

# DX News

*Serving DXers since 1933*



Volume 72, No. 20 - February 21, 2005 (ISSN 0737-1659)

## Inside ...

2 .. AM Switch  
6 .. DDXD  
9 .. IDX  
12 .. NRC Contest

13 .. WSMN  
14 .. Target DX  
16 .. GYDXA-1230  
20 .. Geomagnetic Indices  
23 .. Musings of the Members

*From the Publisher ...* Another 1590 station bites the dust, this time WSMN-1590 in Nashua, NH ... see p. 13 for details, and p. 9 for Nashua resident Bruce Conti's take on the situation. This time skyrocketing land values seem to be the main culprit in hastening a station's demise ... always a sad commentary on the state of local AM radio in these times

Anyone going to Kulpville '05 March 11-12? Contact Ken Chatterton (see back page) for more information if you'd also like to represent the NRC at this venerable gathering of radio hobbyists.

*Welcome to these new members ...* Leslie

Locklear - Gulfport, MS (rejoins), Danny Kolhage - Key West, FL

### DX Time Machine

#### *From the pages of DX News:*

50 years ago ... from the February 19, 1955 DXN: Scooter Segraves, Stuttgart, AR reported that he celebrated his 15th birthday on 1/24 by adding a new state via the WLNH-1350 DX broadcast for the NRC, followed by DX programs from KTOW-800 and CFNC-1060, also WCAM-1310 on AN schedule.

25 years ago ... from the February 25, 1980 DXN: Dave Schmidt, Castle Hills-New Castle, DE, checked in with a Muse and reported more noise in his neighborhood, either from a light dimmer or a fluorescent light.

10 years ago ... from the February 20, 1995 DXN: Approximately 65 AM stations were planning to take advantage of 1991 FCC rule changes that allowed class B stations to upgrade their signals as long as they did not interfere with other stations. KFWB-980 Los Angeles was planning to upgrade to 50 kW from 5 kW.

### DXN Publishing Schedule, Volume 72

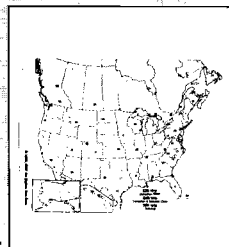
Iss.	Deadline	Pub. Date	Iss.	Deadline	Pub. Date
21.	Feb. 18	Feb. 28	26.	May 6	May 16
22.	Feb. 25	Mar. 7	27.	June 3	June 13
23.	Mar. 11	Mar. 21	28.	July 1	July 11
24.	Mar. 25	April 4	29.	Aug. 5	Aug. 15
25.	April 8	April 18	30.	Sept. 9	Sept. 19

## The County Cross Reference

*What a time-saver! A complete list of counties, parishes, and similar political divisions in the U. S. and Canada. Two lists are included: alpha by county, and by state. Compiled by Bill Hale and designed and produced by Wayne and Joan Heinen. \$7.50 for members, \$10.95, non-member; overseas surface mail, add \$4.00 for first copy; \$.64 for each add'l copy! For airmail, add \$8.00 for each 3 or fraction of 3. Order "CCR" from the NRC Publications center; NY residents, please include sales tax.*

## AM Station Location Maps

7th edition - \$13.00 to members (\$18.95 non-members), ppd. 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 residents, please add sales tax.



# AM Switch

**Bill Hale** w\_r\_hale@sbcglobal.net  
6124 Roaring Springs Drive  
North Richland Hills, TX 76180-5552

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

### CALL LETTER CHANGES

Old Call	New Call
650 KHNR HI Honolulu	KRTR
940 KJPN HI Waipahu	KKNE
950 WBKH MS Hattiesburg	WHSY
1280 KTFM TX Pearsall	KILM
1340 KBEY TX Burnet	KRHC
1360 WCKY OH Cincinnati	WSAI
1420 KXOW AR Hot Springs	KBHS
1530 WSAI OH Cincinnati	WCKY



Today's Christian Radical

### CPs ON THE AIR

730 WJYM OH Bowling Green - CP for U4 1000/359 is on the air.

### GRANTS TO EXISTING FACILITIES

610 WFNZ NC Charlotte - Coordinate correction to N35-18-03 W80-53-18.  
830 KMUL TX Farwell - CP amendment granted for U1 1100/10 from a new transmitter site at N34-29-37 W103-23-38 along with a change in city-of-license (CoL) from Muleshoe, Texas on this frequency (now on 1380 kHz). Station had originally requested U11 50000/9 CH 14000.  
1040 WCHR NJ Flemington - CP granted to increase day and night power levels and add CH operation to become U7 15000/2500 CH 7500.  
1210 WILY IL Centralia - CP granted to increase their daytime power to be D4 10000/0 CH 1100. They still have an application pending to add 3 Watts nights.  
1360 KHNC CO Johnstown - CP granted to add a tower to their current two in order to increase their nighttime power to be U2 10000/1000.  
1400 KIGO ID St. Anthony - CP amendment granted for U1 32000/12 from a new transmitter site at N43-40-03 W111-52-07 on 1420 kHz. Station had originally requested U1 50000/16.

### APPLICATIONS FROM EXISTING FACILITIES

1350 WKCU MS Corinth - Applies to increase day power and decrease night power to become U1 1000/44.

### AMENDMENTS TO CONSTRUCTION PERMITS SUBMITTED

1260 KIMB NE Kimball - Licensed for U1 1000/112, KIMB has a CP for U5 50000/112 from a new transmitter site at N41-15-08 W103-39-49, along with an amendment to that application to change the city-of-license to Ogallala, Nebraska. This second amendment requests U5 50000/110 from two slightly taller towers at another site, again from Ogallala.

### AMENDMENTS TO APPLICATIONS SUBMITTED

710 WREM ME Monticello - Licensed for D1 5000/0, WREM applied to move to 780 kHz with U1 5000/60 CH 5000. The application was rejected as it seems that the applicant, a Mr. Allan Weiner of Kennebunk, Maine who some of you may remember held a license (still may) for a short wave station in Maine, was cited for some kind of broadcast misconduct. This latest amendment certifies that there has been no recurrence of misconduct on the part of Mr. Weiner.  
860 WFMO NC Fairmont - Licensed for U1 1000/12, WFMO has a pending application for U4 50000/750 from four new 286' towers at a new site. This amendment moves the site about 7 miles to the west.  
1080 KGVY AZ Green Valley - Licensed for D1 1000/0, KGVY applied to move to Tucson, Arizona with D1 2000/0. This amendment now asks for D1 1700/0 from Tucson.

1120 WXJO GA Gordon - Licensed for D1 10000/0 CH 2500, WXJO had applied for D1 10000/0 from a new 6-tower site, plus a city-of-license change to Smyrna, Georgia. This amendment requests D1 10000/0 from another site, this one with 4 new towers.  
1150 KCKY AZ Coolidge - Licensed for U4 5000/1000, KCKY has a pending application to change their city-of-license to Apache Junction, Arizona and lower their nighttime power to become U4 5000/190. This amendment requests U4 5000/185 from Apache Junction.  
1230 KLIC LA Monroe - Licensed for U1 1000/1000, KLIC has a pending application for U1 500/500 with a city-of-licensed change to Richwood, Louisiana. This amendment requests U1 1000/1000 from Richwood.  
1250 WPEL PA Montrose - Licensed for D1 1000/0, WPEL has a pending application for U1 1000/137 CH 1000 on 800 kHz. This amendment lowers the nighttime power by two Watts.  
1250 KZDC TX San Antonio - Licensed for U2 1000/1000, KZDC has a pending application for U4 50000/2000 with a city-of-license change to Bandera, Texas. This amendment changes the application to U4 35000/2000.  
1270 WXGO IN Madison - Licensed for U4 1000/58, WXGO has a pending application to move the city-of-license to Aurora, Indiana, build six new 194' towers for D3 600/0 operation. This amendment requests D3 330/0 from six similar towers at a different location.  
1280 WWPG AL Tuscaloosa - Licensed for U2 5000/500, WWPG has a pending application to change the city-of-license to Eutaw, Alabama while relocating to a new 3-tower site and increase their power levels to become U2 7000/500. This amendment requests U1 7000/25 from that new site and CoL using only one tower.  
1310 WJUS AL Marion - Licensed for U1 5000/34, WJUS has a pending application for U1 1100/17 with a CoL change to Selma, Alabama. This amendment lowers the night power to 16 Watts from Selma.  
1400 KHCB TX Galveston - Licensed for U1 1000/1000, KHCB applied to move to League City with U4 1000/1000. This amendment alters the directional patterns.  
1560 WSQR IL Sycamore - Licensed for U1 198/18, WSQR has a pending application for D1 800/0 with a frequency switch to 1180 kHz. This amendment requests D1 900/0 on 1180.

### AMENDMENTS TO CPs FOR PENDING FACILITIES

720 WQTH NH Hanover - This new station, not yet on the air, has a CP for U4 50000/500 and an amendment requesting U7 50000/1700 CH 50000 from a new site as well as a city-of-license change to Claremont, New Hampshire. This latest amendment asks for U7 50000/2500 CH 50000 from Claremont. All three proposed patterns shoot due north.  
1470 KNFL UT Tremonton - This new station, not yet on the air, had a CP for U4 10000/1000, but was later amended to U2 1000/940. This amendment now requests U2 1000/880.

### AMENDMENTS TO APPLICATIONS FOR PENDING FACILITIES

750 NEW MN Duluth - Original application was for U2 1000/1000. This amendment requests U7 7000/500 CH 5000.  
830 NEW FL Hilliard - Original application was for U4 10000/2500 from a 4-tower site. This amendment requests U4 50000/4000 from six towers at a new site.  
890 NEW TX Mabank - Original application was for U4 400/250. This amendment requests U4 600/250. This application is very precarious as Mabank is only 40 miles from the new KTXV in Frankston, Texas.  
940 NEW NC Beaver Creek - Original application was for U4 3500/750 from 6 towers. This amendment requests U4 250/250 from 4 towers at a new site.  
1050 NEW MT Missoula - Original application was for U2 1000/1000. This amendment requests U4 50000/450.  
1060 NEW CA Arroyo Grande - Original application was for U4 10000/1500. This amendment requests U4 10000/5000.  
1140 NEW TX Shallowater - Original application was for U4 3000/250. This amendment requests U4 5000/300. Shallowater is just northwest of Lubbock.

- 1140 NEW WA **Aberdeen** - Original application was for U2 1000/1000. This amendment requests U2 5000/2500.
- 1230 NEW TX **McNary** - Original application was for U1 250/250. This amendment requests U1 1000/1000. McNary is about 50 miles southeast of El Paso, on the Rio Grande.
- 1230 NEW TX **Presidio** - Original application was for U1 250/250. This amendment requests U1 1000/1000. Presidio is about 200 miles southeast of El Paso, on the Rio Grande.
- 1250 NEW MD **Salisbury** - Original application was for U4 483/483. This amendment requests U4 500/300.
- 1290 NEW MN **Saint Paul Church** - Original application was for U4 3626/250. This amendment requests U4 5000/300. Saint Paul Church is near Duluth.
- 1300 NEW FL **Key West** - Original application was for U4 2000/250. This amendment requests U4 260/260.
- 1300 NEW MN **Bemidji** - Original application was for U2 2500/500. This amendment requests U2 2500/600.
- 1400 NEW CA **Ridgecrest** - Original application was for U1 250/250. This amendment requests U1 1000/1000.
- 1400 NEW MN **Bemidji** - Original application was for U1 250/250. This amendment requests U1 1000/1000.
- 1400 NEW TX **Langtry** - Original application was for U1 250/250. This amendment requests U1 1000/1000. Langtry is northwest of Del Rio on U.S. 90.
- 1450 NEW AK **Unalaska** - Original application was for U1 1000/1000. This amendment requests U1 5000/5000. This may be the first U.S. 'superpower' on a channel, but who are they going to interfere with? Unalaska is wa-a-ay out in the Aleutian chain about 1000 miles west of Anchorage.
- 1450 NEW AZ **Cameron** - Original application was for U1 250/250. This amendment requests U1 1000/1000. Cameron is about 50 miles north of Flagstaff.
- 1450 NEW CO **Eads** - Original application was for U1 250/250. This amendment requests U1 1000/1000. Eads is in southeast Colorado north of Lamar.
- 1450 NEW TX **Comstock** - Original application was for U1 250/250. This application requests U1 1000/1000. Comstock is north of Del Rio on U.S. 90.
- 1490 NEW CA **Del Norte** - Original application was for U1 250/250. This application requests U1 1000/1000. Del Norte is on the California coast near the Oregon border.
- 1490 NEW CT **Uncasville** - Original application was for U1 250/250. This amendment requests U1 1000/250.
- 1490 NEW UT **Richfield** - Original application was for U1 250/250. This application requests U1 1000/1000.
- 1490 NEW WY **Jackson** - Original application was for U1 250/250. This application requests U1 1000/420.
- 1600 NEW HI **Hilo** - Original application was for U1 5000/5000. This application requests U4 10000/10000 on 1590 kHz.

#### APPLICATIONS FOR NEW STATIONS

- 1380 NEW LA **Bossier City** - Applies for U4 715/715.
- 1400 NEW VA **South Boston** - Applies for U1 1000/1000.
- 1410 NEW VA **Midlothian** - Applies for U4 360/360.
- 1590 NEW AL **Opp** - Applies for U4 500/250.

#### APPLICATIONS REINSTATED

- 960 WZRH NC **Dallas** - Application is to increase daytime power to 2400 Watts.

#### APPLICATIONS FROM EXISTING FACILITIES DISMISSED

- 1050 KCAA CA **Loma Linda** - Application was to increase power to 1800 Watts from a new transmitter site. Station remains D3 1400/0.
- 1190 WSDE NY **Cobleskill** - Application to add a CH designation has been dropped from the application which requested CH and night operation. The application for U1 1000/20 remains in pending status.
- 1490 KRSN NM **Los Alamos** - Application was to relocate their transmitter in order to share the tower of KSWV-810 Santa Fe, New Mexico and change city-of-license to Santa Fe.

#### PETITIONS FOR RECONSIDERATION FOR APPLICATIONS

- 1380 KRCM TX **Beaumont** - Station applied to move to Shenandoah, Texas with D1 600/0 as part of the Auction 84 window but the application was rejected. This amendment requests U1 480/65 from a new tower site.

#### LICENSE RENEWALS GRANTED

720 WGN	IL Chicago	1450 WKLA	MI Ludington
1220 WKRS	IL Waukegan	1540 WSMI	IL Litchfield
1420 WJUB	WI Plymouth	1570 WFRL	IL Freeport

#### NORTH OF THE 49<sup>TH</sup> PARALLEL

- CHUC-1450 Cobourg, Ontario** has applied to move from AM to 107.9 MHz on the FM band with 1030 Watts of ERP at 203 metres.

#### HEAR AND THAR

- Let's talk Graveyard DX Achievements for a minute. Don't wait 'til you see a GY column to send in updates. So now that the Totals column has hit print, scan your 1230 logs for any updates and send them in. Visit the web page (see below), which has all the details, to see who holds the record and determine if you can best that distance.
- It has been reported that **WKCU-1350 Corinth, Mississippi** and **KBYO-1360 Tallulah, Louisiana** have gone silent, along with **KCLR-1530 Ralls, Texas**. But returning to the airwaves is **KPZA-1590 Hot Springs, Arkansas** with a Spanish format and IDing as "Que Pasa".
- Thanks to **Shawn Axelrod, Gerry Conkling, Perry Crabill, Wayne Heinen, and Jerry Starr**.

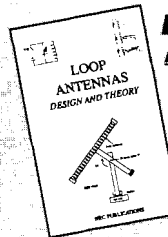
#### GRAVEYARD DX UPDATE

DXer and Location(s)	GY TOTALS						
	1230	1240	1340	1400	1450	1490	Total
John Wilkins Wheat Ridge, CO	29	26	23	34	33	36	181
John Vervoort Brooklyn, NY	6	4	2	5	5	2	24

Remember, all Graveyard records are on-line at: <http://www.angelfire.com/tx2/phantom2/index.html>

### NRC's Antenna Manuals

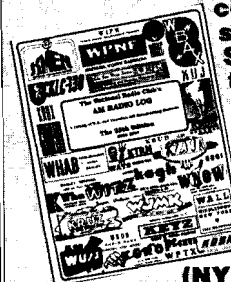
**Now completely revised and up-to-date!**  
**Antenna Reference Manuals, Vol. 1 and 2,**  
**\$8.95 each (\$11.95 to non-members)**  
**Loop Antenna Design & Theory,**  
**\$8.50 (\$12.95 to non-members)**



For overseas surface mail, add \$4.00 for first copy, \$.64 for each additional copy; for airmail, add \$8.00 for each 3 or fraction of 3. Order from NRC Publications - P. O. Box 164 - Mannsville, NY 13661. NY residents, please add sales tax.

### The NRC AM Radio Log, 25th Edition,

including cross-referenced listings from 530-1700 kHz., is compiled from both listeners' reports and official sources, making it the most accurate listing of U. S. and Canadian AM stations available. Unbound, three-hole punched for standard binders. \$19.95 to U. S. members; \$25.95 to U. S. non-NRC members; to Canadian members, \$23.00 (\$29.00 to non-NRC members). Airmail to members in western Europe (except Italy) and Australia, New Zealand, and Japan: \$29.00. All others contact us for exact prices. Order from: NRC Publications - Box 164 - Mannsville, NY 13661 (NY residents, please add sales tax).



# Domestic DX Digest

West: Bill Dvorak westlogs@aol.com

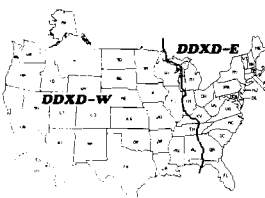
501 Algoma St. - Madison, WI 53704-4812

East: Ginnie Lupi DDXD-E@nycap.rr.com

PO Box 4404 - Clifton Park, New York 12065-0853

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

(Division line is  
between East and  
Central time zones)



## DDXD-West

From the Vast Westland

- Welcome once again to the Vast Westland (and you thought that VW was a car!).
- Conditions have not been the greatest lately. Still, that did not stop Brian Leyton from bagging a 1500+ mile signal, a personal distance record (see KSTP 1500 in "Regular Loggings"). This is just one of the fine loggings that you will find in this week's column, and all are greatly appreciated.
- What are you hearing? Why not share it with the membership by sending it on to your DDXD or IDXD editor. We look forward to hearing from you! 73 Bill

### Reporters

BL-CA Brian Leyton, Valley Village. DX-398 / RS Loop / 18" Box Loop.  
 DP-HI Dale Park, Honolulu <dxfool@aol.com>. Sangean ATS-818CS, Terk AM1000 loop.  
 JW-CO John Wilkins, Wheat Ridge. Drake R-8, 4-foot box loop.  
 PG-CO Patrick Griffith, Westminster. Drake R-8 and Kiwa loop.  
 RT-MN Rick Turner, Bemidji. Radio Shack TRF 12-655, Select-A-Tenna 541.  
 SP-WI Sheryl Paszkiewicz Manitowoc. NRD-515, AOR LA350.  
 Ed.-WI Your editor, Madison. Drake R8B, Quantum QX Pro loop.

### Station News

- 1150 KCCT TX Corpus Christi. Per Corpus Christi Caller-Times, station flipped to liberal talk on 2/8 featuring Air America programming. (DP-HI)
- 1280 KBNO CO Denver. According to the *Denver Post*, KBNO (Que Bueno) is #1 among adults 18-44 in the latest ratings. KBNO is non-affiliated and locally owned. This is a first here for a Spanish-language station, and they beat out the traditional leaders KOA and KYGO. The other Spanish competitors in the market weren't even close to the top. A link to the *Post* article can be found online at <www.radioquebueno.com/article6.html>. (PG-CO)

### Regular DX Loggings (times in ELT)

- 690 CBU BC Vancouver. 2/6 0200. Out of the Sounds of Quebec program with "You're listening to CBC Radio One, six-ninety AM in Vancouver" and into news and local weather. (PG-CO)
- 860 CJBC ON Toronto. 2/3 0100. "Ici Radio Canada"... "Say-Gee-Bay-Say" at TOH into FF news. Strong signal. (RT-MN)
- 860 KKOW KS Pittsburg. 2/3 1900. Callsign ID, weather into CBS news with CJBC underneath. Disappeared shortly thereafter. (RT-MN)
- 870 WWL LA New Orleans. 2/4 0100. "The news, talk and sports information leader, AM 870 WWL New Orleans" into CBS news followed by "The Midnight Trucking Radio Network." (RT-MN)
- 870 KPRM MN Park Rapids. 2/4 1300. "You're listening to Rush Limbaugh here on KPRM 870 Park Rapids" into CBS news. (RT-MN)
- 870 WKAR MI East Lansing. 2/4 1800. NPR news, followed by "WKAR must leave the air by 6:15 during the month of February. We invite you to listen to WKAR 90.5 FM." (RT-MN)
- 880 CKLQ MB Brandon. 2/5 0103. Weather forecast for Winnipeg, Dauphin and "here in Brandon", followed by lottery numbers and C&W music. In and out with WCBS. Subsequent monitoring produced a callsign ID later on in the afternoon. (RT-MN)
- 880 WCBS NY New York. 2/5 0105. Weather forecast for the Hudson Valley, followed by a

- time check, "The WCBS news time is 1:05." In and out with CKLQ. (RT-MN)
- 880 KRVN NE Lexington. 2/5 0900. ID at TOH, "This is KRVN, Nebraska. It's eight o'clock" into news. In and out with CKLQ. (RT-MN)
- 890 WLS IL Chicago. 2/6 0100. "News...opinions...passion...news talk 890 WLS" into ABC news. (RT-MN)
- 890 KQLX ND Lisbon. 2/6 1300. Slogan "Kicking Country" and callsign ID, followed by an invitation to listen to their FM outlet on 106.1 and on their website, into weather. Surprisingly good given that the NRC Log states they are 1 kw. (RT-MN)
- 900 CHML ON Hamilton. 2/7 0100. "When you need to know what's happening in Hamilton, AM 900 CHML Hometown Radio" into news. Splatter from WLS, may have said "Hamilton, Ontario." (RT-MN)
- 900 KTIS MN Minneapolis. 2/7 1200. "Grace To You" program, followed by "This is AM 900 KTIS Minneapolis-St. Paul, broadcast ministry of Northwestern College" into AP Network News. (RT-MN)
- 910 WSUI IA Iowa City. 2/8 0100. BBC's "The World Today" followed by ID at TOH, "AM 910 WSUI Iowa City-Cedar Rapids" into NPR news. (RT-MN)
- 920 CFRY MB Portage la Prairie. 2/9 1300. ID "CFRY 920 AM, 93.1 FM, Portage" into news with KWAD nulled. (RT-MN)
- 920 KWAD MN Wadena. 2/9 1307. ABC news, commercial for a photo studio in Wadena, ID'd as "superstation KWAD-KNSP" in semi-null of CFRY. (RT-MN)
- 930 WKY OK Oklahoma City. 2/8 2036. Good at times but mostly under a jumble of other stations. Ad for OK Hair Removal and ID as "Super Talk 930, WKY." A good logging even though they send almost no signal in my direction. (PG-CO)
- 930 CJCA AB Edmonton. 2/9 0220. "Gospel hits from yesterday and today, the new ninety-three CJCA." Solid most of the time in null of WKY. (PG-CO)
- 1110 WBCA AL Bay Minette. 2/1 1938. Southern gospel, "WBCA Gospel Music Radio", Christian message IDs. New. (SP-WI)
- 1140 KSOO SD Sioux Falls. 2/5 1843. South Dakota mentions, calls, "Money Talk", ABC news. (SP-WI)
- 1190 KEX OR Portland. 1/31 0256. "Coast to Coast AM with Art Bell" with guest author Patrick Heron in Dublin; PSAs for Shriners Hospital, breast cancer, slogan "When News Breaks Out, We Break In...Newsradio 11-90 KEX... Newsradio 11-90 KEX Portland"; local weather and newscast. Very poor, QRM from KZOO-1210. (DP-HI)
- 1200 CFGO ON Ottawa. 1/26 1854. Spots, slogan "Sports Radio 1200", OHL hockey game. NEW. (SP-WI)
- 1240 KALY NM Los Ranchos de Albuquerque. 2/9 0757. Radio Disney ads; legal ID at 0959 by kid, then back to RD. Generally fair, mixing with others. (JW-CO)
- 1400 WKNW MI Sault Ste. Marie. 2/9 2259. Poor in graveyard jumble. Sporting News Radio programming, slogan "Talk Radio 1400", legal ID into national news, unID network. NEW! (Ed.-WI)
- 1500 KSTP MN St. Paul. 2/3 0300. Thanks to a tip from Kevin in AZ, I decided to see if they would make it here to California. Rough copy, but did notice Coast to Coast before I went to bed. Recordings revealed ABC News at 0200 TOH, and at 0300, an "AM 1500, KSTP St. Paul—?" I think the last part was "Minneapolis", but it was hard to tell. This is now my second furthest reception after WHO. NEW (and long awaited!) (Later post:) When I went to put it in the log, I recalculated the mileage, and discovered that KSTP is not my 2nd furthest reception, but rather it's in first place! At 1534 miles, it's 80 miles further than WHO. Does this distance imply that the signal made 2-hops to get to me? (BL-CA) (Congratulations, Brian! Ed.-WI)
- 1500 KSJX CA San Jose 2/3 0930. Presumed Asian language. Getting beat up pretty badly by the City of Beverly Hills TIS. Poor-to-fair. (BL-CA)
- 1640 KFNY OK Enid. 2/9 0619. Glenn Hauser's hometown X-bander heard with a generally fair signal in WKSH null, with WTNI signal subdued. Comedy routine, a full 3-1/3 sesquiminutes of commercials (Quicken Loans, NASE Benefit Plans, others), ID by a woman: "KFNY, KFNY, 1640 AM, 1640 AM, Oklahoma's Laugh Button, Enid-Oklahoma City", into All-Comedy Radio Network programming. By far the best overnight reception of this station here. (Ed.-WI)
- 1670 KHPY CA Moreno Valley. 2/8 0800. Singing legal ID, then long religious program with

am1500KSTP

sermon and music; announcements of local gospel events at 0845; all in SS, of course. Fair, mixing with KNRO. (JW-CO)

TIS, HAR, Etc.

- 1500 WP1E851 CA Beverly Hills. 2/3 0930. City of Beverly Hills TIS. They get out pretty well, all things considered. Only 7 miles away, but the Santa Monica Mountains are between here and there. I've seen the site on the Burton Way median, but it doesn't look like anything special. Regular daytime visitor here (BL-CA)

### DDXD-East

Mike Riordan of Salt Lake City, Utah wrote regarding Saul Chernos' 1180 UNID in Issue 17, presumed to be KERI, Bakersfield, CA: "since December 29, this station has not been powering down after sunset. I called the CE of the station. He told me I am wrong in my assertion!" Indeed, this issue has been a big topic of discussion on the NRC AM Listserv; many there have reported hearing the station.

#### REPORTERS

- MKB-ON Mike Brooker, Toronto - Grundig YB-400PE; Panasonic RF-2200.  
 MC-NJ Mike Clancy, Jersey City - DX396.  
 MH-NC Mike Hardester, on I-40 West near Keanensville - Toyota Highlander with imbedded windshield antenna.  
 WJH-MD Bill Harms, Elkridge - R8B, Homebrew K9AY.  
 JR-NY Jim Renfrew, Byron - Drake R8B, Beverages, Quantum Phaser.

#### UNID AND PRESUMED

- 660 UNID — \_\_\_\_ - 1/28 1845 and 1950 - fast Morse code traffic noted under WFAN (NOT Radio Reloj!). I didn't have the recorder set up, but at times there may have been two or more operators on frequency, as noted by differences in tone. The NRC list had quite a bit of back and forth on this, as Fred Vobbe in Lima OH heard it, too. One of his sound clips turned out to be a CQ from K5GO in Arkansas, a station known for its 160 meters work ... but how did it get on 660? (JR-NY)
- 1590 UNID — \_\_\_\_ - 2/3 1225 - Station ending religious talk program with male announcer. Mention of "now on the FBN Network...." garbled talk and into presumed program. Poor level. Probably a NC station, but several to choose from. (MH-NC)
- 1700 UNID — \_\_\_\_ - 2/3 0702 - French language station with talk between man and woman. Occasional mentions of "Radio Nacional," but aside from that, non-specific chatter. About even with, occasionally over, WEUV. Also, occasionally, a Spanish-language station with talk would briefly surface. Poor. Mainly interested in who the French-language station might be. (MH-NC)

#### STATION LOGGINGS

- 930 WHLM PA Bloomsburg - 2/3 0625 - Popped in with two IDs by a male announcer as "News Radio WHLM." Mixing with WFMD, WBEN etc. Heard 22 years ago on 560. (WJH-MD)
- 1170 WFPB MA Orleans - 2/1 1558 - ID at 1558 by female announcer as WUMB-FM. TOH ID at 1601 by male announcer. I heard ID for WUMB and for WFPB 11-70. The announcements were in between blue grass musical selections. Over nulled WWVA which was trying to fade in. (WJH-MD)
- 1280 WCPM KY Cumberland - 2/2 1813 - Weather forecast by a female announcer, ID as "at this time WCPM ... end of broadcasting..." Into a barbershop quartet rendition of the Star Spangled Banner. Mixing with a station with a male preacher and WADO. (WJH-MD)
- 1430 WHAN VA Ashland - 2/1 2005 - Popped in with an ID by a male announcer as AM 14-30 WHAN into a MOYL song. Over all for a few moments. (WJH-MD)
- CHKT ON Toronto - 2/1 2100 - ID as "AM 14-30 CHKT Fairchild Radio" once each by male and female announcer. This was followed by the Afghan Program. (WJH-MD)
- 1460 CJOY ON Guelph - 2/5 0302 - Singing ID as "Good Time Oldies CJOY" into an oldies

selection. Over all. (WJH-MD)

- WBPA KY Elkhorn City - 2/5 0100 - ID by male announcer as "WBTH Williamson, WPRT Prestonburg, WPKE Pikeville, WBPA Elkhorn City" and into CNN news. Fair in the mix. (WJH-MD)
- WPON MI Walled Lake - 2/5 0203 - TOH ID by male announcer as "You are listening to WPON, Walled Lake" into the song "Sweet Talking Guy". Popped in over the mix for a couple of minutes. (WJH-MD)
- 1490 WLPA PA Lancaster - 1/22 2045 - "We're Lancaster's original sports station. Sporting News Radio, WLPAs." Occasional visitor rose up during a snow storm, stayed very clear for a minute, then disappeared back into the mess. Announcer said that the area would get 7-14 inches of snow. QSL received. (MC-NJ)
- 1520 WCHE PA West Chester - 2/3 1200 - ID by female announcer as "You are listening to WCHE West Chester." This was followed by an by male announcer with "WCHE, time is 12 o'clock." Mixing with WWKB. WTRI off the air. They were playing light oldies. New. (WJH-MD)
- 1570 WNST MD Towson - 2/2 1905 - dominating frequency (perhaps they forgot to switch off day power?) with promo for Super Bowl contest on [www.wnst.net](http://www.wnst.net) web site, "Sports talk 1570 WNST" ID into Sporting News Radio programming. (MKB-ON)
- 1580 WKKD IL Aurora - 2/3 0200 - ID before USA Radio News, then "Health Radio Network" call-in program. (JR-NY)
- 1700 WEUV AL Huntsville - 2/3 0702 - Morning obituary report, spot for Reed's Hardware, church announcements, several mentions of WEUP, and slogan as "The People's Station." Gospel music followed. Fair level with QRM from UNID French-language station, as well as Spanish language station. (MH-NC)

## International DX Digest

Bruce Conti [nrcidx@aol.com](mailto:nrcidx@aol.com)  
 46 Ridgefield Drive  
 Nashua, NH 03062-1174

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

"WSMN signs off after more than 45 years," read the headline in the Nashua *Telegraph* newspaper as 1590 WSMN has left the airwaves for the unforeseeable future if not permanently, evicted to make way for a housing development (see IDXD in the July 12, 2004 *DX News*). While it leaves adjacent frequencies 1584 and 1593 wide-open for DXing in New Hampshire, it's less than welcome news for our friends across the Atlantic. Mark Hattam of the UK laments, "A pity since it was one of our semi-easy catches on 1590." (More on p. 13 -pls.)

#### Transatlantic DX

- 549 GERMANY *DeutschlandRadio*, Nordkirchen & Thurnau FEB 6 0518 - Parallel 1422 with classical music; slightly over Algeria. [Connelly-MA]
- 567 IRELAND *RTÉ R.1*, Tullamore FEB 6 0518 - Traditional fiddle music; fair. [Connelly-MA]
- 747 NETHERLANDS *Flevoland* FEB 6 0515 - Soft instrumental music with a synthesizer and a conventional orchestra; good, way over Spain-Canaries. [Connelly-MA]
- 783 MAURITANIA *R.Mauritanie*, Nouakchott FEB 11 0105 - Good; lively Arabic vocal, then signed off, no anthem or announcement. [Conti-NH]
- 837 FRANCE Nancy FEB 6 0513 - French talk; over others. [Connelly-MA]
- 864 FRANCE *France Bleu*, Paris FEB 5 0300 - Good; woman in French, nostalgic vocals, through the top of the hour without a news break. [Conti-NH]
- 882 UNITED KINGDOM *BBC R.Wales*, Washford FEB 6 0512 - English talk about medicine; poor to fair. [Connelly-MA]
- 909 UNITED KINGDOM *BBC R.5* synchros FEB 6 0526 - English talk by man and woman mentioned car racing; getting by WABI. [Connelly-MA]
- 945 FRANCE Toulouse FEB 6 0527 - French talk; in 940 CINW and 950 WROL slop. [Connelly-MA]
- 1062 DENMARK *Danmarks R.*, Kalundborg FEB 6 0509 - Celine Dion style vocal, woman in Danish; to good peak. [Connelly-MA]
- 1179 SWEDEN *R.Sweden*, Solvesborg FEB 6 0530 - Classical music with a religious-sounding chorus; over Spain-Canaries. [Connelly-MA]

- 1206 **FRANCE** Bordeaux FEB 6 0459 - Parallel 1377, 1557 with French talk by two men. [Connelly-MA]
- 1215 **UNITED KINGDOM** *Virgin R. synchros* FEB 6 0504 - Folkish kind of rock vocal, maybe Neil Young; to good peak. [Connelly-MA]
- 1314 **NORWAY** NRK Kvitsøy FEB 5 0405 - Excellent, straight off the wires without phasing; folk vocals. [Conti-NH] FEB 6 0442 - News in Norwegian; excellent, S9++, loudest TA. [Connelly-MA]
- 1359 **SPAIN** RNE1 Arganda del Rey (Madrid) FEB 2 0114-0124 - Assumed the one with man talking, also heard with music at 0128 and woman talking at 0130. [Harms-MD]
- 1377 **FRANCE** Lille FEB 6 0459 - Parallel 1206, 1557 with French discussion, a bit of music, then news read by woman; to good peak. [Connelly-MA]
- 1422 **GERMANY** *DeutschlandRadio*, Heusweiler FEB 6 0458 - Soft classical music; fair. [Connelly-MA]
- 1431 **DJIBOUTI** *R.Sawa*, Arta FEB 2 0204 - Presumed the one here with a huge carrier and bits and pieces of audio. [Harms-MD]
- 1530 **SAO TOME E PRINCIPE** VOA Pinheira FEB 11 0258 - Sign-on with two cycles of the Yankee Doodle interval signal leading to top of the hour news, at 0306 African news in distinctive accented English with African musical interludes easily paralleled with 6035, 7340 and 9885 kHz; under nulled WCKY and presumed WVBF. [Conti-NH]
- 1548 **KUWAIT** *R.Sawa*, Kuwait City FEB 10 2245 - Fair on brief fade-ins with audio, otherwise a strong het against 1550; US and Arabic pop music. + FEB 11 0150 - Good; Celine Dion segued into an Arabic pop vocal, at 0215 still strong with an Arabic R&B vocal into presumed news. [Conti-NH]
- 1548 **UNITED KINGDOM** *BBC R.Bristol*, Bristol-Mangotsfield FEB 6 0454 - BBC talkshow; over other. [Connelly-MA]
- 1557 **FRANCE** Nice FEB 6 0500 - Parallel 1206, 1377 with musical interlude, then French news by woman; fair. [Connelly-MA]
- 1584 **CEUTA** *RadiOlé*, Ceuta FEB 6 0453 - Spanish music; over *SER*. [Connelly-MA] FEB 10 2300 - Faded up strong over *SER* with flamenco guitar and a Mediterranean influenced Spanish vocal, local 1590 WSMN off the air. [Conti-NH]
- 1584 **SPAIN** *SER synchros* FEB 6 0453 - *SER* net talk; under Ceuta. [Connelly-MA] FEB 10 2255 - Good to excellent over Ceuta with local 1590 WSMN off the air; talk parallel a fair *SER* 1575 signal. + FEB 11 0025 - Excellent; telephone talk. [Conti-NH]
- 1593 **KUWAIT** *R.Farda/R.Free Iraq* FEB 10 2315 - Presumed; weak audio but strong het against 1590 WAUB Auburn with WSMN Nashua off the air. [Conti-NH]
- 1611 **VATICAN** *Vatican Radio*, Santa Maria di Galeria FEB 5 0614 - Woman in Scandinavian language (assumed). Good signal peaks between 0610 and 0620, parallel to 7335 kHz. Briefly the 1611 outlet was stronger than 7335. I finally got some readable audio, the carrier has frequently been audible the last couple of weeks. [Beu-TX]

## Pan-American DX

- 535 **GRENADA** *GBN St. George's* FEB 4 0845 - English sports coverage of cricket match between Australia and Pakistan. Good steady signal. [Beu-TX]
- 555 **ST. KITTS & NEVIS** *R. ZIZ*, Basseterre FEB 6 0521 - Soca male vocal; fair. [Connelly-MA]
- 780 **VENEZUELA** *YVOD Ecos del Torbes*, San Cristóbal FEB 5 0348 - Good; sign-off with choral national anthem, leaving *YVMN R.Coro* in clear with WBBM nulled out. [Conti-NH]
- 820 **CUBA** *CMCA R.Ciudad de la Habana*, Santa Catalina FEB 2 0359 - Loud with an ID and then into an anthem. [Harms-MD]
- 870 **CUBA** *CMDT R.Reloj*, Sancti Spiritus FEB 4 0620 - Time pips, one per second, followed by one long pip at the minute mark, followed by "RR" in Morse code. Faint, but audible underneath WWL. Listed as CMDT in Sancti Spiritus per 2005 WRTH. [Turner-MN] FEB 5 0210 - Defective transmission with unstable minute markers and warbling RR code IDs as if overloading the transmitter, through WWL and WHCU. [Conti-NH]
- 1100 **CUBA** *R.Cadena Habana*, La Habana FEB 7 0556 - Lively Cubano-style music, male announcer at 0557, but announcement had echo effect, so even with tape playback, it was pretty much still a jumble. At 0558, male singer with acoustic guitar (last stanza of song was yodeling... strange). At 0601 I heard my first ID, "Transmíte Radio Cadena Habana, la Prensa Oficial... Noticias." At 0602, signal faded under an unID religious station in English, but came back at 0603 with the end of a song and another ID, "Radio Cadena Habana" and a time check as "En todos territorio... los cuatro minutos." Last ID was heard at 0605, "Radio Cadena Habana." [Ponder-TX]

## Radio Angulo

- 1570 **MEXICO** XERF Cd. Acuña FEB 4 1202 - Presumed in graveyard-like jumble with choral version of Mexican national anthem. I believe all Mexican stations are legally required to play the anthem at 0500 or 0600 local time. I've heard it played at this time on other stations such as 730 XEX and 940 XEQ. Does the law, if indeed there is such a law on the Mexican books, also apply to borderblasters pumping out English programming for the Estados Unidos? [Brooker-ON]
- 1620 **US VIRGIN ISLANDS** WDHP Fredriksted, St. Croix FEB 6 0452 - Good with Carib-English talk by woman mentioned "on 1620 AM and on 103.5 FM in St. Croix: carnival and Caribbean culture," talk about steel orchestra competition. [Connelly-MA]
- 1640 **DOMINICAN REPUBLIC** *R.Juventus Don Bosco*, Santo Domingo FEB 4 0304 - Sounding of trumpets, ID by male announcer as "Radio Juventus Don Bosco... 1640 kHz... una voz para la civilización del amor." This was followed by music. Also heard preaching at other times. The signal was fair to good mixing with WTNI and with WKSH nulled. Thanks to Alf Aardal in Norway who first heard this one and informed the gang in #mwdx. [Harms-MD]

## Contributors

- Mike Beu KD5DSQ, Austin TX; Drake R8B, 28 x 17 ft terminated Delta Loop.  
<michael.beu@cingular.com>
- Mike Brooker, Toronto ON. <aum108@idirect.com>
- Mark Connelly WA1ION, Billerica MA; Drake R8A, dual-feedline Flag: 5 x 10.6 m.  
<MarkWA1ION@aol.com>
- Bruce Conti, Nashua NH; R8B, MWDX-5, 15/23/15-m Ewe antennas east and south.
- Bill Harms, Elkridge MD; R8B, homebrew K9AY. <wharms@comcast.net>
- Steve Ponder N5WBI, Houston TX; Sony ICF-SW55. <n5wbi@clearsail.net>
- Rick Turner, Bemidji MN; Radio Shack TRF 12-655, Select-A-Tenna 541. <rturner@paulbunyan.net>

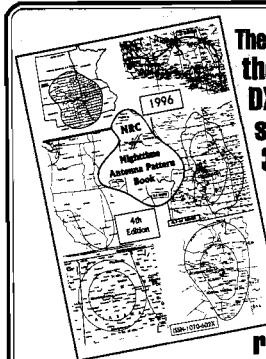
## International News

**GUYANA:** The mediumwave transmissions of Guyana's *National Communications Network* (NCN) are due to restart shortly following repairs to damage caused by recent floods. Vital equipment has been sent from the USA, and as soon as it's installed the transmissions on 560 kHz can resume. Broadcasts on FM 98.1 MHz have continued normally. In addition to damage to the mediumwave transmitter, Broadcasting House was covered by some three feet of water which forced engineers to shut down operations and relocate the studios and control rooms along with all the electrical points above flood level, and there was a similar situation at the TV station which was under two and a half feet of water. [Media Network blog relayed by Steve Whitt, MWC, via Jim Renfrew]

73 and Good DX!

### Promote the NRC and DX News and help us grow!

Planning to attend a DX or hobby gathering? Why not include *DX News* in your plans? Upon request, we'll send you a packet of up to 50 recent DXN's to be given free to attendees. Just send a postcard to NRC - P. O. Box 5711 - Topeka, KS 66605, or e-mail <plsBCBDXER@aol.com>. Packets are sent by Media Mail rate, so please allow 10-15 days for delivery. Help keep the NRC on the grow!



The **NRC Nighttime Antenna Pattern Book, 5th Edition** is the perfect mate to the **NRC AM Log**, as the NPB provides **DX'ers with up-to-date maps of all (except Class IV) stations with nighttime operations.** Convenient to use: **3-hole punched for standard binders. Still only \$16.95 to U. S. and Canadian members; \$22.95 to U. S. and Canadian non-NRC members. Airmail to members in Europe (except Italy): \$29.00.** All others, please contact us for exact pricing. Order from: **NRC Publications - Box 164 - Mannsville, NY 13661 (NY residents, please add sales tax)**

# NRC Contest

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

Wayne Heinen [amradiolog@nrcdxas.org](mailto:amradiolog@nrcdxas.org)  
4131 S. Andes Way  
Aurora, CO 80013-3831

## Contest #2 Distance per Frequency

Freq	Station	Location	Contester	Distance	990	CBW	Winnipeg	MB	RKB	1290	
530	RVC	North End, South Caicos	Turks & Caicos	JW	2318	1010	HJAQ	Cartagena	Columbia	PLS	2331
540	XEWA	Sab Luís Potosí	SLP	PLS	1205	1020	CM..	Habana	Cuba	PLS	1350
550	KUZZ	Bakersfield	CA	NJ	900	1030	WBZ	Boston	MA	JW	1781
560	KSFO	San Francisco	CA	DP	2397	1040	WHO	Des Moines	IA	DN	1446
570	CM..	Habana	Cuba	CK	1757	1050	XEG	Monterrey	NL	JW	1013
570	CM..	Habana	Cuba	JW	1757	1060	KYW	Philadelphia	PA	SS	1162
580	KMJ	Fresno	CA	DP	2536	1070	KNX	Los Angeles	CA	DP	2552
590	KQNT	Spokane	WA	DN	963	1080	KRLD	Dallas	TX	DN	1228
600	KROD	El Paso	TX	NJ	964	1090	KAAY	Little Rock	AR	CK	787
610	XEGS	Guasave	SIN	JW	1000	1100	WTAM	Cleveland	OH	JW	1234
620	CM..	Habana	Cuba	DB	1186	1110	KTEK	Alvin	TX	JW	909
630	CHED	Edmonton	AB	CK	1004	1120	KMOX	Saint Louis	MO	NJ	1063
640	KFI	Los Angeles	CA	DP	2571	1130	CKWX	Vancouver	BC	PLS	1518
650	HJKH	SF de Bogotá	Columbia	RKB	2167	1140	WRVA	Richmond	VA	SS	1051
660	XEEY	Aguascalientes	AGUA	RKB	1569	1150	CKOC	Hamilton	ON	SS	971
670	CM..	Habana	Cuba	PLS	1350	1160	KSL	Salt Lake City	UT	DP	2982
680	YNAM	Managua	Nicuagua	RKB	1483	1170	KFAQ	Tulsa	OK	NJ	940
690	XEMA	Fresnillo	ZAC	JW	1156	1180	CM..	Habana	Cuba	CK	1757
700	WLW	Cincinnati	OH	NJ	1307	1190	XECT	Monterrey	NL	WWH	999
710	CM..	Habana	Cuba	CK	1757	1200	WOAI	San Antonio	TX	DB	1442
720	WGN	Chicago	IL	NJ	1054	1210	WPHT	Philadelphia	PA	SS	1175
730	XEX	Mexico	DF	WWH	1446	1220	XEB	México	DF	JW	1458
740	CHWO	Toronto	ON	WWH	1312	1230	KSIX	Corpus Christi	TX	WWH	919
750	YVKS	Caracas	Venezuela	MC	2134	1240	WTAX	Springfield	IL	RKB	541
760	RCN	Barranquilla	Columbia	DB	2268	1250	KDEI	Port Arthur	TX	WWH	910
770	WABC	New York City	NY	CK	1608	1260	CFRN	Edmonton	AB	JW	1028
780	KKOH	Reno	NV	DP	2570	1270	KLXX	Bismarck-Mandan	ND	DN	1273
790	CM..	Habana	Cuba	JW	1757	1280	WODT	New Orleans	LA	CK	1092
790	CM..	Habana	Cuba	CK	1757	1290	XEAP	Ciudad Obregón	SON	JW	892
800	PJB	Aruba	Neth. Antilles	PLS	2498	1300	XEP	Ciudad Juárez	CHIH	NJ	978
810	HJCY	Bogata	Columbia	RKB	2163	1310	KMKY	Oakland	CA	DP	2401
820	CM..	Habana	Cuba	JW	1757	1320	KXYZ	Houston	TX	CK	900
820	CM..	Habana	Cuba	CK	1757	1330	KLBS	Los Banos	CA	WWH	886
830	CM..	Habana	Cuba	CK	1757	1340	KWLM	Willmar	MN	CK	606
840	WHAS	Louisville	KY	JW	1059	1350	XETB	Torreón	COAH	WWH	975
850	KOA	Denver	CO	DB	1553	1360	KFIV	Modesto	CA	WWH	882
860	HOL55	Chitre	Panama	BC	2446	1370	CFOK	Westlock	AB	CK	1055
870	WWL	New Orleans	LA	DN	1650	1380	KTKZ	Sacramento	CA	DP	2454
880	WCBS	New York	NY	PLS	1163	1390	KCRC	Enid	OK	NJ	853
890	CM..	Habana	Cuba	PLS	1350	1400	WIDA	Carolina	PR	RKB	1506
900	XEW	México	DF	JW	1457	1410	XECF	Los Mochis	SIN	JW	989
910	CM..	Habana	Cuba	RKB	846	1420	WRCG	Columbus	GA	WWH	1204
920	XECQ	Culiacán	SIN	JW	1042	1430	KLO	Ogden	UT	DN	603
930	CM..	Habana	Cuba	CK	1757	1440	KMED	Medford	OR	DN	652
940	XEQ	México	DF	BC	1864	1450	KOBE	Las Cruces	NM	NJ	935
950	CM..	Habana	Cuba	DB	1186	1460	XECB	San Luí Rio Colo.	SON	JW	740
960	CFAC	Calgary	AB	WWH	897	1470	XEHI	Cd. Miguel Alemán	TAMA	PLS	894
970	XEEZ	Caborca	SON	CK	768	1480	KHCK	Dallas	TX	CK	684
980	XEFQ	Cananea	SON	PLS	995	1490	KBUR	Burlington	IA	WWH	723

1500	KSTP	Saint Paul	MN	DN	1534	1610	CHSL	Toronto	ON	RKB	585
1510	WLAC	Nashville	TN	JW	1025	1620	WDHP	Frederiksted	VI	RKB	1585
1520	KOKC	Oklahoma City	OK	DP	3740	1630	KKGM	Fort Worth	TX	RKB	914
1530	WSAI	Cincinnati	OH	JW	1093	1640	WTNI	Biloxi	MS	WWH	1098
1540	ZNS1	Nassau	Bahamas	DB	981	1650	KCNZ	Cedar Falls	IA	DB	913
1550	KYCY	San Francisco	CA	JW	938	1660	KRZY	Waco	TX	RKB	930
1560	WPAD	Paducah	KY	CK	899	1670	WTDY	Madison	WI	JW	843
1570	XERF	Cd. Acuña	COAH	RKB	1204	1680	WDSS	Ada	MI	JW	1040
1580	KRZX	Waco	TX	CK	733	1690	WWAA	Adel	GA	PLS	729
1590	KLFE	Seattle	WA	NJ	671	1700	KQXX	Brownsville	TX	RKB	1144
1600	KATZ	Saint Louis	MO	CK	789						

## Contesters

BC	Bruce Conti	Nashua, NH	MC	Mike Clancy	Jersey City, NJ
CK	Chris Knight	Fort Lupton, CO	NJ	Nancy Johnson	Billings, MT
DB	Dave Braun	Wyoming, DE	PLS	Paul Swearingen	Topeka, KS
DN	Darrell Neft	Costa Mesa, CA	RKB	Ron Bailey	Shelby, NC
DP	Dale Park	Honolulu, HI	SS	Steve Sprague	Coffeyville, KS
JW	John Wilkins	Wheatridge, CO	WWH	Wayne Heinen	Aurora, CO

## WSMN-1590 leaves air in Nashua, NH

By Scott Brooks, Union Leader Correspondent; via Jeff Kitze

NASHUA - Nashua's longest-surviving AM radio station went silent this week.

WSMN 1590-AM, which had been broadcasting from Nashua for nearly 47 years, was finally evicted from its West Hollis Street offices this week. The station shut down with virtually no fanfare at 6 p.m. Monday, as producer Bill Piacitelli announced on air that WSMN was signing off.

Its departure leaves the Gate City without a destination for local news on the AM radio dial.

"Really, it's tragic for the people of this city that have now lost this medium as the means of communicating some very important issues," said Georgi Hippauf, host of the station's signature morning call-in show, Talkline.

The station's owners are currently entertaining several offers to buy WSMN, according to Paul Houde, a partner in WSMN Broadcasting LLC, which owns the station.

"We would hope that it would be a local group that could continue to broadcast," he said.

WSMN Broadcasting sold the land beneath the station last year to Bonnette Picard LLC, which plans to construct about 40 housing units on the 12-acre site within the next two years.

According to Houde, the property had become far more valuable than the station.

But instead of relocating WSMN's three towers, Houde said he and his partners decided to sell the station, too.

"It was time, simply," Houde said. "You have members who are getting along in years; it was time. And with the sale of the property, it was logical."

Stephen Bonnette, a partner in Bonnette Picard LLC, said WSMN was supposed to vacate the property by the time they closed on last year's land deal.

By then, however, the station was already in court with its programming operator, Red Rock Publishing, which was refusing to vacate the building. Red Rock's contract expired in November

2003, Houde said.

WSMN Broadcasting gave Red Rock owner Tom O'Brien the option of buying the station or leaving the property. O'Brien refused to do either, claiming the station owners failed to maintain the station's infrastructure.

It's a shame, O'Brien said, because he had planned to buy the station and relocate it within Nashua when he began operating WSMN in 2000.

"The station's dead because they bled the thing to death over the last so-many years," said O'Brien, whose company is based in Largo, Fla.

Houde denied O'Brien's accusations, saying, "Mr. O'Brien is entitled to his comments. Obviously we don't agree with those comments."

WSMN Broadcasting and Bonnette Picard LLC sued O'Brien in Nashua District Court to force him to leave the property. The court sided with the station, and O'Brien later lost an appeal to the state Supreme Court.

Had O'Brien left when asked, the station would have had new ownership by now, Houde said. All offers to buy the station have come in after the state Supreme Court ruling late last year, he said.

O'Brien said he plans to seek further arbitration against the station's owners.

Ed Brouder, a board member with the New Hampshire Association of Broadcasters, said he doubted that WSMN would return to the airwaves. Prospective buyers may shy away from AM radio, whose audience has largely turned to FM stations, he said.

At the same time, he said, it would be difficult to find space in Nashua on which to install the radio towers an AM station requires.

"I hate to see any local voice extinguished, because it's always harder to come back," he said.

Nashua's only remaining AM station is WSNH, which recently converted to an all-sports format when it became an ESPN affiliate. WHOB-FM, which had been broadcasting from Nashua, relocated to Hooksett last year.

# Target DX

**R. J. Edmunds**  
753 Valley Rd. wb2bjh@nrcdxas.org  
Blue Bell, PA 19422-2052

*DX'ing 'smart', with shared tips and requests by NRC members*

Welcome to another edition of Target DX. This time, the focus is auroral conditions which have been a topic of discussion on the listserv this season. Remember to send your questions or your suggestions for future topic-oriented columns to me either via the NRCDXAS listserv, by off-line email or by regular mail!

### Q- What are auroral conditions, and why should they concern me as a BCB DX'er?

A- Many of us tend to toss around this term lightly, not realizing that for many DX'ers newer to the hobby, the terms aren't self-explanatory. Many of us can recall learning about the Northern Lights ( or *Aurora Borealis* ) in grammar school science classes. These displays are caused by energy from the sun coming into contact with the earth's geomagnetic field and combining to form a number of reactions. The same condition also causes highly variable and often very localized effects on radio signals in many bands.

On the BCB, the effect is that during periods of auroral conditions, which often coincide with displays of visible aurora, certain signals on certain paths may seem to disappear. This is because instead of the signals being reflected normally by one of the skywave reflective layers, they are absorbed by other layers induced by the aurora. In the Americas, these effects are the most pronounced in the Northeastern and North Central parts of the continent, although in particularly severe conditions, the effects can be noted throughout most of the US and all of Canada ( the US Southwest is generally the least affected ).

'Normal' nighttime skywave reception is dependent on ionospheric reflection and distance between transmitter and receiver. This distance determines which paths are viable, and also what elevation angles ( if we assume a flat earth — it's much simpler that way, hi — the earth can be thought of as the base of an equilateral triangle, and the signal path from the transmitter to the reflecting point in the ionosphere would be one side, and from the same point down to the receiver would be the other side. The angle created where either side meets the base is the elevation angle ) apply to each. Fortunately, there are a finite number of reflecting layers applicable. In an aurora, a layer of absorption may appear between the reflecting point and either the transmitter, the receiver, or both. This absorption may occur on multiple potential signal paths involving multiple reflective layers, because each path may have to pass through it.

When the auroral absorbs some signals, others, which might normally be either weak or inaudible come to the top. The usual situation has signals coming from stations generally to the North being absorbed first, then, if the aurora is more severe, stations from the East or West may be affected. In the most severe conditions, some stations from the South may even be affected. But remember that only those signals which are propagated by skywave are subject to absorption. Locals or semi-locals may in fact appear stronger than usual as their groundwave signals will dominate.

Thus, many DX'ers refer to auroral conditions as meaning that Latin American and/or Southern US stations might be expected to predominate. By varying degrees, this is true. A key predictor of auroral conditions is the A-index, which measures activity in the earth's geomagnetic field.

Q- During a recent period where auroral conditions were forecast, I only noted enhanced reception at the lower end of the dial, mostly from Cuba. Northern and Midwestern stations (WBBM, WGN, WLS, WJR, CBA, CKBW, CKAC, CHNS, etc.) were still coming in with good signals. In addition, none of the usual sources have been reporting anything out of the ordinary?

A- First off, it is not all that unusual for the lower end of the band to exhibit auroral conditions, while the upper end does not. This is because auroral absorption ( as well as nighttime ionospheric [ skywave ] propagation ) is frequency-sensitive. Absorption of frequencies in the BCB occur from low to high as the MUF ( Maximum Usable Frequency ) rises thru the band as a result of geomagnetic activity. Second, however, what you were experiencing wasn't really classic auroral conditions. As you observed, neither the A nor K indices were elevated. Typically, for classic auroral conditions to occur, there either needs to be a day where the A index exceeds 50, or as many as three consecutive days where it exceeds 20, and even these numbers are not firm. What was most likely responsible is a geomagnetic substorm, which selectively and briefly ( owing to small size and duration ) disrupt normal conditions.

Finally, it should be noted that it is also not uncommon for these types of events ( and also classic aurora ) to be 'uneven'. It may be helpful to think of an area of auroral absorption as if it were a patch of fog, irregular in shape, size, and location, and all of these are in a state of constant movement. In addition, the frequency-sensitivity noted earlier will also apply. Add the fact that for any given transmitter and receiver location set, there may be multiple nighttime skip paths which are possible, and the absorption, owing to all of the above variables, may not always affect them all.

Depending upon the location of the absorptive material relative to these signal paths, none, some, all-but-one or all of the possible paths may be blocked by areas of absorption. But move either the transmitter location or receiver location as little as 50 miles and everything can change. This is one cause for situations where stations from some cities may be absorbed while other cities in the same region may not be, or only partially be absorbed. The same is true with the passage of time, because as the area of absorption moves relative to a specific stationary receiving site, different geographic groups of stations may be subjected to absorption or not. This is particularly the case with smaller storms and with substorms.

Another cause for such a phenomenon, which is also frequency-sensitive, and appears sometimes in conjunction with larger storms is sporadic e-skip, where particles form, disintegrate and re-form to create highly temporary and selective reflection of signals which would otherwise be absorbed. The name of this phenomenon is derived from the fact that these particles form at about the same altitude as the 'normal' nighttime e reflecting layer.

### Q- Can auroral conditions be observed during the daylight hours?

A. Since auroral absorption affects only signals which would otherwise propagate via skywave, and since the majority of daytime receptions occur via groundwave, auroral absorption observable by day would be extremely rare. In theory, since in midwinter some skywave is possible during the day at BCB frequencies, if the aurora is severe enough and the receiver and transmitter locations are far enough North, it should be possible.

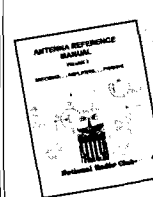
Q- Why is it that sometimes during auroral conditions some stations to the North, usually in one specific area, will be quite strong while the rest of them are either weaker or inaudible?

A- There are two possible answers to this. First, during larger auroral disturbances, various particles in the ionosphere group together at roughly the same altitude as the normal E-layer, and form 'clouds' of Sporadic-E. These areas act as a temporary, and often mobile, reflecting layer, and may even disappear only to reappear later, which accounts for the name. The phenomenon is not fully understood, but it is frequently observable. Another possibility, which again is usually only noted during severe auroral events, is a seemingly-enhanced groundwave. This is a result of the elimination of the usual signals from the Northerly directions because of the auroral absorption. By removing these normally dominant signals, sometimes groundwave signals from stations which are usually covered may become audible.

Q- Why, when conditions are extremely auroral, do I pick up not only stations to the South, but also lots of CW (code) and other noise that sounds like a dozen TV sets are running in the next room?

A- Similarly to the second part of the previous answer, often these noises are covered by the skywave signals which have been absorbed by the auroral activity. In some cases, rather than ( or in addition to ) groundwave from stations not normally heard, the result is noises which are not heard under normal conditions. Under such conditions, it is also not at all uncommon to hear numerous external mixing products or even harmonics of local stations which again would not normally be audible if it weren't for the absorption.

## NRC's Antenna Reference Manual, Vol. 3



Now available - a compilation of 17 articles on antennas, phasing impedance matching, and RF amplification for medium wave DX'ers. Some of the articles have been published in DX News between 1999 and 2004. 8 1/2" X 11" bound book format.

Member price: \$11.95 Post Paid; non-member price \$16.95 Post Paid For overseas surface mail, add \$4.00 for first copy, \$.64 for each additional copy; for airmail, add \$8.00 for each 3 or fraction of 3. Order from NRC Publications - P. O. Box 164 -

Mannsville, NY 13661. NY residents, please add sales tax.



# Graveyard Achievements

Distance records for stations logged on graveyard frequencies

**Bill Hale** w\_r\_hale@sbcglobal.net  
 6124 Roaring Springs Drive  
 North Richland Hills, TX 76180-5552



Logged from Jan 1, 1960 to Present  
 Date of Last Update: February 4, 2005

\* indicates record held by DXer from North America (excluding Alaska)  
 # indicates record held by a DXer in Alaska or Hawaii

Station	City	DXer	DX Location	Miles
WAUD	AL Auburn	Ernie Wesolowski	Omaha, NE	836
WJBB	AL Haleyville	Steve Francis	Alcoa, TN	232
WBHP	AL Huntsville	J.W. Bay, Jr.	Drexel Hill, PA	718
WHOD	AL Jackson	Niel Wolfish	Toronto, ON	957
WNUZ	AL Talladega	Steve Francis	Alcoa, TN	193
WTBC	AL Tuscaloosa	Dave Whatmough	Hamilton, ON	805
KIFW	AK Sitka	Tim Hall	Revillagigedo Channel, AK	#229
KVAK	AK Valdez	Esa Hänninen	Lemmenjoki, Finland	3453
KSUN	AZ Bisbee	Ernie Wesolowski	Omaha, NE	1022
KAAA	AZ Kingman	John Johnson	Sheridan, WY	761
KOY	AZ Phoenix	Tim Hall	Yellowstone Lake Village, WY	769
KATO	AZ Safford	Ernie Wesolowski	Omaha, NE	950
KINO	AZ Winslow	Phil Bytheway	Seattle, WA	1055
KFPW	AR Ft. Smith	Jerry Starr	Youngstown, OH	855
KBTM	AR Jonesboro	Ron Bailey	Shelby, NC	513
KGEO	CA Bakersfield	Tim Hall	US6 on UT side of NV/UT line	*375
KSZL	CA Barstow	Tim Hall	The Sea Ranch, CA	444
KIBS	CA Bishop	Nancy Johnson	Aberdeen, WA	722
KXO	CA El Centro	Tim Hall	Mammoth Lake, CA	*389
KDAC	CA Fort Bragg	Carl Dabelstein	Lihue, Hawaii	#2414
KDAC	CA Fort Bragg	Pete Taylor	Tacoma, WA	*549
KYPA	CA Los Angeles	Tim Hall	Crater Lake Rim Village, OR	651
KPRL	CA Paso Robles	Frank Merrill	Nenana, AK	#2321
KPRL	CA Paso Robles	Tim Hall	Fillmore, UT	*513
KRDG	CA Redding	Phil Bytheway	Seattle, WA	487
KWG	CA Stockton	Phil Bytheway	Seattle, WA	*669
KEXO	CO Grand Junction	Shawn Axelrod	Winnipeg, MB	921
KBRR	CO Leadville	Mike Hardester	San Marcos, CA	738
KDZA	CO Pueblo	Niel Wolfish	Winnipeg, MB	871
KDZA	CO Pueblo	Shawn Axelrod	Winnipeg, MB	(Tie) 871
KBCR	CO Steamboat Springs	Shawn Axelrod	Winnipeg, MB	846
KSTC	CO Sterling	Mike Hawk	Omaha, NE	371
KGEK	CO Sterling	Ernie Wesolowski	Omaha, NE	(Tie) 371
WINF	CT Manchester	Jeff Falconer	Clinton, ON	473
WGGG	FL Gainesville	Barry McLarnon	Ottawa, ON	1143
WONN	FL Lakeland	Don Trelford	Runaway Bay, Jamaica	728
WONN	FL Lakeland	Tim Hall	Norcross, GA	*429
WMAF	FL Madison	Steve Francis	Alcoa, TN	356
WSBB	FL New Smyrna Beach	Barry McLarnon	Ottawa, ON	1164
WZNO	FL Pensacola	Don Trelford	Runaway Bay, Jamaica	1039
WNVY	FL Pensacola	Ron Schiller	Lighthouse Point, FL	*519
WCNH	FL Quincy	Barry McLarnon	Ottawa, ON	1128
WJNO	FL West Palm Beach	UK DXpedition	Sheigra, Scotland	4121
WJNO	FL West Palm Beach	Marc DeLorenzo	Hyannis, MA	*1172

WCKJ	GA Augusta	Dave Braun	Falls Church, VA	462
WBLJ	GA Dalton	Dave Whatmough	Hamilton, ON	648
WXTI	GA Dublin	Jeff Falconer	Clinton, ON	771
WFOM	GA Marietta	J.W. Bay, Jr.	Drexel Hill, PA	657
WSOK	GA Savannah	John J. Rieger	South Milwaukee, WI	837
WAYX	GA Waycross	Harry Hayes	Thornhurst, PA	784
KBAR	ID Burley	Nancy Johnson	Aberdeen, WA	578
KORT	ID Grangeville	Esa Hänninen	Lemmonjoki, Finland	4277
KORT	ID Grangeville	Shawn Axelrod	Swan River, MB	*796
KRXX	ID Rexburg	Esa Hänninen	Lemmonjoki, Finland	4360
KRXX	ID Rexburg	Shawn Axelrod	Swan River, MB	*749
WJBC	IL Bloomington	Shawn Axelrod	Winnipeg, MB	750
WMRZ	IL Moline	Esa Hänninen	Lemmonjoki, Finland	4165
WMRZ	IL Moline	Shawn Axelrod	Winnipeg, MB	*650
WHCO	IL Sparta	Shawn Axelrod	Winnipeg, MB	879
WJOB	IN Hammond	Niel Wolfish	Winnipeg, MB	773
WSAL	IN Logansport	Niel Wolfish	Winnipeg, MB	855
WTCT	IN Tell City	Barry McLarnon	Ottawa, ON	764
WBOW	IN Terre Haute	Shawn Axelrod	Winnipeg, MB	879
KFJB	IA Marshalltown	Ron Schiller	Monmouth Beach, NJ	994
WHIR	KY Danville	Barry McLarnon	Ottawa, ON	705
WHOP	KY Hopkinsville	Jeff Falconer	Clinton, ON	562
WANO	KY Pineville	John Vervoort	The Bronx, NY	599
KLIC	LA Monroe	Frank Merrill	Milan, MI	803
WBOK	LA New Orleans	John J. Rieger	South Milwaukee, WI	902
KSLO	LA Opelousas	Carl Dabelstein	Lincoln, NE	755
WBME	ME Belfast	Don Voorhies	Oswego, NY	(Tie) 380
WBME	ME Belfast	Ron Schiller	Monmouth Beach, NJ	380
WQDY	ME Calais	Andy Rugg	Nuns Island, QC	308
WJSR	ME Madawaska	Andy Rugg	Montreal, QC	283
WITH	MD Baltimore	Steve Francis	Alcoa, TN	464
WALI	MD Cumberland	Jeff Falconer	Clinton, ON	310
WMNB	MA North Adams	Jim Renfrew	Rochester, NY	227
WNAW	MA North Adams	Barry McLarnon	Ottawa, ON	(Tie) 227
WESX	MA Salem	John Campbell	Bridestow, England	3195
WESX	MA Salem	NF DXpedition #5	Cappahayden, NF	*928
WNEB	MA Worcester	Morris Sorensen	Emsdale, ON	436
WCUZ	MI Grand Rapids	Niel Wolfish	Winnipeg, MB	716
WCUZ	MI Grand Rapids	Shawn Axelrod	Winnipeg, MB	(Tie) 716
	MI Grayling			
WIKB	MI Iron River	Les Rayburn	Helena, AL	889
WMPC	MI Lapeer	Barry McLarnon	Ottawa, ON	424
WSOO	MI Sault Ste. Marie	Morris Sorensen	Leaf Rapids, MB	955
WSTR	MI Sturgis	Joe Fela	Newark, NJ	588
WKLK	MN Cloquet	Rick Dau	Iowa City, IA	355
KGHS	MN International Falls	Ernie Wesolowski	Omaha, NE	526
KYSM	MN Mankato	Morris Sorensen	Leaf Rapids, MB	740
KMRS	MN Morris	John Wilkins	Wheat Ridge, CO	618
KTRF	MN Thief River Falls	Morris Sorensen	Leaf Rapids, MB	980
KWNO	MN Winona	John J. Rieger	South Milwaukee, WI	205
WCMA	MS Corinth	Barry McLarnon	Ottawa, ON	983
WHSY	MS Hattiesburg	Charles Reh	Leamington, ON	826
WSSO	MS Starkville	Charles Reh	Leamington, ON	683
KODE	MO Joplin	Shawn Axelrod	Winnipeg, MB	880
KLWT	MO Lebanon	John Wilkins	Wheat Ridge, CO	685
KWIX	MO Moberly	Esa Hänninen	Lemmonjoki, Finland	4336
KWIX	MO Moberly	Shawn Axelrod	Winnipeg, MB	*747
KOBB	MT Bozeman	Shawn Axelrod	Winnipeg, MB	703
KHDN	MT Hardin	Frank Merrill	Milan, MI	1213
KXLO	MT Lewistown	John Johnson	Sheridan, WY	197
KLCB	MT Libby	Nancy Johnson	Aberdeen, WA	396

KTNC	NE	Falls City	Paul Swearingen	Topeka, KS	70
KHAS	NE	Hastings	Frank Merrill	Milan, MI	771
KELY	NV	Ely	John Wilkins	Wheat Ridge, CO	522
KFUN	NV	Las Vegas	Shawn Axelrod	Valhalla Beach, MB	1370
KLBN	NV	Reno	Nancy Johnson	Aberdeen, WA	556
WMOU	NH	Berlin	Joe Kureth	Uniontown, MD	453
WTSV	NH	Claremont	Russ Edmunds	Kinnelon, NJ	196
WCMC	NJ	Wildwood	Mark Hattam	Sheigra, Scotland	3270
WCMC	NJ	Wildwood	Jeff Falconer	Clinton, ON	*473
KALG	NM	Alamogordo	Ernie Wesolowski	Omaha, NE	791
KOTS	NM	Deming	Bruce Winkelman	Tulsa, OK	721
KYVA	NM	Gallup	Tim Hall	Chula Vista, CA	509
KFUN	NM	Las Vegas	MB DXPedition &	Valhalla, MB	1120
KRSY	NM	Roswell	Frank Merrill	Macomb, IL	912
WECK	NY	Cheektowaga	Russ Edmunds	Blue Bell, PA	264224
WENY	NY	Elmira	Bill Dvorak	Madison, WI	644
WBZA	NY	Glens Falls	Morris Sorensen	Milton, ON	316
WIGS	NY	Gouverneur	J.W. Bay, Jr.	Drexel Hill, PA	303
WHUC	NY	Hudson	Jeff Falconer	Clinton, ON	405
WLFH	NY	Little Falls	Charles Reh	Leamington, ON	398
WFAS	NY	White Plains	Jeff Falconer	Clinton, ON	433
WSKY	NC	Asheville	Steve Francis	Alcoa, TN	84
WFAI	NC	Fayetteville	Jeff Falconer	Clinton, ON	608
WMFR	NC	High Point	Barry McLarnon	Ottawa, ON	687
WISP	NC	Kinston	J. W. Bay, Jr.	Drexel Hill, PA	348
WNNC	NC	Newton	Karl Jeter	Stone Mountain, GA	210
WCBT	NC	Roanoke Rapids	Shawn Axelrod	Winnipeg, MB	1337
KDIX	ND	Dickinson	Olle Alm	Abisko, Sweden	3935
KDIX	ND	Dickinson	Charles Reh	Leamington, ON	*1048
WUBE	OH	Cincinnati	Russ Edmunds	Glen Rock, NJ	564
WCOL	OH	Columbus	Shawn Axelrod	Winnipeg, MB	964
WIRO	OH	Ironton	Shawn Axelrod	Winnipeg, MB	1050
WTOL	OH	Toledo	Ernie Wesolowski	Omaha, NE	651
KADA	OK	Ada	Charles Reh	Leamington, ON	911
WBBZ	OK	Ponca City	Shawn Axelrod	Winnipeg, MB	897
KDOV	OR	Ashland	Pete Taylor	San Francisco, CA	308
KVAS	OR	Astoria	Olle Alm	Abisko, Sweden	4297
KKEE	OR	Astoria	Tim Hall	Frederick Sound-Farragut Bay, AK	*742
KKEE	OR	Astoria	Tim Hall	Chatham Sound, BC	*663
KZZR	OR	Burns	Olle Alm	Abisko, Sweden	4410
KZZR	OR	Burns	Tim Hall	Near S. Pender, Saturna Islands, BC	*410
KHSN	OR	Coos Bay	Tim Hall	The Sea Ranch, CA	*323
KRDR	OR	Gresham	Esa Hänninen	Lemmonjoki, Finland	4376
KMUZ	OR	Gresham	Tim Hall	Manning Park Resort, BC	*296
KQIK	OR	Lakeview	Esa Hänninen	Lemmonjoki, Finland	4576
KQIK	OR	Lakeview	Wayne Heinen	Colorado Springs, CO	*850
KSJK	OR	Talent	Pete Taylor	Tacoma, WA	352
OR		Toledo			
WBVP	PA	Beaver Falls	Andy Rugg	Pointe Claire, QC	461
WEEX	PA	Easton	Denis Picard	Trois-Rivieres-Ouest, QC	411
WKBO	PA	Harrisburg	Frank Merrill	Milan, MI	379
WCRO	PA	Johnstown	Andy Rugg	Montreal, QC	447
WBPZ	PA	Lock Haven	Barry McLarnon	Ottawa, ON	305
WTIV	PA	Titusville	Steve Francis	Alcoa, TN	465
WERI	RI	Westerly	Denis Picard	Trois-Rivieres-Ouest, QC	346
WAIM	SC	Anderson	Jeff Falconer	Clinton, ON	631
WXAP	SC	Columbia	Charles Reh	Leamington, ON	561
WOLS	SC	Florence	Barry McLarnon	Ottawa, ON	798
KISD	SD	Sioux Falls	John Johnson	Sheridan, WY	510
WKCE	TN	Harriman	Steve Francis	Alcoa, TN	52
WMLR	TN	Hohenwald	Ron Bailey	Shelby, NC	339

WAKI	TN	McMinnville	Russ Edmunds	Glen Rock, NJ	682
KSIX	TX	Corpus Christi	Ernie Wesolowski	Omaha, NE	932
KTJK	TX	Del Rio	Don Trelford	Runaway Bay, Jamaica	1672
KLKE	TX	Del Rio	Jim Boehm	San Antonio, TX	*148
KNUZ	TX	Houston	Frank Merrill	Milan, MI	1072
KERV	TX	Kerrville	Bob McCoy	Lincoln, NE	757
KLVT	TX	Levelland	Tim Hall	Tombstone, AZ	465
KEEZ	TX	Nacogdoches	Frank Merrill	Milan, MI	945
KOZA	TX	Odessa	Karl Jeter	Stone Mountain, GA	1066
KGRO	TX	Pampa	Ernie Wesolowski	Omaha, NE	471
KSEY	TX	Seymour	Shawn Axelrod	Winnipeg, MB	1117
KSST	TX	Sulphur Springs	Carl Dabelstein	Lincoln, NE	535
KWTTX	TX	Waco	Bruce Winkelman	Tulsa, OK	321
KMOR	UT	Murray	Shawn Axelrod	Winnipeg, MB	948
KOAL	UT	Price	Phil Bytheway	Seattle, WA	801
WJOY	VT	Burlington	Jean Burnell	St. John's, NF	1004
WABN	VA	Abingdon	Barry McLarnon	Ottawa, ON	678
WODI	VA	Brookneal	Barry McLarnon	Ottawa, ON	599
WXCF	VA	Clifton Forge	Russ Edmunds	Blue Bell, PA	292
WFVA	VA	Fredericksburg	Andy Rugg	Montreal, QC	537
WNOR	VA	Norfolk	Andy Rugg	Montreal, QC	615
WAMM	VA	Woodstock	Barry McLarnon	Ottawa, ON	472
KOZI	WA	Chelan	Tim Hall	Radium Hot Springs, BC	261
KWYZ	WA	Everett	Esa Hänninen	Lemmonjoki, Finland	4268
KWYZ	WA	Everett	Shawn Axelrod	Swan River, MB	*968
KRSS	WA	Spokane	Olle Alm	Abisko, Sweden	4114
KRSS	WA	Spokane	John Johnson	Billings, MT	*443
KREW	WA	Sunnyside	Phil Bytheway	Seattle, WA	139
WLOG	WV	Logan	Steve Francis	Alcoa, TN	182
WKYG	WV	Parkersburg	Barry McLarnon	Ottawa, ON	573
WHBY	WI	Appleton	Joe Fela	Newark, NJ	765
WCLO	WI	Janesville	Ron Schiller	Monmouth Beach	796
WXCO	WI	Wausau	Shawn Axelrod	Winnipeg, MB	480
KVOC	WY	Casper	Olle Alm	Abisko, Sweden	4258
KVOC	WY	Casper	Frank Merrill	Nanena, AK	#2228
KVOC	WY	Casper	Tim Hall	Teasdale, UT	*416
WNIK	PR	Arecibo	Ron Schiller	Monmouth Beach	1574
CBPG	AB	Banff	Tim Hall	Banff, AB	4
CJOK	AB	Fort McMurray	Esa Hänninen	Lemmonjoki, Finland	3509
CJOK	AB	Fort McMurray	Phil Bytheway	Seattle, WA	*781
CIYR	AB	Hinton	Tim Hall	Jasper, AB	42
CJLW	AB	Wainwright	Shawn Axelrod	Winnipeg, MB	630
CKQR	BC	Castlegar	Phil Bytheway	Seattle, WA	251
CKTK	BC	Kitimat	Tim Hall	Ketchikan, AK	#131
CJNL	BC	Merritt	Tim Hall	Chatham Sound, BC	*515
CFBV	BC	Smithers	Pete Taylor	San Francisco, CA	1200
CHFC	MB	Churchill	Olle Alm	Karesuando, Sweden	3093
CHFC	MB	Churchill	Shawn Axelrod	Winnipeg, MB	*641
CFLN	NF	Goose Bay	Esa Hänninen	Lemmenjoki, Finland	2799
CFGN	NF	Port-aux-Basques	Steve Whitt	Sheigra, Scotland	2295
CFGN	NF	Port-aux-Basques	Jean Burnell	St. John's, NF	*299
VOAR	NF	St. John's	Jean Burnell	St. John's, NF	4
CFBV	NT	Iqaluit	Esa Hänninen	Ristiina, Finland	2766
CKMP	ON	Midland	Tim Hall	Condermere, ON	120
CJTT	ON	New Liskeard	MB DXPedition &	Arnes, MB	812
CJLB	ON	Thunder Bay	Morris Sorensen	Leaf Rapids, MB	711
CJLP	QC	Disraeli	Don Trelford	Scarborough, ON	414
CHVD	QC	Dolbeau	Esa Hänninen	Lemmenjoki, Finland	3334
CKVD	QC	Dolbeau	Russ Edmunds	Blue Bell, PA	*620
CJSA	QC	Ste-Agathe-des-Monts	Andy Rugg	Montreal, QC	50
^KLD	QC	Thetford Mines	Charles Reh	Leamington, ON	624

20

XESCT	BCN	Ensenada	Tim Hall	Chula Vista, CA	52
XEIZ	NL	Monterrey	Jim Boehm	San Antonio, TX	289
XEEX	SI	Culiacan	Tim Hall	Chula Vista, CA	797
XETVH	TA	Villahermosa	Tim Hall	Naples, FL	909
ZBM1	BER	Hamilton	Ernie Wesolowski	Omaha, NE	1831
CMAD	CU	Artemisa	Frank Merrill	Milan, MI	1330
CMGM	CU	Jaguey Grande	Ron Schiller	Lighthouse Point, FL	267
LT2	ARG	Rosario	Pete Taylor	Poipu, HI	7522
ZYI670	BRZ	Joao Pessoa, PB	NF DXpedition #4 Team	Cappahayden, NF	3897
ZYJ816	BRZ	Sao Jose, SC	NF DXpedition #4 Team	Cappahayden, NF	5160
HJLK	CLM	Cali	LEM96	Lemmenjoki, Finland	6328
HJLK	CLM	Cali	NF DXpedition #2 Team	Cappahayden, NF	*3325
YVNT	VEN	Caucauga	Tim Hall	Crane Beach, Barbados	525
BEV58	CHN	Taichung	Pete Taylor	Hangzhou, China	426

MB DXpedition = [Shawn Axelrod, Wayne McRae]

NF DXpedition #2 Team = [Jean Burnell, Mark Connelly, Bruce Conti and Neil Kazaross]

NF DXpedition #4 Team = [Jean Burnell, David Clark, Mark Connelly, Bruce Conti, Neil Kazaross, Jim Renfrew]

NF DXpedition #5 -1996 = [Jean Burnell, Ben Dangerfield, Bruce Conti, Neil Kazaross, Dave Clark, John Fisher, Jim Renfrew]

UK DXpedition = [Steve Whitt, Mark Hattam, Clive Rooms]

LEM96 = [Mika Makelainen and Jorma Mantyla]

# Geomagnetic Summary

**Phil Bytheway** phil-bytheway@teknologic.net  
 9705 Mary NW  
 Seattle, WA 98117-2334

*High "A" values indicate possible auroral conditions*

## Geomagnetic Summary August 1 2004 through January 5, 2005

SWF - Space Weather Forecast    pca - polar cap absorption  
 maf - major flare                SWT - Space Weather today  
 mas - major storm                spe - satellite proton event  
 mis - minor storm                ss - severe storm

Tabulated from email status daily.

Date	Flux	A	K	SA	Forecast	GM
8/1	86	10	2	no storms	no storms	7
2	83	10	2	no storms	no storms	5
3	85	16	3	no storms	no storms	5
4	88	4	0	no storms	no storms	2
5	85	3	0	no storms	no storms	4
6	89	5	2	no storms	no storms	7
7	91	5	2	no storms	no storms	6
8	95	18	2	minor	no storms	4
9	105	5	2	no storms	no storms	7
10	114	11	3	no storms	no storms	7
11	121	18	4	no storms	no storms	6
12	131	14	3	no storms	minor	7
13	147	10	2	minor	minor	2
14	149	6	2	strong	minor	6
15	x	x	x	x	x	x
16	139	4	1	moderate	moderate	6
17	134	6	2	minor	moderate	6
18	135	10	2	minor	moderate	7
19	140	10	2	strong	moderate	4
20	121	5	2	minor	minor	4
21	x	x	x	x	x	x
22	120	21	2	no storms	no storms	8
23	115	17	2	no storms	no storms	6
24	110	10	2	no storms	no storms	7
25	105	8	2	no storms	no storms	4
26	100	7	2	no storms	no storms	4

27	98	8	3	no storms	no storms	4
28	91	6	2	no storms	no storms	7
29	87	13	2	no storms	no storms	5
30	86	6	2	no storms	no storms	3
8/31	90	21	3	minor	minor	10
9/1	88	29	3	moderate	no storms	9
2	90	7	1	no storms	no storms	6
3	94	8	1	no storms	no storms	5
4	97	3	1	no storms	no storms	5
5	99	1	1	no storms	no storms	4
6	105	9	3	no storms	no storms	8
7	107	12	2	no storms	no storms	6
8	119	17	2	no storms	no storms	6
9	125	10	2	no storms	no storms	4
10	131	5	2	no storms	no storms	6
11	130	5	1	no storms	no storms	3
12	116	2	1	no storms	no storms	6
13	115	3	2	minor	minor	1
14	118	7	3	minor	minor	2
15	115	22	3	moderate	minor	10
16	110	12	1	minor	no storms	7
17	108	19	2	no storms	no storms	6
18	105	20	2	minor	no storms	6
19	103	23	1	minor	no storms	4
20	105	3	1	minor	no storms	8
21	101	10	1	minor	no storms	4
22	95	9	1	no storms	minor	5
23	91	18	2	minor	no storms	9
24	90	12	2	no storms	no storms	5
25	89	6	2	no storms	no storms	6
26	90	6	1	no storms	no storms	7
27	90	x	x	x	x	x
28	90	12	3	no storms	no storms	x
29	90	x	x	x	x	x
9/30	88	x	x	x	x	x
10/1	88	3	1	no storms	no storms	3
2	88	x	x	x	x	x
3	89	x	x	x	x	x
4	89	13	2	no storms	no storms	7
5	91	10	2	no storms	no storms	7
6	x	x	x	x	x	x
7	92	4	0	no storms	no storms	8
8	94	4	1	no storms	no storms	4
9	91	4	2	no storms	no storms	3
10	88	8	3	no storms	no storms	5
11	89	7	1	no storms	no storms	7
12	87	10	2	no storms	no storms	6
13	88	10	1	no storms	no storms	5
14	87	25	3	minor	no storms	7
15	91	26	3	minor	no storms	5
16	89	7	1	no storms	no storms	6
17	92	3	0	no storms	no storms	1
18	x	x	x	x	x	x
19	96	4	1	no storms	no storms	6
20	99	6	1	no storms	no storms	3
21	111	15	2	minor	minor	5
22	112	9	2	no storms	minor	4
23	123	6	2	minor	minor	4
24	132	3	1	no storms	minor	2
25	135	8	3	minor	minor	10
26	140	13	2	no storms	minor	4
7	137	3	1	no storms	minor	3
130	2	1	no storms	no storms	4	
29	133	3	1	no storms	no storms	2
30	129	8	2	no storms	no storms	7
10/31	136	16	2	strong	moderate	5

11/ 1	139	10	2	minor	minor	4
2	136	7	2	minor	minor	5
3	133	6	2	no storms	no storms	6
4	136	8	2	moderate	minor	6
5	x	x	x	x	x	x
6	141	3	1	moderate	moderate	5
7	129	x	1	moderate	moderate	3
8	130	19	5	strong	moderate	9
9	124	120	3	extreme	moderate	9
10	141	90	7	severe	strong	9
11	105	120	5	extreme	strong	10
12	95	21	3	moderate	moderate	6
13	97	x	2	moderate	minor	9
14	96	10	2	minor	no storms	5
15	100	10	2	no storms	no storms	8
16	106	4	2	no storms	no storms	6
17	108	6	2	no storms	no storms	7
18	105	8	2	no storms	no storms	4
19	104	2	1	no storms	no storms	6
20	102	5	2	no storms	no storms	8
21	99	17	3	no storms	no storms	9
22	101	16	2	minor	no storms	6
23	106	11	2	no storms	no storms	4
24	107	4	1	no storms	no storms	7
25	x	x	x	x	x	x
26	109	15	2	minor	no storms	7
27	111	16	2	no storms	no storms	6
28	110	11	2	no storms	no storms	10
29	113	15	3	minor	no storms	8
11/30	111	17	3	no storms	no storms	6
12/ 1	x	x	x	x	x	x
2	x	x	x	x	x	x
3	106	4	2	no storms	no storms	5
4	101	4	2	minor	no storms	3
5	97	1	0	no storms	moderate	4
6	96	96	2	no storms	no storms	5
7	93	17	3	no storms	no storms	8
8	90	15	3	minor	no storms	6
9	97	11	3	no storms	no storms	7
10	87	8	1	no storms	no storms	7
11	85	8	2	no storms	no storms	9
12	90	18	9	no storms	no storms	9
13	91	29	3	minor	no storms	5
14	90	14	1	no storms	no storms	4
15	89	10	2	no storms	no storms	5
16	89	5	2	x	x	x
17	90	10	3	no storms	minor	6
18	90	17	x	x	x	x
19	91	10	2	no storms	no storms	6
20	94	5	2	no storms	no storms	5
21	94	4	3	x	x	x
22	101	10	1	minor	no storms	8
23	99	18	x	x	x	x
24	96	5	2	no storms	no storms	4
25	97	5	2	no storms	no storms	5
26	93	14	2	no storms	no storms	6
27	92	10	2	no storms	no storms	7
28	97	7	3	no storms	no storms	5
29	105	13	4	no storms	no storms	8
30	99	21	3	minor	minor	8
12/31	100	18	3	minor	minor	4
1/ 1	99	2	2	minor	minor	4
2	99	15	x	x	x	x
3	100	25	3	minor	minor	7
4	94	21	2	minor	minor	7
1/ 5	88	19	3	no storms	no storms	8

# Musings

Dave Schmidt NRCMusings@aol.com

P. O. Box 3111

Scranton, PA 18505-0111

## of the Members

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.

Here is the NRC column which, when we mention Pirates, why do I always cheer on the Phillies? When sending your items along, please keep them radio and DX related, something of general interest to our members. Almost no column this week but a couple came through via Email to make it possible. A tip of the toupee to them! Here we go:

### Paul McDonough, Natick, MA

I read with interest Bruce Conti's list of low powered unlicensed stations in the Boston area on p. 5 of the Jan. 31st *DX News*. I was born and raised in Boston so I've been tracking these stations for years. I just got confirmation that one of the stations has left the air. Allston-Brighton Free Radio went off the air around Jan. 1st. ABFR was a community AM station on 1630 kHz. It was originally on 1670 kHz, but I noted its frequency change last July. I hadn't heard it around the December holidays and became concerned. I found a connection to ABFR who said that the station had financial problems, and the equipment was sold and the rented space gone. The station had started in 2000. The station had diverse programming (in EE mostly) with music, gospel, and political segments. It was not one of the usual Haitian Creole stations so prevalent here in the Boston area. I used my car radio (Subaru), a Drake R8 and Quantum Loop from Natick, and a Sony 2010 with Quantum Loop from Dorchester to track these stations. (And thanks for the report, Paul; items like this are always of interest. It looks like they're really going to crack down on these guys!-DWS)

### Doug Beard, KF0VF - 604 7th St. - Springville, IA 52336-9612

Two muses in one season? What have I become? The new baby in the house is a 40-year-old Heathkit GR-81 3-tube 4-band regenerative receiver. Everybody with steady fingers should have one; regens are truly amazing. After tests and about ten repairs, I blew an entire Saturday evening seeing what it would do. My only complaint about this rig is low sensitivity on the low end of the broadcast band, something that is a result of Heathkit's decision to use a low-impedance primary in the antenna coil. The highlight on the broadcast band had to be logging CKPR-580 and CFCO-630. My location is five miles east of WMT-600. This thing is selective. I admit to some assistance; WMT is still operating under their STA for about 2000 watts daytime and 500 watts nights into their short tower (65.9 degrees) as the taller pair are being replaced. Per my call last week to WMT, they expect to have the new towers up and running by early spring, depending upon how accurate the groundhog was. This is strictly a replacement operation; no change in their pattern. The towers were 60 years old, and one was getting dicey. The ground fields are being replaced, too, and the fellow I spoke with believes the field strength improvement will be noticeable to their more distant listeners. About half of one of the new towers is up now. Concerning CKPR, this was the fifth time I've heard that station this season. This exceeds my loggings of them in the preceding 31 years from here. Several other DXers have reported them recently. What did they do, buy CKY's transmitter? Local KMRY-1450 is promoting itself as "HD-1450." Funny; the two times I've heard it - during the day - the IBOC was shut off. Here's a public 'thank you' to GLENN COOPER and FRANK MERRILL for their responses to my earlier muse. They are gentlemen.

### Dave Schmidt - P O Box 3111 = Scranton, PA 18505

Pirate activity has always been sort of a 'dark' issue here; not much has been reported in the last few years, but we would like to have it when available. In my travels, I've run into many people that had their own little station on the air and who are well-known in the broadcast field and engineering (including a few who were caught!). The pirates are going to continue to come and go; if they offer something that isn't available through any other means then they stand a chance of being around for a while. Back in the '70's, I knew of about 6 stations that were on the air via cable systems and doing well. These days, internet radio offers a little diversity, but that will probably be squashed out with XM radio (which I admit I listen to a lot when I'm in our office, as we have a receiver). And a lot of pirate activity is on FM nowadays, as I have heard one for years operating on 87.9 in Monticello, NY near the Raceway, playing mostly Spanish modern religious music. Keep those reports coming; always appreciated! 73

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