemed to loop NNW, but hard to be sure as I was using the Pocket loop. (TRH-TX)  
 1340 UNID ?? - 7/14 0006 - C&W station noted often. Weather by man (high 100!), then... now back to the best country music on 13-40... KNBQ(?). Also noted C&W (or classic C&W) with 97.5, today's kind of country, and at 0800: All country KTMQ? 13-40 into ABC News. (TRH-TX)  
 1340 UNID ?? - 7/14 0756 - ID sounded like KTMA. Ad for auto racing. Soon faded, as did just about everything else this time! (TRH-TX)  
 1400 UNID ?? - 7/13 0451 - Spanish station using La tremenda slogan noted often while I was in town. (TRH-TX)  
 1400 UNID ?? - 7/13 0728 - Spanish religious program with Houston address. ID sounded like KYLR 1400 AM which is the old call letters for Huntsville. Mixing with other Spanish station. Did not seem to be KHCB Galveston, which was noted later with frequent use of Radio Amistad slogan. (TRH-TX) [1400 in Galveston is KHCH and // KHCB-FM105.7 Houston which is REL. Whether they broadcast some or part in SS...?? - Ed.]  
 1400 UNID ?? - 7/14 0736 - Community calendar with man talking about the St. Mary's School Board. This school board is located in Centerville, Louisiana, which is not too far from Houston, but none of the Louisiana stations on 1400 are particularly near Centerville. May be an FM simulcast, as I thought I caught a mention of 107 when the announcer was referring to the station. (TRH-TX)  
 1490 UNID ?? - 7/14 0737 - Ad for Harry Lee (?) Ford-Mercury dealer. (TRH-TX)

### DX AND EQUIPMENT TESTS

- 1570 CKMW MB Morden/Winkler - 6/30 0400 - Off the air, then some test tones until 0415. (SA-MB)

## TIS &amp; OTHER STUFF

- 530 WNV1202 TX Deer Park - 7/12 1835 - City of Deer Park Public Works Department noted while driving along I-610 East at I-45 (NE side of Houston) with city info. Mixing with airport TIS and at least one other station. (TRH-TX)
- 530 TIS TX Houston Heights - 7/12 1920 - New TIS located at the John H. Reagan Senior High School War Memorial and Library in Houston Heights. Female announcer. Message included "quote of the day" feature, and automated date/time announcements that were 6 minutes slow. (TRH-TX)
- 530 WNLZ915 TX Humble - 7/12 1813 - George Bush Intercontinental Airport TIS, not getting out very well for a 530 kHz station. Male announcer in English followed by female announcer in Spanish. (TRH-TX)
- 670 WPCG387 TX Pearland - 7/12 1933 - NOAA weather relay (// KGG68 League City). *Translators of this station in the Houston area . . . Houston Office of Emergency Management.* (TRH-CA)
- 680 WPIW244 TX Farmers Branch - 6/18 1155+ - Calling itself AM 690, *your information station for the city of Farmers Branch.* Programming similar to that of the Lewisville station heard earlier this year. Though this one uses the AM 690 slogan often, it does give the legal call more often than Lewisville. (JC-TX)
- 1580 WPQE577 TX Dallas - 7/28 1245 - Never-before-heard TIS (for me) operating from Love Field. Gives about a 45-second spiel about parking in EE, then repeats in SS. IDs as *Love 1580.* Never heard an 'legal' ID. [Ed.-TX]
- 1610 KON247? TX Houston - 7/12 1845 - Hobby Airport TIS, noted with airport information in English and Spanish. Call letter ID given, but I only was able to copy the "247" [That's the call, KON247 - Ed.]. At night from my hotel near the Astrodome, I seemed to be getting a strong OC, possibly from this station? (TRH-TX)
- 1620 WPKX713 IL Chicago - 7/26 1206 - While driving past Comiskey Park, I decided to tune to 1620 kHz for the Comiskey Park TIS, which is impossible for me to hear at home due to the local pest WNWZ910 (Bensenville, IL). It was there with traffic and parking information. (CR-IL)
- 1650 TIS TX Houston (area) - 7/12 1840 - Noted a (new?) NOAA weather relay station here (// KGG68 on 162.400) while driving along I-610 West at TX-288 (South side of town). (TRH-TX)
- 1670 WTNR210 CA Menlo Park - 7/11 0500 - Good, with information on emergency broadcasts. . . Tune to 1670 kHz. (GJ-CA)
- 1680 TIS CA Lake Tahoe - 7/11 0505 - North Star at Tahoe giving tourist information about the golf course and other events. (GJ-CA)



## MIDNIGHT TO MIDNIGHT ELT

- 570 WNAX SD Yankton - 7/11 1628 - C&W music, announcements of livestock auctions and farm prices. 1633 ID was *Minnesota, Iowa, Nebraska, North and South Dakota - 5 state station - 570 WNAX.* (AR-NE)
- 660 KCRO NE Omaha - 7/11 1130 - ID, plus slogan *Talk radio that tells the whole truth.* Then had *Through the Bible* program. (AR-NE)
- 670 KLT CO Commerce City - 7/8 0624 - *More on Life* program, ad for Taylor Hearing Centers, and promo for the *KLT info line.* *Welcome to the nation's most powerful Christian voice.* 6-70 KLT. New. (TRH-CA)
- 730 KWOA MN Worthington - 7/11 1145 - Agri-Talk call-in program. ID at 1159 and brief *Tri-County News.* ID and CBS News at 1200. (AR-NE)
- 750 WSB GA Atlanta - 7/22 2357 - Talk program, ads, ID at 2359. Fair, under KXL; no KOAL. (AB-CA)
- 780 WJAG NE Norfolk - 7/11 1230 - Weather, Agri-Talk promo, entertainment report. Frequent IDs, plus slogan *News Talk 78.* (AR-NE)
- 800 KQAD MN Luverne - 7/11 1319 - IDs, ads, *Rock County Community Calendar* and *Tri-State Weather.* (AR-NE)
- 840 KTIC NE West Point - 7/11 1325 - Paul Harvey commentary, PSAs, farm news and commodity update. 1338 had female with weather, ID and slogan *The Information Center.* (AR-NE)

- 840 KMAX WA Colfax - 7/5 0715 - Pretty good signal under KXNT, with USA Radio sports, network and local ads. New. (TRH-CA)
- 860 KPAM OR Troutdale - 7/7 2342 - With legal ID. (AB-CA)
- 880 KRVN NE Lexington - 7/11 1136 - News, weather, ID and ads, commodity futures and lengthy announcement of livestock auctions. (AR-NE)
- 890 KVOZ TX Laredo - 7/26 0700 - Mexican music, then ID as KVOZ, 890, *Laredo* with other AM and FM stations, then announcer said *Christian Radio Network.* (GH-KS)
- 900 KJSK NE Columbus - 7/11 1515 - Agri-News from Brownfield Network, followed by weather and news. ID at 1530 mentioning 24-hour schedule. Strongly suspect this was my *NewsTalk 900* unID at 1430, as well as religious programs even earlier. (AR-NE)
- 910 KBIM NM Roswell - 7/8 2300 - Legal ID following talk show (not sure which one - misplaced notes). Logged with borrowed KIWA loop, which nulled local KPOF almost completely, something I can't do with the homemade 4-footer. NM #61. Might have to negotiate with Santa next Xmas for one of these loops. (JW-CO)
- 910 KBIM NM Roswell - 7/29 0505 - End of USA Network News, then station ID: *KBIM Roswell, the Talk of the Town.* Then Mike Segal talk program. (GH-KS)
- 990 WCAZ IL Carthage - 7/10 1155 - *Dr. Farmer* financial call-in program. ID and USA Radio News at 1200. (AR-IL)
- 1050 KBLE WA Seattle - 7/25 0450 - REL music. Good, just under KTCT. (AB-CA)
- 1110 KRLA CA Pasadena - 7/25 0455 - Good-to-fair, with talk program. Strong carrier to 0845 re-check. Suspect KRCX-Roseville, whose antenna(s) are close by. (AB-CA)
- 1140 KSOO SD Sioux Falls - 7/11 2100 - Slogan: *The Talk of Sioux Falls* and ID, then ABC News. At 2104, storm bulletin from National Weather Service, followed by lengthy area coverage of twister sightings and severe storm warnings. (All were over 50 miles from me, although I did get rained on. And nearby lightning curtailed my mobile ham radio activity.) (AR-IA)
- 1150 KCPS IA Burlington - 7/10 1128 - Ad cluster, ID and mention of *Talk Radio.* G. Gordon Liddy show at 1130. (AR-IL)
- 1190 KKOJ MN Jackson - 7/11 2130 - C&W music, with occasional IDs. Slogan *Hottest New Country* and mention of Jackson-Spirit Lake. Weather warning at 2155. SSB and sign-off at 2200. (AR-IA)
- 1240 KSOX TX Raymondville - 7/13 0559 - One-on-One sports talk, ID AM 12-40, *KSOX Raymondville, 24 hour sports radio.* Was the dominant station on 1240 both nights I was in town. (TRH-TX)
- 1250 KCST OR Florence - 7/8 0842 - ID and local weather. (AB-CA)
- 1310 KOKX IA Keokuk - 7/10 1207 - With ID: *Home of great music and memories,* 1310 KOKX, followed by NOS music. (AR-IL)
- 1320 KELO SD Sioux Falls - 7/11 1650 - Occasional IDs during call-in program about local school and property taxes. (Last heard in my eastern turf in 1961-1962.) (AR-NE)
- 1330 WRAM IL Monmouth - 7/10 1100 - ID, ABC News and ads. Another ID at 1105, then *Area news for Western Illinois.* (AR-IL)
- 1370 KGNO KS Dodge City - 7/1 2348 - *Kansas City Royals/Detroit Tigers* wrap-up program with Denny Matthews. (AB-CA)
- 1400 WGIL IL Galesburg - 7/10 0936 - Mix of local and CNN News. ID at 0936: *Cardinal Baseball - Galesburg Radio 14, WGIL.* Promo at 0940: *We specialize in keeping Galesburg informed, WGIL, local news first.* (AR-IL)
- 1410 KTME CA Lompoc - 7/6 0846 - With KTME ID, under KMYC. (AB-CA)
- 1410 KLEM IA Le Mars - 7/11 1939 - PSA about water usage, followed by oldies and occasional talk by female. ID by female at 2000: *KLEM 1410 Le Mars.* (AR-IA)
- 1450 KSIG LA Crowley - 7/14 0106 - Jingle ID into NOS. (TRH-TX)
- 1450 WHTC MI Holland - 7/26 0612 - Fair, with . . . *Hometown Station-WHTC.* Not common, despite being just across Lake Michigan. (JJR-WI)
- 1450 WNAT MS Natchez - 7/12 2255 - Long string of ads including three restaurants in the Vidalia, LA area, and a local insurance agent. *News, sports, and talk radio for the \_\_\_\_\_ WNAT Natchez* into ABC News on the hour. (TRH-TX)

- 1470 KWSL IA Sioux City - 7/11 1830 - IDed... oldies 1470 KWSL. Then, 1960's music (a one hour program of 60's in 60). (AR-IA)
- 1490 KEUN LA Eunice - 7/14 0741 - Fair with ABC real country feed // KJJB-105.5. (TRH-TX)
- 1550 KCCF WA Ferndale - 7/21 2259 - Piano music, partial ID: KCCF Heritage 1550 serving... into SRN News. Mixing with KXEX. (AB-CA)
- 1570 KHPN CO Loveland - 6/30 0405 - Good signal with CKMW off the air. Country music and ID. Over/under WFRL. NEW!!! (SA-MB)
- 1600 KSGO UT Centerville - 7/28 0758 - Fair-to-good, with Mexitunes. Mixing with, and under, KUBA. (AB-CA)
- 1620 KAZP NE Bellevue - 7/11 0954 - Standard ESPN fare. Slogans included... the home of the Omaha Bees, ESPN 1620 and Omaha's ESPN radio 1620. On-hour ID at 1000 (and again at 1100) had incomplete (or slurred) call sign. It included the words Omaha's ESPN 1620... KZP Bellevue. (AR-NE)

GRAVEYARD DX UPDATE

\* indicates record held by DXer from North America (excluding Alaska)

1240 kHz:					Miles				
WWCO	CT	Waterbury	Jeff Falconer	Clinton, ON	454				
KSOK	TX	Raymondville	Tim Hall	Houston, TX	272				
1340 kHz:									
KRAM	NV	Las Vegas	John Wilkins	Wheat Ridge, CO	*608				
WOOW	NC	Greenville	Jeff Falconer	Clinton	596				
CJLS	NS	Yarmouth	Jeff Falconer	Clinton	*768				
1450 kHz:									
WMVG	GA	Milledgeville	Jeff Falconer	Clinton, ON	*735				
WNAT	MS	Natchez	Tim Hall	Irving, TX	337				
1490 kHz:									
WMOG	GA	Brunswick	Russ Edmunds	Parsippany, NJ	*778				
<b>Totals:</b>									
Jeff Falconer	Clinton, ON		1230	1240	1340	1400	1450	1490	Total
			40	40	46	51	44	41	262

**DDXD-East**

As many of you already know, my wife Cary's parents are struggling with health issues. We are moving to Florida August 19<sup>th</sup> through the 22<sup>nd</sup> by rented truck, so I'll be away from this column for a few months until we get squared away with new jobs, a new place to live, and a new Internet Service Provider. Anyone in Central Florida need a morning jock?

**STATION NEWS**

- 1110 WSWF NY Seneca Falls - Add this to the list of daytimes that won't sign off. Has stayed on 24 hours all July. (SK-PA)
- 1310 WYUR MI Dearborn - 6/18 1030-1109 - Format is now AC music // WNIC 100.3. WYUR ID only at Top of Hour. This was a weekend so don't know if // all week or not. (JF-ON)
- 1380 WKDM NY New York - Has been off since at least 7/03, and probably since July first, due to sale of the station. I live five miles north of the towers so it's opened some DXing for me and others in the area. (BG-NJ)
- 1490 WWPR FL Bradenton - 7/20 2345 - Next, for those trying to avoid domestics pretending to be Latin American stations while in quest of the real thing: stumbled upon a big signal on 1490 with all-Spanish Tejano/ranchero vocals, Spanish male announcer. Figured from Florida, confirmed at 2359 with a canned "It's Tejano Thursday" on WWPR, Bradenton, The Pier" and into CNN Radio News till 12:05 a.m., then canned but I guess semi-locally-generated format of oldies pop (Chuck Berry, Beatles, Gerry & the Pacemakers, Elvis), dumped slogans like "1490 The Pier" etc.; sporadic local ads. Believe they've been on

**WDNH 95.3-FM**  
**WWCC 1590-AM**

"The Pier" oldies format for a little while, but the weird Tejano Spanish program (and of all times, Thursday night?) is odd. What next: Moldovan Monday or Tagalog Tuesday? Great signal for 1 kW at night from down there. (TK-FL)

UNID, UNID HELP & PRESUMED

- 1330 CJYM(p) SK Rosetown - 7/05 2133 - Break "...on the Headline Sports Network". That's the 'real' name for the Blue Jays network. This is the only 1330 on their 2000 network list. Under some game on the Indians network. (SK-PA)
- 1620 \_\_\_\_\_ I noted 1620 with Haitian French at fair level on daytime groundwave as I drove on Route 3 through several south shore communities (Weymouth, Hingham, etc.) en route to Cape Cod. I heard advertisements for several companies in Brockton, MA. The signal was unusable from Plymouth southward. On the return trip, I decided to take Route 24 right through Brockton to see if the signal got loud anywhere. Sure enough, the signal peaked to local level near the Route 24 / Route 123 junction in Brockton, so that's where this thing is located. I may call one of the advertisers to see if they can give me the name, phone number, or e-mail of someone at the station. The signal held up at reasonable strength right up to the northern end of Route 24 at Route 128 in the Canton area. Then, as I drove west on Route 128 towards I-95 and Route 109 in Westwood, a second signal with nostalgic Spanish pop music appeared and eventually overtook the Brockton Haitian. This second station never got strong though. It disappeared into WUNR-1600 splash near WUNR's Oak Park (southern end of Newton) 2-tower transmitter site in the Charles River marshes. When I got up to Waltham, out of the 1600 splash zone, I could only hear ignition noise on 1620 all the way home to Billerica. The 1620 Spanish was not a spur or mix from any of the metro-Boston Hispanic broadcasters (890, 1150, 1200, 1330, 1600, etc.): I checked them all for a parallel. (MC\*MA) [Does this also help resolve the pirate on 1640 some of us in the Boston area copied a few months ago? - MS]
- UNID \_\_\_\_\_ - 7/13 0145+ - Code cracking through KCJJ and WPEW741; so weak it can't be heard when KCJJ is playing music. Still there at 0230 tuneout. (SK-PA)
- UNID \_\_\_\_\_ - 7/20 2350 - ID sounded like "WNDY" with touch tones. Another New York State Thruway station? (SK-PA)
- LOGGINGS**
- 600 WSNL MI Flint - 7/05 1607 - Religious vocal music. Male ID "Today's Praise, WSNL 600 AM"; ad cluster. (AR\*MI)
- 640 WFNC NC Fayetteville - 7/20 0100 - Fair; Jim Bohannon on Westwood One, "1940 to 2000, 60 proud years...WFNC Fayetteville, WFNC-FM Lumberton", and CBS news over CBN. (BC-NH)
- 650 WJLT MA Ashland - 7/22 2000 - Good; "J-Light Radio 650, WJLT Ashland-Boston. This is J-Light Overnight on WKOX Framingham-Boston. KAWZ Twin Falls, KRTM Temecula, the Calvary Satellite Network," and CSN programs. Note: This is a nation-wide satellite network consisting mostly of FM translators. The flagship stations are KAWZ(FM) and KRTM(FM). A network list is available at their website <[www.calvarychapel.com/csn/](http://www.calvarychapel.com/csn/)>. (BC-NH)
- 670 WMAQ IL Chicago - 8/01 0030 - Memories from WMAQ's 78-year history beginning with WGU in 1922, "When Radio Was" old-time radio programs, and announcements telling listeners to "make the change" to Newsradio 780 WBBM. 0200 - "If you're tuned to 670 for news, please turn to Newsradio 780 WBBM. WMAQ will now be WSCR The Score, featuring the best in sports conversation. This is WMAQ Chicago," and more "When Radio Was." 0300: More memories, WBBM promos, and "When Radio Was." (BC-NH)
- 750 CBGY NF Bonavista Bay - 7/23 0100 - Good; Newline from Radio Netherlands. "This is CBC Radio Overnight...CBC Radio One"; CBC news over WSB. (BC-NH)
- 790 WSGW MI Saginaw - 7/06 1054 - Call-in, ads and polka record. ID'ed 1100 as "Newsradio 790, WSGW, Saginaw - Bay City - Midland". CBS news. (AR\*MI)
- 940 WADV PA Lebanon - 7/30 0255 - Fair; "WADV Lebanon" ID and "Solid Gospel, music radio" jingle, in CINW null. (BC-NH)
- 960 WEAV NY Plattsburgh - 7/23 0200 - "WEAV Plattsburgh-Burlington" ID heard under



- WELI. (BC-NH)
- 1080 WOAP MI Owosso - 7/06 1103 - "Music of Yesteryear" medley of oldies and NOS. ID'ed 1106 as "AM 1080 WOAP". (AR\*MI)
- 1110 WSWF NY Seneca Falls - 7/28 0100 - "This is AM 1110 WSWF Seneca Falls and AM 1590 WAUB Auburn"; CBS News, easy listening music. In WBT null. Another daytimer now on 24 hours? (BC-NH)
- 1120 WBNW MA Concord - 7/22 2000 - Good; "You're tuned to AM 1120 WBNW Concord and AM 1390 WPLM Plymouth," Information Radio Network news, and Bruce Williams on WestWoodOne. (BC-NH)
- WMNY NY Buffalo - 7/05 2059 - Signoff giving address [See Address Updates below - MS]. Very rare. Last heard as WHTT. (SK-PA)
- 1150 WDEL DE Wilmington - 7/17 2235 - End of Phillies/Yankees baseball game; ID "The home of Phillies baseball on AM 1150, WDEL". (WM-MD)  
+ - 7/30 0307 - PSA for Delaware Parents group with WDEL mention under WAMG. (BC-NH)
- 1200 WAGE VA Leesburg - 7/23 0000 - "Loudoun County's sound choice for service, WAGE Leesburg" heard under WKOX. (BC-NH)
- WKOX MA Framingham - 7/25 1940 - Noted carrying Radio Unica network in Spanish, Radio Latina 1200 AM promo, top of Hour ID "NewsTalk 1200, WKOX Framingham-Boston, a Fairbanks Communications station. AM 1200 WKOX Framingham-Boston. Esta es Radio Latina, la nuestra... Cadena Radio Unica". (BC-NH)
- 1230 WXLI GA Dublin - 7/05 0000 - During a moment of dead air after WDVP's ID, heard a weak live ID, then blown out by ABC News. (SK-PA)
- WTBC AL Tuscaloosa - 7/09 2300 - Live ID "This is WTBC, Talk..." shot up in jumble. QSL on 7/24. (SK-PA)
- WGRY MI Greyling - 7/11 0000 - Partial ID by mellow-voiced announcer "1230 WGRY" shot up in jumble. (SK-PA)
- 1240 WWCO CT Waterbury - 7/22 2120 - Fair; promo for midday program including News 30 weather "...here on WWCO AM 1240," and WestWoodOne NOS. (BC-NH)
- 1260 CKHJ NB Fredericton - 7/22 2130 - Good; local weather; "Country KHJ AM and FM" IDs, C&W music, in WMKI null. Previously reported incorrectly as CKHT. (BC-NH)
- 1290 WCCC CT West Hartford - 7/22 2025 - Fair; promo for The Rock Beach Watch at WCCC.com and ID as "The Rock, 106.9 WCCC," under WKNE. (BC-NH)
- 1320 WVNZ VA Richmond - 7/08 2120 - Ad for Smiley's Auto Glass and mention of Richmond. (WM-MD)
- WICO MD Salisbury - 7/05 2005 - End of ABC News; PSA for firemen's carnival; ID "NewsTalk 1320, WICO". Last heard one year ago this week. (SK-PA)
- 1330 WASN OH Campbell - 7/10 2047 - Canned ID by the same guy who does them for WPHT popped up strong atop "Another 1330 WASN exclusive". Ad for Lutz Towing; Coconut Grove; Liftmaster; promo for Captain Jack's outdoor show; return to Bruce Williams. (SK-PA)
- 1340 WWLF NY Auburn - 7/09 2030 - Poor in mess with Radio Disney drivel // WOLF 1490. Ex-WMBO/WKGG for me. (JF-ON)
- WOYL PA Oil City - 7/11 2149 - PSA for children to visit reptile and amphibian museum, "...a reminder from 1340 WOYL". Not heard in several years. (SK-PA)
- WEKY KY Richmond - 7/12 0007 - Jingle "1340 WEKY" shot up strong. Station #1700. (SK-PA)
- 1360 WKOP NY Binghamton - 7/20 2122 - Canned ID under WNJC "Like a fine wine, they're all here. 1360 WKOP". This is so rare, when last heard it had a C&W format. (SK-PA)
- 1380 WFNW CT Naugatuck - 7/18 2325 - Ad string in Spanish with Waterbury mentions under WMYF and WSYB. (BC-NH)
- WMYF NH Portsmouth - 7/03 0200 - Male announcer IDing with "The Music Of Your Life," usual NOS format with that title. Strongest station on 1380 with WKDM off. (BG-NJ)
- CKPC ON Brantford - 7/04 0330-0355 - "Good times, great oldies" format, numerous local PSA's and spots mentioning Brantford, call letters mentioned a few times leading into song sets, atop unneeded WSYB, others, with WKDM off. (BG-NJ)

**WZBQ**

- WNRI RI Woonsocket - 7/04 1955 - 2005 - With apparent locally-originated talk show with female host; several mentions of call letters. WKDM off. (BG-NJ)
- WTMC DE Wilmington - 7/05 0148-0215 - Traffic loop occasionally topping channel, often-times "in the mix," call letters liberally mentioned as traffic conditions were given. Stay off, WKDM! (BG-NJ)  
+ 7/03 2022 - Male and female reporting traffic "from south of Dewey Beach, Delaware Route 22". First time heard with these calls/format. At 2145, "You're listening to WTMC, travelers advisory radio for the Delaware...", then faded out. Heard again at 0200 7/11. Has to be running day power. (SK-PA)
- WHGT PA Waynesboro - 6/28 2105 - C&W with live DJ; "WAYZ. That's number nine; checking in at number eight on our countdown...". Very clear but faded quickly. Never heard atop or after LSS before. (SK-PA)
- 1390 WKDR VT Burlington - 7/09 2200 - Fair; "This is the flagship station for New York Yankees baseball in the Champlain Valley, The Talk Station, 1390 WKDR Burlington" over UNIDs and het from off-frequency WLAN. (BC-NH)
- 1400 WICK PA Scranton - 6/30 1957 - Ad for Joe Nardone's Gallery of Sound; Red Barons/Friendly's promo; WITK-WICK-WYCK ID at 1958. 61 miles away but only second positive ID. (SK-PA)
- WSIC NC Statesville - 7/14 0000 - "WSIC Statesville is (unintelligible)", then CBS News. In jumble. (SK-PA)
- WDVZ WI Green Bay - 7/14 0006 - PSA by female mentioning Green Bay. (SK-PA)
- 1440 WGIG GA Brunswick - 7/18 2200 - Break in talk show; ID "Your home for the Georgia Bulldogs...News, Talk and Information 1440, WGIG". (WM-MD)
- 1450 WHLS MI Port Huron - 7/05 1135 - Oldies music, "Blue Water Weather", ads and PSAs. ID'ed 1200 as "Oldies 1450, WHLS, Port Huron". AP Network News. Local news mentioned St. Clair County. (AR\*MI)
- 1460 WKDW VA Manassas - 7/07 2037 - Minor League baseball game heard; ID "You're listening to Cannon Baseball on 1460 WKDW". (WM-MD)
- 1530 WVBF MA Middleboro - 7/13 0305 - Fair; "You're listening to the Massachusetts Reading Network, 1530 WVBF AM Middleboro, 91.5 WJUL FM Lowell, 91.5 WNMH FM Northfield, 91.5 WBIM FM Bridgewater, 91.3 WDJM FM Framingham, and 91.3 WSHL FM Easton" and reading from the book U571, // local WJUL 91.5 FM. Again noted 7/18 0300; now 24 hours? (BC-NH)
- 1570 WBUG NY Amsterdam - 7/18 2240 - "You're in Bug Country, WBUG WLFH" and C&W music under WISP. (BC-NH)
- WISP PA Doylestown - 7/18 2230 - Fair; Doylestown-Philadelphia ID, EWTN programs // WEWN 5825 shortwave, over WBUG and UNID Spanish. (BC-NH)
- TIS AND MISCELLANEOUS
- 530 WUV4 MD Edgewood - Lauderick Creek chemical weapon material removal action area project. No address given; web site at <[www.lauderickremoval.org](http://www.lauderickremoval.org)>; phone 410/612-1416. (GJ-MD)
- 1360 WWLG MD Baltimore - Still some local Legends 1360 programming, but is carrying more and more MOYL service. (GJ-MD)
- 1600 WPNT MA East Longmeadow - 7/22 1920 - Fair; "You're tuned to Six Flags 1600, WPNT East Longmeadow-Springfield," *Superman Ride of Steel* promos; directions to Six Flags New England from I-91. In WUNR null. (BC-NH)
- 1610 WPLS727 MI Port Huron - 7/05 1145 - Blue Water Bridge "information radio station" of Michigan Department of Transportation. Loop tape gave local travel info and "current operational status" of bridge, with ID every 3 minutes. (AR\*MI)
- 1620 TIS NY New York - 7/13 2100 - Fair; NOAA Weather Radio relay with forecasts and observations for Central Park, Long Island, New Jersey, and Connecticut over WHLY and an UNID French Caribbean format station. [See UNID Help above - MS] (BC-NH)
- 1630 WPEW741 MD \_\_\_\_\_ - 7/12 2125 - Finally a clear ID on this UNID. The female version of the Maryland State HAR. The one with the male voice is also in the mix. Location and address anyone? (SK-PA)



- WPEU761 MD \_\_\_\_\_ - 7/12 2150 - Fading up sounding like WPEU; the 761 was clear. The male version of the Maryland State HAR. Location and address anyone? (SK-PA)
- UNID PA Philadelphia - 7/20 2253 - Tape loop "This is Philadelphia International Airport Traffic Information Radio". Over / under KCJJ. (SK-PA)
- 1650 TIS FL Boca Raton - Following up on the reported Ft Lauderdale Sun-Sentinel feature regarding a new TIS operated by the City of Boca Raton at 10 watts on 1650 AM: yes, the Sun-Sentinel wants you to pay \$3 to download the article—NOT! But I did locate the official city URL at <<http://www.ci.boca-raton.fl.us/start.htm>> which, if you click on the "JULY 2000" newsletter link (and have Adobe Acrobat) does have a small 'roadsign' graphic referencing that this is coming soon, no other info in this edition of the newsletter. So far, this one does not show up on the FCC's Wireless Telecommunications Bureau URL. Hmmm, maybe Mr. Franklin can turn on his car radio over the coming days and confirm if/when this activates, and report the details to me (i.e., type of information on the looped recording; whether male, female or both; any Spanish announcements etc.). Aah, it's so nice to spend work time between idiot phone calls surfing the Net finding this kind of stuff and getting paid for it. (TK-FL)

WXLP/KSTT  
1229 Brady  
Davenport, IA 52803

AM 1170  
SPORTS

#### OFF THE INTERNET

- 590 WWLX TN Lawrenceburg - Has been off the air since Thursday night and will probably remain off for a few months. Their tower was toppled by a F0 tornado. WLLX-FM 97.5 was also knocked off but according to the Associated Press they're back on with a backup antenna at the studio site. (I suspect severely reduced power) W287AA-105.3 was also on the affected tower and is presumably off. Also off the air are a cell site, a paging site, and many of the public-safety systems in Lawrence County. Sounds to me like this tower may have been rather overloaded.

#### ADDRESS UPDATES

- 1110 WBCA AL Bay Minette - New address (via Wayne Heinen): 1318 South Main St., Atmore, AL 36502. (SK-PA)
- 1120 WMNY NY Buffalo - Address given as 225 Delaware Ave., Suite 1A. Correct your logs. (SK-PA)
- 1340 WOYL PA Oil City - New address and phone: P.O. Box 908, Franklin, PA 16323-0908, Telephone 814/432-2188. (SK-PA)
- 1350 WOYK PA York - New address is P.O. Box 20249, York, PA 17402. (SK-PA)

#### REPORTERS

- |       |                 |   |
|-------|-----------------|---|
| MC*MA | Mark Connelly   | Billerica.  |
| BC-NH | Bruce Conti     | Nashua NH - Lowe HF-225 Europa, MWDX-5,100-ft wire; 100-ft east sloping wire.   |
| JF-ON | Jeff Falconer   | Clinton - Drake R8B; 45' vertical; 120' random-wire (noise reduced via 9:1 transformers); terminated EWE antenna; modified MFJ-1026; Timewave DSP-599zx.  |
| BG-NJ | Bob Galerstein  | Maywood - Drake R8B; Kiwa loop.   |
| GJ-MD | George Jensen   | Baltimore.  |
| SK-PA | Steve Kennedy   | Coal Township - GE SuperRadio III; indoor wire.   |
| TK-FL | Terry Kreuger   | Clearwater - JRC NRD-535; Hammarlund HQ-180A; Sony ICF-2002, Grundig YB-400, GE SuperRadio III, two dipoles, Scotka active loop, Radio Shack 15-1853 inductive loop, JPS NF-60 notch filter; JPS ANC-4 noise-canceller. |
| WM-MD | William McGuire | Cheverly - DX-398.  |
| AR*MI | Andy Rugg       | Cornwall - 1996 Buick car radio between Port Huron, Flint and Midland.  |
| DS-TN | Doug Smith      | Nashville.  |

**Need more information about AM DX'ing?**  
Mail a First-Class stamp to NRC Publications - P. O. Box 164 - Mannsville,  
NY 13661-0164 and ask for the NRC Publications Catalog.

# International Jim Renfrew [renfrew@localnet.com](mailto:renfrew@localnet.com)

61 Wilcox Street  
Rochester, NY 14607-3832

**Foreign DX Catches. Times are UTC; for ELT, subtract 5 hrs.**

Once again, I've barely touched the MW dial since the last issue of IDXD. I am from the old school, I guess, believing that there isn't much DX in the summer. So where does this page-busting edition come from that you see below? All of those twelve month DX'ers who keep things interesting, that's who! A highlight this month is the report of Jean Burnell which includes new loggings of stations in South Africa!

Please, follow the format you see below. If you put commas and hyphens in the wrong places, it takes me a lot of time to correct it! Jim

#### TRANS-ATLANTIC DX

- 153 ALGERIA ENRS, Bechar, JUN 17 0225 - strong, Arabic soap opera? Then shouting / over and under Germany. Good signal [Stromsted-MA] JUL 27 0215 Another Arabic drama? S9+15 Fair signal -Germany under. [Stromsted-MA] JUL 7 0238 - initially a blank carrier with Germany under, then Arabic talk and strings at a low audio level on a good carrier. [Connelly\*Y-MA]
- 153 GERMANY DeutschlandRadio, Donebach, JUN 17 0227 - Classical piano. Fair. Over / under Algeria. [Stromsted-MA] JUL 7 0238 - classical music; under Algeria. [Connelly\*Y-MA]
- 162 FRANCE RFI Ajouis, JUL 7 0235 - French business talk with a price in dollars; good. [Connelly\*Y-MA] AUG 02 0125 - Catchy male FF vocal, several female FF air personalities with review. S9+15 / fair // 1375 (St Pierre) S9+20 good with modest WMUR slop. [Stromsted-MA]
- 171 MOROCCO R. Mediterranee Inter., Nador, JUL 7 0237 - pop male Arabic vocal, flutes; good. [Connelly\*Y-MA] JUL 27 0208 - Arabic music, modern with female AA vocal. Good S9+20 signal. [Stromsted-MA]
- 177 GERMANY Zehlendorf, JUL 27 0207 - Western country music-S9 Poor signal [Stromsted-MA]
- 180 TURKEY (presumed) Polatli (Ankara), AUG 02 0215 - weak-in & out of noise. Slow instrumental beat with bells?- S-9 peak modulation level low, SSB upper side band-183 weak-no interference. [Stromsted-MA]
- 183 GERMANY Europe 1, JUL 7 0240 - French talk about "Grand Bretagne" and "tourisme"; excellent. [Connelly\*Y-MA] JUL 26 0250- female FF lyrics, slow French chanson. Fair [Stromsted-MA] JUL 27 0208 - Football scores-Toulouse etc.. Fair S9+15. [Stromsted-MA]
- 189 ICELAND Rikisutvarpid, Gufuskalar, JUL 27 0202 - Lecture? Male Icelandic voice, S9+10. Fair signal. 0230 - male EE vocal - "As we lay on the bed etc." and female EE vocal " I would like to stay alone..." American, strong signal S9+25. 0225 American Western song male EE. Loud, 9+20. [Stromsted-MA]
- 198 UNITED KINGDOM BBC WS synchros, JUL 7 0241 - English teletalk; mixed with second station and "DIW" beacon. [Connelly\*Y-MA]
- 207 MOROCCO RTM, Azilal, JUL 7 0242 - man in Arabic; poor with "QI" beacon interference. [Connelly\*Y-MA]
- 216 FRANCE TWR Monaco, Roumoules, JUN 17 0235 French music with male FF announcer, strong S9+20. [Stromsted-MA] JUL 7 0243 - French talk and music; fair with "CLB" beacon. [Connelly\*Y-MA]
- 225 POLAND Polskie Radio Konstanytown, JUL 26 0200 - News in Polish male and female newscasters, weak-S9+USB Beacon interference. [Stromsted-MA]
- 234 LUXEMBOURG RTL Jungslinger, JUL 7 0244 - rock music; poor to fair. [Connelly\*Y-MA] JUL 26 0205 - male French news, S9+10 fair. [Stromsted-MA]
- 252 IRELAND New Atlantic Clarkestown, JUN 17 0240 - American Rock music, S9+20, good. JUL 26 0210 - Rock, weak signal S9, "SKR" Beacon interference. [Stromsted-MA]
- 270 CZECH REPUBLIC Cesky Rozlas, JUL 26 0211- USB, male Czech announcer, news then western popular music, weak S9. YQA beacon interference. [Stromsted-MA]
- 531 MADEIRA RDP, Porto Santo, JUL 13 0052 - bits of Portuguese talk by man; slightly over Spain, Algeria, and het from RVC-530. [Connelly\*rw-MA]
- 549 ALGERIA Les Trembles, JUL 13 0051 - Arabic talk by man with guitar and violin interludes;

- loud [Connelly\*rw-MA] JUL 29 0140 - Good; music // 153. [Conti-MA]  
 549 GERMANY JUN 25 0151 - // 1422 with classical music; slightly over Algeria. [Connelly\*E-MA]  
 558 SPAIN RNE5 synchros, JUL 13 0050 - // 774 with folk music, then woman in Spanish; poor over a second station believed to be Portugal; through tough WGAN slop. [Connelly\*rw-MA]  
 567 IRELAND RTE, Tullamore, JUN15 0216 - Country/Western-Willie Nelson tune. Jesse Winchester anthology "I think I see a wagon..along one side of rusted barbed wire fence, Mississippi on my mind"-ballad- "I know you don't love me anymore", male EE disc jockey, S9+30 big signal! Minor slop. JUN 17 0300 - News "In Derry, 5 masked men in an assault..." , weather: Wind NW Gusty. S9+25 loud. [Stromsted-MA] JUN 25 0155 - good with English talk, then weird electronic psychedelic music like something from a college or pirate station ... not the usual mellow pops, Irish folk, or old C&W that RTE usually plays. [Connelly\*E-MA]  
 567 SPAIN RNE5 synchros, JUL 13 0049 - // 774 with Spanish female folk vocal and guitar; only fair, but well over Ireland. [Connelly\*rw-MA]  
 576 CANARY ISLANDS // SPAIN RNE5 synchros, JUL 13 0048 - woman in Spanish // 774; poor, in slop. [Connelly\*rw-MA]  
 585 SPAIN RNE1, Madrid, JUN 25 0054 - piano and saxophone jazz // stronger 738. [Connelly\*E-MA] JUL 13 0047 - Spanish teletalk; fair through WEZE/VOCM slop. [Connelly\*rw-MA]  
 594 PORTUGAL R. Renascenca, Muge, JUL 13 0053 - man in Portuguese, into teletalk show; to fair peak. [Connelly\*rw-MA]  
 603 SPAIN RNE5, Sevilla / Palencia, JUL 13 0045 - fast talk in Spanish by a woman; mixed with a second station (likely Madeira) with apparent Portuguese talk. [Connelly\*rw-MA]  
 612 IRELAND Athlone, JUN 25 0058 - pop music; mixing with Morocco. [Connelly\*E-MA]  
 612 MOROCCO Sebaa-Aioun, JUN 25 0058 - Arabic talk; over/under Ireland. [Connelly\*E-MA] JUL 13 0044 - Arabic public speech in an echoey room; excellent, way over Spain and Ireland. [Connelly\*rw-MA] JUL 29 0145 - Fair; string music with Arabic vocal // 11920. [Conti-MA]  
 621 CANARY ISLANDS // SPAIN RNE1 synchros, JUL 13 0043 - Spanish discussion // 855; fair through WZON splash. [Connelly\*rw-MA]  
 639 SPAIN RNE1, La Coruna, JUL 13 0043 - // 855 with woman in Spanish; good, getting by CBN/YVQO-640. [Connelly\*rw-MA]  
 648 SPAIN RNE1, Badajoz et al., JUL 13 0055 - // 774 with entertainment-related Spanish talk; fair, over others. [Connelly\*rw-MA]  
 657 SPAIN RNE5, Madrid, JUL 13 0042 - song "Tom's Diner" by Suzanne Vega, then R. Nacional de Espana ID; huge, equal in strength to WFAN-660. [Connelly\*rw-MA]  
 657 SOUTH AFRICA R. Pulpit, Meyerton, JUL 17 0124-0142 and 0156 - program of operatic arias, male announcer I think in English at 0134 during a fade-down; signal peaked at SIO 332 but generally under the RNE synchros. I was initially very unsure of the identity of this one. The usual source of opera, Italy, is not on at this time (plus no other Italians were audible), and the Radio Pulpit web-site says that they sign off at around midnight local time. I E-mailed Sentech and received this prompt response from Kathy Otto: "The station advertises its broadcast hours as 0400 to midnight (0200-2200 UTC). However on Friday nights/Saturdays mornings and Sunday nights/Monday mornings there is no break in transmission and they have a musical and chat programme on the air." Cool! [Burnell-NF]  
 666 PORTUGAL (t) RDP, Lisboa, JUN 25 0131 - bouncy music, possible Portuguese talk. [Connelly\*E-MA]  
 675 NETHERLANDS R. 10, Lopik, JUN 25 0130 - soul oldie "Solid as a Rock"; good to excellent. [Connelly\*E-MA] AUG 02 0135 - A Beach Boys selection followed by some rock tunes. S9+15 at peak then faded away [Stromsted-MA]  
 684 SPAIN RNE1, Sevilla, JUN 25 0046 - tropical style music (piano and flute jazz); good with WRKO phased. [Connelly\*E-MA] JUL 25 0305 - Spanish news, male and female anchors alternating, S9+35 like local signal! "Radio Nacional de Espana" [Stromsted-MA]  
 693 SPAIN RNE1 synchros, JUL 13 0039 - // 855 with fast Spanish talk by woman; good / dominant. [Connelly\*rw-MA]  
 693 UNITED KINGDOM BBC, Droitwich et al., JUN 25 0129 - interview with US-accented man about health and the environment. [Connelly\*E-MA]  
 711.04 WESTERN SAHARA Laayoune, JUN 25 0042 - Arabic moaning vocal; in slop. [Connelly\*E-MA]  
 729 SPAIN RNE1 synchros, JUL 13 0034 - // 738 with bits of Spanish talk by woman; badly hacked by WJTO/CKAC. [Connelly\*rw-MA]

- 729 SOUTH AFRICA Punt Gesels R., Cape Town, JUL 17 0024 - Pop music weakly heard behind the RNE station, but it was unequivocally parallel 1332; without the parallel this would not have been identifiable! SIO 221. [Burnell-NF]  
 738 SPAIN RNE1, Barcelona, JUN 25 0041 - US oldies, then Spanish talk by man; through CHCM slop. [Connelly\*E-MA] JUL 13 0032 - end of '50s type song, then two women chatting in Spanish; loud, easily getting by CHCM/WJIB. [Connelly\*rw-MA]  
 765 SWITZERLAND RSR, Sottens, JUL 13 0117 - French version of Elton John's "Candle in the Wind"; poor. [Connelly\*rw-MA]  
 774 SPAIN RNE1 synchros, JUL 13 0026 - man & woman laughing and joking; excellent, apparent Arabic music station under. [Connelly\*rw-MA]  
 783 SPAIN COPE, Barcelona, JUL 13 0108 - // 837 with teletalk; fair. [Connelly\*rw-MA]  
 801 SPAIN RNE1 synchros, JUL 13 0107 - // 774 with acoustic guitar, then soft-spoken man in Spanish; fair. [Connelly\*rw-MA]  
 810 SPAIN SER R. Madrid, Madrid, JUL 13 0110 - // 873 with Spanish talk, light music; over WGY, no sign of CJVA or Latin Americans. Surprisingly loud! [Connelly\*rw-MA]  
 819 EGYPT Egyptian R., Batra, JUL 13 0105 - shrill Arabic male Koranic vocal; loud, way over Morocco. [Connelly\*rw-MA]  
 819 MOROCCO RTM, Rabat, JUN 25 0103 - man in Arabic; over Spain/Egypt. [Connelly\*E-MA] JUL 13 0105 - // 612 with male Arabic vocal; under Egypt Koran. [Connelly\*rw-MA]  
 836 AZORES RDP, Pico da Barrosa, JUN 25 0104 - Portuguese news; at weak audio level on fair carrier. [Connelly\*E-MA] JUL 13 0023 - progressive rock instrumental with classical influences; light audio but fat signal stronger than 837. [Connelly\*rw-MA]  
 837 CANARY ISLANDS // SPAIN COPE synchros, JUL 13 0019 - Spanish teletalk by man & woman, // stronger 882. [Connelly\*rw-MA]  
 846 ITALY Rome, JUL 13 0104 - news by man in Italian; fair signal through WEEI splash. What power is this running now? [Connelly\*rw-MA]  
 855 SPAIN RNE1, Murcia et al., JUN 25 0106 - Spanish news by man & woman; jumpy fades. [Connelly\*E-MA] JUL 13 0021 - sports-related Spanish talk by man & woman; HUGE! [Connelly\*rw-MA] JUL25 0300 - beeps, later Frank Sinatra singing, female announcer. [Stromsted-MA]  
 864 EGYPT Santah, JUL 13 0106 - Koranic vocal sounded parallel (or at least very similar) to that on Egypt-819. In jumble with Spain/other. [Connelly\*rw-MA]  
 873 SPAIN SER synchros, JUL 13 0020 - // 1044 with woman in Spanish; good. [Connelly\*rw-MA]  
 882 CANARY ISLANDS // SPAIN COPE synchros, JUL 13 0019 - // 837 with Spanish teletalk; loud. [Connelly\*rw-MA]  
 891 ALGERIA Algiers, JUN 25 0108 - female Arabic vocal, strings; through WBPS slop. Het noted as early as 2330 UTC. [Connelly\*E-MA] JUL 13 0017 - Arabic vocal and flute at light audio on monster carrier. There were hints of second audio (Portugal?) under. WBPS-890 was phase-nulled to nearly nothing. [Connelly\*rw-MA]  
 909 UNITED KINGDOM BBC, Moorside Edge et al., JUN 25 0111 - bits of English talk; in bad WABI slop. Over several others (one Arabic, another either Spanish or Portuguese). [Connelly\*E-MA]  
 909 MOROCCO RTM, Safi, JUL 17 0000 - Moroccan anthem by male chorus; SIO 444. [Burnell-NF]  
 918 SPAIN R. Intercontinental, Madrid, JUL 13 0016 - bits of Spanish teletalk; in CJCH slop with WHJJ phased. [Connelly\*rw-MA]  
 954 SPAIN R. Espana, Madrid, JUL 13 0015 - Spanish talk, then romantic female vocal; excellent right after local WROL-950 sunset power cut. [Connelly\*rw-MA]  
 999 SPAIN COPE, Madrid, JUL 13 0007 - fast emotional Spanish talk by man & woman; through CKBW slop. [Connelly\*rw-MA]  
 1044 SPAIN SER synchros, JUN 25 0119 - woman in Spanish; to fair peak. [Connelly\*E-MA]  
 1053 UNITED KINGDOM Talk Sport synchros, JUN 25 0121 - English advertising with phone numbers; over presumed Spain. [Connelly\*E-MA]  
 1089 UNITED KINGDOM Talk Sport synchros, JUN 25 0133 - telephone interview; fair to good through YVSZ slop. [Connelly\*E-MA]  
 1098 SLOVAKIA Slovensky Rozhlas, Nitra, JUN 25 0133 - Slavic talk; excellent. [Connelly\*E-MA]  
 '1098 SPAIN RNE synchros JUL 29 0050 - Excellent; woman in Spanish and music // 1107. [Conti-MA]  
 1107 SPAIN RNE 1 Synchros, JUL26 0115 - male EE vocal western with deep voice followed by fast rock tune male vocal "You make me feel this way" loud S9+20, SS announcer. JUL 27

- 0145 - Dreamy romantic Spanish music with male vocal -deep voiced // 684 Sevilla. [Stromsted-MA]
- 1116 SPAIN SER synchros JUL 29 0052 - Good; telephone talk, slight synchro echo detected. [Conti-MA]
- 1134 CROATIA HR, Zadar, JUN 25 0135 - Balkan folk music mixing with Spain. There was more slop from the Venezuelan on 1140 than from easily nulled (!) WBBR-1130. [Connelly\*E-MA]
- 1134 SPAIN COPE synchros, JUN 25 0135 - Spanish talk; over/under Croatia. [Connelly\*E-MA]
- 1152 SPAIN RNE synchros JUL 29 0055 - Good; telephone talk in Spanish. [Conti-MA]
- 1179 CANARY ISLANDS // SPAIN SER synchros, JUL 13 0009 - woman with Spanish teletalk show; very good, much stronger than the feeble cluster of stations on 1180. [Connelly\*rw-MA]
- 1206 unID JUL 29 0100 - Weak talk; France or Israel likely. [Conti-MA]
- 1215 SPAIN COPE synchros JUL 29 0105 - Good with talk in Spanish, no sign of Virgin Radio. [Conti-MA] JUL 13 0004 - man with Spanish news; fair. [Connelly\*rw-MA]
- 1215 UNITED KINGDOM Virgin R. synchros, JUN 25 0137 - '80s hit "Alive & Kicking" by Simple Minds; very good, over Spain. [Connelly\*E-MA]
- 1242 ENGLAND Virgin R., synchronized low-power transmitters, JUL 4 0027 - ID's, ads, promo for the Virgin R. web-site, rock music; SIO 333 [Burnell-NF]
- 1296 SPAIN COPE, Valencia, JUL 13 0120 - // 837 with somewhat echoey Spanish talk by man; poor. [Connelly\*rw-MA]
- 1332 SOUTH AFRICA Punt Gesels R., Midrand, JUL 17 0003-0031 and 0117-0120 - Africans chat, hosted by woman, one pop song noted at 0021 (used this music to parallel 729), this may have been the intro for an interview of a pop singer; signal peaked at 0008 and at 0118 at SIO 353. [Burnell-NF]
- 1341 NORTHERN IRELAND BBC R. Ulster, Lisnagarvey, JUN 25 0138 - English talk, possibly a drama; poor with CJLS/WNBH/WMID-1340 slop. [Connelly\*E-MA]
- 1359 SPAIN RNE Arganda JUL 14 0425 - Weak audio but strong het against "The bay's best music mix" CKBC 1360. [Conti-NH]
- 1377 TANZANIA R. Free Africa, Mwaza, JUL 17 0040-0103 and 0157-0208 - Program of pop tunes and rap, no African music noted. I initially thought this was R. Cidade from Swaziland, but no such luck A woman announcer (in Swahili, I think) came on at 0201 and IDed three times; peaked at SIO 322 around 0200, but with lots of splatter from St. Pierre on 1375. [Burnell-NF]
- 1413 SPAIN RNE5 synchros, JUN 24 2348 - operatic Spanish vocal; poor, just starting to fade up. [Connelly\*E-MA]
- 1422 GERMANY DeutschlandRadio, Heusweiler, JUN 25 0140 - classical music; fair, some slop from C&W music on CKDY-1420. [Connelly\*E-MA] AUG 02 0036 - Light operatic piece with male GG vocal, weak S9. [Stromsted-MA]
- 1449 ENGLAND BBC R. Peterborough, Peterborough, JUL 4 0010 - faded up over Scotland with telephone chat, // R. 5 on 909; SIO 322. This is the first time I've heard this 150-watt station...too bad it wasn't carrying local programming at the time [Burnell-NF]
- 1449 SCOTLAND BBC R. 4, Redmoss, JUL 4 0007 - BBC World Service program about art; SIO 322 [Burnell-NF]
- 1503 POLAND Norea R. Stargard, AUG 02 0111- Presumed with classical piano interlude peaked S9+10 fair signal. [Stromsted-MA]
- 1513 UNID, AUG 02 0055 - Peculiar music-sounded oriental? Briefly S9+15 signal had QSB flutter. [Stromsted-MA]
- 1521 unID JUN 24 2315 - het here long before sunset, either from Saudi Arabia or Spain. [Connelly\*E-MA]
- 1521 SPAIN SER Castellon JUL 29 0003 - Good; man and woman in Spanish, the first strong signal of the evening with local sunset approaching. [Conti-MA]
- 1548 KUWAIT VOA Kuwait City JUL 29 0120 - Weak with man and woman in English // 7115. [Conti-MA] AUG 02 0028-0110 - "VOA special coverage of the Republican convention (via CBS feed) on LSB @ S9+15 good signal. Some splash from 1540 signals. [Stromsted-MA]
- 1550 ALGERIA RASD Clandestine, Tindouf, JUN 25 0001 - female Arabic vocal with drums and flutes; just over the remnants of the phase-nulled CT/NY/PA domestic jumble. [Connelly\*E-MA]
- 1557 CROATIA R. Osijek, Osijek, JUL 3 2335 - woman with weather report, then played pops with few announcements, seemed like the national program (although I didn't check for // 1134); SIO 322 and rapidly lost dominance to the two Brits [Burnell-NF]
- 1557 ENGLAND BBC R. Lancashire, Oxcliffe, JUL 03 2340 - 60's tune then promo for BBC web-site, telephone call-in about price of "petrol;" SIO 322 [Burnell-NF]

- 1557 ENGLAND Capital Gold, Southampton, JUL 03 2351 - contest with phone caller, played his 80's tune request, clear ID over the BBC; SIO 322 [Burnell-NF].
- 1566 ENGLAND County Sound, Guildford, JUL 03 2315 - mellow oldies and jingle ID's; SIO 342 [Burnell-NF].
- 1575 SPAIN SER synchros, JUN 24 2340 - teletalk starting to fade up. [Connelly\*E-MA] JUL 29 0010 - Good; telephone talk // 1521. [Conti-MA]
- 1583.6 CEUTA RadiOle, Ceuta JUL 29 0008 - Good; music and het against SER Spain on 1584. [Conti-MA] JUN 24 2341 - group vocal; over het from SER-1584 synchros. [Connelly\*E-MA] JUL 12 2343 - early fade-in. [Connelly\*rw-MA]
- 1584 SPAIN SER synchros, JUL 12 2352 - Spanish talk; poor, hetted by stronger Ceuta-1583.6. [Connelly\*rw-MA] JUL 14 0410 - Talk in Spanish, difficult with interference from local WSMN 1590. [Conti-NH] AUG 02 0158 - announcer-deep voice man, S9+10 with heavy splatter from nearby Nashua station at 1590. [Stromsted-MA]
- 1602 SPAIN JUN 24 2345 - EI Vitoria evenly mixed with SER stations. More interesting was an UNID third station (... is Ascension Island still here?). A low growl was present. [Connelly\*E-MA]

*Jean speaks:* "I set up some wires at a pebble beach a couple of km from the DX Inn in Cappahayden. Conditions to the south were not great. Initially, I chased a couple of Brazilians on 1440 and 1390 that I think were "new," but ID's were not noted. Signals from further south were extremely poor. For instance, the Argentinian on 1630 was essentially inaudible. I checked 1566...as I suspected, Asas de Atlantico was inaudible, and I checked on both wires. The only thing really comprehensible on this frequency was County Sound, ex. 1476 kHz, from England. The big-gun western Europeans were doing fairly well at the upper end of the band, so I sat on a few promising frequencies, and a "new" one was flushed out on 1449 kHz."

*Mark speaks:* "On the early evening of 12 JUL 2000, I decided to revisit a local DXpedition site in a national wildlife reservation that has not been used for awhile because of instances of park rangers chasing people out after the posted sunset closing time. The site - the parking area at the eastern end of Stackyard Road near Nelson Island in Rowley, MA - is in the middle of a huge coastal salt-marsh behind Plum Island, a narrow barrier beach. This location (GC= 70.829 W / 42.745 N) has been used for some legendary receptions over the years by members of the Boston Area DXers. Loggings include India-1566 and numerous rare Middle East stations, Greeks, etc. For a map of the site, go to [http://www.geocities.com/walton\\_mark/rowley.gif](http://www.geocities.com/walton_mark/rowley.gif)". Though the site has room for near-Beverage length antennas, I stuck to the active whip / broadband loop cardioid array clamped to the car's roof-racks, as I figured I might have to leave the site in a hurry if law officers or a car load of beer-blasted carousing teenagers suddenly appeared. I arrived on site at 7.35 p.m. local (2345 UTC) with a plan of staying no more than 2 hours. Sunset time was about 8.20 p.m. (0020 UTC). Not too many others showed up at the site: basically bird watchers in a few cars and on one motorcycle. Luckily, neither law enforcers nor hell-raisers were encountered right up to 9.30 p.m. EDT / 0130 UTC when I left for home. The biggest problem I encountered during the outing: insects. "Greenheads" (large biting flies common in salt-marshes) and "no-see-ems" (irritating little gnats) dive-bombed me any time I was out of the car for more than a few seconds. After all, it's mid-July."

*Jean speaks again:* "The recent excitement about a big aurora prompted me head for a wilderness DX site in search of unusual signals on Sunday night. I hauled out a 350-m wire towards South Africa at a spot about a 25-minute drive from home. Until about 0130 UTC (17 July) there were essentially no European signals audible except for Spaniards and Portuguese. I heard Safi, Morocco sign-off at 0000 UTC (Boel's list says s/off is at 0100, but maybe this was unusual) without any BBC QRM, just splatter from 910. In spite of moderate to heavy QRN, I spent all my time looking for rare ones. I managed to nab the two Punt Gesels Radio outlets (Africans talk radio), and it is essentially certain that I had Radio Pulpit (logged tentatively during the last NF DXpedition) on 657 kHz. I was pleased!"

*Bruce speaks:* "Mark Connelly and I met up with the vacationing Ben Dangerfield for an evening of DX from the Granite Pier site in Rockport, Massachusetts. (The last time I saw Ben was when we met at the 1996 Newfoundland DXpedition.) The DX was "the usual" for Mark and me, but for Ben it was interesting to check out our car DX setups in action and hear all the transatlantic activity. Although Spaniards dominated (I only took notes on a few), it was still a good demonstration of what's possible for midsummer DX from a coastal site. A brief scan back at Ben's ocean view hotel in Gloucester, Massachusetts produced much of the same stuff. Just before packing up for the night, Mark capped off the evening with VOA Sao Tome on 1530. Perhaps the only disappointment was the lack of any Caribbean and Latin American DX. Just as well, Ben was pleased to hear all the strong Canadian Maritime and down-east Maine signals."



## PAN-AMERICAN DX

- 526 BAHAMAS ZLS, Stella Maris, JUL 4 0116 - "ZLS" code beacon; copyable in 1.8 kHz filter position, lower sideband through tough RVC-530 slop. [Connelly\*Y-MA]
- 530 TURKS & CAICOS R. Vision Cristiana, JUL 2 0344 - Radio Vision Cristiana ID // NY-1330; very good. [Connelly\*Y-MA]
- 535 GRENADA GBC, St. George's, JUN 25 0150 - calypso style music with lots of percussion; to fair peak. [Connelly\*E-MA] JUL 2 0215 - R&B group vocal with a blend of Motown and Caribbean influences; very good. [Connelly\*Y-MA]
- 540.3 unID JUL 7 0444 - low het against the 540 mess (WQTM/WLUX/2 Latins). [Connelly\*Y-MA]
- 550 VENEZUELA Mundial, YVKE, Caracas, JUN 25 0147 - Spanish political speech about the future of Venezuela; strong, over RI/VT domestics. Parallel 880 had the speech delayed about a half second from 550. [Connelly\*E-MA]
- 555 ST. KITTS & NEVIS ZIZ, Basseterre, JUN 25 0056 - tinny electric organ, high-energy drumming, and Caribbean English vocal, good. [Connelly\*E-MA]
- 570 CUBA R. Reloj, JUN 25 0248 - Reloj news and time program; huge, crushing WMCA. [Connelly\*Y-MA] JUL 19 0545 - Man with news, clock, code IDs, etc. under WMCA. [Conti-NH]
- 580 PUERTO RICO WKAQ, San Juan, JUL 7 0442 - Puerto Rico news with local events discussion; through phased WTAG. [Connelly\*Y-MA]
- 600 CUBA R. Rebelde, CMKV, Urbano Noris, JUN 25 0918 - dominant with mellow Spanish vocal // 620, 710. [Connelly\*Y-MA]
- 600 VENEZUELA R. Sucre, YVQB, Cumana, JUN 24 0053 - fast Spanish talk with local Venezuelan mentions; eventually losing out to C&W music from CKCL-NS. [Connelly\*E-MA]
- 620 CUBA R. Rebelde, Colón / Moa, JUN 25 0918 - under WZON groundwave: light vocal // 600, 710. [Connelly\*Y-MA]
- 630 CUBA R. Progreso, JUL 4 0110 - // 640 with mellow Spanish vocal; under WPRO, over WSKN/CFCY. [Connelly\*Y-MA]
- 630 PUERTO RICO WSKN, San Juan, JUN 25 0051 - baseball coverage in Spanish, mention "segunda base", ads with prices in dollars; loud, annihilating WPRO/CFCY. [Connelly\*E-MA]
- 640 CUBA R. Progreso, Guanabacoa / Las Tunas, JUN 25 0246 - slogan "La Onda de la Alegria", then song "Rhythm Divine" by Enrique Iglesias; good. [Connelly\*Y-MA]
- 640 VENEZUELA Union R., YVQO, Puerto La Cruz, JUN 25 0050 - Union Radio ID; over CBN and others with a fat het from Spain-639 also present. [Connelly\*E-MA]
- 650 COLOMBIA RCN Antena Dos, HJKH, Bogotá, JUL 6 0718 - ID "Antena Dos, Colombia", then a folk-style vocal with accordion; good / dominant, best South American signal at the time. [Connelly\*Y-MA]
- 650 DOMINICAN REPUBLIC R. Universal, HIAT, Santo Domingo, JUN 25 0050 - R. Universal ID; well over Venezuela and Colombia. [Connelly\*E-MA]
- 670 CUBA R. Rebelde, CMQ, Arroyo Arenas, JUN 25 0243 - folk music // 710; mixed with YVLL. [Connelly\*Y-MA]
- 670 VENEZUELA R. Rumbos, YVLL, Caracas, JUN 25 0059 - Rumbos ID, doorbells; good / dominant. [Connelly\*E-MA]
- 680 VENEZUELA (t) R. Continente, YVQR, Cumana, JUN 25 0048 - more likely this than WAPA: many Venezuela mentions in Spanish talk; under phased WRKO. [Connelly\*E-MA]
- 690 ANGUILLA Caribbean Beacon, The Valley, JUL 7 0431 - discussion of various Bible translations, particularly the King James; good with Montreal phased. Program was // 6090. [Connelly\*Y-MA]
- 690 BRAZIL R. Dragao do Mar, ZYH587, Fortaleza, JUN 25 0044 - Portuguese talk, seemingly religious, over English-language station (either Anguilla or WOKV-FL). [Connelly\*E-MA]
- 700 BRAZIL ZYK686, Sao Paulo, JUL 13 0037 - most likely this with Portuguese talk; fair, alone on channel before YV fade-up. [Connelly\*rw-MA]
- 700 COLOMBIA R. Net, HJXC, Cali, JUL 7 0433 - several Bogotá news items; over others. [Connelly\*Y-MA]
- 700 VENEZUELA R. Sur, YVPQ, Puerto Ordaz, JUL 7 0123 - Venezuela and Radio Sur mentions; poor, barely over presumed Jamaica/Brazil/YVMH/HJXC/WLW melange. [Connelly\*Y-MA]
- 705 ST. VINCENT & THE GRENADINES Kingstown, JUL 13 0115 - sounded like old standards format (Sinatra, etc.); poor. [Connelly\*rw-MA]
- 710 CUBA R. Rebelde synchros, JUN 25 0243 - uptempo folk music // 670 & others. Signal was over/under WOR. JUL 2 0113 - // 600 with phone call about "americanos"; under WOR. [Connelly\*Y-MA]

- 720 VENEZUELA R. Oriente, YVQE, Porlamar, JUL 7 0109 - folk music with steel drums and Spanish vocal, then talk with Oriente and Venezuela mentions; to fair peak, mixed with CHTN. [Connelly\*Y-MA] JUL 13 0035 - live political rally with shouts of "Vamos por Venezuela" and "Viva Venezuela Libre!", then patriotic songs including the Venezuelan National Anthem were sung, and Radio Oriente ID followed. HUGE signal, like a local, totally blowing away CHTN. [Connelly\*rw-MA]
- 750 VENEZUELA RCR, YVKS, Caracas, JUN 25 0100 - coverage of a Venezuelan sports team; slightly over CBGY and a Brazilian. [Connelly\*E-MA]
- 750 MEXICO, Tempool, Veracruz XETI 7/13 0424 Loud with Spanish hits, "7-50 AM, Radio Fiesta". [Hall-TX]
- 760 BRAZIL R. Record, ZYH888, Fortaleza, JUN 25 0040 - Portuguese religious sermon; loud ! [Connelly\*E-MA]
- 760 COLOMBIA RCN, HJAJ, Barranquilla, JUN 25 0241 - man in Spanish about a musical performance in Bogota; atop Cuban Reloj and WJR. JUL 2 0209 - (measured frequency 759.92) ID "RCN, La Radio de Colombia"; good. [Connelly\*Y-MA]
- 760 CUBA R. Reloj, Las Mercedes & Guanabacoa, JUN 25 0913 - Reloj news, ticks, code "RR"; dominant. JUL 2 0336 - Reloj program over HJAJ/WJR. [Connelly\*Y-MA] JUL 18 0805 - News, clock, code IDs, etc. under WJR. [Conti-NH]
- 770 COLOMBIA RCN, HJJX, Bogotá, JUN 25 0031 - RCN ID; over other with WABC phased. [Connelly\*E-MA]
- 780 VENEZUELA R. Coro, YVMN, Coro, JUN 25 0101 - reverberated Spanish talk, Radio Coro ID; huge, way over ZBVI/CFDR. [Connelly\*E-MA] JUL 7 0105 - R. Coro ID, mentions of Falcon province; good. [Connelly\*Y-MA] JUL 18 0800 - Jingle ID and salsa music under WBBM. [Conti-NH]
- 800 NETHERLANDS ANTILLES Trans-World Radio, PJB, Bonaire, JUN 25 0103 - Spanish Christian music; burying WCCM and Canadians. [Connelly\*E-MA]
- 820 VENEZUELA R. Guayana, YVSH, Upata, JUN 25 0038 - Upata mentions; slightly over a mix of 2 or 3 others (certainly WNYC and R. Guadalupana, maybe Apintie in there too). [Connelly\*E-MA]
- 830 ST. KITTS & NEVIS TBN, Basseterre, JUN 25 0024 - talk about the forgiveness of sins; good, over phased WCRN. [Connelly\*E-MA]
- 830 MEXICO, Mexico DF XELA, JUL 14 0502 Good with classical music, Mexican national anthem, ID "XELA, Buena musica desde la Ciudad de Mexico". [Hall-TX]
- 840 BRAZIL R. Bandeirantes, ZYK687, Sao Paulo, JUL 13 0112 - Portuguese talk; in pile-up with Spanish-language stations. [Connelly\*rw-MA]
- 840 CUBA CMHW, Santa Clara, JUL 4 0128 - 1977 hit "When I Need You" by Leo Sayer, then a woman in Spanish read poetry to a folk guitar accompaniment, then a man mentioned Cuba, Santa Clara, and sounds in the night; loud, alone on channel. [Connelly\*Y-MA]
- 859.57 unID JUL 7 0409 - het, bits of vocal noted after HILR sign-off. [Connelly\*Y-MA]
- 860 DOMINICAN REPUBLIC R. Clarin, HILR, Santo Domingo, JUL 7 0405 - "Radio Clarin" ID, "La Voz en el Camino" and "la mas potente" slogans, then anthem going to sign-off; good. [Connelly\*Y-MA]
- 860 VENEZUELA R. Enlace 860, YVYE, Valle de la Pascua, JUN 25 0033 - Spanish ad for appliance store with color TV's, two "Valle de la Pascua" mentions; excellent / dominant. [Connelly\*E-MA]
- 880 VENEZUELA Mundial, YVYM, Puerto Ordaz, JUN 25 0147 - political speech (// 550) about Venezuela's future; dominant with WCBS in deep cardioid phase null. [Connelly\*E-MA]
- 880 CUBA R. Progreso, Pinar del Rio JUL 18 0757 - Fair; nostalgia // 890, under WCBS. [Conti-NH]
- 890 CUBA R. Progreso, CMDZ, Santiago de Cuba, JUN 25 0300 - // 640 with classically-trained style male Spanish vocal; mixed with WBPS's Spanish show. JUL 4 0108 - // 640, 690 with Progreso mention, mellow vocal; atop WBPS. [Connelly\*Y-MA] JUL 18 0745 - Fair; "Radio Progreso, onda de la alegria" ID and nostalgia // 640, over WLS and WBPS. [Conti-NH]
- 895 ST. KITTS & NEVIS VON, Bath Village, JUN 25 0109 - drumming and Caribbean-Afropop style vocal with a bit of doo-wop '50s influence; huge signal. [Connelly\*E-MA]
- 900 CUBA R. Progreso, JUL 4 0129 - // 640, 890 with light pop vocal; over CKTS ("CJAD"), others. [Connelly\*Y-MA] JUL 18 0750 - Fair; nostalgia // 890. [Conti-NH]
- 900 MEXICO XEW Mexico, DF, JUL 13 0216 - Male announcer followed by a string of canned adverts. Strong S9+20. Slight trace of Chicago station (under). [Stromsted-MA]
- 930 CUBA R. Reloj JUL 18 0755 - News, syncopeated clock, RR code IDs, etc. under WBEN. [Conti-NH]

- 939 unID JUN 25 0112 - het. [Connolly\*E-MA]  
 940 CUBA R. Reloj, JUL 7 0412 - Reloj program over other Latin American; Montreal nulled. [Connolly\*Y-MA]  
 940 PUERTO RICO WIPR, San Juan, JUL 2 0209 - Estados Unidos and local Puerto Rican mentions; dominant. [Connolly\*Y-MA]  
 960 CUBA R. Reloj, Guantanamo JUL 18 0755 - Good; man and woman with news and time checks // 930. [Conti-NH]  
 1020 VENEZUELA Mundial Margarita, YVRS, La Asunción, JUN 25 0115 - big band, bongos, and male group vocal; huge, equal strength to adjacent WBZ-1030 Boston! [Connolly\*E-MA]  
 1020 VENEZUELA R. Calendario, YVMX, Maracaibo, JUL 7 0418 - reverberated Radio Calendario ID, merengue music; fair over KDKA. Usual YVRS was off at the time. [Connolly\*Y-MA]  
 1020 BRAZIL R. CBN (ZYH247), Maceió, JUL 23 0324-0331 - PP interviews and weather in conjunction with the "Weather Channel," many "CBN" slogans; SIO 343. [Burnell-NF]  
 1039.6 VENEZUELA La Voz de Carabobo, YVLB, Valencia, JUN 25 0118 - sports mentioning Carabobo, Caracas; excellent, creaming the 1040 jumble. [Connolly\*E-MA]  
 1050.3 unID JUL 7 0420 - bits of Spanish vocal, het on WEVD. [Connolly\*Y-MA]  
 1060 CUBA CMDX, Baracoa, JUL 4 0104 - Cuban folk music with guitar, over KYW and het from something on 1060.3. [Connolly\*Y-MA]  
 1060.3 unID JUL 6 0104 - seemed to be Spanish talk; poor with slop from Cuba-1060. [Connolly\*Y-MA]  
 1080 VENEZUELA R. Barcelona, YVQJ, Barcelona, JUN 24 2354 - Latin American music, Barcelona ID; over/under WTIC. [Connolly\*E-MA]  
 1090 VENEZUELA Union R., YVSZ, Caracas, JUN 25 0132 - Spanish political talk // 640; loud. [Connolly\*E-MA]  
 1100 ANTIGUA R. ZDK, St. John's, JUN 25 0019 - Caribbean English talk with reverb; over nulled WHLI-NY daytimer. [Connolly\*E-MA]  
 1110 VENEZUELA R. Carupano, YVQT, Carupano, JUN 25 0017 - Venezuela and Carupano mentions; good with WPMZ-RI Spanish daytimer phased. [Connolly\*E-MA]  
 1139.6 unID JUN 25 0013 - bits of high-energy Latin American music; losing to Porlamar on 1140.0. [Connolly\*E-MA]  
 1140 VENEZUELA La Voz del Caribe, Porlamar, JUN 25 0015 - fast Spanish talk, coverage of outdoor event with crowd noises, Venezuelan anthem sung in echoey stadium, announcer said music was "himno nacional de la Republica Venezuela", then Porlamar was mentioned; loud, way over CBI and growl from unID on 1139.6. [Connolly\*E-MA] JUL 2 0200 - "Porlamar, La Voz de la Caribe" jingle in a folk style; excellent. [Connolly\*Y-MA]  
 1170 COLOMBIA CARACOL, HJNW, Cartagena, JUL 2 0342 - Colombia mentions, '40s style Spanish vocal with big-band accompaniment; good / dominant. [Connolly\*Y-MA]  
 1200 VENEZUELA YVOZ, Caracas, JUN 25 0010 - Spanish talk and Caracas mentions / adverts; mixed with WKOX (also in Spanish). [Connolly\*E-MA]  
 1340 MEXICO, UNID, JUL 13 1100, JUL 14 1100 - Noted a Mexican national anthem here both mornings, but the station soon started fading in & out. Strongly suspect XEMT Matamoros. [Hall-TX]  
 1375.02 ST. PIERRE ET MIQUELON RFO, JUN 24 2310 - Judy Garland or similar old-time female vocal, then French talk by man; up to about S7 more than an hour before sunset. Daytime groundwave strength at this outer Cape Cod site is about S5 with minor slop from WDEA-ME-1370 and WMYF-NH-1380. [Connolly\*E-MA] JUL 2 0345 - French disco; local-like. [Connolly\*Y-MA]  
 1450 MEXICO, UNID, JUL 3 0656 - UNID station giving ID for XECU La Rancherita, Los Mochis, SIN. Mentioned 10 kW. I can't imagine XECU has moved to 1450 with 10kW, so I'm assuming the station was merely mentioned on a network feed. [Hall-CA]  
 1490 MEXICO, Matamoros, JUL 14 0430 - Good with "La música Mexicana, Radio Mexicana" [Hall-TX]  
 1500 VENEZUELA YVRZ, Cumana, JUN 25 0006 - old-fashioned C&W style Spanish vocal (like Mexican ranchera), then Radio Dos Mil ID; good, surprisingly loud over WFIF/WTOP on pre-sunset reception. [Connolly\*E-MA]  
 1520 BRAZIL R. Salinas (ZYJ610), Macao, JUL 3 2359 - PP talk, no real ID but said was from Macao, just music at 0000; SIO 333 [Burnell-NF]  
 1620 unID JUL 12 2350 - Haitian French Creole talk; fading up from weak to almost local quality. [Connolly\*rw-MA]  
 1620 unID R. Soleil Internationale JUL 10 0100 - "Ici Radio Soleil... 1620 AM" and French Caribbean music, weak in WHLY null. JUL 13 0100 - Talk in French under New York City NOAA

weather radio relay. JUL 17 0130 - "Ici Radio Soleil Internationale" ID, romantic music, over NYC NOAA weather station with WHLY just starting to fade in, all this over an unID Spanish station. Internet research in an attempt to identify this station produced the following info. According to e-mail from Radio Soleil D'Haiti broadcasting on WSKQ New York 97.9 FM SCA, it's not them. In an e-mail from WRRR US Virgin Islands, "DJ Wonder" says the station is staying on 1290. WRRR will not be going to 1620. Meanwhile Ron Gitschier on tour of duty in the Caribbean reports no French Caribbean broadcasts heard on 1620. Perhaps this is another French-language Part 15 station in Boston, or did 1640 in Boston move to 1620? [Conti-NH] The 1640 Creole/French speaker is alive and well. At home in Auburndale (Newton) their signal is fair all day long about equal to Logan Airport-1650. On 1620 I get nothing at all. So, I believe that the 1620 station is NOT located in Metro Boston. [DeLorenzo-MA] I noted 1620 with Haitian French at fair level on daytime groundwave as I drove on Route 3 through several south shore communities (Weymouth, Hingham, etc.) en route to Cape Cod. I heard advertisements for several companies in Brockton, MA. The signal was unusable from Plymouth southward. On the return trip, I decided to take Route 24 right through Brockton to see if the signal got loud anywhere. Sure enough, the signal peaked to local level near the Route 24 / Route 123 junction in Brockton, so that's where this thing is located. I may call one of the advertisers to see if they can give me the name, phone number, or e-mail of someone at the station. The signal held up at reasonable strength right up to the northern end of Route 24 at Route 128 in the Canton area. Then, as I drove west on Route 128 towards I-95 and Route 109 in Westwood, a second signal with nostalgic Spanish pop music appeared and eventually overtook the Brockton Haitian. This second station never got strong though. It disappeared into WUNR-1600 splash near WUNR's Oak Park (southern end of Newton) 2-tower transmitter site in the Charles River marshes. When I got up to Waltham, out of the 1600 splash zone, I could only hear ignition noise on 1620 all the way home to Billerica. The 1620 Spanish was not a spur or mix from any of the metro-Boston Hispanic broadcasters (890, 1150, 1200, 1330, 1600, etc.): I checked them all for a parallel. The reason I wasn't able to hear the 1620 pirates when I was in the Cambridge / Boston area a few days ago was because the car radio's wimpy broadband front end was yielding a WEZE-590 + WBZ-1030 mix spur instead. [Connolly-MA]



#### INTERNATIONAL NEWS

- ARGENTINA: For those DX'ers outside Argentina who are interested in X-band stations we have an update per 15/07/00: 1610 R. CULTURA, Domingo Purita 2247 (1824 Lanus) - inactive !!  
 1610 R. CANTICO NUEVO, Av. Oliver 1134 (1842 Monte Grande). 1620 R. TROPICANA, Av. San Juan 2461 (1232 Capital Federal). 1640 R. BOLIVIA, Av. Coronel Roca 1467 (1437 Capital Federal). 1650 AM RESTAURACIÓN, Debussy 2948 (1686 Hurlingham). 1660 R. UNIDAD, Molina 830 (1847 Rafael Calzada). 1670 BBC AMERICA LATINA (Capital Federal). 1680 AM GETRO, Av. San Martin 4280 (1824 Lanus oeste). [Marcelo A. Cornachioni, Argentina via Medium Wave Circle E-mail]  
 BELGIUM: 1125, 1233 - According to RTBF teletext, the transmitter location of Radio Traffic on 1233 is Rocourt (part of Liège) with a power of 200 Watts (so not 2.5 kW as stated in my Euro MW Guide). The location of the 1125 kHz is Houdeng (near La Louvière) with 20 kW (that is correct in my list). [Herman Boel via MWC e-mail news 28.06.00 via ARC MV-eko]  
 BELARUS: 171 Radio Odin, Sasnovy (Moscow relay) has been off the air since May 15th. [Olle Alm, ARC MV-eko e-mail] I do not hear Mayak on 1566 kHz anymore. During the 1 week long DX Camp I have not heard this station at all, although it was regular here before. Instead I could hear (on 1566 kHz) a fair signal of Radio B2-92 (from Yugoslavia?). [Karel Honzik, Czech Republic, Medium Wave Circle e-mail]  
 GAMBIA: 648 During my recent holidays on Gran Canaria I heard R. Gambia on 648 kHz. Strongest signal there from Africa on the mediumwave band. Programme is mainly in Gambian local languages - difficult to report. They have news in English at 07.00 UTC and at 22.00 UTC. When I was on Tenerife 2 years ago there was no trace of Gambia on 648 kHz. Do they have a new transmitter?  
 [Erik Kugland via HCDCX 1297 in ARC MV-eki e-mail] I refer you to this item carried in BBC Monitoring "World Media" publication in May 1999: The following item was monitored on Gambia Radio and Television Services [on 648 kHz] 1800 gmt news bulletin on 19th April 1999. "Due to improvement works being carried out on its border transmitter station, GRTS Radio will cease to broadcast programmes on its usual 648 kilohertz mediumwave frequency for a two-month period, starting on Friday this week. The interruption is to allow the installation of a

new, more powerful antenna system, which when completed will ensure that GRTS Radio is heard audibly throughout the country on the 648 kilohertz frequency, as well as in most parts of Senegal, Guinea-Bissau, Sierra Leone and Guinea-Conakry." [Dave Kernick via HCDX 1297 via ARC M-eko e-mail]

GERMANY: "Just noted that the Scherwin transmitter on 576 kHz is back on the air. Testing with non-stop pop music. This station is one out of the planned Mega Radio net. Principally Mega Radio wants to reactivate all the old German MW channels, which were switched off during the last 10 years. If this project should really materialise, german MW DXers can look for another hobby. [Martin Elbe in Medium Wave Circle e-mail]

IRAN: 1205.68 I have some more info regarding the UNID Farsi speaking station which I and some other DXers heard here. I sent an audio file to Dave Kenny (BBC Monitoring). Dave writes: "Hello Karel, Thanks for the recording. I have played it to two of our most experienced Persian monitors and they confirm that it is definitely Farsi (or what we call Persian). It appears to be an Iranian local station, possibly Mashhad (a new relay transmitter perhaps?). The recording has the start of a news bulletins which begins with an item about President Kathami visiting somewhere - so it seems to be an official Iranian radio, not an opposition or clandestine broadcast." I heard this station always after midnight UTC. Recently the station has been logged in Finland signing off at 1800 UTC. [Karel Honzik via MWC e-mail news 06.07.00 in ARC MV-eko e-mail]

IRELAND: Possible 93 frequencies on offer for new commercial MW and FM stations. In an unprecedented development, the IRTC has published a comprehensive list of frequencies available for use in the Republic of Ireland. Up to 19 mediumwave frequencies are available while 74 FM frequencies could be used for new and existing services should the commission decide to allocate them. This follows the commission's recent invitation for 'submissions of interest' for new Dublin services as well as new regional and additional county and town services for the rest of Ireland. The potential for these available assignments is huge. Two high-powered 10 kW MW as well as one medium-powered FM assignment are available in Dublin area alone. Four high-powered MW allocations of 100 kW each exist in Meath, Waterford, Wexford and Donegal. One 50 kW allocation is available in Westport and a number of 2 and 1 kW channels are also unused around the republic. The purpose of the document is to assist respondents in developing various proposals ranging from a single transmitter coverage area to larger multi-county/regional services using a number of county, relay and town assignments. All of the published frequencies have been agreed internationally in compliance with the Geneva 1975 and 1984 broadcasting conferences. [via BCDX-UK in ARC MV-eko e-mail]

KAZAKHSTAN: Internews Kazakhstan has reported from a press conference where the BBC presented its new frequencies in Kazakhstan after reaching an agreement with Kazteletaradio: 1098 Almaty (2.5h Kazakh, Russian, English), 1188 Saryagash\* (5.5h Kazakh, Uzbek, Russian, English), 1197 Astana (1.5h Kazakh, Russian), 1440 Qyzylorda (2h Kazakh, Russian), \*) This is a small town south of Shymkent, at the border with Uzbekistan, the same station as Abay in the WRTH, Abay being located about 20km SW of Saryagash. [BT in ARC MV-eko e-mail]

LEBANON: 945 Voice of Hope is no more. Due to the Israeli withdrawal from Lebanon, the station went off the air on Saturday, May 20th. The station continues to operate on FM and has studios in Metulla, Israel, but the shortwave and AM transmitters have been crated up. [Hans Johnson AZ, Cumbre DX Special May 24, 2000, via Bueschel in ARC MV-eko e-mail]

LIBYA: 711 and 1251 both remain intensely distorted signals. 1251 is a massive signal after dark, but it is a real struggle understanding the English news at 2040, which is followed by French. Audio down to 10-20 % intelligible on a clear S=9 +++ signal ! Voice of Africa news in English & French on 711 and 1251 at around 0140, 0340, 1140, 1740, 2040, and 2340. [Steve Whitt in Mallorca, BDXC via BC-DX in ARC MV-eko e-mail]

MACEDONIA: The Macedonian R foreign service announced a new ID "Radio Biljana". They said today at 1730 that soon will be transmissions in other languages (presumed when the new MW transmitter on 810 will be ready with 1000 or more kW after the built-up from DW). Present schedule is including: 810 0630-0700 & 1430-1700 relay of DW in Balkan langs, 810 & 1242 1800-2000 "R Biljana": 1800 Bulg, 1830 Gr, 1900 Alb, 1930 Se. [Rumen Pankov, May 30, in ARC MV-eko e-mail]

NORWAY: According to a report in issue 433 of 'The Radio Magazine' the government of Norway is offering a licence to operate on 216 kHz (the former NRK channel) at a maximum of 1.2 megaWatts. In order to qualify for consideration, applicants must have "a head office in Norway", be able to show their programming plans and be able to afford the costs involved. [Ray Woodward in Medium Wave Circle e-mail with information from the British DX Club (BDXC-



UK]

POLAND: A large scale, noncommercial local radio project on MW is currently on the way. Under the name "Twoje Radio" ("Your Radio") 100W MW transmitters are to be installed in Polish communities, 50 stations have so far been applied for, about 8 will start in the first stage around September. The frequencies to be used will be a.o. 531, 963, 1062, 1485 and 1602 kHz. The local studios will daily broadcast two hours of local information (0730-0830 & 1730-1830 LT), and also relay the regional programmes of Polskie Radio at certain times. The network is developed and coordinated by Polskie Fale Srednie SA in Chroscina (Opole voivodship), in cooperation with the regional broadcasting stations of Polskie Radio. NB. As the company assured me, the recent tests on 1080 kHz are \*\*not\*\* related to this project. [Bernd Trutenau, Vilnius, Lithuania, Medium Wave Circle e-mail]

RUSSIA: Another superpower LW transmitter has silenced: Taldom 261 (north of Moscow) was switched off on 11 July. The transmitter was listed with 2500kW and was covering about 70% of the European part of Russia with the R.Rossii programme. Radio Rossii decided no longer to finance the relay. [MIDX #172, Bernd Trutenau, Vilnius, Lithuania, in Medium Wave Circle e-mail]

SPAIN: The new owner of the SER network is TELEFONICA, a large organisation involved in media and telephone services in Spain. More information from: www.telefonica.es. They now own SER + Onda Cero + Europa FM + Cadena Cien + Cadena Dial + Los 40 Principales. So this may explain what is going on in Barcelona, a new building for SER Barcelona, studio moved to Onda Cero building in the Ramblas.... some sort of concentrations. [Dario Monferino 23.06.00 in ARC MV-eko e-mail]

YUGOSLAVIA (KOSOVO): 549 Radio Kosova is the public broadcaster set up in the province since the NATO action there, broadcasting on mediumwave 549 kHz and VHF/FM. Recordings of the identification announcements for their 1st and 2nd Programmes can be found on the intervalsignals.com website at: <http://www.intervalsignals.com> [Dave Kernick via HCDX 1325 in ARC MV-eko e-mail]

1377 I have got an e-mail from KFOR, OpInfo@heerfuehrungskommando.de via Joachim Seuling, Major in Kosovo. He tells that Radio Andernach has a program on Radio Prizren (1377 kHz) 3 hours every day from 2000-2300 and that it is aimed for German KFOR soldiers in Kosovo. It is broadcast live from a studio in Prizren. The rest of the 24 hours Radio Prizren is on 1377 kHz with its own programming. Of course and unfortunately he could not confirm my reception of Radio Prizren. There is no postal service in Kosovo, so all letters to KFOR go via "Feldpostsystem". [Björn Fransson in ARC MV-eko e-mail]

#### QUERIES, CORRECTIONS, ETC.

1586 AZORES Vila de Porto, MAY 27 0203-0247 - Old instrumental, orchestral numbers, some old American, woman announcer, splash from KMIK 1590. [Trelford-JAM] I'm positive that there is something wrong with this [Trelford's 1586 report in last IDXD]. Even if "1586" is a typo for "1566," the Clube Asas do Atlantico station at Vila de Porto has been inactive for some time. [Burnell-NF]

"I received a QSL letter from an Isidro Betancourt Silva, who is the director general of Radio Relej. The QSL was for the 950 kHz transmitter at Habana. The 2000 edition of the WRTH doesn't list a transmitter at Habana, it only lists Sancti Spiritus. Do you please know the call letters of the aforementioned Habana transmitter?" [DeLeurere-WV] (As far as I know there is only the one station in Sancti Spiritus. It may be that the signer was thinking that Habana originates the signal. Call letters are rarely heard on Cuban stations. The only I've heard were CMKS and CMHW. - Jim)

#### CONTRIBUTORS

@Jean Burnell, St. Johns NF; DXing from Cappahayden, NF, Drake R8A with a 300 m wire pointed at Northern Europe and 300 m wire pointed at Brazil <jburnell@morgan.ucs.mun.ca>

@Mark Connelly - WA1ION - Billerica MA; DX'ing from Rowley MA ["rw"], from Eastham MA ["E"], from Yarmouth MA ["Y"]; Drake R8A, Palstar R30, APW-1 active whip, two BBL-1 broadband loops, pennant antenna, Superphaser-1 phasing unit < MarkWA1ION@excite.com>

@Bruce Conti, Nashua NH; Lowe HF-225 Europa, MWDX-5, 30-m wire, 30-m east sloping wire, noise-reduced via 4:1 xfms and buried coax. Also DX'ing from Rockport MA; Drake R8B, DCP-2 with RL-1 remote-control Quantum loop and RW-1 remote control whip. <BACONTI@aol.com>



@Marc DeLorenzo, Auburndale MA.

@Tim Hall, Chula Vista CA (also DX'ing from Houston TX); ICF2010, Kiwa loop, Kiwa Pocket Loop.  
<http://www.inetworld.net/halls>

@Iirik Stromsted WIZBT, Pepperell MA; Yaesu 1000MP, 500 meter terminated Beverage aimed NE (toward Europe). Also using a Palomar preselector. <microadv@net1plus.com>

#### EURO MW GUIDE - Review by Russ Edmunds

Recently, via the NRC Listserv, I've become aware of Herman Boel's "Euro MW Guide". This excellent reference source is available via the internet free, at <http://come.to/dxing>. It is easily viewable with the Adobe Acrobat reader, which is also available on the web from [www.adobe.com](http://www.adobe.com) and other sources. The Guide is updated on the web periodically. The edition I have downloaded was dated May 20,2000.

As I've been away from TADX'ing for a time, I had no idea that such a comprehensive resource was available. It is divided into four parts: Part 1 is Information and notes; Part 2 is the by-frequency listing; Part 3 is the by-country listing and Part 4 is a listing of discontinued operations from 1/1/00. The frequency listing includes the country, station name, location, power, and details of schedule and languages as information is available. Stations which are currently known to be silent are also noted here, whether temporary or of longer duration. The country listing lists the program, the frequencies on which it is heard, mail address, the Internet website address (if available) and verie signer (also if available).

The Euro MW Guide is actually greater than just Europe in scope, as it includes many stations in Northern Africa, Western Asia and the Middle East as well. The information contained is derived from numerous European contributors and clubs, and should be considered as the definitive resource for this.

## Professional Sports Networks

**Barry S. Finkel** bsfinkel@ANL.gov

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Chicago, IL 60643-2409

Network listings for team sports stations

Here is updated Canadian Football League information from MorrisSorensen. I found some announcer names on CFL web pages.

Winnipeg BlueBombers - 680 CJOB-MB \* (I had -ON by mistake)  
730 CKDM-MB  
250 CHSM-MB

Toronto Argonauts - Mike Hogan, Peter Martin, Jim Ralphs  
Edmonton Eskimos - Bryon Hall, John Farlinger  
Montreal Alouettes (EE) - Rick Moffat, Tony Proudfoot  
Montreal Alouettes (FF) - Martin Maguire, Pierre Dumont  
British Columbia Lions (from CKNW web site via [odxa@egroups.com](mailto:odxa@egroups.com))  
(Some stations do not broadcast all of the games.)

550 CKPG-BC  
560 CKNL-BC  
610 CHNL-BC  
980 CKNW-BC \*  
1230 CJNL-BC  
1240 CJAV-BC  
CKMK-BC  
1340 CINL-BC  
1400 CHNL1-BC

94.5 CHET-BC  
106.1 CKHH-BC  
107.1 CHNL-BC

### Not sure about renewing?

Consider these benefits of a membership in the National Radio Club: 720+ pages per year of varied and comprehensive DX and radio information ... reduced prices for publications ... responsive editors ... and the friendliest bunch of DX'ers in the world! Why not send that renewal check to Ron Musco at the membership center today!

As the National Football League pre-season begins, please send me any NFL information that you have. Thanks.

# Formats

**Tony Fitzherbert** akftrain@aol.com

356 Jackman Avenue  
Fairfield, CT 06430-1728

## Changes in programming status; reported by listeners

A lot of interesting stuff for your Formats Column this time. As you read this, two revered formats and one set of call letters which is an institution will be gone for ever. According to Barry Finkel and Jim Guthrie, WMAQ - 670, Chicago became history as of August 1. Infinity Broadcasting is moving its WSCR call and all sports format from the highly directional signal on 1160 khz from four towers near Elmhurst to the 50,000 watt non directional 670 address. As Infinity owns eight stations in the Chicago area, it had to sell one station, so they unloaded 1160. No word as to whom the new owner may be, but I'll bet that it will be a big religious formatted outlet. The WMAQ sign dates from the days when it was owned by the long gone Chicago Daily News, and stood for "We Must Ask Questions".

Jim Guthrie E-mailed that KABL - 910 has dumped its adult standards format and DJ staff, which has aired for decades, in favor of a soft adult contemporary format. Years ago, KABL was a Gordon MacLendon - owned easy listening station, as was its sister, KIKI - 880, in Seattle. Its ratings have fallen dramatically, so management unloaded the format, and legendary Bay Area radio personalities Jim Lange, Carter B. Smith, and Mike Cleary, who have been on the station for a long time, are still there but playing Chad and Jeremy instead of Nat King Cole!

Terry Jones, of Plankinton, South Dakota, writes that KSFS - 1520, Sioux Falls, is airing an all news format, dropping its sports offerings, KWSN - 1230, Sioux Falls has picked up the sports, and competing KELO - 1320 has also gone to an all news format. KVTK - 1570, Vermillion, also offers an all sports format. According to Terry's news clip, the average commute (by car) in Sioux Falls is 15 minutes, so this deluge of competing information makes sense.

Tim Hall E-mails that we would all enjoy KXTO - 1550, Reno, NV, which is pioneering a new format - Liberty Works New Age and cult talk. He says that it is "pretty creepy". No, Tim, middle button on my car radio, hi! And the M Street Journal announced that KEUN - 1490, in Eunice, LA is broadcasting a Cajun, Zydeco, and Swamp format. Readers, please let me know what this is!!!! (Wonderful music-pls.) Then we all can appreciate a mix of Zydeco with our cult talk!

Al Holtz sent word that in the monthly Long Island Arbitrends, WHLI-1100 and WGSM-740, who simulcast an adult standards format have bumped adult contemporary WALK-97.5 from the top spot in the Long Island market.

The next Formats column will consist of your contributions plus what I hear on the annual railfan trip and vacation trip with my wife, Ann, through northern California, Vancouver, Edmonton, Calgary, and Seattle, in which cities I will enjoy the commuter ferries, heritage trolley lines, light rail lines and the West Coast Express in Vancouver, after Ann flies back via Delta to her job in Norwalk, CT. I get a lot more vacation working on the railroad than she does at her place of employment so will enjoy a week of trains, boats, and even checking out radio stations which we do not hear on the East Coast!

Here are the format changes from MSJ, Tim Hall traveling through South Dakota and Wyoming, and others.....

540	WDXN	TN	Clarksville	- WW-I rhythmic oldies.
590	WARM	PA	Scranton	- Talk and One on One Sports.
610	KGEZ	MT	Kalispell	- Modern rock "TheEdge".
610	WSLC	VA	Roanoke	- Country // WPVR.
640	WGOC	TN	Blountville	- ABC Real Country.
650	KGAB	WY	Orchard Valley	- Talk, and Spanish on Sunday AM (Tim Hall).
690	KRGS	CO	Rifle	- ESPN Sports (Tim Hall).
710	KXMR	ND	Bismark	- Talk and One on One Sports (Tim Hall).
800	WDOX	WI	Waupia	- JRN Classic Country music.
870	KLSQ	NV	Laughlin	- Spanish Adult Standards.
910	WGTO	MI	Cassopolis	- ABC Oldies.
950	WEZO	NY	Rochester	- Business news, standards, and Spanish (some combination!).
				- ABC Oldies "Kool".
970	WWIT	NC	Canton	- Spanish and Southern Gospel.
1040	WSGH	NC	Lewisville	- Talk.
1050	KBBV	CA	Big Bear Lake	- Is changing to a syndicated talk station "To compete with WOR and WABC" and is gradually unloading its brokered talk hosts who had been buying time in half hour blocks according to the <u>New York Post</u> .
1050	WEVD	NY	New York	

1080	WSSI	MS	Carthage	- Talk "Power 1080".
1110	WBCA	AL	Bay Minette	- Country music // WYDH.
1130	KSIX	CA	San Diego	- Now all talk.
1150	WDIE	DE	Wilmington	- Now sports at night.
1150	WGBN	PA	New Kensington	- ABC Black Gospel.
1190	WIXL	FL	Pine Castle	- Business news and information.
1210	KQEQ	CA	Fowler	- Spanish "Radio Canon".
1210	KLDI	WY	Laramie	- KOWB-1290's classic "Cowboy Country" format moved here on 6-1-00 (Tim Hall).
1240	KMHI	ID	Mountain Home	- Music of your Life (Tim Hall),
1240	KWIK	ID	Pocatello	- Talk "News-talk 1240" but mostly syndicated talk (Tim Hall).
1250	WJIT	PR	Sabana	- Tropical "Radio Hit". This call - and format - were for years on 1480 in New York City! (TF).
1270	KWEB	MN	Rochester	- Sports, and news // KNFX from 5:00 to 10:00 am.
1330	WPRN	AL	Butler	- ABC Real Country // FM.
1340	WTRC	IN	Elkhart	- ABC 45 olus Soft AC.
1340	KFEZ	KS	Kansas City	- Religion "Family Values Radio", id's as "KCKN" as a slogan (Paul Swearingen).
1350	KBBL	AR	Cabot	- ESPN Sports "The Balls".
1350	KXCD	OK	Duncan	- Talk "Hot talk".
1370	KCRV	MO	Caruthersville	- JRN Classic Country.
1370	KAWW	AR	Heber Springs	- JRN Standards // KDRF.
1380	KXCA	OK	Lawton	- Talk // KXCD.
1400	WBTB	NC	Beaufort	- Oldies and beach music // WNBR.
1450	KGRE	CO	Greeley	- Possibly all Spanish according to Tim Hall.
1450	KBBS	WY	Buffalo	- All oldies when Tim Hall checked them out.
1460	KRTR	HI	Honolulu	- AC // KRTR-FM.
1470	KEZZ	CO	Estes Park	- Soft adult contemporary.
1480	WKEA	AL	Bridgeport	- Talk.
1480	KSBQ	CA	Santa Maria	- Spanish adult contemporary "Radio Laser 14-80" (Tim Hall).
1480	WEEO	PA	Shippensburg	- WW-J Oldies.
1490	KOWL	CA	South Lake Tahoe	- Adds Spanish talk and children's features on weekend afternoons (Tim Hall).
1490	KPKE	CO	Gunnison	- Seems to be all oldies (Tim Hall).
1490	KFCR	SD	Custer	- AC/oldies "Today's hits and yesterday's favorites" (Tim Hall).
1550	WKQV	PA	Pittston	- Oldies // WICK.
1560	KCJK	IA	Iowa City	- ABC Hot AC and talk // KCJJ.
1580	KTFN	CA	Merced	- JRN Spanish hits.
1580	WAMW	IN	Washington	- JRN Classic Country.
1590	WAUB	NY	Auburn	- 45 plus soft adult contemporary.
1600	KTAP	CA	Santa Maria	- Regional Mexican "Radio Ranchito" (Tim Hall).
1650	KGXL	CA	Torrence	- Korean // KFOX.
1660	KAXW	CA	Merced	- JRN Spanish AC // KTFN.
1690	WPTX	MD	Lexington Park	- Talk, sports, and adult standards 6 am to 12 noon and 3 pm to 7 pm.

Nice big column! Thank you, folks. And as I get ready to send this to Paul for DX News, the makings for another column have just arrived in the mail and at akftrain@aol.com.

Just back from Boston where we celebrated my mother-in-law's 90<sup>th</sup> B-Day! Two comments..... One is why I cannot get WVNJ-1660 at night in White Plains or Mount Kisco, but the 2000 watt night signal thunders into Framingham, Mass, and Concord, NH. That is a great little station if you like adult standards played by real DJ's instead of off the satellite into a PC. And in looking at the Boston yellow pages as I do occasionally to update this column, a big ad touts Asian American Radio on 740 khz. That is WJIB, Bob Bittner's station. In checking, one can still hear Bob's upbeat easy listening format on weekdays, all kinds of brokered foreign stuff on Saturday, and Black gospel on Sunday mornings followed by "Let's talk about radio" at 11 am, and a feminist show at 11:30. Is this an expected format change to Asian programming on Bob's station, or is the station for sale? Boston readers, please advise.

All for now until we return from the big trees, smoking mud pots, Fisherman's Wharf, and the iron horses of the west coast!

## DX'er's Notebook

Shared tips, topics, and Internet info

Dave Braun [dcbraun@delanet.com](mailto:dcbraun@delanet.com)

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Welcome back - it's been two months since one of our columns, so a little bit of catching up to do. Seems here that, apart from the thunderstorms, typical late summer (i.e. improving) conditions are beginning to show up - had some good sunset skip the last week of July and first week of August, which has been standard for me, anyway. You'll note later some comments on poor conditions; those were from early in the summer.

**Ben Dangerfield** <[BEN-DANGERFIELD@email.msn.com](mailto:BEN-DANGERFIELD@email.msn.com)>: Have any studies been done as to groundwave limits [and that would include salt-water groundwave]? And at what point does skywave begin to mix in? In my experience, my best non salt-water ground wave reception was in Pittsburgh in the 1930's when WNAX-570 was sometimes heard at noon when both WOSU and WKBN were off. They once shared time. That was about 1000 miles. On salt water paths 1000 plus seems to be often possible on the east coast. But during the winter months there is always some skywave present, even at noon, so that such long distance reception can be enhanced, especially after 1300.

**Russ Edmunds** <[wb2bjh@hotmail.com](mailto:wb2bjh@hotmail.com)>: The generally-accepted theoretical limit for groundwave reception is in the vicinity of 1000-1250 miles, the broad range largely because of the problem of skywave mixing. That might occur pretty much at any point beyond about 150 miles, depending on 1) conditions, and 2) power/relative strength of the groundwave signal. At night, from North Jersey, it was not at all uncommon to receive then-WQXR-1560 via a predominantly skywave nighttime even at less than 50 miles from the XR. My best midwinter solid-groundwave signal (to the best of my ability to determine it, hi) were WHO-1040 and WCCO-830, both from North Jersey, each at just about 1000 miles. I did an article back in the early '70's, which is still in reprints, where I reported on a study done by a North Jersey consulting broadcast engineer on groundwave, which documented changes in the average distances of groundwave signals in winter vs. summer which showed some appreciable increases in groundwave distance in summer. Although he didn't conclude that the predominant reason was likely the absorption of skywave components owing to longer daylight, it nonetheless is. I don't recall any other studies having been done on this in any of the literature I used to have on propagation before I turned it over to NRC Monographs about 10-12 years ago.

**Patrick Martin** <[mwdxer@webtv.net](mailto:mwdxer@webtv.net)>: The best I have done on groundwave was in the early 70's, when I was using a 600 foot N/S antenna in Warrenton with my old RBO 2 EH Scott receiver. One Winter I logged KORL-HI/ KYAK-AK on 650 kHz. This was most of the day and then one day between 1100-1300 local time (PST) and I logged WCCO-830, WLS-890, and WOAI-1200. The good ol' days. I can't even do that with a beverage these days.

**Neil Kazaross** <[neilkaz@interaccess.com](mailto:neilkaz@interaccess.com)>: Unless you received these stations commonly in the day. I think you had some slight skip enhancement. I honestly would expect you to hear some Alaskans during daylight from your Northern QTH around the solstice given a clearish channel. As for the southerly KORL. I suspect that unless it was basically almost always audible...that you had some weak daylight skip enhancing it. Ditto for WCCO/WLS/WOAI. All kinds of weak skip was audible day-times from Ogunkit ME in the winters of 81 and 82 on some days. I'm talking about WAMB in TN on 1160 and 660 from SC behind WNBC and several similar logs at noon, none of which were enhanced by any water path. In the late 70's from Narragansett RI I could get a weak daytime carrier on 1200 detectable almost anytime when WOAI was the only station on 1200 (This looped to TX and not Venezuela)and some similar stuff like a 1040 WHO carrier. I think some very weak daytime skip is very common and may reach audible levels given a superb and quite QTH...which is harder and harder to have as time passes.

**Kevin Redding** <[lwdxer@juno.com](mailto:lwdxer@juno.com)>: Kaz, I can second that. Living 28 miles west of Narragansett in Westerly, RI, I got much of the same in the early 1980s. About 1983 though things were too crowded and that was the end of the great daytime stuff. At night though, it was second best of all places to DX from on land. The best land site was in Hawaii. The best I ever enjoyed was on the USS Caron, DD-970.

**Patrick Martin**: There might have been skip involved there. As I remember these signals were weak but stable. I wish I would have had a beverage in those days! Back in the days when 1400 kHz was clear. The nearest station on MMs was WMAN-Ohio.

Sportsradio  
1590 WAKR

The previous messages led to the following antenna discussion:

**Ron Gitschier** <RGITSCHIER@doyle.navy.mil>: Not having been indoctrinated in the art of hardcore DXing, please excuse my ignorance. When stringing these very long lengths of wire out are you looking to capture signals from directions parallel or perpendicular to the direction the wire is pointing? (Assuming it's in a straight line.)

**Russ Edmunds**: Stations should come in along the direction of the wire. If your wire runs N/S, that's where your signals should come from. And thanks for another good question for my DXN column, hi!

**Kevin Redding**: Ron, This is probably not what you want to hear, but the answer is, it depends. Here's why I say that. If you are using a wire longer than 1000' and it isn't a beverage, you will get signals off the sides of the wire and the direction is 90 degrees from the direction the wire is pointed. If you terminate the wire with a resistor into a ground, then the wire is directional towards the end of the wire and not the sides. So I guess that's about it in a nutshell. On occasion I go out in the desert and run wires. Sometimes I go with Skip Dabelstein, and sometimes I go out a little further away from civilization alone and run them. I only know one thing, the longer the better when it goes to wire antennas.

**Kevin Redding**: "Stations should come in along the direction of the wire." My experience is VERY different from this. If the wire is not terminated, then the signals come off the sides of the wire and if it is terminated, then the signal comes off the direction that the end of the wire is pointed. I often go in the desert and run wires and at least here, that has seemed to be the case when I do run wires. The longer the wire tends to make it a little directional if not terminated, but termination with real long wires will make it very directional. This sounds like a good thing for Skip Dabelstein to talk about. He knows more about long wires than I do. He's run some real long stuff.

**Russ Edmunds**: Since Ron was referencing "very long wires" so was my answer, especially since the question was initiated by reports using beverage or near-beverage antennas. But I'll defer to those who have actual firsthand experience with all different kinds - Bruce and/or Mark and/or Skip...

**Ron Gitschier**: Thanks, Russ for answering my question. If you need more questions, let me know... lol... I'm at your service. I haven't advanced to the hard-core enthusiast level yet, and that's only because I don't have the toys... yet. My wife knows that once we buy our first house after I retire from the Navy, the grounds will be equipped with some sort of tower, etc... so she's forewarned. Back to the subject matter... Well, now it's no wonder my 'easterly-westerly' 100 foot wire thrown through the treetops disappointed me in Florida in the n/s-erly directions! I incorrectly surmised that it worked best on the 'flanks' or broadside. Ok, lets take this a step further. Since most every station on AM is vertically polarized (I'm not sure if I should use that term for the standard broadcast band), would we be better off with a vertical antenna vice horizontal, length for length... although it's not practical. I notice sometimes that if you hold a radio, say at waist or chest height and compare the signal (still on AM here) to when you hold it over your head, you get more signal on the strength meter. This was the case when I was informally measuring my former station's (then - WYHI, now WGSR-1570) signal intensity with my Panasonic RF-1170 (1150?) through different parts of our service area... when I had the time. Is this phenomenon typical? I was careful to watch for accidentally nulling the station.... Just full of questions....

**Russ Edmunds**: I can't answer your question about signal strength vs. height other than to note that because of the nature of wave propagation at BCB frequencies, elevation for a DX reception site is a definite advantage. Whether the kinds of differences you note are either normal or significant, I have no idea. And as to your question about MW signals, I'm not 100% certain, but I don't believe that the concept of vertical vs. horizontal polarization applies to AM at all. So, in both cases, I'll really have to defer to some of the more engineering-oriented types on board here...

**Doug Smith** <w9wi@bellsouth.net>: "If your wire runs N/S, that's where your signals should come from." I would suggest that should apply only when the wire qualifies as a "Beverage". Ron was talking about a 100-foot antenna, which is way too short to qualify. With computers, I suppose it \*is\* now practical to predict the directional characteristics of a 100-foot LW in the broadcast band, but I'm not going to try<g>. Seriously, I believe those characteristics will depend on the type of terrain the antenna is constructed over and the frequency within the band on which it's operated.

**Patrick Martin**: In experimenting with various lengths of antennas here on the Northern Oregon coast (2500 to 300 feet), I have found that a 300-500 foot wire places 3 or 4 feet off the ground over swampy land, the directivity of the antenna is amazing. Right now I am using 400 feet going at about 355-000 degrees, pretty much North. The antenna is very directional, much more than I thought. For instance at night when I switch to the antenna on 760 kHz, I lose KFMB-San Diego (South) and get CFLD-Burns Lake BC to the North. I find the 400 foot antenna in many ways works better than the 900 and 2500 foot ones I used to have. The longer beverages had more side lobes to contend with. The 400



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foot antenna is a little more broad at the end which should be better for TA's this Winter, if they show up too. In any effect, and good ground system really helps too. I used to use the 4 foot copper-clad rods from Radio Shack, but I found after a year or so, the copper wire off leaving a very rusted iron pole in the ground. Now I buy 10 foot copper pipes, and cut those in 2's or 3's and pound those in the ground with lots of bare #12 or #14 copper wire. It works very good and costs less too. With the wet soil here, you can about push the pipes into the ground with your hands. Much of the year the grounding is underwater anyway, which works well here.

**Mauno Ritola** <ritola@pp.inet.fi>: I don't think such a short wire has any significant directional properties on medium waves.

**Kevin Redding**: Mauno, I could not agree with this more. When I have a wire about 500' that is unterminated, I tend to get more signal off the sides. When I have a longer wire terminated, I get the signal from the terminated end and when I have a short wire like I do at home about 200' long, it is pretty much omnidirectional. Others may have different results, but for the most part, that is what I have found to be true.

**Russ Edmunds**: A key issue here is termination. I deduce from Patrick's commentary that his 400' wire is terminated at the south. Another is ground conductivity. In the desert, it's essentially nil, whereas Patrick seems to have is located in a PNW coastal swamp, which has lots. Given how much this affects the behavior of beverages, there's no reason to think it wouldn't have significant effects, even if they're different ones, on his 400' wire...

**Patrick Martin**: My Northern Beverage is terminated at the North end, as it always has been. It is quite directional from about 340 to 40 degrees. I was forced to shorten the beverage after my neighbors put in a road cutting the length in half! But I found I like this 400 foot one better. Running a tight lobe to the North here isn't all that good. After hearing Whitehorse and other Northern Canadians, there isn't really much else you can hear. Over the pole, it didn't do a whole lot either. My EWE antenna worked better on Indian, Bangladesh, and Nepal on MW.

**Patrick Martin**: I do know that the "wet properties" of the NW Coast does things to antenna patterns. The wet termination on fairly short wires do very good. I have played with termination in Rancho Mirage, CA a bit but there isn't much of a change as there is very little water there. The Oregon coast gets 70-100 inches a year compared to 1-3 inches in Rancho Mirage.

**Bruce Conti** <BACONT@aol.com>: The wetland probably plays a more significant role in determining the directionality of Patrick's 400-foot wire than the length. In my daily commute to work in Bedford MA, I used to note the effects of wetlands while stuck in traffic scanning the AM band on my car radio. (Route 3 is notorious for daily bumper-to-bumper drive time traffic between Burlington MA and Nashua NH.) Driving along Route 3, I would often note strong hets from transatlantic signals while passing through the Shawsheen River wetlands. The wetlands expose a large area to the east from Route 3, enhancing transatlantic signals along with domestics from Maine and Nova Scotia. Drive a few miles further down the highway, away from the wetlands, and the signals would disappear. The WRKO-680 transmitter site is situated in the same wetlands, undoubtedly giving the signal a boost to down-east Maine and beyond. Also, I believe a 400-ft wire according to the definition does not qualify as a Beverage at mediumwave frequencies. Correct me if I'm wrong, but isn't a Beverage supposed to be at least as long as one wavelength?

**Patrick Martin**: Isn't 400 feet close to a wave length at the top of the MW band?

**Doug Smith**: According to my calculations, one wavelength at 1700KHz is about 579 feet. (at 530 kHz, it's 1857 ft.)

...all of which led to the following regarding summer DX conditions, which will get back to antennae:

**Patrick Martin**: In my 38 years of DXing I have never seen MW conditions so bad. I have seen some of the East Coast DXers report lots of TA DX this Summer, so it must not be that bad there. I can tell you living a mile from the Pacific Ocean where Hawaiians used to be local-like at night, they are extremely poor in the past several years and lately have been worse. If it wasn't for the EWE and beverages I wouldn't hear 90% of what I do hear. I think since we arrived back from CA on April 12th, I have had 2 or 3 nights (total) of any decent MW reception with the logging of FL & IL on 1570. Since I have always been an experimenter with antennas getting the lobes and nulls the way I want, I have checked and rechecked my antennas of late. They are working very well, but if the DX isn't coming in, using the best antenna in the world will not help. I guess we will have to wait until all this high sunspot activity goes away. At least a lot of FM & TV DXers are having fun this Summer. I remember the sunspot high in the late 70s & early 80s when 2 kW Aussies were heard about every morning. I am lucky now to hear Tahiti-738 & Tonga-1017 now.

**WBZ RADIO 1030**

**Russ Edmunds:** Remember, Patrick - the guys who are reporting most of the TA's are using phased longwires, beverage antennas and phased beverages at seashore site in Northern New England. Most of the rest of us would agree more with you!! And I need a static-suppressor!!!

**Patrick Martin:** Russ, you are right there, but I would think the TP stuff would come in here, but apparently conditions on the East Coast are far different than the West Coast. Oh course we are also talking about many kW TA's compared to at the most 50 kW TP's, too and twice the distance.

**Ben Dangerfield:** Patrick, if it is any consolation, the DX has been very poor here in Wallingford, even though I'm on the East Coast. The TA's being reported are mainly from temporary sites along the New England coast. Nothing like that around here, and I'm near the Delaware River and about 50 to 60 miles from the ocean. Actually, these are the kind of conditions I have been encountering this time of year for decades.

**Patrick Martin:** Ben and others: Thanks for your comments on conditions. Yes, I agree that Summertime conditions aren't always the best. But conditions here in the NW are even worse than I have ever heard them. Even with phased wires and beverages, the reception is very poor most nights here. Hopefully they will improve by Fall.

**Russ Edmunds:** I think that perhaps the one additional factor besides the beverages and phasers which separates what is heard on the New England seacoast is that from the Philadelphia area, for many TA's our great circle path goes up across NJ, sometimes NYC and sometimes CT which translates into some 200-400 miles of land between us and when the path hits the open water. I noticed that big time adding some 100+ extra miles of it in moving here from North Jersey, although my lower elevation here and more hills in between also contributes...

**Patrick Martin:** I guess the antenna is more half to 3/4 wave, but being so close to the ground and over wet soil, also terminated it still has good North/NE directional properties. In my case the 1-2 Wave length beverage to the North was not all that great. It was too directional. It is funny, but when I shortened the wire to 900 feet at first, a couple years ago, there were TA's coming in and I logged Germany-972 at 4:15 PM (PDT) along with Sweden-1179 shortly later. I never logged those in the past. The long beverage was too directional at 1800-2500 feet at about 350-355 degrees.

Next we take a look at a couple of bits of information that members have provided on the internet:

**Barry McLarnon VE3JF** <bm@lynx.ve3jf.ampr.org>: AM DXing is what sparked my interest in radio back when I was about ten years old. I soon got into ham radio and other pursuits and left AM behind, but I never lost that feeling of magic that came with pulling in a distant AM station. A few years ago, I returned to my radio roots and started AM DXing again. As we're often reminded these days, AM broadcasting ain't what it used to be! The march of technology hasn't been kind to AM, but

there is one exception as far as DXers are concerned: the availability of PCs and the Internet make the hobby a lot more interesting. One example is mailing lists like this one. Another is all the web sites out there with useful information about the stations. If it weren't for the net, I doubt if I would have ever returned to the hobby... and I willingly put up with birdies from my PC in order to have those resources available when I'm listening to the radio. Despite all of the good stuff available on the net, there is always room for improvement.

For example, I often found myself wanting to calculate the distance and bearing to a particular station, so I would look up the coordinates in the FCC database, and then go to a website where I could type in that lat/long along with my own, and it would give me back the info I was seeking. Doing another station means repeating the whole procedure again, which soon becomes rather tedious, so I wrote a little program to do the calculations on my own PC. My lat/long was hard-coded so I wouldn't have to enter it, and it was a fairly simple matter to have it take a callsign as input and go and look up the station's lat/long in a database such as Werner Funkenhauser's WHAMLOG. The next step was to grab and display additional info on that station from Lee Freshwater's BCB Logbook or William Demmery's Canadian AM Radio Directory. This was pretty cool! Then I got to thinking about some aids for ID'ing all those UNID stations. I started developing a program that would take a tentative callsign as an input, and return a listing of all of the stations on a given frequency that have similar-sounding callsigns. Then I came up with another utility that would display all of the stations on that frequency that have a particular programming format (whether this information is accurate or not is another question!). I can't keep all of this good stuff to myself, right? :-)) I've just finished wrapping all of it up with a web-based interface, and "Version 0.99beta" is now available for you to try out at <http://hydra.carleton.ca/ambc/aminfo.html>. Before you try it, please read the info page at <http://hydra.carleton.ca/ambc/amhelp.html>. You need to use a reasonably recent-vintage browser that supports frames and javascript. I use Netscape and Linux, so I don't know how well the page will work with other browsers and/or other OS's. That's for you beta testers to tell me. :-)) All

## KTIS

NWC RADIO NETWORK  
NORTHWESTERN COLLEGE  
3003 SNELLING AVENUE NORTH  
ST. PAUL, MN 55113-1599

comments welcome...

**Mark Connelly** <MarkWA1ION@excite.com>: I've put together a Web page with text of some recent e-mail discussions of phased antenna arrays. Much of the discussion revolves around medium wave (500-2000 kHz) but may be applicable to longwave and tropical band shortwave as well. Links to other information sources are included. The URL for this page is: "[http://members.aol.com/MarkWA1ION/phased\\_arrays.htm](http://members.aol.com/MarkWA1ION/phased_arrays.htm)"

By the way, the July 2000 issue of QST magazine has a very good article on Flag, Pennant, and Ewe antennas used on the 160-meter band.

And one additional item that was e-mailed directly to me:

**Randy Smith** <r.smith@erols.com>: Hi Dave, I picked up several of the DX News newsletters (winter-spring 2000) at a local hamfest. Reading your DX'er's Notebook was interesting. One thing that caught my attention is that no one ever mentions the K9AY terminated loop. I would think that this would be the most popular antenna in use. It's a fairly easy antenna to homebrew (Radio Shack has everything you need), has a 30x30' footprint, and some people say that it works \*better\* than a beverage. It's possible to use as a portable with a little work. Also if you were interested in just one DX station, it would be very simple to set up a one loop fixed antenna using just a balun, a variable resistor, and a ground rod. My listening station consists of a WJ-8711, a Lowe HF-100, a Stridsberg multicoupler, and a K9AY antenna mounted 50 feet from the house. My previous setup was two slopers mounted 50 feet from the house and fed by coax to an MFJ-1026mw phasing box. Links to the K9AY antenna are at:<http://www.egroups.com/group/K9AYloop> (see links for more)

<http://www.hard-core-dx.com/nordicdx/antenna/loop/>

<http://www.arrrl.org/tis/info/recwire.html>

[http://www.nordicdx.com/antenna/loop/qst9\\_97.html](http://www.nordicdx.com/antenna/loop/qst9_97.html)

A commercial version can be bought at

<http://www.wellbrook.uk.com/products.html#K9AY>

### OFF THE INTERNET

We'll begin this section with a bit from Blaine Thompson's <phredd@well.com> *Indiana Radio Watch*, dated July 01, 2000: IRW has learned that the D.C. Circuit Court of appeals has dismissed Rice's legal challenges to the FCC to regain his licenses. In Indiana, they own WBOW (640 AM, Terre Haute), along with WZZQ-AM & FM (1230am, 107.5fm, both Terre Haute). If interested, you can read the Court's decision at:<http://pacer.cadc.uscourts.gov/common/opinions/200006/99-1198a.txtTalk/>. WBOW's (640 AM, Terre Haute) tower was severely damaged during recent storms. Consequently, it has been dismantled and they're on the air using a backup antenna.

And the rest from Scott D. Fybus's <fybus@world.std.com> *NorthEast Radio Watch*:

June 02, 2000: Unlike just about every other commercial broadcaster in the country, WJIB (740 Cambridge) owner Bob Bittner is (gasp!) a fan of the low-power FM movement — and this week he put his license where his mouth is. Starting tomorrow, Bittner is donating his Saturday night airtime (starting at 9PM) to Allston-Brighton Free Radio, Steve Provizer's micropower community station that's currently having a hard time being heard on 1580 kHz with its hundred milliwatts of legal power. WJIB will carry ABFR's hyper-local informational programming, shows like "Boston's Seniors Count" and "Children's Health Connection," bringing them to a far wider audience (even on 740's little 5-watt night signal!) than the 1580 transmitter can provide. There's still more good news to be found in the Bay State: Larry Glick is returning to radio on a regular basis. After paving the way for a comeback with guest appearances on WBZ's Steve Leveille show and on WMEX (1060 Natick), Glick has signed on with WMEX for a regular Sunday afternoon slot. It's only an hour — 4 to 5 PM — but that's an hour more of Glick than Boston listeners have enjoyed for nearly a decade! (Those of us outside WMEX range can listen to the Web feed on [www.wmex.com](http://www.wmex.com)). WPNT (1600 East Longmeadow) drops its simulcast of WAQY-FM (102.1) until Labor Day to become a nonstop ad for the Six Flags amusement park. Up in CANADA, some big changes this week for radio listeners in Fredericton, New Brunswick: The country programming of CKHJ has moved from 105.3 FM to the three-way simulcast (1260 Fredericton, 95.5 New Maryland, 103.5 Oromocto) that was, until last week, hit radio CIHI (aka "C-hi").

June 09, 2000: WESO (970 Southbridge) flipped from oldies to (mostly satellite) country late last year. Our loyal readers in NEW HAMPSHIRE tell us WBNC (1050 Conway) has been off the air since last Friday (June 2). Buffalo's WWKB (1520) has a new format, again. Since January, it's been relaying CHR WKSE (98.5 Niagara Falls); as of this week, it's business talk (none of it local), in addition to the



leased talk on weekends, Bison's baseball, and overnight trucking programs. Lockport's WLVL (1340) does a lot of local programming for a little graveyard — all morning, in fact, with local talk, "Tradio," and then into satellite land after noon. Niagara Falls' WHLD (1270) does some standards in the morning and old-time radio late mornings before the leased-time ethnic kicks in. Out in New Brunswick, they're shuffling licenses at co-owned CJCJ (920 Woodstock) and CIKX (93.5 Grand Falls). The stations share their programming, but CIKX runs its own ads. Now CJCJ is giving up one of its two low-power AM relays, and turning the other into a relay of CIKX. Gone, soon, will be CJCJ-1 (1140) in Perth-Andover; CJCJ tells the CRTc it isn't needed since it serves the same area where CIKX has been operating for the last two years. CJCJ's other 40-watt relay, CJCJ-2 (990) in Plaster Rock, will presumably become CIKX-1 as it relays "that" set of ads instead of Woodstock's. (NERW wonders why CJCJ and CJCJ-2 haven't moved to FM yet?)

June 22, 2000: We begin this week in CANADA, where precisely a year after CBL Toronto said its final "adieu" on 740 and moved to FM for good, the CRTc is announcing its successor on the 50 kilowatt blowtorch frequency. The nod goes to Michael Caine's CHWO (1250 Oakville), which will move its adult-standards format down the dial to 740 by next June under the moniker "Prime Time Radio." Caine persuaded the CRTc that listeners over the age of 55 are under served on the Toronto dial, and says his station will serve as an "oasis" in the midst of the rock that dominates Toronto FM. It turns out 1250 won't go silent as a result of the move; the CRTc says Caine can lease that facility out to the Christian broadcasters who now lease 50 hours a week on CHWO sister station CJMR (1320 Mississauga). When they take over as "Joy 1250," CJMR will become all-ethnic (largely Asian languages. We see that WLKW (550

Pawtucket) has applied to change calls to WBZU, apparently to match its talk-radio "The Buzz" nickname. WIPS is indeed simulcasting "Radio Lake Placid" (WIRD/WLPW, WRGR). Checking out the AM dial as we sped past Plattsburgh on I-87, we heard a carrier on 1070 transmitting nothing but static, so we don't know what calls or format that poor station is using this week. French-language CHLT (630) is largely a relay of the Radiomedia Network and Montreal's CKAC (730), with four towers south of town in good Canadian fashion. English-speaking listeners (and we didn't find many, even in this formerly Anglophone-heavy region) can tune to CKTS (900), a 24-hour relay of Montreal's CJAD (800) from five towers (gasp!) north of the city. Heading out of Sherbrooke, we crossed back into VERMONT at that dual-nation town of Rock Island/Derby Line, then headed into Newport to see and hear WIKE (1490), in AM stereo with country. Despite e-mail from the station assuring us they were on the air, we heard nothing to suggest that WBNC (1050 Conway) was in fact operating — in fact, NERW research director Garrett Wollman sat right next to the transmitter on route 113 and heard only silence on 1050.

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

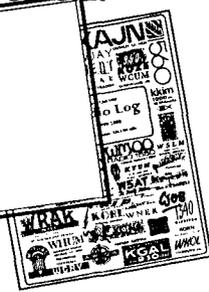
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The NRC is offering this service primarily for sight-impaired members; but NRC members (ONLY) may purchase this PC-formatted, 3.5-inch disk for \$6.00 postpaid. The list contains only Frequency, Call letters, State, City, Antenna, Day Power, Night Power, Additional Powers, Permits, Time Zone, and Stereo Operation and is current with the 20th Edition of the NRC AM Log. Order from the NRC Publications Center - Box 164 - Mannsville, NY 13661. NY orders, please add sales tax.

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## Confirmed DX'er

**Ken MacHarg** 112047.3007@compuserve.com

186 NE 109th St.  
Miami Shores, FL 33161-7042

*Your successes in obtaining QSL's and other station items*

Welcome once again to Confirmed DXer. Summer is always a good time to catch up with those reports, and that seems to be happening. So, without further delay, let's get underway.

### Canada

**Alberta**, CHRB, 1140, High River, letter, bumper sticker in 16 days. V/s Keith Leask, OM. (Kennedy—PA)

**British Columbia**, CBKN, 990, Shalath, f/d QSL card in 12d from CBC-Vancouver. 40 watts. V/S: Dave Newbury-CE. Address: P.O. Box 4600, Vancouver BC V6B 4A2 CANADA (Martin—OR)

**Ontario**, CKDO, 1350, Oshewe, letter in 31 days. V/s Anthony Randor, EG. (Kennedy—PA)

**Ontario**, CFTR, 690, Toronto, letter in 24 days. V/s Arne Lavrih, Newsroom Coordinator. (Kennedy—PA)

### USA

**California**, KTXH, 1460, Salinas, f/d letter with coverage maps, etc in 40 days. V/S Jim Hilliker-PSA Director. Address: 903 N. Main St., Salinas, CA 93906. (Martin—OR)

**Colorado**, KBJD, 1650, Denver, Beautiful photo QSL certificate in 6 days!!! Address: 3131 S. Vaughn Way, Suite 601, Aurora, CO 80014. V/s Patrick M. Griffith, QSL coordinator. (Martin—OR)

**Colorado**, KVFC, 740, Cortez, p/d QSL letter w/window and bumper stickers, balloons, and ink pen in 55 days. V/S: Kelly Turner, Operations/Program Director. Address: P.O. Box 1299, 2402 Hawkins, Cortez, CO 81321. (Griffith—CO)

**Connecticut**, WCCM, 800, Lawrence, map, bumper sticker, no verie in 7 days. P.O. Box in log not valid, street address is OK. (Kureth—MD)

**Florida**, WTIR, 1680, Winter Garden, frameable "certificate of reception." (Kureth—MD)

**Georgia**, WBHF, 1450, Cartersville, letter in 20 days. V/s Ernestine Young Jones. (Kennedy—PA)

**Georgia**, WSB, 750, Atlanta, letter. V/s Ryan King. (Jones—SD)

**Illinois**, WJCI, 1460, Renton, tentative report denied. V/s Keith Ayers, Mgr. (Kennedy—PA)

**Indiana**, WXLN, 1570, New Albany, letter, map in 14 days. V/s Vivien W. Ogburn, Bus. Manager. (Kennedy—PA)

**Indiana**, WMYS, 1430, Indianapolis, QSL card in 865 days. (Kennedy—PA)

**Kansas**, KKGK, 1250, KANSAS CITY, short handwritten note in 6 days. Address: 4935 Belinder Road-Westwood, KS 66205. V/S Brian Johnston-Sales Mgr. (Martin—OR)

**Maine**, WZON, 620, Bangor, hand written QSL in 30 days, bumper sticker, AM, FM coverage maps. V/s Howie Sovie. (Kureth—MD)

**Maryland**, WBGR, 860, Baltimore, letter, map, prayer tract in 15 days. V/s Evangelist Brenda (Kennedy—PA)

**Massachusetts**, WCMX, 1000, Leominster, letter, program guide, sticker in 13 days. V/s Nathan Burke, Manager. (Kennedy—PA)

**Massachusetts**, WJLT, 650, Ashland, letter in 8 days, map, WNEB map. V/s Lynn McHugh, AA/Log manager. She wrote, "We appreciate hearing from any and all DXers that are picking up our signal." (Kureth—MD)

**Massachusetts**, WFPB, 1170, Orleans, QSL on WUMB stationary in two weeks, calendar, schedule and map. V/s Grady Moates, CE (Kureth—MD)

**Minnesota**, KFAN, 1130, Minneapolis, letter in 18 days. V/s Aaron White, CE. (Kennedy—PA)

**Mississippi**, WBSL, 1190, Bay St. Louis, f/d letter confirming my report from Sep. '98 when they were on for a hurricane, also confirmed another report from a few months afterward. Included stickers and button as well. V/s Bennietta Hatchett, Public Relations (Myers—VA)

**Montana**, KGHL, 790, Billings, n/s QSL letter in 17 days for report and \$1. V/S: none. Address: New Northwest Broadcasters, 222 N. 32nd St., 10th Floor, Billings, MT 59101. (Griffith—CO)

**North Carolina**, WHKP, 1450, Hendersonville, letter in 22 days. V/s Norman C. Lyda, CE. (Kennedy—PA)

**North Carolina**, WYCV, 900, Granite Falls, letter, picture of station in 19 days. V/s Marvin (Buddy) Sizemore, Pres/GM. (Kennedy—PA)

**WBAZ RADIO 15/5** Engineering Dept.

Box 280 • KINGSTON, NEW YORK 12401

**New York**, WTOR, 770, Youngstown, p/d letter and coverage map in 7 days for mint stamp (used). V/s Steve Spicer, Operations Manager (also a ham). (Walker—MI)

**Oregon**, KKJX, 960, Klamath Falls OR, ppd/card in 7 days. V/S Robert ????. Address: 4509 S. 6th Street #201, Klamath Falls OR 97603 (Martin-OR)

**Oregon**, KORE, 1050, Springfield, replacing my QSL from 1968, a signature at the bottom of my report. This time, 32 years later, almost to the day, I got a nice letter from: Larry Knight-GM in 7d. Address:

2080 Laura Street - Springfield, OR 97477. (Martin-OR)

**Pennsylvania**, WMBT, 1530, Shenandoah, p/d letter, coverage map and bumper sticker in 3 mo. for DX Test. V/s Dave Schmidt (Myers—VA)

**Pennsylvania**, WRAC, 1400, Williamsport, letter in 5 days. V/s Ken Sawyer, GM. (Kennedy—PA)

**Pennsylvania**, WWSM, 1510, Annville-Cleona, letter, sticker in 12 days. V/s Gary Gruver, GM. (Kennedy—PA)

**Rhode Island**, WARV, 1590, Warwick, v/letter in one year, three days, plus program guide. V/s Lincoln W. Hubbard, also with WVNE. (Kureth—MD)

**South Dakota**, KOTA, 1380, Rapid City, p/d QSL letter in 13 days for EE report and \$1 (returned). V/S: Ted Peiffer, GM. Address: P.O. Box 1760, Rapid City, SD 57709. (Griffith—CO)

**South Dakota**, KWYR, 1260, Winner, n/s QSL letter, business card, and "Country 1260" custom reel to reel tape box label in 19 days for report and \$1. V/s: Scott Schramm, Owner & General Manager. Address: P.O. Box 491, 57580-0491. (Griffith—CO)

**Tennessee**, WHJM, 1180, Knoxville, letter in 9 days. V/s Harry J. Morgan, Owner/manager. (Kennedy—PA)

**Tennessee**, WJRZ, 6210, Knoxville, letter in 9 days. V/s Daniel Wells, OM. (Kennedy—PA)

**Tennessee**, WSM, 650, Nashville, TN, p/d card, info on DXing and clubs in 10 weeks for mint stamp (returned). V/s Tom Bryant, QSL Manager. (Walker—MI)

**Texas**, KQXX, 1700, Brownsville, QSL sheet in 36 days. (Martin—OR)

**Texas**, KTEK, 1700, Sherman, ppd/card returned in 10 days for second follow-up report. V/s Bruce Gilbert, Director of Programming. (Walker—MI)

**Texas**, KZRK, 1550, Canyon, verie form in 405 days. Address: 301 So. Polk St. #100, Canyon TX 79101. (Martin-OR)

**Texas**, WTAW, 1620, College Station-Bryan, unsigned f/d QSL card sent in an envelope (to protect it from the USPS QSL chewer<g>) in 23d for EE report and \$1. Address: P.O. Box 3248, Bryan, TX 77805. (Griffith—CO)

**Texas**, WTAW, 1620, College station, QSL in 12 days. (Kennedy—PA)

**Virginia**, WPAK, 1490, Farmville, p/d letter in 5 wks. V/s Rick Johnson, GM (Myers—VA)

**Virginia**, WYTI, 1570, Rocky Mount, letter in 11 days. V/s Earl Shelton. (Kennedy—PA)

**Washington**, KWDB, 1110, Oak Harbor, ppd/card back in 10 days after f/up. V/s Moose Moran, DJ. (Martin-OR)

**Washington**, KZTS, 1210, Sunnyside, ppd/card in 6 days. V/S Ed Ramirez-GM. Address: 638 Decatur / PO Box 149 - Sunnyside WA 98944. MW QSL: 2679. (Martin-OR)

**West Virginia**, WELC, 1150, Welch, confirmation in 11 days. V/s John Sidote, Chief Operator. (Kennedy—PA)

**Wisconsin**, KFIZ, 1450, Fond du Lac, p/d letter, station schedule brochure and station newsletter in one month for mint stamp (not used). V/s Joe Scheibinger (N9OSA). (Walker—MI)

**Wisconsin**, WRPQ, 740, Baraboo, WI, p/d letter in 10 days for mint stamp (used). V/s Jeff Smith, President. (Walker—MI)

#### Outside of North America

**St. Kitts & Nevis**, TBN, 830, Trinity Broadcasting Network, QSL postcard in 39 days mailed from California. (Kennedy—PA)

#### Other Good Stuff

**New York**, TIS, 1640, Pomona, f/d e-mail for written report. V/s Pablo Ramos, Enhanced 911 Director. RamosP@co.rockland.ny.us (Myers—VA).

This month's contributors include Pat Griffith, Westminster, Colorado, Terry Jones, Plankinton, South Dakota, Steve Kennedy, Coal Township, Pennsylvania [sorry Steve, I mislaid your letter last month. Hope I got all of them in here], Joe Kureth, Uniontown, Maryland, Patrick Martin, Seaside Oregon, Greg Myers, Richmond, Virginia, Bob Walker, Fenton, Michigan



## DX'ing in Puerto Rico

By César Objío

This time the whole family (including my wife and daughter) decided to make a trip to Puerto Rico for a change from the usual environment in Santo Domingo and take a different walk through the streets of the San Juan metropolitan area. We also visited some relatives living there who were happy to receive us.

But this time I decided to take with me my usual companion: the Radio Shack TRF receiver, which I never took with me in my former trip to Puerto Rico. My listening post was at Hato Rey, practically in a central location in the metropolitan area, but not of the island. DX'ing days were from May 22nd through the 27th.

My listening times were from about 6 to 7.30 a.m. and from about 9.30 to 10.30 or 11 p.m. Like in Santo Domingo I found a lot of religious stations which I did not care to ID; they only had long talks. My only help was the old WRTH '94 I have; I did not wait for an ID of all the stations heard here as time was short for me, so if you see some mistakes it is due to that. The number between parentheses is the strength with which I heard them, as usual. So here is what I got.

- 530 - Radio Visión Cristiana (Religious programs at all times)
- 540 - Could not hear any Venezuelan stations on this frequency. Strange.
- 550 - "R.5-50 Ponce" (4)/R. Mundial, Caracas, Venezuela (3)
- 580 - WKAA, R.Rejoi, San Juan (5) News at 6.30 a.m.
- 600 - R.800 Mayagüez (3) Local rnr at 6.37 a.m.
- 610 - WXR5, Patillas (4) IDed as "X•1" in Sp. (Religious)
- 630 - WSKN, San Juan (5) IDed as "La Súper Cadena", nx 6.36 a.m.
- 650 - R. Universal, Santo Domingo (4) at 9.45 p.m. w/basaball game between Seattle and Baltimore on Wednesday 24.
- 670 - R. Rumbos, Caracas (4) at night, alone on the frequency.
- 680 - WAPA, R. Guapa, San Juan (5) Wx at 6.38 a.m.
- 690 - Caribbean Beacon, St.John's, Anguilla (3) Eng. (Religious)
- 700 - R.Sur 700, Guayana, Venezuela (3) at night.
- 710 - WKJB, Mayagüez(3)/Capital 710, Caracas, Ven. (3) at night.
- 720 - R. Súper Felicidad, "720 AM La buena radio", Porlamar, Venezuela (2) at night.
- 730 - R.HIZ, Santo Domingo (3) at night with talk.
- 740 - WIAC, Cadena Radio Puerto Rico, San Juan, (5) News.
- 750 - R.Caracas,Venezuela (4) 10.48 p.m. with political program.
- 760 - WORA, Mayagüez, (3) news at 10 p.m.
- 780 - ZBVI, Tortola, B.V.I.(4) religious at 8.30 a.m.
- 800 - PJB, TWR, Bonaire (5), religious at night.
- 810 - WKVM, AM-81, San Juan (5) 10.15 p.m.with songs.
- 830 - Trinity BC Network, St.Kitts (3). It does not seem to be 50 kW as in the WRTH. Religious program at 6.33 a.m.
- 840 - WXEN, R.Victoria, Yabucoa (4) news.
- 850 - WABA, Súper 85, Aguadilla (2) news at 6.35 a.m.(Religious)
- 860 - R.8-60, Valle de la Pascua, Venezuela (3), pop rm • sic.p.m.
- 870 - WQBS, San Juan (5) News.
- 880 - WYKO, Sabana Grande (3) (Religious)
- 890 - WFAB, Las Piedras (3) local songs at 6.36 a.m. R.America,Valencia, Venezuela (3) IDed at 10.35 p.m.
- 895 - VON, R. 895, Charlottetown, St.Kitts (2) Eng.
- 910 - WPRP, Ponce, IDed as "Super Cadena" at 10.45 p.m. Ads.
- 920 - Unid. station (4) Religious, at night (WEKO?)  
R.9-20 AM, Santo Domingo (3) at night with baseball game between Atlanta and Milwaukeee.  
R.Nueva Esparta,Venezuela (3), IDed at 10.41 on 5/26.
- 940 - WIPR, San Juan (5) news at 6.37 a.m.Baroque mx at 10.15 p.m. on 5/24.
- 960 - WKVN, Quebradillas (2) religious program at 6.40 a.m.
- 970 - WSTX, Christiansted, St. Croix, Am.V.I. (3) Eng. 6.45 a.m., ads,nx
- 1000 - R.One, Charlotte Amalie, Am.V.I. St Thomas (5) Eng.
- 1020 - Mundial Margarita, La Asunción, Venezuela(3) at night.
- 1030 - "833 Radio", probably at San Juan (S) Eng. Sport nx, 6.30 a.m.
- 1060 - WCGB, R. Iniciativa, Juana Diaz(3) w/local mx at 7.26 a.m.
- 1070 - WMIA, R. Mía / R.Arecibo (3) Sport news at 6.50 a.m., relays Supercadena.



- 1080 - WLEY, Cayce, (3) NotiUho, IDed at 6.52 a.m. news  
 1090 - R.Amistad, Santiago, D.R.(3) Pop mx at 10.50 p.m.  
 1100 - WGod, Charlotte Amalie, Am.VI.(3) Rel. prgm.at 6.55 a.m. Music Radio,St. John, Antigua (3) Eng. Rel. prgm at 8.53 a.m.  
 1120 - WMSW, La Gran W, Hatillo (3) News Cadena R. Puerto Rico.R. Noticias at 6.58 a.m.  
 1140 - WQIL, Once Q,San Juan (5) Religious program  
 1160 - WBRN, Súper Borinquen, Barceloneta (4) local mx (plenas)  
 1190 - WBKI, San Juan (5) Eng. weather report at 7.00 a.m.  
 1200 - WHOY, R. Hoy,Salinae (4),lots of ads after 7.00 a.m.  
 1230 - WNIK, R.Unica, Arecibo (2) talks.  
 1240 - WALO Radio/R.Oriental, Humacao, (3) at 7.05 a.m, relaying R.Cadena, a.m.  
 1260 - WISO, Ponce, Ecos del Pueblo (3) news at 7.09 a.m.  
 1280 - R.Centro, Arecibo, (4) news and commentary at 7.10 a.m.  
 1290 - WRRR, Fredericksted,St. Croix, Am.VI. (3) news in Eng., relaying BBC at 7.05 a.m.  
 1300 - WTIL,R.E Util, Mayagüez (d) news in Sp.  
 1320 - WUNO,San Juan, (4) Relays NotiUno, news & comm. at 7.13 a.m.  
 1340 - WSTA, Charlotte Amalie, Am. VI.(3) news in Eng.at 7.15 a.m.  
 1350 - WEGA, R.Las Vegas(4) news and ads at 7.15 a.m.  
 1370 - WIVV Miss. Vieques, (3) Rel. prgrm. Eng. at 7.15 a.m.  
 1380 - Two weak P.R. stations fighting each other, could not ID any.  
 1400 - WISA, R.Vida, Carolina. (5) Religious prgrm. 7.18 a.m.  
 1420 - WEUC,R. Universidad, Ponce (4) pop mx at night.  
 1430 - WNEL, R.Tiempo, Caguas (4) PoP mx at night.  
 1460 - WRRE, R.Santidad, Juncos (4), religious prgm. 7.20 a.m.  
 1470 - WKCK, R.Cumbre, Orocovis. (3) Religious prgrm. 7.21 a.m.  
 1480 - WMOD,Sonido 14-80, R.El Conquistador (4) 7.22 a.m.  
 1490 - WZBS, R.San Miguel, Ponce.(3) World news at 7.23 a.m.  
 1500 - WMNT,R.Atenas, Manati.(3) Ads. 7.23 a.m.  
 1530 - WUPR, Éxitos 15-30, Utuado (5).Religious songs at 7.25 a.m.  
 1540 - R. Bahamas, Nassau (4) Eng. Pop mx.at 10.15 p.m.  
 1560 - WRSJ, (5) Religious program at 7.20 a.m.  
 1580 - WMTI, R.Jefe, Morovis, (4) pop rmc 7.28 a.m.  
 1600 - WLUZ, R. Luz, Bayamón (5) sports ux at 7.30 a.m,  
 1630 - Station operating on this frequency all day long w/special permission in order to give information to the attendants at a Regatta 2000 party being held in the San Juan Bay IDed at 10.20 p.m. on 5/25.(Sp.)

The following is a list I found in the newspaper EL NUEVO DIA, Friday, 26 de mayo de 2000. As I thought it might be of interest to DXers who may travel to the island, it is reproduced here.

## AM

- 550 - Radio 550 (News)  
 580 - Radio Reloj (News and talk shows)  
 600 - Radio 600 (Yesterday's music)  
 610 - X-61 (Modem music)  
 630 - La Súper Kadena Noticiosa (News)  
 680 - Cadena WAPA Radio (News)  
 710 - WKJB (News)  
 740 - Cadena Radio Puerto Rico  
 760 - Super Kadena (News)  
 810 - WKVM (Talk shows)  
 840 - Radio Victoria (news, talk shows, varied music)  
 850 - La Grande (Popular music)  
 870 - WQBS  
 880 - WYKO  
 890 - WFAB  
 910 - La Super Kadena (News)  
 930 - WEKO  
 940 - WIPR (Talk shows, cultural programs, novelas)  
 990 - WPRA (Pop music, news, and talk shows)  
 1020 - WPJC



- 1030 - Radio Oso (News and talk shows in English)  
 1040 - Zona 1040 (Trios, typical local music, boleros)  
 1060 - WCGB Iniciativa Mil (Religious and 'easy listening' music)  
 1070 - Radio Arecibo (Music, news, talk shows)  
 1080 - Radio Ley (News and talk shows)  
 1090 - Radio Sol (Tropical music)  
 1110 - Radio Caguas (Tropical music)  
 1120 - WMSW La Gran W (Sports and yesterday's music)  
 1130 - WOIZ Radio Antillas  
 1140 - 11Q (Baladas and talk shows)  
 1160 - Super Borinquen (Top 40, news and sports)  
 1170 - Zona Metro del Sur (News and sports)  
 1190 - WBKS (Religious bilingual)  
 1200 - La Radioemisora Lareña (Varied music)  
 1210 - Radio HOY (Latin popular music)  
 1230 - Radio Unica (Baladas and tropical music)  
 1240 - Radio Oriental (news and talk shows)  
 1250 - WJIT  
 1260 - Cadena WAPA Radio (News)  
 1280 - NotiUno del Norte (News and talk shows)  
 1300 - Radio WTIL (Talk shows, yesterday's and today's music)  
 1320 - NotiUno (Noticias and talk shows)  
 1330 - La Buena (News and varied music)  
 1340 - Radio Tiempo (Yesterday's music)  
 1350 - Radio Las Vegas (Sports, varied music and regional news)  
 1360 - WCHQ-AM (Varied music and news)  
 1370 - WIVV de Vieques (Religious and educational)  
 1380 - Radio Prócer (Varied music)  
 1390 - Radio Noroeste (Yesterday's music)  
 1400 - Radio Vida (Religious)  
 1410 - WRSS Radio Progreso  
 1420 - WEUC AM (News and talk shows)  
 1430 - Radio Tiempo (Oldies, 50's, 60's and 70's)  
 1450 - Radio Coamo (Top 50/Oldies)  
 1460 - Radio Raíces (Talk shows)1460 - WRRE  
 1470 - WKCK Radio Cumbue (News, baladas, music, and typical)  
 1480 - WMDD (News and varied music)  
 1490 - Cadena NotiUno (News)  
 1500 - La Nueva Radio Atenas (Music, sports, talk shows)  
 1510 - Super B (Varied music and news)  
 1520 - Radio Voz (Varied music)  
 1530 - Exitos (Top 40 and talk shows)  
 1540 - Radio Caribe (News, yesterday's and today's music)  
 1550 - Radio Cafe (Full service)  
 1560 - NCN Radio (Religious)  
 1570 - Radio Felicidad (Religious)  
 1580 - Renacer (Music and news)  
 1590 - WXRf AM (Music and news)  
 1600 - Romántica (Baladas and boleros]

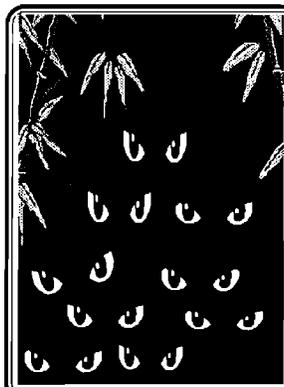
## FM

- 88.1 - Radio Revelación (Religious)  
 88.3 - Radio Universidad (News, educational and jazz)  
 88.5 - WKVN FM (Educational and news)  
 88.9 - WEUC FM (Educational and talk shows)  
 89.3 - WEUC FM (Educational and talk shows)  
 89.7 - Radio Universidad (News, educational and jazz)  
 90.3 - WVID FM (Educational and news)  
 90.5 - WIDA  
 91.3 - Allegro (Classical music/educational)  
 91.5 - WSJE



- 91.7 - WZGX  
 92.1 - Radio Sol (Religious/Music)  
 92.5 - Radio Oro (Easy listening)  
 92.9 - Radio Paraiso (Religious and easy listening)  
 92.9 - WYQE (Top 40)  
 93.? - Yunque (Tropical)  
 93.7 - La Zeta (Salsa)  
 94.1 - Cosmos (Top 40)  
 94.7 - WCOM  
 95.1 - Cadena Z (Salsa)  
 95.7 - Fidelity (Latin and American ballads)  
 96.5 - Cima (Top 40)  
 96.9 - Radio Triunfo (Religious and music)  
 97.5 - Cadena Estereotempo (Baladas)  
 97.7 - Sonocolor (Top 40)  
 98.3 - WQQZ Sonorama WQQZ (Oldies in Spanish and English)  
 98.5 - Cadena Salsoul (Tropical)  
 98.7 - WXZX  
 98.9 - Sensación (Varied music)  
 99.1 - WUKQ (Top 40)  
 99.9 - Estereotempo (Ballads)  
 100.3 - Cadena Salsoul (Tropical)  
 100.7 - La Nueva X (Top 40)  
 101.1 - Cadena Salsoul (Tropical)  
 101.5 - Cadena Sistema 102 (Baladas)  
     - Fidelity (Latin and American Ballads)  
 102 - Sistema 102 (Baladas)  
 102.3 - WMIO  
 102.9 - Dimenaion FM 102.9 (Baladas)  
 103.3 - Criolla 103.3 (Baladas)  
 103.7 - La Nueva Cadena X (Top 50)  
 104.1 - Radio Redentor (Religious)  
 104.7 - KQ 105 (Top 40)  
 105.? - Nueva Vida (Religious)  
 105.1 - Cadena Esterotempo (Baladas)  
 105.5 - WNNV  
 105.7 - Alfa Rock (Rock)  
 106.1 - WRRN  
 106.1 - WVIS  
 106.5 - Super K (Baladas)  
 106.9 - La Mega (American music)  
 107.3 - Delta 107 (Top 40)  
 107 - Radio Voz 107 (Top 40)

I did not listen to FM as my TRF does not have that band, and I did not take with me my digital Radio Shack DX-400, as the TRF is more sensitive and selective.

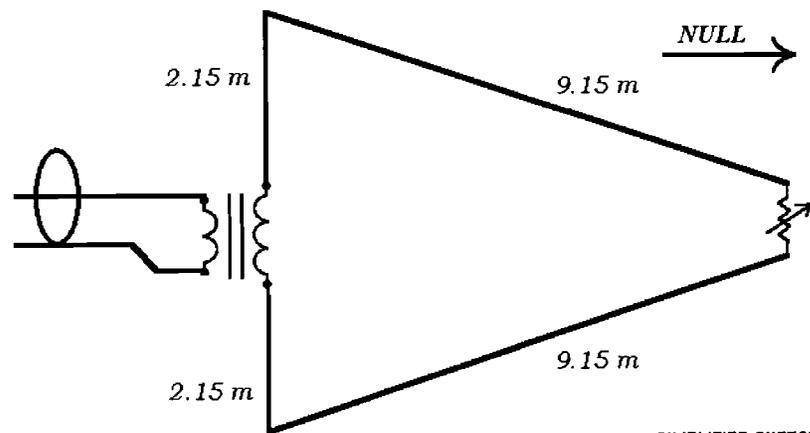


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## Pennant Antenna with Remote Termination Control

By Mark Connelly, WA1IQN



SIMPLIFIED SKETCH

### Introduction

The July 2000 issue of *QST* magazine published an article by Earl W. Cunningham, K6SE, entitled "Flags, Pennants, and Other Ground-Independent Low Band Receiving Antennas". The work presented in the article includes research by several other hams including Jose, EA3VY. The class of antennas discussed comprises single-turn loops terminated on the side opposite the feedpoint. The termination effects a null off the end where the terminator is located, thereby producing a cardioid (heart-shaped) directional pick-up pattern. The antenna is broadband rather than resonant. The pattern produced holds up well over a wide frequency range. Earl has run EZNEC computer simulations to calculate lengths which give a non-reactive feedpoint impedance to ensure wideband coverage. The dimensions of the antenna are small enough to permit installation in the backyards of typical suburban residences. See the figure above for pennant style antenna dimensions derived from computer optimizations.

What I have done to improve upon the original concept is to incorporate the remote termination control methods previously used with great success by Steve Byan for Beverage termination and, subsequently, by Al Merriman and Andy Ikin, for K9AY Loop termination. The merits of both of these prior implementations have been conclusively validated in real-world experiences during several Newfoundland DXpeditions.

The remotely-controlled resistance element is a "Vactrol", part number VTL5C4, made by Perkin-Elmer, formerly EG&G Vactec. It uses an LED optically coupled to a photoresistor. At 0 mA through the LED, the photoresistor is a high value, greater than 10K ohms. At 30 mA LED current, the photoresistor value decreases to less than 60 ohms. Intermediate values of LED current produce intermediate resistance values. DC is fed to the LED through RF chokes to prevent undesired loading effects at radio frequencies. DC blocking capacitors allow RF to go through the photoresistor termination without letting DC flow through it.

Remote control of the pennant's termination resistance provides optimum null depth on the principal axis (in the direction that points towards, and beyond, the termination as viewed from the feedpoint). Additionally, test data taken indicate that termination adjustment allows a certain degree of null slewing up to about 45 degrees off the principal null axis. Achievable null depth decreases as a null is placed farther (in an angular sense) from the principal axis, but slewing the null by using a slightly different termination resistance can still produce a superior null in that direction than if the deepest principal-axis null was used instead. An example would be an antenna configured with the termination west of the feedpoint. Station "A" is due west and station "B" is northwest. With the termination adjusted for the typical 35 dB or better west null of Station "A", station "B" is down about 13 dB (based on the curves in Earl's article). By slewing the null with a slightly different termination resistance, the reduc-

tion of station "A" would deteriorate, but rejection of "B" may be increased to 20 dB or so. This finding has been determined by experimentation, I have no formal simulation data to back it up. In any event, there are differences in optimum termination resistance which are affected by bearing, frequency, skip angle, weather, stray coupling to external objects / structures, and imperfections in the load at the feedpoint of the antenna. Because of these variations in the resistance needed for each optimum null solution, the ability to control the termination remotely is highly desirable, just as in the case of the K9AY Loop.

Pennant antennas seem to have a bit deeper null than Flag antennas (a rectangular version of the design), so the pennant will be the main focus of this article. Earl Cunningham's article goes into all the design permutations and it gives detailed directional patterns. His use of all these antenna types concentrates on their application in the 160, 80, and 40 meter ham bands (1.8, 3.5, and 7 MHz). I corresponded with Earl via e-mail to see if he could suggest any alterations of the design for usage on medium-wave frequencies (500 to 1800 kHz). He stated that the original dimensions would work fine, just that the efficiency (sensitivity) would be low and that amplification would be required to get gain anywhere near that of slopers, longwires, dipoles, or other conventional outdoor antennas.

See my BBVA-A documentation at [http://www.qsl.net/wa1ion/bbva/bbva\\_a.htm](http://www.qsl.net/wa1ion/bbva/bbva_a.htm) for an amplifier design which may be suitable.

**Testing**

Tests were performed at a site in West Yarmouth, MA as well as at my home in Billerica, MA. Findings at both locations were similar. At Billerica, maximum amplifier gain is limited because 50 kW WRKO-680 is only 5 km / 3 miles away. Amplifier or receiver overloading may be caused by WRKO and several other locals including WNRB-1510. Furthermore, the local electrical noise at Billerica (from nearby TV's, light dimmers, computers, etc.) sometimes exceeds S9, making weaker signal evaluation difficult or impossible. For these reasons, the tables below represent measurements taken at the site on Trowbridge Path in West Yarmouth (GC= 70.223 W / 41.682 N).

The vertical portion of the antenna was supported by a nylon rope going to the top of a 15 m / 50 ft. pitch pine tree. The rope was adjusted for a bottom insulator height of about 3 m: that made the top insulator height about 7.3 m. The bottom insulator was tied via nylon rope to a tent stake to provide correct tension on the vertical section of the pendant. The termination end, west of the feedpoint, was supported by a plastic-hooked non-conductive bungee cord going to low branches in another pine tree. As direct measurement of termination resistance was not possible during operation, the voltage measured at the arm of the controller's potentiometer was recorded instead. Table 3 below relates this voltage to the termination photoresistor's ohmic value.

The test results show that the pennant antenna with remote termination provides a cardioid pick-up pattern from a single antenna without the need for a phasing unit. Tests with a K9AY antenna in the same position at the West Yarmouth site a month earlier showed best-case nulls of only about 15 dB. The ground at the site is almost pure sand, so I'm sure that the more-fussy grounding requirements of the K9AY degraded its performance. The beauty of the pennant and similar designs is that ground conditions do not have much effect on the achievable null depth. A properly-constructed pennant should have at least 30 dB of null depth on the principal axis even in situations as different as a salt-marsh or a pile of rocks and sand. Height of the pennant antenna doesn't have all that much effect either (although I don't think that the bottom point should be much lower than about 2 m / 6.6 ft.). The main benefit of raising the antenna to a much greater height would be to reduce local electrical noise and, perhaps, to increase sensitivity a bit in poor-ground areas.

**Coaxial Cable versus Twinlead feed**

A system fed with 50 ohm coaxial cable requires Coaxial Controller, Feedpoint, and Termination box assemblies. The Feedpoint Box provides an impedance transformation from approximately 800 ohms antenna impedance to 50 ohms receiver input impedance. This is done by means of a 16:1 RF transformer, Mini-Circuits part number T16-6T-X65 or a suitable homebrew equivalent.

A system fed with 300 ohm twinlead requires just a Twinlead Controller box and a Termination box. Twinlead goes from the controller straight to the antenna feedpoint, at which it is connected directly to the upper and lower wires of the pennant. The required impedance transformer is located in the Twinlead Controller Box.

Maximum suggested twinlead feedline length is about 30 m / 100 ft. Coaxially-fed systems can be located farther from the operating position, perhaps as much as 100 m / 328 ft. without a great amount of signal loss below 2 MHz.

The layouts of the Controller, Feedpoint, and Termination boxes are not critical. Documentation presented herein is limited to electrical schematics. Commonly-available parts are noted by value only. Unusual components are noted with vendor stock numbers. For a list of parts vendors I use often,

check <http://members.aol.com/MarkWAIION/vendors.htm>.

Test data tables below are for a coaxially-fed unamplified pennant antenna (Table 1) and for a twinlead-fed pennant system with a BBVA-A amplifier providing about 30 dB of gain (Table 2).

Stations shown are a representative sample. For an "unabridged" daytime bandscan at this site, go to [http://members.xoom.com/MarkWAIION/w\\_yarmouth\\_day\\_scan.htm](http://members.xoom.com/MarkWAIION/w_yarmouth_day_scan.htm).

Table 1: Pennant Antenna fed with Coaxial Cable (employing Coaxial Controller, Feedpoint, and Termination boxes) - no amplification:

FREQ	CALL	ST.	BEARING DEG	COAXIAL CABLE IMPLEMENTATION				
				dB o/S-0 Pennant peak	ohms Pennant peak R	dB o/S-0 Pennant null	ohms Pennant null R	dB Pennant null depth
730	WJTO	ME	6.98	45	> 20K	39	54	6
620	WZON	ME	17.87	34	> 20K	30	54	4
910	WABI	ME	18.69	33	> 20K	30	54	3
1170	WFPB	MA	82.99	56	> 20K	52	54	4
1240	WBUR	MA	189.49	89	> 20K	82	486	7
820	WNYC	NY	253.68	38	54	9	1197	29
570	WMCA	NY	253.68	39	54, > 20K	15	970	24
880	WCBS	NY	254.16	48	54	15	970	33
660	WFAN	NY	254.16	51	> 20K	27	1197	24
1130	WBBR	NY	254.25	28	54, > 20K	9	1135	19
710	WOR	NY	254.32	39	> 20K	12	1070	27
1050	WEVD	NY	254.50	44	54	15	1018	29
1010	WINS	NY	254.60	45	54	15	970	30
770	WABC	NY	255.53	38	54	9	970	29
1340	WNBH	MA	263.89	51	> 20K	33	1018	18
1420	WBSM	MA	266.99	48	> 20K	30	1018	18
1590	WARV	RI	273.36	42	> 20K	15	970	27
1480	WSAR	MA	273.79	45	54, > 20K	18	1018	27
630	WPRO	RI	276.91	43	54, > 20K	21	1018	22
920	WHJJ	RI	277.34	27	54	6	923	21
790	WSKO	RI	280.61	39	54	18	781	21
550	WLKW	RI	284.73	48	> 20K	15	752	33
990	WALE	RI	285.23	42	54, > 20K	9	843	33
810	WGY	NY	292.96	24	> 20K	3	678	21
760	WVNE	MA	293.01	51	> 20K	15	616	36
830	WCRN	MA	294.60	36	> 20K	9	635	27
890	WBPS	MA	302.83	51	54	30	524	21
1200	WKOX	MA	304.41	45	> 20K	12	616	33
1060	WMEX	MA	304.43	51	> 20K	24	498	27
850	WEEI	MA	307.88	58	> 20K	39	472	19
1390	WPLM	MA	308.91	62	> 20K	45	616	17
1600	WUNR	MA	310.38	45	> 20K	27	535	18
1330	WRCA	MA	311.40	42	> 20K	15	524	27
1260	WMKI	MA	314.27	51	> 20K	33	432	18
1510	WNRB	MA	314.45	48	> 20K	27	486	21
1150	WAMG	MA	315.24	50	> 20K	32	360	18
1300	WJDA	MA	316.11	48	> 20K	33	472	15
740	WJIB	MA	316.31	44	> 20K	27	444	17
680	WRKO	MA	317.90	66	> 20K	51	335	15
590	WEZE	MA	318.74	61	> 20K	48	372	13
1430	WXKS	MA	319.01	58	> 20K	43	472	15
1090	WILD	MA	319.33	59	> 20K	44	322	15
1030	WBZ	MA	321.06	64	> 20K	48	303	16
950	WROL	MA	323.04	70	> 20K	54	353	16
1360	WLYN	MA	324.23	60	> 20K	45	285	15
800	WCCM	MA	324.43	42	> 20K	26	326	16
610	WGIR	NH	327.26	42	> 20K	27	303	15
1230	WESX	MA	330.63	54	> 20K	42	232	12

FREQ	CALI.	BEARING		COAXIAL CABLE IMPLEMENTATION					
		ST.	DEG	dB o/S-0	ohms	dB o/S-0	ohms	dB	
1570	WNSH	MA	332.68	Pennant peak	42	> 20K	30	54	12
1450	WNBP	MA	337.65	Pennant peak	51	> 20K	39	54	12
930	WGIN	NH	341.76	Pennant peak	45	> 20K	33	54	12
1270	WTSN	NH	342.93	Pennant peak	42	> 20K	30	54	12
870	WLAM	ME	354.28	Pennant peak	44	> 20K	34	54	10
1440	WJAE	ME	356.69	Pennant peak	48	> 20K	39	54	9
970	WZAN	ME	357.81	Pennant peak	59	> 20K	45	54	14
560	WGAN	ME	358.01	Pennant peak	51	> 20K	45	> 20K	6
1490	WBAE	ME	358.93	Pennant peak	45	> 20K	39	54	6

Table 2: Pennant Antenna fed with Twinlead Cable (employing Twinlead Controller and Termination boxes), 30 dB amplification:

FREQCALL	BEARING		TWINLEAD IMPLEMENTATION						
	ST.	DEG	dB o/S-0	ohms	dB o/S-0	ohms	dB		
620	WZON	ME	17.87	Pennant peak	63	> 20K	60	54	3
910	WABI	ME	18.69	Pennant peak	59	no var.	59	no var.	0
1170	WFPB	MA	82.99	Pennant peak	88	54	84	> 20K	4
1240	WBUR	MA	189.49	Pennant peak	119	54	84	2300	35
820	WNYC	NY	253.68	Pennant peak	71	54	39	1135	32
570	WMCA	NY	253.68	Pennant peak	73	> 20K	52	879	21
880	WCBS	NY	254.16	Pennant peak	87	54	51	843	36
660	WFAN	NY	254.16	Pennant peak	88	54	58	923	30
1130	WBBR	NY	254.25	Pennant peak	81	54	45	1018	36
710	WOR	NY	254.32	Pennant peak	73	54	45	970	28
1050	WEVD	NY	254.50	Pennant peak	82	54	48	923	34
1010	WINS	NY	254.60	Pennant peak	84	54	50	970	34
770	WABC	NY	255.53	Pennant peak	70	54	33	879	37
1340	WNBH	MA	263.89	Pennant peak	89	54	56	1018	33
1420	WBSM	MA	266.99	Pennant peak	84	54	45	1135	39
630	WPRO	RI	276.91	Pennant peak	81	> 20K	56	752	25
920	WHJJ	RI	277.34	Pennant peak	60	54	42	879	18
790	WSKO	RI	280.61	Pennant peak	74	54	51	923	23
1290	WRNI	RI	281.30	Pennant peak	79	54	42	923	37
810	WGY	NY	292.96	Pennant peak	56	54	36	582	20
760	WVNE	MA	293.01	Pennant peak	66	54, >20K	51	551	15
830	WCRN	MA	294.60	Pennant peak	66	54	48	598	18
890	WBPS	MA	302.83	Pennant peak	84	54	61	524	23
1200	WKOX	MA	304.41	Pennant peak	83	54	54	678	29
1060	WMEX	MA	304.43	Pennant peak	84	54	58	565	26
850	WEEI	MA	307.88	Pennant peak	89	> 20K	76	480	13
1260	WMKI	MA	314.27	Pennant peak	89	54	72	486	17
1300	WJDA	MA	316.11	Pennant peak	82	54	64	455	18
1030	WBZ	MA	321.06	Pennant peak	93	54	86	278	7
950	WROL	MA	323.04	Pennant peak	94	54	89	306	5
1360	WLYN	MA	324.23	Pennant peak	89	54	83	353	6
800	WCCM	MA	324.43	Pennant peak	73	> 20K	58	295	15
1450	WNBP	MA	337.65	Pennant peak	83	54	77	480	6
1440	WJAE	ME	356.69	Pennant peak	81	54	76	> 20K	5
970	WZAN	ME	357.81	Pennant peak	89	no var.	89	no var.	0
560	WGAN	ME	358.01	Pennant peak	86	> 20K	74	54	12

The coaxially-fed system exhibits nulls up to 36 dB with best performance at about 290 degrees and the twinlead-fed system reaches 39 dB of null depth with best performance near 270 degrees (i.e. due west). I'm not sure how the feedline chosen has an effect on best null angle, other than perhaps by

unintended coupling to the antenna element. Null depth in the 250 - 330 degree bearing range is shown in Chart 1. This chart would have been extended down to 230 degrees for symmetry, but there weren't enough suitable stations on 230 - 250 degree bearings to provide useful data.

Chart 1: Null Depth

As noted in the introductory discussion, the resistance required for a null varies with the bearing of the null. Deepest nulls, in the principal design direction of the antenna, occur with resistance values of 700 to 1000 ohms. Depths of 30 dB or better, at least on stable groundwave signals, can be expected within 10 degrees of the optimum bearing with resistances in the 700 to 1000 ohm window. An interesting fact that came up, not mentioned in the K6SE article, is that nulls can be "slewed" well off the principal axis, admittedly with decreased null depth at greater bearing deviations. Tables 1 and 2 above, and Chart 2 below, show that bearings counter-clockwise (anticlockwise) of optimum require null resistances greater than normal values. Nulls on bearings clockwise of optimum require null resistance values that are lower: down to about 300 ohms.

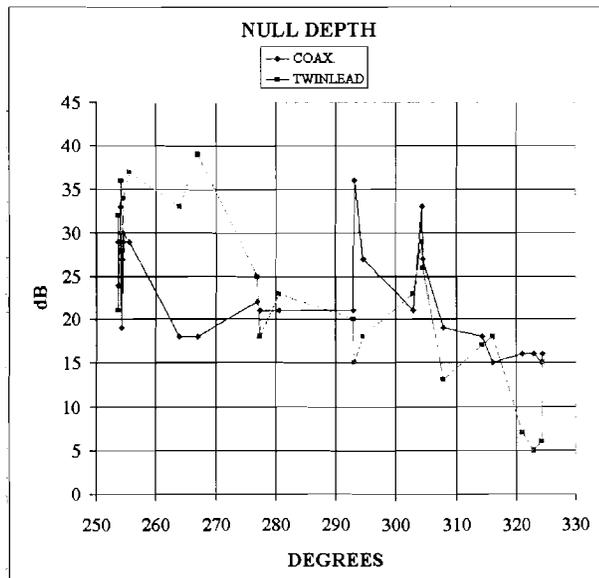


Chart 2: Null Resistance

Null resistances were measured by measuring control voltage during reception tests and then calibrating voltage versus resistance with the system brought indoors (termination box opened up). Table 3 shows the calibration factors.

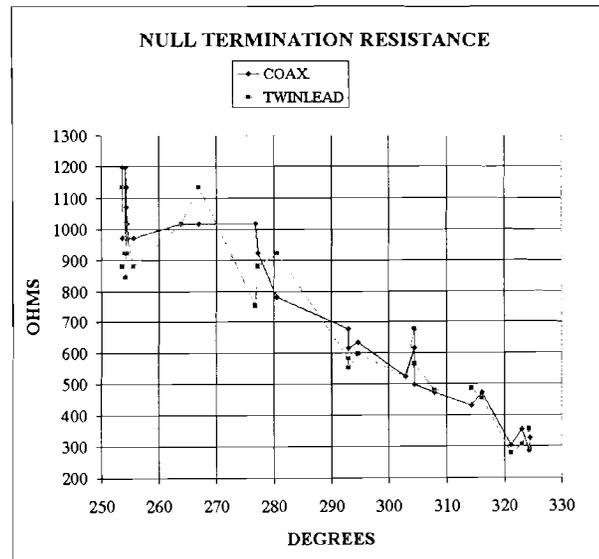


Table 3: Control Voltage versus Null Resistance and Vactrol LED Current

VTL5C4 VACTROL - CONTROLLED PENNANT ANTENNA TERMINATION

V (pot)	V (wires)	ohms	mA	V (pot)	V (wires)	ohms	mA
<1.3	=V(pot)	> 20K	0.00	1.95	1.742	480	1.43
1.50	1.478	10K	0.15	1.96	1.748	472	1.46
1.60	1.546	2300	0.37	1.98	1.759	455	1.53
1.65	1.577	1570	0.50	2.00	1.770	432	1.59
1.66	1.583	1450	0.53	2.02	1.780	419	1.66
1.67	1.589	1365	0.56	2.04	1.790	400	1.72
1.68	1.595	1273	0.59	2.06	1.800	390	1.79
1.69	1.601	1197	0.61	2.08	1.810	372	1.86
1.70	1.607	1135	0.64	2.10	1.820	360	1.93
1.71	1.613	1070	0.67	2.12	1.830	353	2.00
1.72	1.619	1018	0.70	2.14	1.840	339	2.07
1.73	1.624	970	0.73	2.16	1.850	330	2.14
1.74	1.630	923	0.76	2.18	1.860	322	2.21
1.75	1.636	879	0.79	2.20	1.870	314	2.28
1.76	1.642	843	0.82	2.25	1.895	295	2.45
1.77	1.648	811	0.84	2.30	1.920	278	2.62
1.78	1.653	781	0.87	2.35	1.945	264	2.79
1.79	1.659	752	0.90	2.40	1.970	250	2.97
1.80	1.665	726	0.93	2.45	1.995	238	3.14
1.81	1.670	699	0.97	2.50	2.020	228	3.31
1.82	1.675	678	1.00	2.55	2.048	220	3.46
1.83	1.680	655	1.04	2.60	2.076	213	3.61
1.84	1.685	635	1.07	2.65	2.104	204	3.77
1.85	1.690	616	1.11	2.70	2.132	197	3.92
1.86	1.694	598	1.14	2.75	2.160	191	4.07
1.87	1.699	582	1.18	2.80	2.188	187	4.22
1.88	1.704	565	1.21	2.90	2.244	176	4.52
1.89	1.709	551	1.25	3.00	2.300	166	4.83
1.90	1.714	535	1.28	3.50	2.510	132	6.83
1.91	1.720	524	1.31	5.50	3.500	82	13.79
1.92	1.725	512	1.34	10.00	5.790	54	29.03
1.93	1.731	498	1.37				
1.94	1.736	486	1.40				

Phased Arrays

Phased arrays of pennants can be used to deepen the null (enhancing front-to-back ratio) and to focus the pick-up area into a narrower lobe, approaching Beverage-like tightness. In situations such as the 160-m band, with a narrow overall bandwidth to cover, one can make use of simple phasing methods, such as specific feedline lengths acting as delay lines. On the AM broadcast band, with a nearly 4 to 1 maximum to minimum frequency ratio, a phasing unit offering continuous shifting over 360 degrees must be used. There are many units which will provide this functionality: these include modified<sup>20</sup> versions of the commercially-available MFJ-1026. The simplest phased array would be two pennants spaced a minimum of 1/12 wavelength and a maximum of 1/3 wavelength apart along the desired peak-null axis. A medium wave example: With signals to the west to be eliminated, place two pennant antennas about 50 m / 164 ft. apart on an east-west line. First, configure each antenna for best-possible cardioids nulling west. Present the two antennas' contributions to the phasing unit's inputs and then adjust the phase and amplitude controls to remove whatever vestiges of western signals that are still there to interfere with desired DX stations from the northeast, east, and southeast. See [http://members.aol.com/MarkWAIION/phased\\_arrays.htm](http://members.aol.com/MarkWAIION/phased_arrays.htm)<sup>21</sup> for further discussions of phased arrays.

Electrical Noise Considerations

As noted previously, local electrical noise can be reduced by trying different heights of the pennant system above ground. The pennant, like the K9AY, sums electrical (E) and magnetic (H) field pick-ups to produce a cardioid pattern. This is similar to using an active whip and a broadband magnetic loop as the two inputs to a phasing unit: that's what I typically use on car DXpeditions.

Since the electrical field pick-up often contains locally-generated noise to a greater extent than what's

intercepted by a balanced magnetic field loop antenna, combined E-field / H-field systems like the pennant, K9AY, or Ewe might not be as "quiet" or as usable as a traditional loop for weak-signal work in average residential areas. Two or more magnetic loops used as elements of a phased array can create cardioid directionality with less local noise pick-up; the price you pay is greater null adjustment complexity as contrasted with the pennant or similar single-antenna system.

Conclusions

At most sites, the pennant antenna offers a simple single-antenna method of producing a cardioid pattern. Use of a remotely-controlled termination resistance allows a degree of slewing the null bearing and depth to reduce interference from numerous stations in the approximate opposite direction of DX targets being chased. In many cases, especially when grounding for a K9AY system is inadequate, the pennant represents the best receiving-antenna solution at sites having limited space.

Construction Drawings

Figure 1

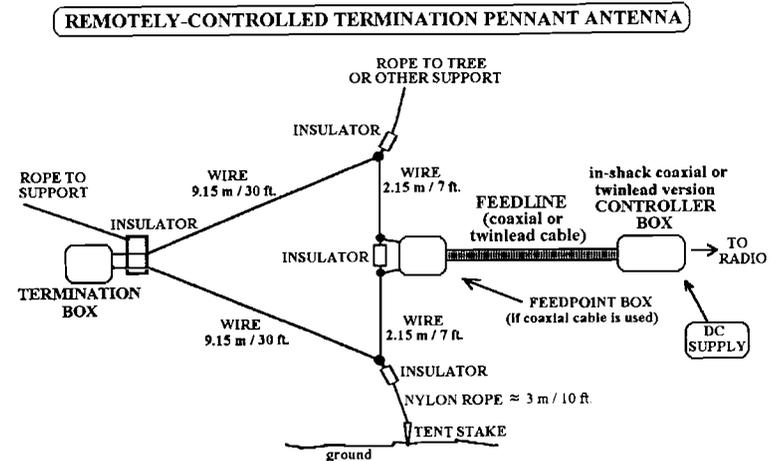


Figure 2

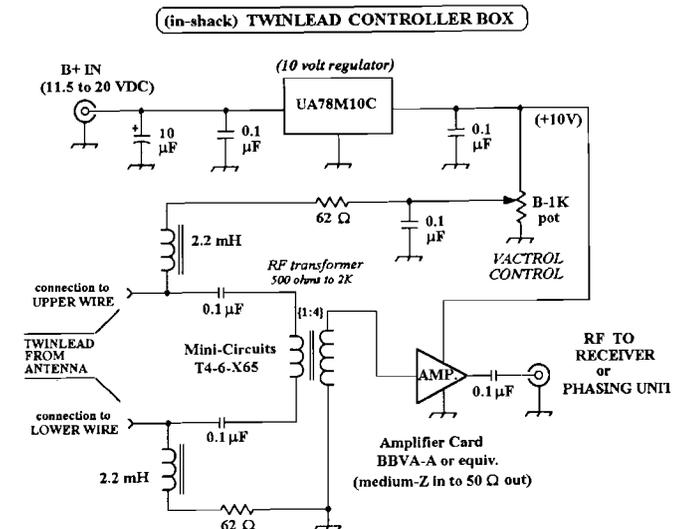


Figure 3

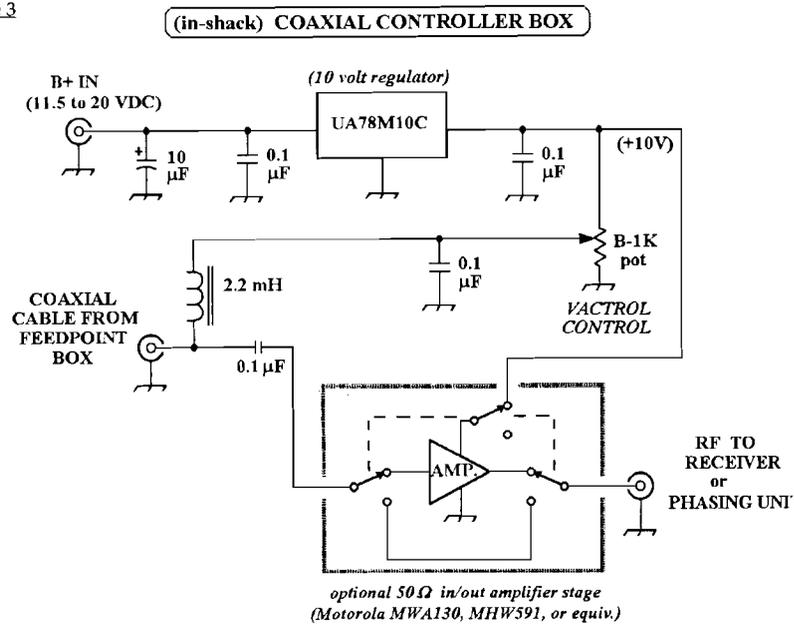


Figure 4

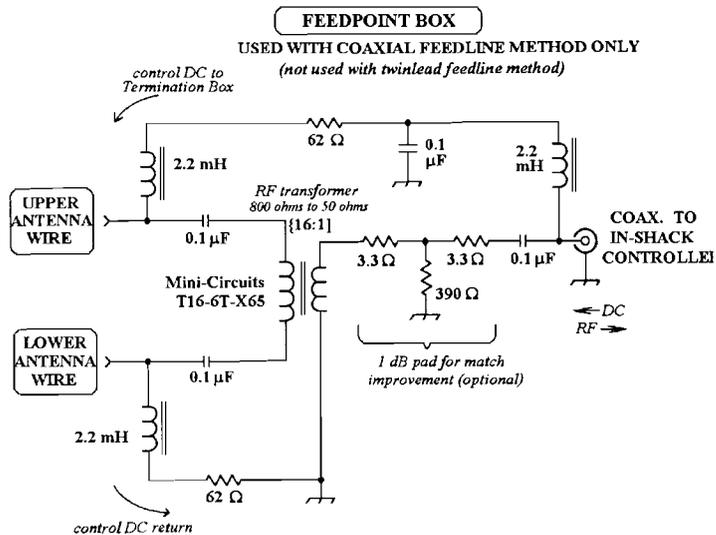
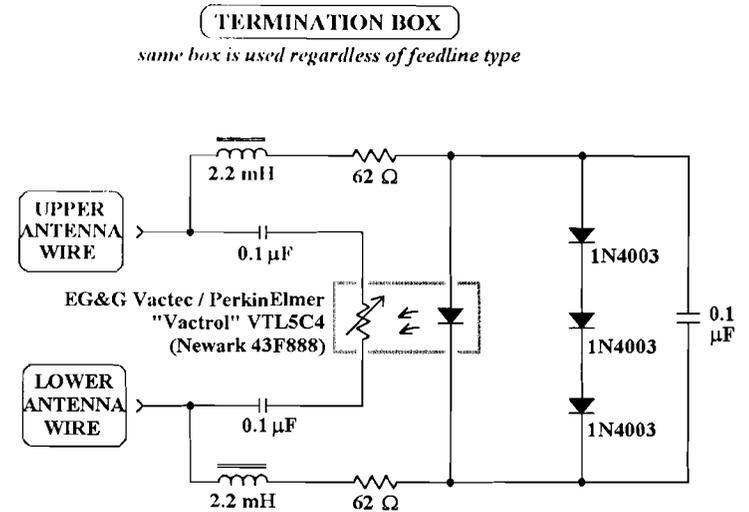


Figure 5

**Notes**

- (1) 1N4003 diodes clamp maximum voltage to  $\approx 2$  VDC, corresponding to  $\approx 30$  mA through Vactrol LED. This sets photoresistor to minimum value, about  $54 \Omega$ .
- (2) Box may be fitted with a hook to facilitate rope attachment.

# Musings

## of the Members

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

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

DAVE SCHMIDT - P O BOX 3111 - SCRANTON, PA 18505-0111

OK everyone, where'd did our Musings go? Well, no one has sent any in for a while now, and I've certainly been willing and waiting to hear from everyone! As we approach another season, I'd like to invite everyone to send in an introduction or reintroduction Musing for Issue #1, with the deadline the Friday the week before the announced deadline on the front cover of DX NEWS. And Fridays will be our deadline days; I check the PO box a couple of times a week, and Email is checked daily. Tell us about your DX doings, let us know how long you've been listening, your best verification, your best catch....brag a little! We just ask that items submitted are radio related, a pretty simple rule. Double spacing on mail-in Musings would be appreciated, Email can be single-spaced (letter size can be adjusted). On 8/16, I accepted a position with the Luzerne and Susquehanna Railway as General Manager and will be in charge of operations in the area between Scranton and Wilkes Barre. Its a shortline operation, but it's daylight work and weekends off, something I haven't enjoyed for some time now. So, maybe it'll give me time to get back at the dials, something I've been trying to do for some time now. Let's make Issue #1 a BIG one and show the support for the column it needs (and as it had in the past!). Thanks, good listening and 73's!

## Sunrise-Sunset Maps

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