

January 8, 2005 - Volume 42, Number 16 - Edition 1338 - ISSN 899-9733

EIC Notes

This issue, IRCA welcomes **Chris Gay** – report often – pb.

The **2005 IRCA/DecalcoMania** convention will be held on Thu. Aug. 25 through Sat. Aug 27, 2005 at the Days Inn, 1111 S. Harbor blvd. Anaheim CA 92805 (1 block North of Disneyland) www.the.daysin.com/anaheim04986. Phone number for reservations is 714-533-8830 (request the special \$49 room rate.) Registration fee (not including banquet) is \$25 payable to Mike Sanburn, PO Box 1256 Bellflower CA 90707-1256 - mikesanburn@hotmail.com. Activities will include station tours, business meeting, auction, and banquet -view menu at www.jagerhaus.net. Should have lots of stickers and airchecks. Looking forward to seeing everybody.

NOTICE OF UPCOMING ELECTIONS

Ray Bauernhuber - Election Committee Chairman

From December 1, 2004 thru January 15, 2005 nominations are open for the next two-year terms for President, Secretary-Treasurer, and the seven (7) members of the Board of Directors. Only one nomination each for President, Secretary-Treasurer, and only seven (7) nominations for the Board of Directors shall be allowed each IRCA member. An eligible member may nominate him/herself. All nominations must be submitted in written form (letter or e-mail) to the Election Committee Chairman (ECC) by January 15, 2005.

Please direct all nominations to:

Ray Bauernhuber
151-64 18th Avenue
Whitestone, NY 11357-3102
e-mail: DXRADIO@webtv.net

DX Tests – *Les Rayburn* – les@highnoonfilm.com

Daily	0255-0305	1220	WRIB	Providence RI	(Healy)
12/15/04+	0915-1445	1620	WB3XNN	Milford PA	(Schmidt)
* 1/ 8/05	0000-0200	990	WXCT	Southington CT	(Barnes)
* 1/ 8/05	0200-0330	560	WFIL	Philadelphia PA	(Tetro)
1/24/05	0200-0600	1530	KFBK	Sacramento CA	(IRCA)

With apologies, I made several critical errors to the last DX Test update concerning the upcoming tests for WFIL and WXCT. Both tests will occur on late Friday night/Early Saturday morning on January 8th, 2005. Please read the correct information below. Thanks to Bill Dvorak and Saul Chernos for catching this error.

Special thanks to Dave Schmidt, Kent Winrich, Rene Tetro, Ron Barnes, and Ross Duclair for these tests! They should insure a Happy New Year for lots of DX'ers.

73 and Good DX, **Les Rayburn**, N1LF, **IRCA CPC Chairman**

WRIB 1220kHz Providence RI TEST. Daily, from 2:55am-3:05am EST - WRIB-1220 - Providence, RI. Craig Healy reports that the long running DX test at WRIB 1220 in Providence, RI continues to run daily from 02:55AM EST until 03:05AM EST. WRIB automatically switches to daytime power and pattern (1KW ND) during the top of the hour.

Reception reports (with return postage) may be sent to:

Craig Healy, NG1U
WRIB
200 Water St.
East Providence, RI 02914

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OR

WWW: <http://www.wrib.com>
(Arranged by **Craig Healy**, NG1U and AM-DX.COM.)

WB3XNN 1620kHz Milford, PA TEST. Date(s): About December 15th thru end of January. Time: Non-Critical Hours 09:15AM EST until 14:45PM EST. Modes of Operation: 1KW Daytime Non-Directional. Programming: Un-Modulated Carrier with ID's at TOH.

Test is being conducted by Digital Radio Engineering for field intensity experiments concerning area ground conductivity. A full DX Test will be conducted (hopefully at night) before the competition of measurements in January.

Below is the full text received from Dave Schmidt:

WB3XNN - 1620 kilohertz should be on the air about December 15th. This station licensed to Milford, PA is being operated for field intensity measurements of the ground conductivity in the area. This will be operating during non critical hours (approx. 0915 til 1445) with an unmodulated carrier, ID's given on the hour. Power will be 1000 watts into a 50 foot top loaded single tower. (For those in to tower currents, that adds up to 8.8 amps at 14 ohms!) Tests should continue through the end of January.

Reports can be sent to Dave Schmidt c/o: Digital Radio Engineering, 2927 US Route 6, Slate Hill, NY 10973

As of 12/30/04, I have not received any reports of this station being on the air. If you receive this test, please e-mail me directly at: les@highnoonfilm.com.

ANOTHER DUAL STATION TEST NIGHT-MARK YOUR CALENDARS

WXCT 990kHz Southington, CT TEST. Date: January 8, 2005 (Saturday Morning.) Time: 00:00AM EST to 02:00AM EST (2 Hour Test.) Modes of Operation: 00:00-00:30 Full day power 2.5kw and pattern. 00:30-01:00 1kw Non-Directional. 01:00-01:30 80 Watts Directional Night Pattern. 01:30-02:00 Off air to allow locals to DX 990kHz. Programming: Mixture of Morse Code ID's, unique test tones, voice announcements and "most notably, you will hear music never heard before and probably never again on the radio!"

This special test is being conducted Mr. Ron Barnes, the Chief Engineer. The test schedule makes it obvious that Mr. Barnes is very interested in seeing how the station performs over the entire test. If you can, try to observe how the signal changes strength as the power is reduced and include that information in your reports.

Any reception reports should be sent to:

ATTN: Ron Barnes CE
WXCT AM 990
440 Old Turnpike Road
Plantsville, CT 06479

Information about this test comes from a posting by Mr. Barnes to the "Radio-Info DX Web Board" and several e-mails exchanged with Mr. Barnes and noted DX'ers. I suggest that DX'ers check the board directly in the days leading up to the event for any last minute changes: <http://www.radio-info.com/mods/posts?Board=dx>.

Despite comments in some printed DX Publications about this test schedule being less than reliable, I consider it to be 100%. Tune and don't miss this chance to add another station from CT to the logs.

WFIL 560kHz Philadelphia, PA TEST. Date: January 8, 2005 (Saturday Morning.) Time: 02:00-03:30 EST. Modes of Operation: 02:01 - 02:30 5KW Daytime Directional Pattern. 02:31 - 03:00 2.5KW Non-Directional. 03:00 - 03:30 Off Air to allow DXers in our region of the country to DX other stations on 560 kHz. Programming: Morse IDs, Voice IDs, Tones, Marching Band Music - Stars and Stripes Forever, Washington Post March, Liberty Bell March (the old Monty Python Theme)

Reception Reports should be sent to Rene Tetro by email at rtetro@pobox.com or by snail mail at:

Rene' Tetro,
Chief Engineer
WNTP-WFIL
117 Ridge Pike
Lafayette Hill, PA 19444-1901

Mr. Tetro will be sending out newly designed QSL Cards for each station with a special label/stamp on the reverse side noting the special DX Test to those who respond.

KFBK 1530kHz Sacramento, CA TEST. Date: January 23, 2005 (Late Sunday night into Monday morning.) Time: 23:00PM PST-03:00 PST (4 Hours ID's ONLY Test.) Modes of Operation: 50KW Night Time Directional Pattern. Programming: :60 and :30 Morse Code and Phonetic Voice ID's Only during program breaks.

This special test is being conducted by Ross du Clair, Ph.D., - WA6VWY, who is the Chief Engineer for "News Talk 1530" and other Clear Channel stations. Due to programming commitments, test will be limited to commercial breaks only during regular programming. ID's will consist of both Morse Code at 10WPM, 1000hz and phonetic voice announcements...such as:

"This is Kilo Foxtrot Bravo Kilo".

Reception reports should again be submitted via e-mail directly to Mr. du Clair at: Duclair, Ross: rossduclair@clearchannel.com.

WESTERN DX ROUNDUP

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

E-mail: NancyJohnson@prodigy.net

WDXR DEADLINES: Each Friday. Please use Eastern Time.

REPORTERS FOR THIS ISSUE:

- (BB) **Bill Block**-7716 E. Thelma Dr.-Prescott Valley, AZ 86314 billwblock@msn.com
R-390A, HQ-140-XA, FRG-7, 150, 100 and 55 foot long wires
- (GH) **Glen Hansen**-1925 Tualatin St.-St. Helens, OR 97051 skinner@columbia-center.org
Drake R8B, Hammarlund SP-600, Hallicrafters SX-100, various wires, amplified Sanserino & Radio Shack loops
- *****
- 770 KKOB NM, Albuquerque 12/20 2330 fighting it out with KTTH? but mostly on top with talk programming. (GH-OR)
- 930 KTKN AK, Ketchikan 12/17 0050 barely up over a strong CJCA for ID then back down abruptly. Not heard in over 2 years. Drake with Sanserino loop. (GH-OR)
- 1340 KLKI WA, Anacortes 12/15 0005 man gave ID and played NOS type Christmas music, barely atop the pack with weak signal. (GH-OR)
- 1370 KAST OR, Astoria 12/15 0100 man said "KAST Astoria, Warrenton, Long Beach" into ABC news. No KXTL whatsoever, strong for a moment or two, then very weak. (GH-OR)
- 1460 KCKX OR, Stayton 12/16 0050 man gave ID and played C&W in a two way battle with KUTI. Haven't heard this one for a while. Drake with RS loop. (GH-OR)
- 1500 KSTP MN, St. Paul 12/19 2330 man gave ID in heavy KGA splatter but excellent signal otherwise. Once a rarity, is now a semi-regular. SP-600 on N-S wire. (GH-OR)
- 1550 KKJY NM, Albuquerque 12/31 1733 with ID "KJY" and then into ABC news, fair signal and on top of KUAZ. (BB-AZ)
- 1630 KKWY WY, Fox Farm 12/18 0030 old C&W type music with ID and very weak signal all by itself in the static. R-390A on N-S wire. (GH-OR)

Thanks to Glen and Bill for our WDXR this week. Nancy 12/31 2100

CENTRAL DX ROUNDUP

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

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

RIDING GAIN

- [EB-MO] **Eric Bueneman**, Hazelwood, MO N0UIHEric@aol.com
GE Superadio III, Grundig S350, Realistic TM-152, Worcester Space Magnet 2.
- [NJ-MT] **Nancy Johnson**, Billings, MT NancyJohnson@Prodigy.net
Drake R8B, Kiwa loop.
- [JJR-WI] **John J. Rieger**, South Milwaukee, WI JohnJRieger@WebTV.net
Drake R8, Icom IC-R75, Icom IC-T70, Kenwood R1000, Yaesu FRG100, Kiwa loop, 100' longwire, Terk AM 1000 Loop, MF J959B, GE Superadio III.

DOWN THE DIAL

- 580 WCHS WV, Charleston. 12-27 poor. 18:57 with ID, local spots, sports talk. [JJR-WI]
WGAC GA, Augusta. 12-28 poor, alone. 06:53 with ID, weather and traffic. [JJR-WI]
- 600 CKAT ON, North Bay. 12-27 poor in WMT null. 18:42 with spots, weather, jingle. [JJR-WI]
- 620 KMNS IA, Sioux City. 12-27 good over CKRM. 03:04 with ABC News, PSA, local spot, "News talk 6-20 KMNS" slogan into Coast-to-Coast AM program. [EB-MO]
- 650 CKOM SK, Saskatoon. 12-27. 22:06 with ID and "News talk radio 6-50" slogans. [NJ-MT]
WSM TN, Nashville. 12-27 fair with KGAB nulled. Only in for about 10 minutes. Very rare here. 22:10 with country music, "6-50 WSM" ID. [NJ-MT]
- 660 KCRO NE, Omaha. 12-31 very poor with WFAN nulled. 08:00 with legal ID. New. [JJR-WI]

- 690 KGGF KS, Coffeyville. 12-30 poor, alone. 07:36 with spots, farm report, ID. [JJR-WI]
KOAQ NE, Terrytown. 12-27 poor. 07:55 with dual KOAQ KBFZ ID out of spots. Oldies format. [JJR-WI]
- 730 CKDM MB, Dauphin. 12-27 good in XEX null. 02:59 with oldies, contest promo, local spots, "The Heartland's best music, 7-30 CKDM" slogan. [EB-MO]
- 800 KXIC IA, Iowa City. 12-24 fair to poor mixing with others in CKLW null. 05:00 legal ID. [EB-MO]
WDEH TN, Sweetwater. 12-24 fair to poor signal mixing with others in CKLW null. 05:03 with ID in promo. [EB-MO]
WVAL MN, Sauk Rapids. 12-27 good to poor over other stations in CKLW nulled. 01:57 with Classic Country, legal ID into CBS News. [EB-MO]
- 910 KLCN AR, Blytheville. 12-23 fair to poor mix with KVIS. 21:29 with "9-10 AM KLCN" slogan and Christmas music. [EB-MO]
WLTP OH, Marietta. 12-24 good to poor through KLCN in KVIS null. 01:58 with promo, PSA, ABC News, "Talk radio 9-10 WLTP" slogan. [EB-MO]
- 930 CJCA AB, Edmonton. 1-1 good. 03:09 with "The New 9-30 CJCA." [NJ-MT]
KLUP TX, Terrell Hills. 12-24 fair to poor signal under WTAD and WSFZ. 01:38 with Christmas music. [EB-MO]
- 950 WORD SC, Spartanburg. 12-24 fair to poor signal mixing with WWJ and KKFN. 04:05 with weather, "News radio 13-30 and 9-50 WORD" slogan. [EB-MO]
- 980 WAKV MI, Otsego. 12-28 fair with WONE and WCUB nulled. 07:59 with legal ID and news. [JJR-WI]
- 1010 WIOI OH, New Boston. 12-29 poor in CFRB null. 06:49 with "10-10 AM WIOI" and NOS format. New, was on my most wanted list. [JJR-WI]
- 1030 WEBS GA, Calhoun. 12-24 good to fair signal over WBZ and others. 06:26 with "Oldies 10-30" slogan. Noted they gave a phone number ending in 1110 during promo, their old frequency. Local spots. [EB-MO]
- 1070 KFTI KS, Wichita. 12-24 good to fair signal mixing with other stations. 04:12 with "10-70 AM The Ram" slogan. KS State basketball promo. [EB-MO]
- 1100 WCGA GA, Woodbine. 12-27 good to poor in WTAM null. 06:45 with USA Radio Sports, spots, Daybreak USA, ID into USA Radio Network News at 07:00. My 900th station logged from this location. [EB-MO]
- 1110 WGNZ OH, Fairborn. 12-29 poor signal in KFAB null. 07:50 with "W-G-N-Z" ID said slowly over music. [JJR-WI]
- 1120 WUST DC, Washington. 12-30 very poor. 07:15 with "From the Maryland shores... WUST Washington D.C." into instrumental SSB. Tried for this for past four mornings and finally heard an ID. New logging, # 2100. [JJR-WI]
- 1150 CKOC ON, Hamilton. 12-23 good in both mono and stereo over others. 21:55 with local spots, "10 in a row Oldies 11-50" slogan. [EB-MO]
KASM MN, Albany. Tentative. 12-29 poor over others. 07:40 with local Minnesota spots. No calls heard. [JJR-WI]
- 1230 WECK NY, Cheektowaga. 12-25 poor. 23:22 with "The songs you listen for. AM 12-30 WECK." NOS format. New logging for me. [JJR-WI]
- 1240 WCBY MI, Cheboygan. 12-28 poor, popped out of nowhere. 06:00 with legal ID. [JJR-WI]
WSDR IL, Sterling. 12-31 poor in mess. 06:00 with legal ID into CBS News. [JJR-WI]
- 1270 WCGC NC, Belmont. 12-26 poor, alone. 07:31 ID between religious programs. [JJR-WI]
WLIK TN, 12-25 fair, strong, alone. 17:41 with ID, spots. [JJR-WI]
- 1280 WWTC MN, Minneapolis. 12-26 fair to poor signal mixing with WNAM in WGBF null. 03:34 with local spot that mentioned Area Code 952, PSA, talk. [EB-MO]
- 1340 KSID NE, Sidney. 12-31 good over others. 19:58 with sports, ID "You're listening to today's hot country station. The new AM 13-40 KSID, Sidney, Nebraska" into ABC News. [NJ-MT]
- 1350 KCAR TX, Clarksville. 12-24 good to poor signal mixing with KRNT and others. 02:46 with "The greatest country hits are on AM 13-50 KCAR." [EB-MO]
WRWH GA, Cleveland. 12-24 good to fair signal mixing with KRNT and others. 6:19 with "Your hometown station, AM 13-50 WRWH" slogan into Ag news. [EB-MO]
- WTOU OH, Akron. 12-25 good signal briefly over KRNT. 02:02 with "Northeast Ohio's Fox Sports Radio, Fox Sports 13-50" slogan into local spots. [EB-MO]
- 1360 WZPQ AL, Jasper. 12-24 fair to poor mixing with WTAQ, WMOB, WCKY. 03:30 noted with country music and ID. [EB-MO]
- 1370 KWRT MO, Boonville. 12-31 poor in fade up. 07:13 with "Classic Country AM 13-70 KWRT" [JJR-WI]
KWTL ND, Grand Forks. 12-25. 18:00 with EWTN, ID into religious program. [NJ-MT]
- 1400 WGIL IL, Galesburg. 12-29 very poor, but clear in WRJN null. 07:30 with ID. [JJR-WI]
- 1430 WION MI, Iona. 12-30 poor with WXNT, WRTH. 08:00 with clear "14-30 WION." [JJR-WI]
- 1450 WMOH OH, Hamilton. Tentative. 12-30 poor, in and out. 05:45 with "ESPN Radio 14-50 The Ticket" slogan. Assume this was WMOH. [JJR-WI]

1490 KOSR NE, Omaha. 12-24 fair to poor with others. 05:00 with legal ID into National Sports Report from Fox Sports Radio. [EB-MO]
 WNDV IN, South Bend. 12-30 poor but clear. 05:18 with "U-93" in New Year Eve countdown promo. [JJR-WI]
 1570 KOSZ SD, Vermillion. 12-26 fair to poor signal mixing with WTRB through WBGZ's open carrier. 03:58 with ESPN promos, "ESPN Radio 15-70 The Ticket" slogan. [EB-MO]
 1600 WWRL NY, New York. 12-27 poor, but clear with others nulled. 17:52 with ID and web site information. [JJR-WI]

25 YEARS AGO

January 5, 1980 issue of IRCA's "DX Monitor" ... **Pat Martin** of Seaside, OR received veries from 7FG 1161, 7SH 1584, JOGB 873, and JOIC 1035 ... **Mike Hardester** of NAS Miramar, CA said he will leave the Navy in August after 8 years of service ... **Bob Lazar** of Madison, WI said he graduated after four and a half years of college and is looking for a job.

OPEN MIKE

John Rieger also reports that many Saskatchewan stations were coming in well the morning of the 28th. No new loggings, just re-logs of CKOM CKJH CHAB and CKBI. He said he has re-logged CKBI 4 times this year. John reached his goal of 2100 stations heard by the end of the year hearing WUST. Congratulations! And, congratulations out to **Eric Bueneman** on his 900th logging! Eric hopes to reach 1000 by mid-2006. Just in case you didn't know, a Cessna 182 crashed into the KFI 640 tower the morning of December 19th. The 760' tower that had survived earthquakes and one other private plane hit came down. The guy wires had just been replaced last March after 47 years of use. They were using their 5kW auxiliary site within an hour of being off the air. KFI's signal into Billings was weaker and easily nulled. Only other station noted was a Cuban. 2005 is here! Nancy and I hope you have a Happy New Year. This column was typed 1-1-05. 73, John

EASTERN DX ROUNDUP

Lee J. Freshwater – 414 SE 3rd St. – Ocala, FL 34471

E-mail: lfreshwater@cox.net

Deadlines: Every Saturday @ 0800

STARS OF THE WEEK

(LF-FL)	your editor	Ocala, FL Drake R-8B, KIWA Loop, Potomic FIM-41, MFJ Phasor, LF ENG Active ant, MFJ 616 audio enhancer, OMT Auto Logging Software, Vox Pro E-2 editing software
(WM-MD)	William McGuire	2412 59th Place, Cheverly MD DX-398
(RW-KY)	R.C. WATTS	4109 Graf Dr., Louisville., KY 40220 CC Radio, RS Loop
(IEN-GA)	Ira Elbert New	Watkinsville, Ga AIWA CSD-FD89
(RCE-IN)	Rick Evans	I/7416 Hearthstone Way Indianapolis IN 46227-7923

LOGGINGS

560	ON	CFOS	Owen Sound 12/16 1655 Weather; Xmas mx; ID.	(WM-MD)
570	OH	WKBN	Youngstown 12/27 2255 "Savage Nation" poor to fair sig.	(RCW-KY)
590	IL	KFNS	Wood River 12/20 2110 "Fans 590", New.	(WM-MD)
610	ON	CKTB	St. Catherines 12/20 2000 Local ads; promo; ID.	(WM-MD)
	OH	WTVN	Columbus 12/26 2345 Bengals/Giants football fair to good.	(RCW-KY)
	OH	WTVN	Columbus 12/27 1710 "NewsRadio 610; ID; local ads.	(WM-MD)
	VA	WTFX	Winchester 12/27 1720 Ments of UVA; Vir/Fresno FB.	(WM-MD)
790	PA	WPIC	Sharon 12/21 2100 ID.	(WM-MD)
900	ON	CHML	Hamilton 12/29 1745 Canada's Business Report into wx @ 1745 Canda's Business Report returned @ wx. Decent, steady signal.	(IEN-GA)
920	AR	KARN	Little Rock 12/25 0005 Christmas music. Decent signal. "Happy Holidays from Newsradio 920, KARN".	(IEN-GA)
940	QE	CINW	Montreal 12/28 1841 Canadian news and information. Ad for for Montreal's light rock, Q92. Traffic, airport information and weather the 1's. Steady signal of decent strength "Montreal's official traffic station, 940 News".	(IEN-GA)
	TN	WECO	Wartburg 12/21 1721 ID; New.	(WM-MD)
990	AL	WEIS	Center 12/23 1806-09 decent with news, obits, into C&W.	(RCE-IN)
	VA	WWWR	Roanoke 12/16 1800 ID; "3-W-R."	(WM-MD)

1010	NY	WINS	New York 12/28 1845 New York Lottery ad into sports. Weak signal buried in the mix. "1010, WINS".	(IEN-GA)
	ON	CFRB	Toronto 12/27 1747 ID.	(WM-MD)
	ON	CFRB	Toronto 12/28 2300 News at 2300. Traffic and wx at TOH and then information about the Tsunami in southeast Asia. Good signal on top of a few others. "We've got you covered 24/7, Newstalk 1010, CFRB.	(IEN-GA)
1080	GA	WFTD	Marietta 12/27 1600 Banda/Mexicana Music. Good signal with slight static. "WFTD, AM 1080, Marietta, La Ley".	(IEN-GA)
1130	MI	WDFN	Detroit 12/27 1650 "Sports Radio 1130" ; ID.	(WM-MD)
1150	DE	WDEL	Wilmington 12/19 0005 Promo & ID hrd.	(WM-MD)
	NC	WGBR	Goldsboro 12/20 "WGBR News Time" hrd in mess.	(WM-MD)
	TN	WCRK	Morristown 12/27 1605 Local weather forecast into oldie. Steady signal buried in the mix. "1150, WCRK."	(IEN-GA)
	SC	WSNW	Seneca 12/27 1610 NOS. Weak signal buried in the mix. "Celebrate the Good Life with WSNW".	(IEN-GA)
1160	IL	WYLL	Chicago 12/27 1825 The Walsh Forum discussing the top stories of 2004 related to religion. Good signal on top of a few others. "The Walsh Forum on AM 1160, WYLL".	(IEN-GA)
1210	AL	WQLS	Ozark 12/23 1817 poor w/ID and gospel music.	(RCE-IN)
1230	AL	WAUD	Auburn 12/24 0400 TOH ID out of the mush "Home of ESPM, Total Sports Talk Radio WAUD Auburn into ABC News.	(LF-FL)
	PA	WBVP	Beaver Falls 12/18 1800 ID hrd in mess.	(WM-MD)
1270	GA	WJJC	Commerce 12/18 1806 fair with spot for local car dealer.	(RCE-IN)
	PA	WLBR	Lebanon 12/18 1815-1822 fair with talk show with juror from the Scott Peterson trial.	(RCE-IN)
	MD	WCBC	Cumberland 12/18 1745 Local ads.	(WM-MD)
1280	PA	WJST	New Castle 12/20 2315-2330 fair with oldies, local spots.	(RCE-IN)
1300	MS	WOAD	Jackson 12/18 1840 fair slipping past local WTLC-1310.	(RCE-IN)
1330	WV	WETZ	New Martinsville 12/16 1920 Local ad.	(WM-MD)
1360	AR	KLYR	Clarksville 12/22 2310 ID as KLYR-92.7. Apparently forgot to pull the plug at sunset.	(RCE-IN)
1370	FL	WCOA	Pensacola 12/30 2050-2100 talk show poor under WDEF-TN carrying Holiday Bowl.	(RCE-IN)
1380	KY	WMJR	Winchester 12/18 2015-2100 fair with EWTN for # 500.	(RCE-IN)
	WV	WMTD	Hinton 12/16 2250 Local mention of WV on 94.1.	(WM-MD)
1540	IA	KXEL	Waterloo 12/16 2035 "New Talk 1540; ID.	(WM-MD)
1560	OH	WTNS	Coshocton 12/21 1603-1605 fair with area news.	(RCE-IN)
1570	KY	WKKS	Vanceburg 12/21 1600 poor u/WHBC with ID.	(RCE-IN)

I hope everyone had a GREAT Holiday. I echo Nancy and Johns comments RE: typos and neatness... I actually had one report this week WITHOUT call signs. I cannot take time to look up and verify each entry, so I do the BEST I can with what I am given. FRESH 1/01 1100

DX WORLDWIDE – WEST / TROPICAL BAND DX

Patrick Martin – P.O. Box 843 – Seaside OR 97138

E-mail: mwdxer@webtv.net all times UTC

PAN-AMERICAN DX ROUNDUP

1330 **MEXICO**, Monclovia, Coah XEWQ "La Suer Estacion" and "W-Q" IDs in SS with variety XE pops from 0800-0835 UTC 12/29. Listed at 250w at night. I am pleased with this one! Low power XEs are rare in the NW these days. I even sent a taped report to them. I'll keep my fingers crossed. New for me. (PM-OR)
 1570 **UNID** 12/13 0809 UTC, SS up briefly with waltz-time oompah mx, poor. Could be CA (KCVR or KTGE), but I hrd the Caribbean here, so XERF is possible. (5P-HI) (Dale, XERF gets out very well dominating on the Eastern bev most nights. They are now 100 KW. PM)

THANKS TO THESE REPORTERS

5P-HI - **DALE PARK**, PO Box 10640, Honolulu HI 96816 DXFool@aol.com
 DXing with Sangean ATS-818CS, Terk AM1000 loop
 PM-OR - **PATRICK MARTIN**, PO Box 843, Seaside OR 97138-0843 mwdxer@webtv.net
 DXing with Drake R8, 1500' Eastern beverage, EWE antenna.



DX FORUM

Richard C. Evans – 7416 Hearthstone Wy – Indianapolis IN 46227-7923

E-mail: REvans5435@aol.com

DEADLINES: Sundays

Deadline for the Anniversary issue will be March 12, 2005. You can report early for it, but please mark it as being for the anniversary issue. Thanks. Early reports will be appreciated.

Gary Larsen, 2806 Lincoln, Burbank, California 91594

(postmarked 12/20, received 12/27, delayed probably due to some snow—rce.) On 12/19 in the morning, a plane was approaching an airport in Orange County and hit the KFI tower in LaMirada. The tower fell over and the plane crashed killing two on board. 640 was off for awhile, then returned using a standby tower, shorter than the 700 plus foot tower that fell. I noted in passing, in the morning they were off, but no idea why. Later at nite, at home, on a new Sony portable CD-cassette radio combo, I got 630 KIDD weak. Will try for 1060 KTNS test on 12/22. 73.

Murray Lycan, #301 - 9633 Manchester Drive, Burnaby, British Columbia V3N 4Y9

Ve7ha@arrl.net

In the week beginning Feb. 7, I will begin my stay in Niue in the South Pacific. I will be in Niue for 8 weeks from that date. This remote independent country is about 95 sq. miles in size (little larger than area of Seattle) and is located 335 mi SE of Samoa, 230 miles E of Tonga and 1440 miles NE of New Zealand. I will be taking with me a Kenwood Ham station including a Steppir BiggIR 25 foot tall remotely tunable vertical antenna that has continuous coverage from 6.9 to 54 MHz. Besides being useful for the Ham bands, the antenna should work well for SWL bands within its frequency range. I will also be taking a Quantum QX Pro. As time allows, I will be exploring what can be heard/worked from this fairly remote and, I hope, electrically quiet coral rock in the Pacific. I will also be accessing my email almost everyday. If anybody has anything in particular they would like me to listen for, please let me know. This will be quite an experience being on the other side of the radio waves. As far as I know, Niue itself has only a couple of FM stations and a TV station; no AM or SW. I have my WRTH and Passport 2005 books already packed. Regards, Murray Lycan VE7HA

Richard Evans, 7416 Hearthstone Way, Indianapolis, Indiana 46227-7923

Not much DX between the two holidays. Just too busy at sunset. Sunday. We tied the record high temp for the day at 58 degrees so I haven't had much luck today either. With the passing of the beginning of winter, now the stations will be signing on and off during the dark in the first part of the month with daylight catching up with them around the middle of the month. It's the opposite of the autumn so things can still get interesting. Last new station of 2004 was WAXO-1220 TN for number 512. First new one of 2005 was WBPA-1460 KY followed by WRJC-1270 WI. Now at 514 heard. I heard 335 new stations in 2004. Right now, I don't see that happening in 2005 unless we have an extreme amount of northern lights, hi. 73.

WEBSITE WANDERINGS

Raymond Bauernhuber – 151-64 18th Ave – Whitestone NY 11357-3102

E-mail: DXRADIO@Webtv.net

Hi everyone, HAPPY NEW YEAR and welcome to another website column. If anyone comes across a radio related website please forward it to me at: DXRADIO@webtv.net. I will be most grateful.

Don't forget to access and enjoy IRCA's own excellent website at: <http://www.ircaonline.org/irca1.htm>.

With this issue I offer a site featuring 'Art Deco Radios'. Lot's of eye candy here for Bakelite and Catalin radios plus information about the resins used to create these plastic cabinets and other information as well. Find it at: <http://www.decoradios.com/>.

Until the next column I wish everyone good health and the very best of DX!
73 de DX de NY, Ray

Talk you can trust!
**AM 970
KCFO**

IRCA TECHNICAL COLUMN

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

E-mail: nhp@ieee.org

A Dummies' Guide to Working with Wall Warts

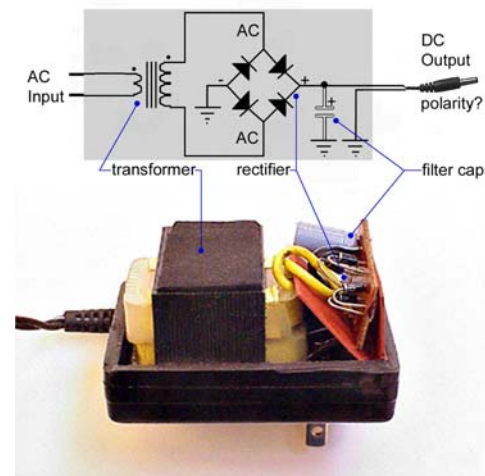
John H. Bryant, with Bill Bowers

December 2004

I've often been frustrated by my lack of understanding of the simplest electronic device that any of us possess: the ubiquitous "wall wart" plug-in power supply. I must confess that when I have co-authored technical articles in the past, the emphasis is very much on the "co." In such projects, I generally perform as scribe, editor, graphic artist and all-around cheerleader, while relying on my partner to supply the essential technical expertise and applied creativity. Thus, when faced with a continuing need for small external power supplies of specific voltage or RF cleanliness, I have been at the mercy of the rather insanely high prices charged for such things at Radio Shack or other electronic parts outlets; all the while, I was accumulating a whole drawer full of spare wall warts, orphaned from various long-forgotten consumer and hobby devices.

In case you aren't familiar with the slang term "wall wart," that refers to the seemingly solid block brick that plugs into the AC mains electrical wall outlet and provides DC power to various consumer devices from cell phones through medium-sized radios to many computer peripherals. Typically, a good consumer-grade wall wart contains a transformer to reduce normal mains voltage to the range needed by the device to be powered. Once the mains AC power is lowered in voltage, it is run

Typical "Wall Wart"



through a solid-state "bridge" (four diodes) or "full-wave" (two diodes) rectifier to be converted to DC. This is usually followed by a single filter capacitor. The power is then piped out through twin wires of appropriate size to carry the current at the designed power level. It is my understanding that some very inexpensive wall warts do not contain even rudimentary filter capacitors. Avoid these, if possible.

Being rather desperate for some small power supplies about a year ago, I finally worked up the courage to admit my ignorance about such things to long-time friend Bill Bowers. I asked him to develop some notes for me, so that I could create both adjustable and fixed voltage DC power supplies from my drawer of wall warts. This was about like asking a NASCAR driver to give you tips on parallel parking, but Bill kindly complied. In the last few months, I've loaned copies of these notes to several hobbyist friends, some of whom are technically astute and others, dummies like me. Both sets of folks have found Bill's notes very useful, so I am encouraged to share them more widely. What follows are Bill's notes, data and circuit diagrams (redrawn by me) along with my running commentary.

Cautions

At its simplest, there are three possible outcomes to a project like this and two of them are BAD. When energized, there is some 120 volt AC (or more) electricity wandering around in what you are working on... Be careful, or you might fry yourself... or at least knock your heart out of rhythm. I hate it when that happens. BE CAREFUL!

A second bad outcome is the possibility of frying the device that you are hoping to power with your newly modified wall wart. DC current has a positive and a negative leg and it is very easy to get them reversed (reversed polarity.) Often, this will literally fry the device that you hope to power. I take a very direct approach to checking for proper polarity at the end of one of these wall wart projects: I keep an unmodified wall wart around and I check its polarity first, using a small cheap analog voltmeter. I pay close attention to which meter probe, red or black, that I use on the inner and outer parts of the DC connector and I note which direction the meter pointer swings. I then repeat the same test on my newly modified wall wart. That approach may seem both simple-minded and paranoid, but I've made too many sad mistakes to do otherwise. BE CAREFUL!

The third possible outcome of one of these simple projects is VERY GOOD: you create a voltage-regulated, RF-clean, fixed or adjustable voltage DC power supply for about \$5.00 worth of parts and less than an hour of easy work. BE JOYOUS!

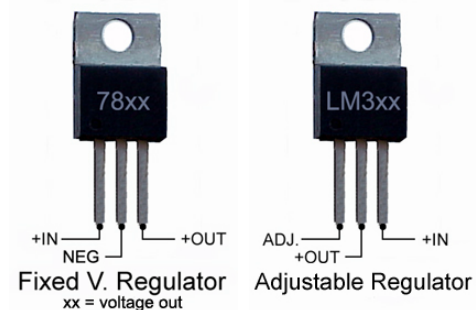
Discussion

Most wall warts are manufactured to power a single small solid-state electronic device and are usually designed to supply DC power. This article focuses entirely on wall warts that supply DC. Unless the wall wart happens to be one of those few that also provide voltage regulation, the DC voltage measured at the DC tip of the device can be between 15 and 20 VDC, *when there is no load on the wall wart*. As load is applied to the circuit, the voltage drops proportionally. Thus, if a wall wart is rated at 12 VDC and 500 mA, the voltage will be significantly above 12 VDC when the supply is powering a device that only uses 200 or 300 milliamps of current. Similarly, the voltage will drop well below the specified 12 volts if *more* than 500 milliamps of current is needed by the device to be powered.

Cheap wall warts have a second weakness of concern to us: although they usually have a single filter capacitor inside the case, they are still somewhat dirty devices from an RF point of view and can produce all sorts of buzzing and other artifacts at the frequencies on which we normally DX. Most often, this is caused by "ripple" in the DC current created by the rectifier... Ripple is a less than smooth, steady value for the voltage and/or current produced when plotted over time. It may be thought of and measured as vestigial AC current downstream from the rectifier and is often a cause of serious noise in RF-related circuits. Unless you are interested in DXing your new power supply and QSLing yourself, adding filter capacitors to your Wall Wart project is very worthwhile.

So, since we usually want to power an auxiliary device at a steady specified voltage and since we usually need a very clean power supply, what I wanted Bill's help on was in creating a filtered, regulated power DC supply. We accomplished this by adding a module between the wall wart and its DC output plug that contained a fixed or adjustable voltage regulator¹ and a network of filter capacitors.

Voltage Regulators



Bill recommended using two families of small integrated circuit voltage regulators for our more common applications: the 78xx family of fixed voltage regulators and the LM3xx family of adjustable regulators. Both of these families are popular in commercial and hobby applications and are manufactured in great numbers; hence, they are all quite commonly available and *very low cost*. A grid of reference information for each family which follows:



Fixed Regulators

Type	I _{max} amps	V _{out} Volts	Package	All Electronics P/N cost	Mouser P/N cost
7805T	1.0A	+5*	TO-220	7805T @ \$0.50	511-L7805CV \$0.40
7808T	1.0A	+8*	TO-220	7808T @ \$0.50	511-L7808CV \$0.40
7809T	1.0A	+9*	TO-220	Not Available	511-L7809CV \$0.40
7812T	1.0A	+12*	TO-220	7812T @ \$0.50	511-L7812CV \$0.40
7815T	1.0A	+15*	TO-220	7815T @ \$0.50	511-L7815CV \$0.40

*Voltage IN must exceed voltage OUT by at least 3 volts under design load



¹ It is possible to create a *current*-regulated power supply, as well. However, since these are only rarely needed in hobby applications, they will be ignored here. Bill and I used a current regulator to drive an opto-resistor for a remote controlled termination (RCT) for an antenna, recently. That regulated power supply will be covered in a forthcoming article related to RCT antennas.

Adjustable Regulators

Type	I _{max} Amps	DC _{out} V _{range}	Package	Mouser P/N cost	Jameco P/N cost	All Electronics P/N cost
LM317LZ	0.1A	1.2→37*	TO-92	511- LM317LZ @ \$0.28	23552CA @ \$0.23	LM317LZ @ \$0.40
LM317T	1.5A	1.2→37*	TO-220	511- LM317T @ \$0.56	23579CA @ \$0.45	LM317T @ \$0.50
LM338T	5.0A	1.2→32*	TO-220		192284CA @ \$1.99	
LM350T	3.0A	1.2→32*	TO-220		23940CA @ \$1.09	LM350T @ \$3.50

*Voltage IN must exceed voltage OUT by at least 3 volts under design load

Filtering

Most electronic devices have some kind of filtering, usually accomplished with multiple capacitors, to remove 60 and 120 cycle ripples from the DC electrical current powering them. Most wall warts do contain filtering, but it is usually far less than adequate for our purposes, either because the device that the wall wart was designed to power did not require filtered power or because the majority of the filtering for the original device was done inside the device itself.

In these kinds of circuits, it is good practice to place filter capacitors both before and after the regulator. Bill suggests using 470µf electrolytic caps that are rated at 50 volts for this application. These are commonly used in computers and many other low voltage circuits and are often "almost free" when bought in bulk. In Bill's two suggested circuits, these are twinned (paralleled) with .1µ caps and, in critical RF circuits, they are followed by a .001µ cap, as well. If possible, Bill also recommends placing a small (.1µ or .01µ) capacitor between the positive bus and ground, just inside the box of the device to be powered. This will ground any stray RF that might be picked up by the DC lead running from the regulator circuit to the circuit to be powered.

When I was building the first of my circuits, I found that the only small 50 volt electrolytics in my junk box were 100 µf units, far smaller than the suggested 470 µf caps. I talked to Bill and he felt that the 100µf units would likely suffice. They did, in that particular application. However, I now routinely use the suggested 470µf caps for general applications. As I understand it, there is almost no such thing as too much filtering.

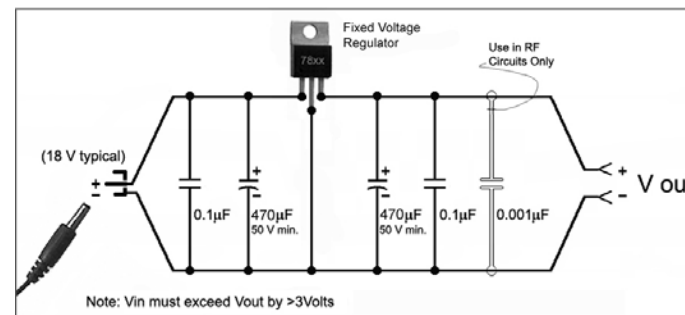
For R2, I prefer to use a small screw-adjustable trimmer resistor by Bourne. This particular design is screw-adjustable from the top and, as with all Bourne pots, is veerily smooth. From Mouser, the part number is 652-3296Y-1-502 and the price in December 2004 was \$2.00.

Some hobbyists may feel that the filtering network suggested in both of the above circuits is a bit excessive. For some applications, that is undoubtedly true. However, given the critical nature of some of our circuits and the disastrous affects that 60/120 cycle buzz can have on weak signal DXing, I tend to err on the conservative side. After all, the component costs of this design are literally pennies apiece, so more filtering is generally better.

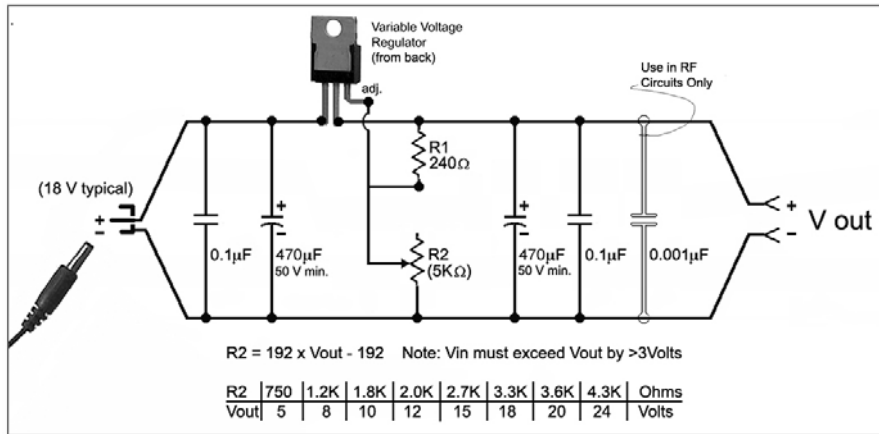
Selecting an Appropriate Wall Wart

The primary concern in selecting a wall wart of an appropriate size is to make sure that it will supply power at least 3 volts DC in excess of the desired final controlled voltage, when the circuit is running at the designed load. This "3 volts in excess" comes from the basic needs of the voltage regulator itself.

Circuit for Fixed Voltage



Circuit for Adjustable Voltage



Thus, if you desire a 12 volt regulated supply, one way to go is to use a 15 VDC wall wart rated at least as large as your design load in milliamperes. However, 15 VDC wall warts are relatively rare and we often need 12 VDC power supplies. The other design strategy is to take advantage of the unregulated nature of wall warts. Remember that a wall wart rated at 12 VDC and 500 mA will actually supply just less than 20 VDC at a very low load... and the voltage will *decrease* steadily as the load is *increased* until it hits 12 VDC at 500 mA. So, if you need a regulated 12 VDC at 200 mA, a wall wart which is rated 12 VDC at 500 mA would likely supply *at least* the requisite 15 volts to your new regulator at the 200 mA load level. You can get a better approximation by working the appropriate proportional equation. In this case, it would be:

$$\frac{.5 \text{ Amp}}{12 \text{ VDC}} = \frac{15 \text{ VDC (req'd voltage)}}{X \text{ Amp}} \quad \text{or} \quad \frac{.5 \text{ Amp}}{12 \text{ VDC}} = \frac{15 \text{ VDC}}{.36 \text{ Amp}}$$

This rough proportion indicates that the wall wart will supply about 360 mA as it reaches our minimum design voltage of 15 VDC. Since we need only 200 mA in this application, the voltage coming in to our circuit module will be well above 15 VDC and our regulator should work great.

About half of the wall warts that we opened to examine had "bridge" rectifiers using four diodes. The other half of the units used the slightly dirtier, less desirable "full wave" two diode rectifier circuit. From the exterior, there is no way to tell which is which. Bill's suggested filter capacitor network is designed to provide good filtering for either type rectifier, so that's one thing that I don't worry about.

Some published diagrams of wall warts show a fuse in the circuit. None of the units that we cut open had fuses. If your application requires a fuse, you'd better incorporate it in the same box with the regulator and capacitors.

Testing and Use

Bill ran a series of measurements on two wall warts to demonstrate the effects of the new regulation/filtering module. Both sets of measurements used a variable voltage module that I assembled from Bill's second schematic. That particular module is also the one used in the photo illustrations at the end of this article. Two wall warts were tested. Each wall wart was tested from 0 mA to its rated current capacity. The output voltage, VDC, and ripple voltage, VAC, were measured with a Fluke-45 Dual Display Voltmeter. The "Regulated" values were obtained using the new filter/regulator circuit.

WW # 1

12 VDC / 300 ma / Bridge rectifier circuit / 2000 uf filter condenser

I	Unregulated		Regulated	
	VDC	VAC	VDC	VAC
0	17.3	0.5	9.1	0.5
50	15.4	45	9.0	0.5
100	14.6	84	9.0	0.5
150	13.9	121	9.0	0.5
200	13.4	151	9.0	0.5
250	13.2	191	9.0	0.5
300	12.6	229	9.0	0.5

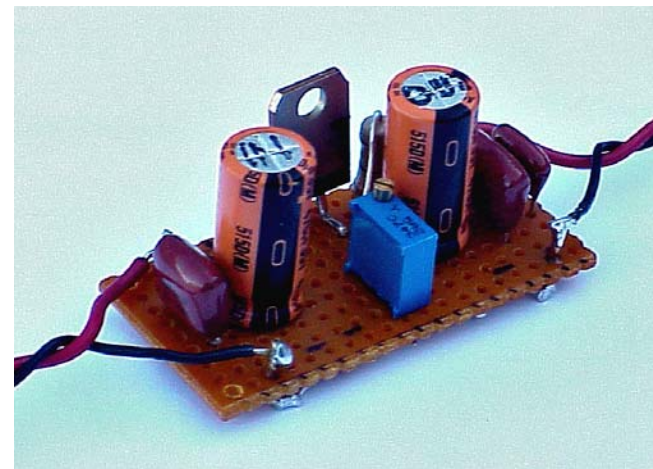
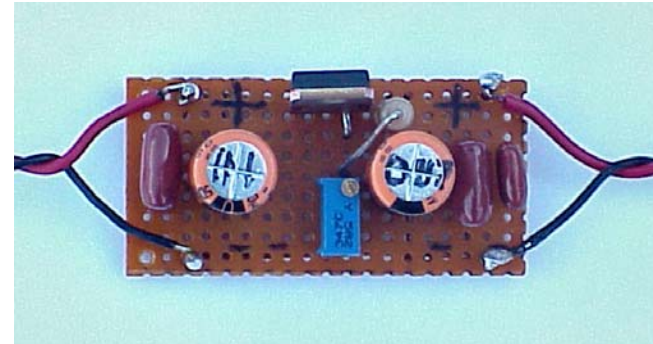
WW#2

18 VDC / 200 ma / Full wave rectifier circuit/ 220 uf filter condenser

I	Unregulated		Regulated	
	VDC	VAC	VDC	VAC
0	28.8	1.1	12.1	0.5
50	24.8	430	12.0	0.5
100	23.1	680	12.0	0.5
150	21.4	950	12.0	0.5
200	19.8	1260	12.1	0.6

Looking at the Unregulated VDC column in both grids, you can see the very unregulated nature of most wall warts, with the maximum voltage (minimum load) on each over 75% above the rated voltage. Comparing the Unregulated Voltage to the Regulated Voltage of each unit certainly illustrates the effectiveness of our voltage regulator. The Unregulated VAC (the "ripple voltage") columns of each are quite interesting. When comparing the two, you can see the effects of the more efficient bridge rectifier in WW#1 and it's much larger than usual single filter capacitor. It is likely, though, that the remaining 200 or so millivolts of AC would induce a 60/120 cycle storm in our more critical uses. The 1260 millivolt ripple in WW#2 is probable more typical (and scary!) As you can see, the new filter circuit only allows one-half of one-thousandth of a volt of AC ripple to pass through our circuit. Finest kind!

Recently, I've used Bill's first circuit to make up several *fixed* voltage supplies for various uses. However, as a normal procedure, I plan to prefabricate generic *adjustable* units rather than fixed voltage, single-use units. My approach is to order parts for five of the adjustable modules at once and build them all, as a group, on small pieces of 1" x 2" perf board. Then, when I need one, I'll drop it in the box, attach the wall wart and set the voltage with a digital multimeter. Fifteen minutes work and I'm ready to roll.





Other Uses

If you have managed to read this far, you have almost certainly realized that these two circuits have uses far beyond harnessing the power of wall warts. For most of my own career as a MW and SWBC DXer, I've DXed almost as much from a vehicle ("12 volt DXing") as I have from a formal radio shack. These circuits are just the thing, of course, to convert the power from one or two deep-cycle batteries to the various lower voltages required by some pieces of peripheral DXing equipment.

Suppliers

Mouser Electronics
www.mouser.com

All Electronics
www.allelectronics.com

Jameco
www.jameco.com

SPORTS ON RADIO

Compiled by: O Howit Hertz

E-mail: artngwen@calweb.com

Thanks to **Dale Park** for some of this info - ed

UNIVERSITY OF HAWAII RAINBOW WARRIORS BASKETBALL

Announcers: Bobby Curran-p, Jeff Portnoy-p

670 KPUA-HI Hilo
1420 KKEA-HI Honolulu (FLAGSHIP)
(p) Partial number of games (Portnoy does all home plus select road games)

NOTRE DAME FIGHTING IRISH BASKETBALL

Announcers: Jack Lorri, Jack Nolan, (via und.collegesports.com)

950 WXLW-IN Indianapolis	95.9 WEFM-IN Michigan City
1000 WMVP-IL Chicago	96.7 WLUV-IL Loves Park/Rockford
1250 WGL--IN Fort Wayne	97.7 WZOW-IN Goshen/South Bend (FLAGSHIP)
1480 WRSW-IN Warsaw	102.3 WOZW-IN New Carlisle/South Bend
1520 WLUV-IL Loves Park/Rockford	107.9 WAMW-IN Washington
1580 WAMW-IN Washington	

WTCA-1050 BASKETBALL

Announcer: Tony Ross

January 9, Plymouth @ Elkhart Memorial 7:00PM
January 10, Plymouth vs South Bend Adams 7:00PM
January 16, Plymouth vs Concord 7:00PM
January 17, Plymouth @ Laporte 8:30PM
January 23, Plymouth vs Wawasee 7:00PM
January 30, Plymouth vs Northridge 7:00PM
February 4, Plymouth vs LaVille 7:00PM
February 6, Plymouth @ Goshen 7:00PM
February 12, Plymouth @ Warsaw 7:00PM
February 17, Plymouth vs Culver Military 7:00PM
February 20, Plymouth vs South Bend St. Joseph's 7:00PM
February 24, Plymouth @ Glenn 7:00PM

PAUL FINEBAUM RADIO

570 WAAX Gadsden, AL
590 WDIZ Panama City, FL
710 WPMI Mobile, AL
740 WMSP Montgomery, AL
800 WHOS Decatur, AL
960 WERC Birmingham, AL
980 WUUS Rossville, GA
1230 WBHP Huntsville, AL
1230 WTBC Tuscaloosa, AL
1240 WEBJ Brewton, AL
1240 WULA Eufaula, AL
1300 WKXM Winfield, AL

1300 WTLS Tallassee, AL
1310 WHEP Foley, AL
1310 WPLV West Point, GA
1340 WFMH Cullman, AL
1340 WMRK Selma, AL
1400 WANI Opelika, AL
1450 WGPC Albany, GA
1450 WLAY Muscle Shoals, AL

93.3 WPGG Evergreen, AL
93.7 WRJM Geneva, AL
102.9 WNPT Marion, AL

INDIANA SPORTS TALK RADIO

Heard Friday and Saturday nights with host Bob Lovell.

860 WGOM Marion, IN	91.5 WJHS Columbia City, IN
1010 WCSI Columbus, IN	92.1 WROI Rochester, IN
1050 WTCA Plymouth, IN	92.1 WZDM Vincennes, IN
1070 WIBC Indianapolis, IN	92.7 WSKT Spencer, IN (CP? 97.7)
1130 WSDX Brazil, IN	92.7 WZBD Berne, IN
1220 WSLM Salem, IN	94.3 WKWH Rushville, IN
1230 WJOB Hammond, IN	94.5 WRZR Loogootee, IN
1230 WSAL Logansport, IN	95.3 WNDI Sullivan, IN
1230 WTCJ Tell City, IN	95.9 WEFM Michigan City, IN
1280 WGBF Evansville, IN	96.7 WCOE LaPorte, IN
1300 WBOW Terre Haute, IN	96.7 WORX Madison, IN
1330 WTRE Greensburg, IN	96.9 WKLO Hardinsburg, IN
1340 WBIW Bedford, IN	97.9 WSLM Salem, IN
1350 WIOU Kokomo, IN	99.3 WSCH Aurora, IN
1370 WGCL Bloomington, IN	100.9 WPGW Portland, IN
1390 WZZB Seymour, IN	102.3 WCBK Martinsville, IN
1440 WPGW Portland, IN	103.1 WXCH Versailles, IN
1450 WAOV Vincennes, IN	103.3 WAXL Santa Claus, IN
1460 WKAM Goshen, IN	103.5 WAWC Syracuse, IN
1490 WKBV Richmond, IN	103.9 WIMC Crawfordsville, IN
1520 WKWH Shelbyville, IN	103.9 WRBI Batesville, IN
1550 WCVL Crawfordsville, IN	104.7 WITZ Jasper, IN
1590 WRCY Mount Vernon, IN	107.7 WMRS Monticello, IN
	88.1 WJCF Morristown, IN

SCUBA RADIO

Listen every Saturday from 3-5PM ET, Monday12-2AM Replay.

540 WLIE Islip, NY	1280 WTMY Sarasota, FL
550 KFRM Salina, KS	1300 KAKC Tulsa, OK
560 WGAI Elizabeth City, NC	1310 WDXI Jackson, TN
750 KBNN Lebanon, MO	1320 WISW Columbia, SC
940 KSWM Aurora, MO	1350 WDCF Dade City, FL
960 KGWA Enid, OK	1350 WHWH Princeton, NJ
970 KVWM Show Low, AZ	1360 KMRN Cameron, MO
1050 WPLC Silver Spring, MD	1430 WHAN Ashland, VA
1080 KUDO Anchorage, AK	1450 WATZ Alpena, MI
1080 KWAI Honolulu, HI (11AM-1PM)	1450 WKEI Kewanee, IL
1080 WKJK Louisville, KY	1490 WFKY Frankfort, KY
1170 WFDL Waupun, WI	1490 WGCH Greenwich, CT
1230 KATO Safford, AZ	1570 KSXT Loveland, CO (?)
1230 KSBN Spokane, WA	1580 WKKD Aurora, IL
1240 KNRY Monterey, CA	
1240 WVKZ Schenectady, NY	
1280 WHVR Hanover, PA	Sirius Satellite Radio #122



GEOMAGNETIC INDICES

Compiled by: Phil Bytheway

E-mail: phil_tekno@yahoo.com

Geomagnetic Summary December 16 2004 through January 5 2005

Tabulated from email status daily.

Date	Flux	A	K	Space Wx Today	Space Wx Forecast Au
12/16	89	5	2	x	x
17	90	10	3	no storms	minor
18	90	17	x	x	x
19	91	10	2	no storms	no storms
20	94	5	2	no storms	no storms
21	94	4	3	x	x
22	101	10	1	minor	no storms
23	99	18	x	x	x
24	96	5	2	no storms	no storms
25	97	5	2	no storms	no storms
26	93	14	2	no storms	no storms
27	92	10	2	no storms	no storms
28	97	7	3	no storms	no storms
29	105	13	4	no storms	no storms
30	99	21	3	minor	minor
12/31	100	18	3	minor	minor
1/ 1	99	2	2	minor	minor
2	99	15	x	x	x
3	100	25	3	minor	minor
4	94	21	2	minor	minor
1/ 5	88	19	3	no storms	no storms

SPECIAL FEATURE – CPC TEST SET-UP INFO

Many members have expressed their willingness to approach their friends within the broadcast industry to arrange for future DX tests.

As an aid to those who might want to contact stations, I've posted two of the "form letters" used by the IRCA CPC committee to approach stations. The letter would need to be customized for each station, but should work well for most purposes. www.highnoonfilm.com/amdx

If you intend to contact stations in this manner, I'd like to offer some suggestions:

1. Use a standard business letter format, like the one in the sample letters. Be sure to type or print the letters and envelopes, avoiding handwritten communications.
2. Take the time to find out the name of the Chief Engineer or station manager, rather than sending out letters addressed only to titles. Usually this information is available on the station's web site or can be found out by calling the switchboard.
3. If you have spare issues of our bulletins, it might be helpful to include a past issue. This helps to make the request seem more legitimate and is more likely to get a response.
If you're sending the request via e-mail, it's easy to attach a copy of the SDXM as a PDF file.
4. If the station is one that you'd really love to see test, I suggest going the extra mile. Take the time to generate Morse Code ID's using Winmorse (available on the link above). Burn these ID's onto a CD and include that with your request.

Offer to help out with verifications. If you can't handle that task, let me know and we'll be happy to handle it for the station.

In my personal requests, I am going even further. Including a CD with the station's ID in both .MP3 and .WAV formats. I've also included some sound effects, Marching band music, and my personal favorite, old television theme songs as suggested program material.

5. If you are an amateur radio operator, be sure to include your call sign within the letter. While not all CE's are hams, many are—and this can go a long way towards getting them to honor the request for a test.
6. Do some research on-line. Many Chief Engineers have personal web pages. Some will have photos of the transmitters, bits about the history of their station, etc. These guys are a lot more likely to take an interest in doing tests. If you include references to their hobbies, families or accomplishments, you'll be more likely to get a favorable response.
7. A personal contact will be worth more than all the tips above combined. If you know an engineer at an AM station, we need your help!

Suggestions and comments always welcome. Sent out a batch of about 15 requests for tests today. Keep your fingers crossed!

73, Les Rayburn, N1LF, IRCA CPC Chairman

SPECIAL FEATURE – AM IDs Needed

John Bowker is the editor of the **Travellog** portion of **DXAS's** Monthly Cassette Newsletter. Each month, he features legal IDs from stations on a particular frequency... take it away John...

"I have now compared the latest listing of call letters and cities of license for all the stations operating in the U.S. and Canada at 920 kHz. If anyone has or can make a clean recording of these stations that are missing from the **Travellog** collection, let me know.

I can accept anything from cassettes to CDs, e-mail messages using mp3 and I can download from websites, of course. All I need is enough of the program leading up to the hourly ID to get a sense of the format and then the ID itself. The longest ID in the entire collection runs 90 seconds (WIBC in Indianapolis) because it's a jingle and I wasn't about to edit it down.

Here are the stations at 920 I'm missing:

WVOH - Hazelhurst, GA	KIHM - Reno, NV*
WGOL - Russellville, AL*	KVIN - Ceres, CA*
KMGG - Jonesboro, LA	KPSI - Palm Springs, CA*
KFLB - Odessa, TX	KVEC - San Luis Obispo, CA
KSVA - Albuquerque, NM*	

* - indicates a city where we have a recording of a station at 920, but using an earlier call sign.

I expect to begin editing the 920 chapters of the **Travellog** as early as April, 2005. I expect we will spend 2 or 3 editions getting all of the IDs on the program since I only use about 13 minutes for IDs in any one edition.

Any help you can offer, of people you can put me in touch with, will be greatly appreciated.

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The IRCA is a non-profit organization devoted to the hobby of hearing distant stations on the Broadcast Band (510-1720 kHz). **DX Monitor**, the official publication of the IRCA, is published in "soft" form 35 times a year (weekly from November through March, twice monthly from April to November) and in printed form 30 times a year (weekly November through March, monthly April to November). **DX Monitor** contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists. IRCA is a member of ANARC, the Association of North American Radio Clubs.



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