

DX News

Serving DX'ers since 1933



Volume 73, No. 10 - December 5, 2005 (ISSN 0737-1659)

Inside . . .

- 2 .. AM Switch
- 3 .. For Beginners
- 4 .. DDXD

- 8 .. IDXDX
- 9 .. Cuba: Tres Todopoderosos
- 11 .. GYDX Totals
- 13 .. Target DX

Station Test Calendar

KKLF	TX	1700	Dec. 4	0106-0115
WFLI	PA	560	Dec. 11	0000-0100
WNTP	PA	990	Dec. 11	0000-0100
WNAR	PA	1620	daily	0300-0304

DXN Publishing Schedule, Volume 73

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

From the Publisher ... You're holding in your hands everything that I had received for it, even 24 hours after the deadline. It would seem that Thanksgiving week is completely a wash for both DX'ing and FCC actions!

Just a reminder – we're only a few short weeks away from the deadline for DX'ers to examine the entire e-DXN.com for free. e-DXN membership is growing steadily, and we are adding features and improving the site (including adding a downloadable .pdf DXN), so if you accessed the site way back in August when we unveiled it and we're quite satisfied with what you saw, you might give it another shot. Also, if you are a DXN/DXAS subscriber and have not paid your \$5 subscription fee, please do so ASAP (send your check to Topeka, or access www.nrcdxas.org for a PayPal join), as after December 31, you'll no longer be able to access the site unless you're a paid-up member.

DX Time Machine

From the pages of DX News:

50 years ago ... from the December 3, 1955 DXN: The good news was reported that NBC would drop its all-night 7-day-per-week "Monitor" program midnight to 0800 Sunday mornings, beginning 1/1/56, liberating those network frequencies for DX'ing.

25 years ago ... from the December 8, 1980 DXN: Al Quaglieri, Albany, NY reported hearing ZP19-645 Paraguay on 11/17 at 0828.

10 years ago ... from the December 4, 1995 DXN: The NRC Ham List, edited by Fred Vobbe, listed 18 DX'ers, from Arey to Zank.

Broadcasters' Guides to DX

Four different tri-fold guides for use with reception reports explaining DX'ing, how the NRC was formed, and the importance of QSL's to DX'ers. AM editions in English (EEG), Spanish (SSG), and French (FFG); FM edition in English (FMG). 20 for U\$3.95 (\$4.50 non-members). From NRC Publications. (NY residents, please add sales tax)

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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, CRTC, and listeners

CALL LETTER CHANGES

	<u>Old Call</u>		<u>New Call</u>
1310	KOCR	MO Joplin	KZRC
1370	NEW	WA Newport	KPWL
1480	WNBX	VT Springfield	WCFR

WECK

am 1230

CPs ON THE AIR

1250	WNEM	MI Bridgeport - Program Test Authority granted to increase day and night power levels to become U4 5000/1100 along with a change in city-of-license (CoL) from Bay City.
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GRANTS TO EXISTING FACILITIES

950	WCTN	MD Potomac-Cabin John - CP granted to decrease night power to become U4 2500/39.
970	WTBF	AL Troy - CP granted for U1 5000/45.
1030	WONQ	FL Oviedo - CP granted to increase daytime power as U4 45000/1700 from adjusted coordinates of N28-40-32 W81-09-58.
1210	CKWA	AB Slave Lake - Granted to leave the AM band and move to 92.7 MHz with 5.1 kW ERP. CKWA-1210 is Slave Lake's only broadcast facility.
1300	KSET	TX Lumberton - CP granted to change CoL from Silsbee. KSET remains D1 500/0.
1450	KGFF	OK Shawnee - CP granted to lower daytime power from a new, taller tower at N35-18-08 W96-55-06. When operational, KGFF will be U1 560/1000.

APPLICATIONS FROM EXISTING FACILITIES

1230	KOZI	WA Chelan - Coordinate adjustment to N123-51-00 W120-00-20.
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AMENDMENTS TO APPLICATIONS SUBMITTED

580	WLES	VA Lawrenceville - Licensed for U1 500/51, WLES has the following pending applications: an increase in daytime power to be U5 1000/51 and an application to change CoL to Bon Air, Virginia with U1 201/27. This amendment requests U1 250/27 from Bon Air.
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APPLICATIONS FROM EXISTING FACILITIES DISMISSED

1020	KAXX	AK Eagle River - Application for U1 50000/50000. KAXX remains U2 10000/10000. [FCC lists station as silent]
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APPLICATIONS DISMISSED

560	KBLU	AZ Yuma - Licensed for U2 1000/1000, the application was to change CoL to Nellis AFB, Nevada with U2 5000/1000 at a new transmitter location.
1190	KPHN	MO Kansas City - Licensed for U2 5000/250 CH 1000, KPHN had a CP for U2 5000/250 CH 5000, which was dismissed when they applied for U2 5000/2000 CH 5000, which has also been dismissed. They still have a pending application for U2 5000/500 on file.
1350	KACE	UT Fillmore - New station never made it on the air.
1420	WRCG	GA Columbus - Application to change CoL to Bibb City, Georgia.

APPLICATIONS FOR NEW STATIONS

1230	NEW	TX Presidio - Applies for U1 620/585.
1240	NEW	NV Beatty - Applies for U1 1000/1000.
1300	NEW	MN Bemidji - Applies is for U2 2500/600.
1340	NEW	CO Steamboat Springs - Applies for U1 1000/1000.
1450	NEW	FL Lake City - Applies for U1 1000/250.
1450	NEW	MS Jackson - Applies for U1 1000/1000.

LICENSE RENEWALS GRANTED

840 KXNT NV North Las Vegas

CORRECTIONS

1280 WWPG AL Tuscaloosa - Licensed for U2 5000/500, WWPG applied to change CoL to Eutaw, Alabama with U2 7000/500 from a new 3-tower site. This amendment requests U1 7000/25 from Eutaw. [Correction to a correction from last Issue. And that's my final answer, hi]

1490 KLGR MN Redwood Falls - Applies for U1 [Correction to state in Issue 9.]

HEAR AND THAR

- Reported as having gone Silent this past week: WOWZ-1280 Appomattox, Virginia.
- Thanks to Shawn Axelrod, Wayne Heinen and Ken Onyschuk.

For Beginners

Greg Harris wdx9khy@sbcglobal.net

262 Juniper St.

Park Forest, IL 60466-1725

Shared techniques for the new and experienced DX'er

A station library

Having assembled a listening post of some sort, and hopefully having spent some time at the dials hauling in the juicy DX, it's now time to think about a station library. This is a collection of books or publications which present required information in a convenient manner to enhance our long haul listening experience. There is much information and know-how out there written in various books and magazines. One item my own library would never be without is the *NRC AM Log*. This lists known domestic AM stations, addresses, time zones, formats, etc. The various "Beginners SWL manuals" for shortwave listening usually have a good-sized section on AM DX'ing, and these can come in useful. There are a myriad of antenna books out, some for receiving antennas or amateur radio transmitting AND receiving antennas. Many of these for the 160-meter amateur band can be easily adapted for BCB DX'ing. There are a couple of good monthly magazines in print which contain good information. NRC also offers a series of fine reprints of various DXN articles (I recently obtained a stack of them ... very reasonably priced too) which may be punched with a three-hole punch and kept in a folder for easy viewing. Depending on how your listening table or desk is set up, these may be shelved just above your receiver/antenna match within easy reach, or possibly in a separate bookcase near your listening post. This is a matter of individual taste and what is convenient for you. They also can help relieve that endless stretch with the cans on waiting for that top of the hour ID!. See you next time 73.

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 AM Radio Log, 26th 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

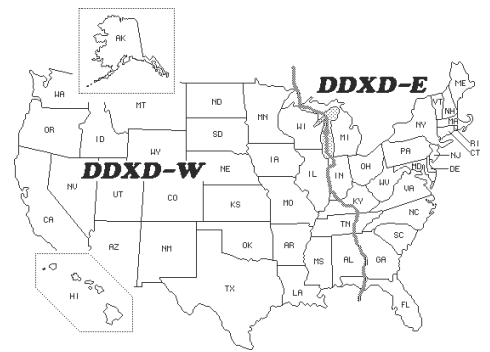
West: Bill Dvorak westlogs@aol.com

501 Algoma St. - Madison, WI 53704-4812

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

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

(Division line is
between East and
Central time zones)



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

DDXD-West

FROM THE VAST WESTLAND

- **Doug Smith** checks in this week with some loggings from a recent trip to his family's home in suburban Milwaukee. These and other fine entries can be found in this week's column.
- I hope that you are dropping enough hobby-related hints to Santa, to make sure that there are some radio treats under your tree or in your stocking this year! Of course, the best presents are those that come from your radio and end up in your logbook. Please send along news of these to your jolly old faithful Editor. 73 Bill

Reporters

- DP-HI** Dale Park, Honolulu. Sangean ATS-818CS, Terk AM1000 loop.
- DP-HI*** Dale Park, DXing in East Honolulu. Honda car radio.
- DS-WI** Doug Smith, DXing from Menomonee Falls (family trip). Barefoot YB300.
- GH-IL** Greg Harris, Park Forest. FRG100B with Quantum Loop or GE Superadio III with internal ferrite loop.
- JJR-WI** John Rieger, South Milwaukee. Icom IC-R75, Kiwa loop, MFJ-959B tuner-preamp, GE Superadio III, Terk AM 1000 loop.
- JRT- MO** John Tudenham, Joplin. Sangean ATS 505, Radio shack loop.
- JW-CO** John Wilkins, Wheat Ridge. Drake R-8, 4-foot box loop.
- KDF-IL** Karl D. Forth, Chicago. Drake R8, Sangean ATS-909, Quantum Loop.
- Ed.-WI** Your editor, Madison. Drake R8B, Quantum QX Pro loop.

Station News

- 830 KHVH HI Honolulu.** Per station reporter, this Clear Channel talk station replaced ABC Information Network newscasts from 8/1 with Fox Newsradio. I read somewhere that Clear Channel stations were dumping other newscasts in favor of Fox, which is distributed by Clear Channel's Premiere Radio Network division. ABC-I news remains on sister talk station KHBZ 990, which always aired its news seven seconds ahead of KHVH. **(DP-HI)**
- 1080 KWA I HI Honolulu.** Has replaced CNN Radio newscasts with USA Radio as of 10/31. The CNN newscasts had the old Mutual Broadcasting trip tones ("bah-dupp, bah-dupp"); this CNN feed continues on cross town KKEA 1420. (The CNN Radio newscasts on KUMU 1500 are a minute longer and don't have trip tones.) KWA I already airs USA Radio's "Daybreak USA"; USA Radio newscasts are still on KLHT 1040 weekday daytimes. **(DP-HI)**

Presumed, Tentative, UnID

NOTE TO e-DXN USERS: If you can identify or verify stations listed in this section, please post a reply to this column with the relevant information/confirmation. We now have the capability of IDing these loggings with a speed only imagined in print-only *DX News* days. (Ed.-WI)

- 610 CHNCp QC New Carlisle. 11/16 1743.** Presumed them in French. **(DS-WI)**
- 670 UNID 11/14 0525.** UnID with Country under WSCR. **(DS-WI)**
- 920 CKNXp ON Wingham. 11/18 0703.** Presume them with Canadian news under nulled local WOKY. CFRY MB also possible, occasionally heard in Madison. **(DS-WI)**
- 960 CFACT AB Calgary. 11/9 0656.** Promos for various ESPN Family shows two seconds ahead of KKEA 1420/KKON 790/KHLO 850; faded out but returned with "SportsCenter." Very poor. **(DP-HI)**
- 970 KGET CA Bakersfield. 11/7 2202.** Fox News Radio seven seconds ahead of KHVH 830, promo for "The Talk Station," ID missed. Very poor. **(DP-HI*)**

- 990 UNID 11/14 1642. UnID. With football game, "Blue Boys" vs. who? Google doesn't show up any teams by this name, maybe I heard wrong? (DS-WI) (Station is WCAZ. Carthage HS nickname is the Blueboys, or Bluegirls for the girls' teams, and the station does quite a number of HS games. Ed.-WI)
- 1030 WEBSt GA Calhoun. 11/18 2025. Tentative in WBZ null with HSFb, mentions of Yellow Jackets and Calhoun, ad for business on Route 53, Georgia and Rome scores, no ID heard. (KDF-IL)
- 1040 UNID 11/17 1733. Someone with continuous easy listening music under WHO. Faded before any announcements. (DS-WI)
- 1110 UNID 11/19 0052. Talk show way under KAOI HI, underneath or level with KDIS CA, heard "Coast to Coast AM" closing music at 0057 (repeat of yesterday's show?); missed ID and identity of newscast; "Coast to Coast AM" opening music ("Theme From 'Midnight Express'" by Giorgio Moroder) at 0107. KBND OR, or KFAB NE? Poor to very poor. (DP-HI)
- 1150 CJRCp QC Gatineau. 11/14 0548. Very good in French; presume them. (DS-WI)
- 1190 KPHNp MO Kansas City 11/14 1653. Fair with Radio Disney. (DS-WI)
- 1510 UNID 11/14 1713. Under WLAC. "America's favorite inspiration station, welcome to The Light"; black gospel (DS-WI) (Two possibilities: WPGR PA and KBED TX. Both are black gospel and both use that slogan. Ed.-WI)
- 1520 UNID 11/9 2204. SS Romantica music noted. KMPG CA? Very poor, heavy local QRM. (DP-HI*)
- 1550 KLFJp MO Springfield. 11/14 0600. With ads for Branson attractions. (DS-WI)
- Regular DX Loggings (times in ELT)
- 580 CKPR ON Thunder Bay. 11/14 0607. Local weather and call IDs. Don't recall hearing this when I lived here. (DS-WI)
- 610 WIP PA Philadelphia. 11/19 2309. Several "SportsRadio 610 WIP" IDs. Good signal, overrode KCSP for a time. (GH-IL)
- 640 KFI CA Los Angeles. 10/30 0359. ID "KFI Los Angeles, More Stimulating Talk Radio...KFI News on the Hour, On The Half Hour and When It Breaks," into news, time check of 1:01 am, traffic report, outro "KFI Is The Talk Station With The Most Frequent Traffic Reports." Fair. (DP-HI)
- 680 WWTQ TN Memphis. 11/16 1747. Quite good; multiple call IDs and mention of station phone number 535-0680. (DS-WI)
- 830 KHVH HI Honolulu. 11/14 0607. Noted off air; unID talk station and SS station (KMXE CA?) noted. Heard at 0629 retune briefly back on with carrier and some clipped audio. (DP-HI)
- 830 KOTC MO Kennett. 11/16 0700. Good, 30/9 in WCCO null, with legal ID, Fox news. (JJR-WI)
- 940 CJGX SK Yorkton. 11/18 0652. Fair; "...weekdays 6 to 10 on GX 94." Always had a good signal here, surprising given the distance. Gotta love the ground conductivity in the ND/SK/MB area. (DS-WI)
- 940 KVSH NE Valentine. 11/18 2139. Football, Valentine ads. (JRT-MO)
- 940 KIXZ TX Amarillo. 11/18 2158. Ad for Casey carpet, "NewsTalk KIXZ" ID. (Note I once worked for KIXZ, as did John Callarman. Nice to hear them again but they should have a deep null our way, usually never heard at night.) (JRT-MO)
- 1060 WLNO LA New Orleans. 11/15 1726. "...on 1060 AM WLNO", additional call IDs. (DS-WI)
- 1100 KFAX CA San Francisco. 11/6 0658. End of "Hour of Decision" (which actually runs 30 minutes) from Billy Graham Evangelistic Association; woman ID "This is KFAX AM 11 Hundred San Francisco-Oakland-San Jose, the Bay Area's..." with show preview and mention of website, SRN news. Fair to good. (DP-HI)
- 1110 WSLV TN Ardmore. 11/17 1833. Fair, alone on channel; "...brand new Trick Pony on WSLV." (DS-WI)
- 1200 CFGO ON Ottawa. 11/19 0645. Very good with "SportsRadio Team 1200" and Fox Sports programming, over anything on frequency! (JJR-WI)
- 1210 KOKK SD Huron. 11/16 0728. Poor in WPHT null. Station promo, address, C&W. (JJR-WI)
- 1210 WDAO OH Dayton. 11/18 0833. Poor; "...on AM 1210 WDAO." Heard often in Tennessee but rare in Wisconsin. (DS-WI)

- 1230 WSOO MI **Sault Sainte Marie. 11/16 2105.** Poor; end of weather, calls, ESPN. Dominating and still in 40 minutes later! Rare! (JJR-WI)
- 1230 KLAV NV **Las Vegas. 11/19 2201.** Legal ID by man, then into Arabic-language programming. Fair on peaks rising above the jumble from time to time. (JW-CO)
- 1260 WDKN TN **Dickson. 11/23 1927.** "Dickson's new home for Paul Harvey, WDKN. (JRT-MO)
- 1270 WCGC NC **Belmont. 11/20 1847.** "WCGC 1270 AM Your Christian Connection" by a male announcer. Weak to medium. QRM from WWCA in Indiana and an unID ESPN Station. (GH-IL)
- 1290 CFRW MB **Winnipeg. 11/17 0758.** Pop music; then at 0800:15 gal says "Good Morning, I'm Terry ...", CFRW news at 7:00"; brief weather was followed by the promised newscast. About 50% copy, mixing with KKAR and others before fading away at 0805. First time here, MB #14. (JW-CO)
- 1300 KOLY SD **Mobridge. 11/18 0859.** Legal ID by guy: "The greatest songs of all time, AM 1300 KOLY Mobridge, a member of the Dakota Radio Group"; ABC news was next. Good signal over KKML. (JW-CO)
- 1320 KELO SD **Sioux Falls. 11/18 0834.** Poor in mess. "Newstalk AM 1320 KELO." (DS-WI)
- 1320 KOZY MN **Grand Rapids. 11/18 0834.** Over and under KELO with multiple call mentions and station phone number 326-3446. (DS-WI)
- 1330 KLBO TX **Monahans. 11/23 1929.** Mention of Monahans football, over KNSS. (JRT-MO)
- 1380 KAGE MN **Winona. 11/15 1703.** "...weather on KG Country...." (DS-WI)
- 1380 KSRV OR **Ontario. 11/19 0201.** Oldies music; legal ID at 0202:08 "KSRV Ontario-Payette..." and into ABC news. Rough in QRM; not often heard here. (JW-CO) (If I am not mistaken, this is the only AM station in that part of OR that is in the Mountain Time Zone, as described in DDXD-W #73-5. Ed.-WI)
- 1420 KTOE MN **Mankato. 11/16 1733.** "AM 1420 KTOE." (DS-WI)
- 1420 KGIM SD **Aberdeen. 11/18 1759.** Casino ad; legal ID at 1800 by a man, "This is your new home for All-American NewsTalk, 14-20 KGIM Aberdeen," followed by network news, but not sure which network, since signal was mixing with others with network news. (JW-CO)
- 1430 WIL MO **Saint Louis. 11/18 0842.** Fair over presumed WPLN with Saint Louis real estate ad, phone number 314-781-0001. (DS-WI)
- 1510 KMSD SD **Milbank. 11/21 2016.** One or two local ads; program note "...Friday mornings...show with Hal and Jerry at 9 on Hometown Radio, 1510 KMSD." Should have been on 14 watts night power but didn't sound like it! (JW-CO)
- 1580 WWSJ MI **Saint Johns. 11/14 0607.** Call ID, black gospel. (DS-WI)
- 1700 KKLF TX **Richardson. 11/11 2303.** Fair with "Talkradio 570 KLIF" ID; new transmitter location. (KDF-IL)

DDXD-East

REPORTERS

- MKB-ON **Mike Brooker, Toronto** – Grundig YB-400PE; Panasonic RF-2200.
- SC-ON **Saul Chernos, Burnt River** – Sangean ATS909 with Radio Shack loop and 3 1000' longwires.
- GL-NY **Ginnie Lupi, Clifton Park** – DX-398 and Select-A-Tenna.
- IEN-GA **Ira Elbert New, III, Watkinsville** – Drake R8B, 135' N/S Wire.
- IEN*GA **Ira Elbert New, III, Watkinsville** – Sangean ATS 909 & Select-A-Tenna.
- IEN+GA **Ira Elbert New, III, Watkinsville** – 2002 Nissan Sentra GXE In-Dash Audio System CY310.
- BT-NB **Brent Taylor, Doaktown** – Icom R-75, Pennant & Sloper, Quantum Phaser.

STATION LOGGINGS

- 560 WFRB MD **Frostburg** - 11/18 1700 - Oldies, TOH ID into News. Decent, steady signal above the splatter from WDUN on 550 in Gainesville, GA. "WFRB, 560 Frostburg, WTBO 1450, Cumberland". (IEN-GA)
- 580 WKSK NC **West Jefferson** - 11/18 1705 - State and local news. Good, steady signal above a mix of stations. "...on WKSK". (IEN-GA)
- 630 KSLR TX **San Antonio** - 11/16 2244 - Religious programming and a spot for help with sexual addiction. Good, steady signal on top of a choppy mix of stations in the null of WMAL in Washington, D.C. "... on 630, KSLR". (IEN*GA)
- WEJL PA **Scranton** – 11/18 1617 – Scranton and area ads, weather, four IDs as "ESPN Radio 630 & 1240," one mentions "a Times-Shamrock station." New! (SC-ON)

- 670 WIEZ PA **Lewistown** – 11/18 1811 – through nulled WSCR and CFTR-680 slop with *Cara Mia* by Jay and the Americans, slogan “Legendary fun on WIEZ AM 670”, ad for Verizon wireless. **(MKB-ON)**
- 790 WSGW MI **Saginaw** – 11/16 1707 – over CIGM with ID as “WSGW news time is 5:07” into local traffic report, PSA from MIDOT (Michigan Dept. of Transportation) about re-opening of Highway M-13. **(MKB-ON)**
- 910 WJCW TN **Johnson City** – 11/17 1706 – fighting off usual pest WAVL with Auto Zone ad, “it’s 40 degrees in the Tri-Cities, here’s the WJCW news watch” into local news. **(MKB-ON)**
- 920 CJCH NS **Halifax** – 11/5 1741 – “AM nine-twenty, CJCH” into *You Don’t Bring Me Flowers*, then disappeared. **(GL-NY)**
- 950 WROL MA **Boston** – 11/20 1535 – Fair/good, in the clear with promo for the “Irish Hit Parade” on Saturdays from 10 a.m. to 7 p.m. Followed by promo for the station’s advertising department, and contact number 607-228-0880, extension 221. Then into (you guessed it) Irish music @ 1537. This frequency was always dominated by CKNB. No sign of them late this afternoon. New. **(BT-NB)**
- 1040 WHO IA **Des Moines** – “W-H-O” ID. “News and information that’s actually valuable to you.” Quoting a Scarborough study regarding radio listeners. “Welcome to the family of newsradio WHO.” “Pat Curtis in the WHO newsroom.” Good reception, with something underneath not clear enough to ID. Been a long time since I’ve heard this one. **(GL-NY)**
- 1130 WISN WI **Milwaukee** – 11/17 0829 – poking through WBBR/WDFN mix with local traffic report “for the traffic watch on news-talk 1130 WISN”. **(MKB-ON)**
- 1170 WFDL WI **Waupun** – 11/16 1732 – poking through nulled WWVA with ad for Home-town Bank in Fond du Lac, local weather. QSLed as WLKE in 1980. **(MKB-ON)**
- KJOC IA **Davenport** – 11/19 0011 – WWVA’s Roy Masters voice quiet enough to hear basketball underneath and KJOC calls. Not often heard. **(SC-ON)**
- 1230 WITH MD **Baltimore** – 11/18 2020 – “Newstalk 1230 AM WITH Baltimore” repeatedly several times, once followed by “where your opinion counts.” New! **(SC-ON)**
- 1290 WDZY VA **Colonial Heights** - 11/18 0801 - Radio Disney fare. Decent, steady signal above the morning static. “AM 1290, WDZY, Colonial Heights, Richmond”. **(IEN+GA)**
- 1320 WWWT VT **Randolph** – 11/18 1633 – “3WT and WSYB” ID. New! **(SC-ON)**
- 1330 WKTA IL **Evanston** – 11/17 1600 – creaming Erie, PA pest WFNN with top of hour EE ID “you are listening to WKTA Evanston, Northbrook, Chicago” amid Korean or Chinese programming. **(MKB-ON)**
- 1450 WATZ MI **Alpena** – 11/19 0739 – Local reference in talk. New! **(SC-ON)**
- WICY NY **Malone** – 11/19 2150 – ID includes jingle with calls, oldies. New! **(SC-ON)**
- 1480 WNBX VT **Springfield** – 11/19 0809 – over nulled pest WHBC with Beatles’ *Paperback Writer*, slogan “new oldies WNBX, taking you through the weekend with the most gold”. “New oldies” is an oxymoron, no? J **(MKB-ON)**
- 1510 WRNJ NJ **Hackettstown** – 11/18 1756 – Sprint and Budweiser ads, speedway results, then “AM fifteen-ten WRNJ” popped out. Not sure if the ads were WRNJ or someone else because reception was so poor. **(GL-NY)**
- 1570 WVTL NY **Amsterdam** – 11/22 1632 – faded up over graveyard-like mash with Goodyear ad, ID at end of local weather: “that’s a look at our weather on WVTL”. QSLed as WKOL in 1979. **(MKB-ON)**
- PRESUMED
- 1700 WJCCp FL **Miami Springs** - 11/21 0752 - Guitar and accordion music. Man and woman speaking in French/Haitian. Choice 1 Telecom ad played at 0755 in English. Good signal with slight fading and static. “Planet 17”. **(IEN+GA)**

Sunrise-Sunset Maps

Monthly maps (12) showing the average monthly sunrise/sunset times for the U. S.; customize them for your location. \$3.25 for NRC members (\$4.50, non-members). Order from NRC Publications; NY residents, add sales tax.



International

DX Digest

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

Bruce Conti nrcidxd@aol.com

46 Ridgefield Drive

Nashua, NH 03062-1174

Oh Canada! Transatlantic signals in New Brunswick, and Latin American DX in Ontario, while the rest of us were apparently fast asleep after feasting on turkey. "TAs here on basically every split," reports Brent Taylor in eastern Canada, "Spain was in well, although Morocco was the best on 1044 earlier in the evening. UK was in better than usual, and the K-index was down to a 1 again. I'm writing this as I'm parked on 1035 trying to dig out a positive ID. When I phase out 1030 WBZ I get a frying noise from something local, and when I phase out the frying noise, I get WBZ splatter." Brent did finally identify the signal on 1035 kHz. Meanwhile Barry McLarnon in Ottawa caught some equally impressive signals from the south. A few of these logs might be IDXD firsts.

Transatlantic DX

- 585 **SPAIN** RNE1 Madrid (40°28'N 03°52'W) NOV 20 2308 - Fair with woman reading news in Spanish. [Taylor-NB]
- 675 **NETHERLANDS** Arrow Classic Rock, Lopik (52°01'N 05°03'E) NOV 20 2312 - Fair, with pop music. Confirmed parallel to Internet feed at www.arrow.nl. [Taylor-NB]
- 837 **CROATIA** Hrvatski Radio 1, Gospic (44°34'N 15°24'E) NOV 20 2318 - Fair on fade-up/poor on fade-down in COPE Spain jumble, with man talking. Checked and verified as parallel 1134 Zadar. [Taylor-NB]
- 882 **UNITED KINGDOM** BBC R.Wales, Washford (51°10'N 03°21'W) NOV 20 2142 - Good to fair, with female vocal ending, and giving way to male host interviewing another man on the phone in English. Checked Internet feed and parallel confirmed. [Taylor-NB]
- 909 **UNITED KINGDOM** BBC R.5 Live synchros NOV 20 2322 - Good, with man taking callers, and giving the BBC e-mail address. [Taylor-NB]
- 1035 **PORTUGAL** R.Clube Português, Belmonte NOV 20 2340 - Poor, with pop music, news at 0000, and back to music afterwards. Several English language pop songs, including Simon and Garfunkel, Tina Turner, the Beatles, and Phil Collins tunes. I was hoping for one of the low-powered Scottish stations here, as conditions to the UK have been very good this evening, but Renato Bruni in Italy kindly spun to 1035 and confirmed that it was indeed R.Clube Português. We were both hearing "Wild World" by Cat Stevens at the same time. [Taylor-NB]

Pan-American DX

- 540 **VENEZUELA** YVOY R.Perijá, Villa del Rosario (10°21'N 72°13'W) NOV 20 0404 - Venezuelan anthem heard weakly but clearly, after noting very strong anthem from RCR Caracas on 750 kHz. Presumed, as this is the only Venezuelan listed on the channel. [McLarnon-ON] 2005 WRTH and the FCC AM Query list a second station on 540, YVUR *La Voz de Manapiare*. However R.Perijá is listed with a 0400 sign-off, which would coincide with the anthem.
- 600.045 **COLOMBIA** HJHJ R.Libertad, Barranquilla (05°56'N 74°47'W) NOV 1 0304 - Spanish talk, interspersed with several Libertad IDs, briefly over R.Rebelde Cuba and several domestics. [McLarnon-ON]
- 700 **VENEZUELA** YVMH R.Popular, Maracaibo (10°39'N 71°37'W) NOV 6 0400 - Spanish talk with mention of Maracaibo, then clear R.Popular ID and into anthem, good over semi-nulled WLW. [McLarnon-ON]
- 840 **BRAZIL** ZYH447 R.Excelsior da Bahia, Salvador (12°57'S 38°30'W) NOV 15 0000 - Time pips, musical flourish, then man in Portuguese reading a list of network affiliates, mentioning São Paulo, Parana, etc., good with WHAS nulled. Brazilian DXer Rocco Cotroneo confirmed that this was R.Excelsior da Bahia, part of a new religious network "Rede Aparecida de Evangelização," after listening to my audio clip. First Brazilian logged here! [McLarnon-ON]

Contributors

Barry McLarnon VE3JF, Ottawa ON (45°22'N 75°48'W); Icom IC-R75, homebrew -m air core loop, 40-m inverted-vee.

Brent Taylor VE1JH, Doaktown NB; R75, northeast Pennant vs. sloper with Quantum Phaser.

Progreso, Rebelde, and Reloj: The Three Todopoderosos

By Bruce Conti

Radio Progreso, *Radio Rebelde*, and *Radio Reloj* are the three omnipotent national radio networks of Cuba, “los tres todopoderosos.” Fluency in Spanish is not required to identify radio stations broadcasting any of these networks. Here’s all you need to know to identify them.

Radio Reloj is most easily recognized by the syncopated clock (similar to the sound of the WWV clock) always running in the background with ‘round the clock news, and minute markers with “RR” identification in Morse code every minute. The Morse code can cut through co-channel interference over exceptionally long distances. Time checks on the minute will include voice identification; “Radio Reloj,” beep, “once, veinte dos minutos,” RR in Morse code. On Sundays into Monday mornings the RR code might be replaced by chimes, but the exact time when chimes are used appears to be variable network-wide and between individual radio stations.

Radio stations affiliated with the other two national networks are easily identified by parallels, by receiving two or more frequencies carrying the same programming. *Radio Rebelde* will be the easiest to identify due to its shortwave parallel on 5025 kilohertz and a number of high power signals on mediumwave. For example, if you believe that *Radio Rebelde* is being received on 1180 kilohertz, check 600, 670, 710, and 5025 kilohertz for the same audio. If it matches them all or just 5025 shortwave, then you’ve definitely received Cuba. *Radio Rebelde* often identifies as, “Radio Rebelde, la emisora de la revolución,” or only as “Rebelde” with “la Habana” mentions and sometimes with a unique attention signal or sounder which you’ll quickly learn to recognize. Sometimes *Radio Rebelde* will carry programming from other networks, including *Radio Habana Cuba* and *Radio 26*, especially when covering live political or sporting events, so don’t be fooled. Always check for parallels.

Radio Progreso often identifies as, “Cadena nacional... la onda de la alegría.” Sometimes the initials RP are used in identification or slogans, such as “Noticiero RP” during news segments. Listen for the signature “onda de la alegría” identification accompanied by instrumental background music from Isao Tomita’s version of Debussy’s Arabesque No. 1, on “Snowflakes Are Dancing,” for an unequivocal positive ID. Again, it’s most important to remember, if you believe it’s Cuba, check for parallels to help with positive identification. 640, 880, and 890 kilohertz tend to be the more commonly received *Radio Progreso* outlets. Sometimes both *Radio Progreso* outlets are received on 640 kilohertz resulting in “synchro echo” due to the audio delay between stations.

The following list is provided as a quick reference for identification and chasing parallels. This list is by no means complete. These are simply the national network affiliates, plus a few of the local or regional network stations, most frequently logged by mediumwave DXers in recent years. In some cases where there is more than one station carrying the same network on the same frequency, the most powerful signal is listed first. Coordinates are approximations based upon mapping of the listed locations, and might be useful for identification of co-channel signals, or multiple signals on the same frequency, by direction-finding. There’s still much confusion as to exact call signs and locations of radio stations. Accurate information from Cuba is difficult to obtain, therefore some of the data represent a best guess. Consult the latest edition of the *World Radio TV Handbook* for what is probably the most complete list published. This list will be maintained and updated as warranted on www.e-dxn.com and ¡BAMLog!

Radio Progreso (www.radioprogreso.cu)

630	CM— Pinar del Río (22°25’N 83°43’W)
640	CMBC Guanabacoa (23°08’N 82°15’W) 50 kW
	CMDQ Las Tunas (20°57’N 76°57’W) 10 kW
660	CMHG Santa Clara (22°24’N 79°56’W)
690	CM— Jovellanos, Matanzas (22°49’N 81°10’W)
730	CMBB Nueva Gerona, Isla de la Juventud (21°53’N 82°48’W)
740	CMJL Camagüey (21°23’N 77°54’W)
750	CMHV Trinidad, Sancti Spíritus (21°48’N 79°59’W)
810	CMDW Guantánamo (20°07’N 75°13’W)
820	CMJT Morón (22°06’N 78°36’W)
880	CMAF Pinar del Río (22°25’N 83°43’W)
890	CMDZ Chambas, Ciego de Avila (22°11’N 78°54’W)
900	CMKP Cacocum - San German, Holguín (20°44’N 76°20’W)
942	Unknown location; off-frequency 940 CM— Sancti Spíritus?
1760	CMAF Pinar del Río (22°25’N 83°43’W), harmonic of 880 kHz

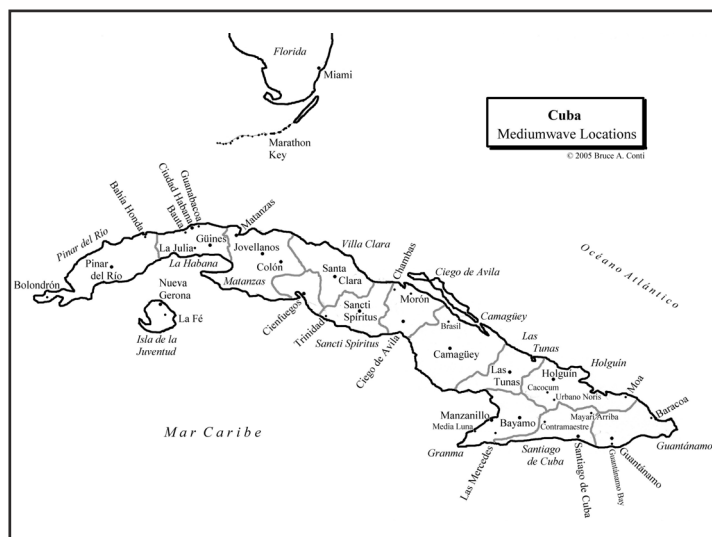
Radio Rebelde (www.radiorebelde.com.cu)

530	CM— Unknown location
540	CMHV Sancti Spíritus (21°56’N 79°26’W)
550	CMAA Pinar del Río (22°25’N 83°43’W) 30 kW

- CMDN Guantánamo (20°07'N 75°13'W) 10 kW
 CMNA Manzanillo, Granma (20°19'N 77°07'W) 1 kW
 560 CM— Moa, Holguín (20°40'N 74°56'W)
 580 CMAM Mantua, Pinar del Río (22°17'N 84°17'W) 10 kW
 CMDF Baracoa, Guantánamo (20°21'N 74°29'W) 5 kW
 600 CMKV Urbano Noris, Holguín (20°35'N 76°08'W)
 610 CMAN Bahía Honda, Pinar del Río (22°53'N 83°09'W)
 620 CMGN Colón, Matanzas (22°42'N 80°52'W) 30 kW
 CMKF Moa, Holguín (20°40'N 74°56'W) 1 kW
 650 CMDC Media Luna, Granma (20°09'N 77°26'W) 1 kW
 CMKU Santiago de Cuba (20°00'N 75°49'W) 1 kW
 670 CMQ Arroyo Arenas, Ciudad Habana (23°00'N 82°30'W)
 710 CMW La Julia, La Habana (22°47'N 82°16'W) 150 kW
 CMHQ Santa Clara (22°24'N 79°56'W) 50 kW
 CMJN Camagüey (21°23'N 77°54'W) 30 kW
 CMKJ Holguín (20°54'N 76°14'W) 10 kW
 770 CMKB Las Mercedes, Granma; reactivated? Pílon?
 1180 CMBA Villa María, Ciudad Habana (23°07'N 82°22'W)
 3000 CMKV Urbano Noris, Holguín (20°35'N 76°08'W), harmonic of 600 kHz
 3600 CMKV Urbano Noris, Holguín (20°35'N 76°08'W), harmonic of 600 kHz
 5025 CM— Bauta, La Habana (22°59'N 82°36'W)

Radio Reloj (www.radioreloj.cu)

- 570 CMDC Santa Clara (22°24'N 79°56'W)
 660 Unknown location
 670 Unknown location
 760 CMCD Las Mercedes, Granma (20°07'N 77°00'W); 20 kW, off the air?
 CM— La Habana 1 kW
 790 CMAQ Pinar del Río (22°25'N 83°43'W)
 820 CMDE Contramaestre, Santiago de Cuba (20°18'N 76°15'W)
 830 CM— Holguín (20°54'N 76°14'W)
 850 CM— Nueva Gerona, Isla de la Juventud (21°53'N 82°48'W)
 860 CMDB Baracoa (20°21'N 74°29'W)
 870 CMDT Sancti Spíritus (21°56'N 79°26'W)
 910 CMGL Bolondrón, Matanzas (22°46'N 81°27'W)
 930 CMJS Ciego de Avila (21°50'N 78°45'W) 10 kW
 CMGB La Jaiba, Matanzas 1 kW
 CMKN Santiago de Cuba (20°00'N 75°49'W) 1 kW
 940 CMKD Holguín (20°54'N 76°14'W) 10 kW
 CMGU Central España, Matanzas 10 kW
 950 CM— La Habana 10 kW
 CM— Mayarí Arriba, Santiago de Cuba (20°25'N 75°32'W) 1 kW
 960 CMDJ Guantánamo (20°07'N 75°13'W)
 1020 Unknown location; Bahía Honda or Moa?
 1180 CMOD Nueva Gerona, Isla de la Juventud (21°53'N 82°48'W)
 1270 CMHD Camagüey (21°23'N 77°54'W)
 6060 CM— Unknown location; irregular, when *R.Habana Cuba* signs off.



Local Networks

- 740 CM— *R.Angulo*, unknown location; occasional relay by CMJL *R.Progreso* Camagüey?
 840 CMHW *DobleVé*, Santa Clara (22°24'N 79°56'W)
 840 CMBQ *R.Enciclopedia*, La Fé, Isla de la Juventud (22°02'N 84°13'W)
 910 CMFA *R.Cadena Agramonte*, Camagüey (21°23'N 77°54'W)
 1050 CMKT *R.Victoria*, Las Tunas (20°57'N 76°57'W)
 1060 CMDX *Cadena CMKS*, Baracoa, Guantánamo (20°21'N 74°29'W)
 1070 CMKS *Cadena CMKS*, Guantánamo (20°07'N 75°13'W)
 1080 CMCU *R.Cadena Habana*, Güines, La Habana (22°51'N 82°01'W)
 1100 CMCH *R.Cadena Habana*, La Salud, La Habana (22°53'N 82°26'W)
 1140 CMBW *R.Cadena Habana*, La Habana
 1180 CM— *Rebelde FM*, unknown location
 1210 CMGL *R.Sancti Spíritus*, Sancti Spíritus (21°23'N 77°54'W)
 1380 CMHY *R.Cadena Agramonte*, Central Brasil, Camagüey (21°49'N 77°57'W)

Graveyard DX Totals

Bill Hale w_r_hale@sbcglobal.net

6124 Roaring Springs Drive

North Richland Hills, TX 76180-5552

Total stations logged on graveyard frequencies

Total Stations Heard on Each Channel

Date of Last Update: June 26, 2005

<u>DXer and Location(s)</u>	<u>1230</u>	<u>1240</u>	<u>1340</u>	<u>1400</u>	<u>1450</u>	<u>1490</u>	<u>Total</u>
Norm Maguire East Hartford, CT/ Albuquerque, NM	146	169	174	168	192	157	1006
Stan Morss Boxford, MA	84	114	101	102	108	98	607
Charles Reh Leamington, ON	65	78	91	70	80	86	470
Hank Holbrook Chevy Chase, MD*	28/3	64/2	79/4	53/1	68/5	53/9	345/24
Frank Wheeler Erie, PA	58	81	63	62	65	32	361
Barry McLarnon Ottawa, ON	53	60	53	57	58	59	340
Steve Francis Alcoa, TN	52	43	43	50	61	69	318
Ron Schiller Various Locations, NJ	43	44	57	31	49	66	290
Carl Dabelstein Omaha & Lincoln, NE; Overland Park, KS	45	51	54	50	55	31	286
Jeff Falconer Clinton, ON	41	42	50	50	45	42	270
Ernie Wesolowski Omaha, NE	41	49	46	45	52	19	252
Russ Edmunds Northern NJ/SE PA	37	41	35	43	41	53	251
Phil Bytheway Seattle, WA	37	38	48	42	44	34	243
Joe Kureth Uniontown, MD	35	36	40	43	37	43	234
Shawn Axelrod Winnipeg, MB	41	16	38	48	47	38	228
Ron Bailey Shelby, NC	36	36	34	34	35	39	214
Dave Whatmough Hamilton, ON	33	27	39	31	39	41	210
Don Trelford Toronto, ON (pre-1960)	39	22	37	34	38	33	203
John Wilkins Wheat Ridge, CO	29	26	23	34	33	36	181
Andy Rugg Montreal, QC	30	31	32	24	25	34	176
Karl Jeter Suburban Atlanta, GA	20	31	20	29	29	41	170
Ron Musco Hartford, CT	21	25	21	25	27	24	143
Craig Barnes Wheat Ridge, CO	21	15	29	25	26	22	138
Niel Wolfish Toronto, ON	13	26	18	22	22	35	136
John Wilkins West Des Moines, IA	23	25	26	22	16	21	133
Dave Fox Reading, PA	15	24	16	23	24	27	129
Esa Hänninen Various Locations, Finland	13	18	20	23	16	35	125
Gary Atkins Louisville, KY	21	8	29	21	18	26	123
Frank Merrill Various Locations	16	18	17	20	26	26	123
Dave Schmidt New Castle, DE	17	24	21	16	12	23	113
Marc DeLorenzo Hyannis, MA	20	19	13	16	23	20	111
Tim Hall Chula Vista, CA	20	14	22	20	19	14	109
Harry Hayes Gouldsboro, PA	15	21	17	13	21	19	106
Bill Harms Spokane Valley, WA	14	14	24	16	26	12	106
John Malicky Pittsburgh, PA	7	15	16	14	24	27	103
Mike Sanburn Bellflower, CA	14	16	18	21	18	15	102
Bob McCoy Lincoln, NE	29	20	18	19	4	10	100
Art Blair Folsom, CA	14	6	24	18	16	21	99
Brett Saylor State College, PA	21	17	19	16	1	24	98
Nancy Johnson Abedeen, WA	16	20	13	11	13	14	87
Jim Boehm San Antonio, TX	12	11	14	17	17	15	86
Joe Kureth Southern Pines, NC	13	12	13	13	17	12	80
Niel Wolfish Winnipeg, MB	11	2	10	22	19	15	79
Bill Hale WI, IL, ID, FL, TX, NY, CA, NM	15	14	12	11	12	15	79
Wayne Heinen Aurora, CO	14	16	8	15	21	23	77
Ron Schiller Avenel, NJ	14	11	13	6	10	21	75
Jim Renfrew Rochester, NY	16	10	10	12	12	13	73

12

Bruce Winkelman	Tulsa, OK	15	14	3	17	13	11	73
Mike Hardester	Various Locations	13	10	11	10	13	13	70
Fred Nordquist	Clay, NY	13	15	6	9	15	11	69
Tim Hall	US 6/50 @ NV-UT Border, UT	14	14	12	10	10	8	67
Dave Braun	Falls Church, VA	14	16	6	11	4	11	62
Wayne Heinen	Colorado Springs, CO	8	6	19	18	3	8	62
Les Rayburn	Helena, AL	14	10	12	9	10	7	62
Olle Alm	Stockholm, Härnösand, Abisko, Karesuando and Göteborg, Sweden	5	7	5	19	12	13	61
Don Trelford	Scarborough, ON	7	10	8	9	17	9	60
Pete Taylor	Worldwide	12	8	8	19	6	5	58
Tim Hall	Teasdale, UT	10	11	8	10	8	11	57
Carl Dabelstein	Tucson/Phoenix, AZ	7	9	11	9	12	7	55
Tim Hall	Mammoth Lakes, CA	12	9	8	7	10	9	55
Tim Hall	Tombstone, AZ	12	10	8	0	7	8	55
Tim Hall	Yellowstone Lake Village, WY	10	9	9	9	9	9	55
Ken Onyschuk	Steger, IL	9	7	7	10	12	9	54
Carl Dabelstein	Minneapolis, MN	11	11	8	3	11	8	52
Dave Braun	Dover, DE	4	8	8	9	10	11	50
Morris Sorensen	Winnipeg, MB	4	6	8	10	14	8	50
Tim Hall	Banff National Park, AB	10	7	9	7	6	8	47
Russ Edmunds	Syracuse, NY	12	7	7	5	6	8	46
Tim Hall	Mammoth Lake, CA	9	8	7	5	9	8	46
Wayne Heinen	Orchard Park, NY	13	10	8	2	6	5	44
Dave Yocis	South Nyack, NY	1	6	11	5	11	10	44
Tim Hall	Ajo, AZ	9	8	9	6	6	6	44
Tim Hall	Jasper, AB	10	7	8	7	8	4	44
Paul Mount	Teaneck, NJ	5	8	8	8	8	5	42
Morris Sorensen	Scarborough, ON	2	12	3	10	6	9	42
Denis Picard	Trois-Rivières-Ouest, QC	7	11	6	6	5	6	41
Tim Hall	Bandon, OR	7	4	6	9	5	9	40
Tim Hall	Monterey-Carmel, CA	10	6	8	5	6	4	39
Don Trelford	Runaway Bay, Jamaica	4	6	6	5	10	7	38
Tim Hall	Chester, CA	5	8	6	5	7	7	38
Tim Hall	The Sea Ranch, CA	11	6	6	3	6	6	38
Tim Hall	Tombstone, AZ	8	7	6	6	4	6	37
Tim Hall	Crater Lake, OR	10	7	4	6	5	5	37
Stephen Ponder	Bossier City, LA	6	5	6	6	7	7	35
J.W. Bay, Jr.	Drexel Hill, PA	35	0	0	0	0	0	35
Tim Hall	Radium Hot Springs, BC	7	4	7	6	5	5	34
Eric McIntosh	Invercargill, NZ	0	3	1	15	7	7	33
George Santulli	Cranford, MA	0	0	33	0	0	0	33
Tim Hall	Crescent City, CA	4	1	6	9	6	6	32
Morris Sorensen	Leaf Rapids and God's Narrows, MB	5	6	5	7	4	4	31
Jack Woods	Waldport, OR	4	3	7	6	3	8	31
Tim Hall	Burney, CA	4	5	4	6	6	5	30
Tim Hall	Lone Pine, CA	7	6	4	4	4	5	30
Tim Hall	Houston, TX	1	2	8	5	6	8	30
Morris Sorensen	Port Carling, ON	2	5	5	6	4	6	29
Morris Sorensen	Milton, ON	5	3	3	7	3	7	28
Russ Edmunds	Jonesport, ME	4	5	1	6	5	5	26
John Vervoort	Brooklyn, NY	6	4	2	5	5	2	24
Chris Cuomo	Verona, PA	2	4	5	3	5	2	21
Paul Mount	Nelsonville, OH	4	4	2	3	3	5	21
Paul Swearingen	Moran, KS	5	3	2	2	2	5	19
John Reed	Ponca City, OK	1	1	4	3	5	5	19
Ron Schiller	Monmouth Beach, NJ	4	3	6	3	2	1	19
Morris Sorensen	Kemptville, ON	2	4	2	2	5	3	18
John Tudenham	Joplin, MO	7	2	2	4	1	1	17
David B. Jones	Springfield, TN	3	5	3	2	2	2	17

Les Carpenter	Sandy, UT	2	1	0	2	5	5	13	15
Pete Taylor	Tacoma, WA	2	1	1	4	3	4	15	15
Morris Sorensen	Amaranth, MB	3	5	3	1	1	2	15	15
Rick Turner	Bemidji, MN	1	3	1	2	1	3	11	11
Shawn Axelrod	Orlando, FL	1	2	1	4	1	1	10	10
Doug Smith	Madison, WI	2	1	3	2	2	0	10	10
Perry Crabill	Winchester, VA	2	2	1	1	2	2	10	10
Ron Schiller	Lighthouse Point, FL	2	1	4	2	1	0	10	10
Shawn Axelrod	Edmonton, AB	1	0	1	1	1	1	5	5
Ron Schiller	Newark, DE	0	0	0	0	1	4	5	5
Dale Park	Irvine, CA	1	1	1	1	1	0	4	4
Dale Park	Various Locations, HI	0	1	0	1	1	0	3	3
Michael Plumb	Papillion, NE	0	1	1	1	0	0	3	3
Ron Schiller	Dallas, TX	0	0	1	0	1	1	3	3
Shawn Axelrod	Swan River, MB	0	2	0	0	0	0	2	2

* Totals are for Before/ After 1960

- Unreported

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

Target DX

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Blue Bell, PA 19422-2052

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

Welcome to the final edition of Target DX! This column will be devoted to spurious signals, which is often a problem for many of us living near multiple strong locals.

Q – I’ve had some problems lately with spurious signals. I’ve wasted too much precious DX time listening to something only to discover it’s a spur from one or more of my locals. I know you’ve discussed this before, but is there an easy way to predict where all of the possible spurs might show up on the dial for a given location ?

A – Indeed there is! First it helps to understand what the most likely types are, and then you can use some simple math to determine where you might encounter them. First is an image involving the receiver’s IF stage. Assuming a standard 455 kHz. IF frequency, this type of spur typically appears at either 910 kHz. above or below the station’s primary frequency. Second would be spurs located at a frequency which is the sum of the two contributing stations’ frequencies (600 kHz. + 700 kHz. = a 1300 kHz. spur). Conversely, there are also difference spurs (1300 kHz. – 700 kHz. = a 600 kHz. spur).

A bit more complex are the sum-and-difference spurs. These come in two types usually in relation to the frequencies of the locals involved. Let’s suppose stations on 800 kHz. and 900 kHz. The difference between the two is 100 kHz. Thus, with this type of spur, one might find a mixing spur of these two stations on both 700 and 1000 kHz. Finally, there is an averaging spur where the spur appears halfway between the two frequencies – with stations on 1300 and 700 kHz. the average would be 1000 kHz.

Using computer spreadsheet software, you can create a simple program that will calculate these for you. I’ll illustrate one here which permits you to enter any two frequencies for selected local stations and calculate all of the possible appearances within the broadcast band of spurs involving these two stations, either in terms of images of each or mixes of the two. The frequencies input can be changed for different groupings of stations. Once you’ve created one, you can either re-use it and make a table later or copy it multiple times to account for all of the possible pairs. This is fine unless you are in a major metropolitan area where you might have 20 or so locals all close enough and powerful enough at your location to cause spurs.

In no case will all of the possibilities be within the broadcast band. In many, the averaging spur will appear on a ‘split’ frequency. The cell to the right of each label contains the mathematical formula, entered in the proper format for the software used to yield each type of spur. The ability to blank values outside the broadcast band is accomplished using conditional selection criteria (in this case ‘value not between 530 and 1700’) and formatting those cells to use the color ‘white’ for the text. The

formula remains, and if you highlight the cell, you'll then see the out-of-band frequency. I did this in Microsoft Excel, but it can also be done in Lotus 1-2-3 or other similar software.

The spreadsheet I created to do this follows:

SPUR CALCULATOR

***Enter higher frequency as 'A'	Averaging Spur	1425
Enter Frequency A → 1540	Image A - Up	2450
Enter Frequency B → 1310	Image A - Down	630
Sum Spur 2850	Image B - Up	2220
Difference Spur 230	Image B - Down	400
Diff Lower Spur 1080		
Diff Higher Spur 1770		

***Blanks indicate values outside BCB

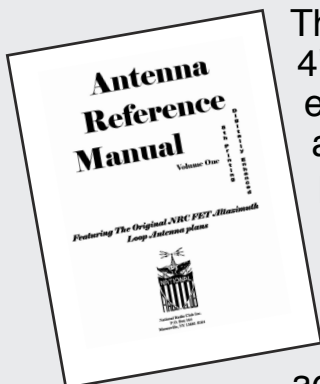
If you have multiple stations and want to do multiple calculations in one spreadsheet, you might want to try copying the contents of the cells to the right of each label except for "Frequency A", and the two "Image A" columns across enough rows to meet your needs. Enter the remaining frequencies across the row for "Frequency B". This will yield a spreadsheet which would cover all of the possible combinations involving in any way the station whose frequency is entered into "Frequency A". To make one single spreadsheet file, it would probably be best to copy this array onto separate 'pages' within a single file to cover whatever number of scenarios you want.

Hopefully this method will be of as much help to others as it has been for me!

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

Antenna Reference Manual Volume 1

8th Printing Digitally Enhanced and Updated for 2005!

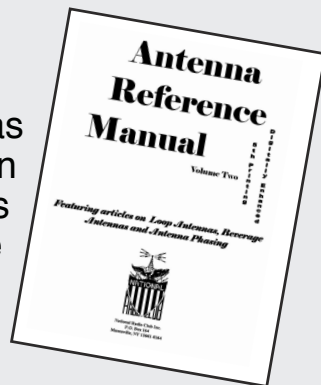


This book completely-revised book features the plans for the original NRC 4' FET Altazimuth loop antenna. Completely revamped with digitally enhanced drawings and updated material sources, it also contains other articles on the subject of antennas for medium wave DX'ers, most originally published between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

Antenna Reference Manual Volume 2

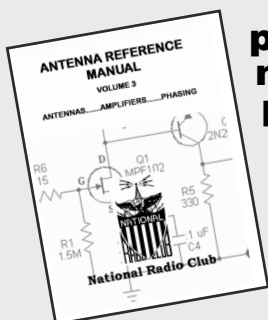
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New! IRCA Mexican Log, 10th Edition, Winter 2005

The 10th Edition of the IRCA Mexican Log lists all AM stations in Mexico by frequency, including call letters, state, city, day/night power, slogans, schedule in UTC/GMT, formats, networks and notes. The call letter index gives call, frequency, city and state. The city index (listed by state, then city) includes frequency, call and day/night power. The transmitter site index (listed by state, then city) tabulates the latitude and longitude of transmitter sites). This is an indispensable reference for anyone who hears Mexican radio stations. Size is 8 1/2" x 11" and three hole punched for easy binding. Prices: NRC/IRCA members - \$9.50 (US/Canada/Mexico/seamail), \$12.00 (rest of the Americas, Europe/Asia airmail), \$12.50 (Australia/New Zealand airmail). Non-members: add \$2.00 to the above prices.

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IRCA Bookstore - 9705 Mary Ave. NW - Seattle, WA 98117-2334 or use PayPal to <<fokker_d8@yahoo.com>>; add \$.50 for PayPal service charges.

A DX'ER'S TECHNICAL GUIDE

The fourth edition of A DXer's Technical Guide is now available from the IRCA Bookstore. In its nearly 200 pages you will learn about the principles underlying the design of successful receivers, antennas and receiving accessories, find reviews of the best commercially available DXing equipment in different price ranges, as well as detailed instructions for building one's own antennas and other DXing aids. Although it focuses on the technical backdrop to medium wave DXing, it will also be of interest to serious shortwave listeners and low band radio amateurs. The price to NRC/IRCA members is U\$15.00; the non-NRC/IRCA member price is U\$17.50 ... \$20.50 to the rest of the Americas/Europe; \$21.50, Australia/New Zealand/Japan, seamail. Non-NRC/IRCA members, please add \$2.50. Order your copy today, in US funds payable to Phil Bytheway, from

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ALL RADIO Vol 2 is now available from NRC's Publication Center. This two-cassette tape set features the following: George Gimarc and Pat Reeder talk about their book, "Hollywood Hi-Fi!", (March 6, 1997) and play examples of songs that just don't cut it. How many of you

remember KLIF-1190 in Dallas, Texas? Steve Eberhardt, owner of <historyofklif.com> tells us why this station was an icon of radio, due in part to Gordon McLendon, radio programming innovator and sportscaster. Following Steve is NRC member Ben Dangerfield talking about what it was like to DX during World War II. Bob Savage, owner of WYSL, worked at stations like WIBG, WKBW, and CLKW; Bob talks about his career and radio. Finally, the business meetings from the 2003 convention in Dallas and 2004 convention in Rochester NY are featured. This two-cassette package comes in a dual cassette case, @ \$6.00 post paid US (1st class mail). Other areas of the world, and persons requiring special delivery, contact the Pub Center at 315-387-3583, crazyken@tcenet.net, or P.O. Box 164 - Mannsville NY 13661 USA. Order Item ART-2. U.S.A Price \$5.00; Canada \$7.00; Overseas \$9.00. Order from NRC Publications - Box 164 - Mannsville, NY 13661. NY residents, please add sales tax.