



September 6, 2003 - Volume 41, Number 1 - Edition 1293 - ISSN 899-9733

## PRESIDENTS MESSAGE 8/31/03

### To all IRCA members:

This issue marks a new beginning and an ending. With this issue, a new Publisher takes over the publication and printing of DX Monitor. It also marks my last issue as President of IRCA. With the next issue a new President and new BOD will assume office and lead us for the next two years.

I wish to take my last moments as President to offer my extreme gratitude to all those who have helped me the last 4 years as President and as BOD member before that. I am not going to mention any names, for fear of leaving someone out. You know who you are. And to each and everyone, I say THANK YOU.

Although I did not want to hold office again this time, I shall remain very active in IRCA. I have the EDXR on a weekly basis as well as the reprint service. I also handle the Awards Committee. As you see, I have more than enough to do. So, you have not heard the last of me.

I wish the new President, BOD, and publisher all the best. And I stand ready to assist them in any way they so choose. Its been a great 4 years, but time to get back to some DX !!!!.

73's and all the best  
Fresh

### Publisher's Notes

First of all I want to welcome you to the new volume year. My thanks go out to **Lee Freshwater** for his past support of our club as President and also his continuing support of the EDXR column and the Awards Committee. In addition, I would like to welcome **Nick Hall-Patch** as IRCA's new President, **Lynn Hollerman**, who is continuing as our Secretary-Treasurer, **Karl Zuk** as our new Board Chairman and our newly elected Board of Directors.

Your publisher and Editor in Chief of the 'HDXM' has also changed hands beginning with this issue. **Rich Toebe** has done an excellent job the last few years publishing quality issues, week after week. **Phil Bytheway** is going to continue as your SDXM editor. His work is also greatly appreciated. My hats off to both of these long time members for putting in a substantial amount of their free time so we can receive the DX Monitor. My

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This issue mailed Sept. 6



goal is to continue to bring you a quality printed bulletin. As we all know, the quality and quantity of what is inside, depends on your input I invite all members of IRCA to send in your DX loggings, forums, special interest items, etc. to your appropriate editors. Thanks to the internet, it is much easier than it has ever been. If you have any questions or comments, don't hesitate to send them to me at: [dxmonitor@comcast.net](mailto:dxmonitor@comcast.net). I look forward to working with you and our great column editors. Last of all I want to thank Phil and Rich for making this a smooth transaction. Rich, now you can use *all* that extra free time to DX and report often, hi!

73's Doug Pifer

On a sad note, WDXR's column editor Nancy Johnson's mother passed away in August. We send our condolences to her and her family.

## BROADCASTING INFORMATION

**Robert Wien - 801 E. Alostia Ave. Apt. G-100 - Azusa, CA 91702-2744**

Email: [wienbob@aol.com](mailto:wienbob@aol.com) phone: 626-812-4389 Ham calls: KG6RJW

Please send tips to this Email address only. Thanks!

### CALL CHANGES

OLD CALL	CITY	NEW CALL
790 KPTO	Winchester, NV	KBET
1250 WUGR	Nicholasville, KY	WWFT
1380 WLXE	New York, NY	WKDM
1440 KBET	Pocatello, ID	KPTO
1490 WBYM	Hampton, VA	WLRT
1600 WKDM	Rockville, MD	WLXE



### FORMAT CHANGES

FREQ	CALL	CITY	OLD INFO	NEW INFO
540	KSRK	Carmel Valley, CA	talk, ESPN sports	ESPN sports "ESPN 540"
580	KUBC	Montrose, CO	AS	classic C&W/ABC Real CW
590	WRAG	Carrollton, AL	silent	black gospel
600	WFRM	Coudersport, PA	WW1 country	Jones CD country
630	WNEG	Toccoa, GA	AS	soft AC
730	WJYM	Bowling Green, OH	rel. teaching	adds Sonlife network
770	WZCM	Young Harris, GA	s. gospel	country/ABC Real CW
850	KJON	Anadarko, OK	silent	ethnic
900	KPYN	Atlanta, TX	rel. teaching	adds Sonlife network
920	KMGG	Jonesboro, LA	rel. teaching	adds Sonlife network
950	KJTV	Lubbock, TX	nx/talk, Fox news	nx/talk, Fox news//97.3
980	KDBV	Salinas, CA	SS oldies	tropical
980	WAAA	Winston-Salem, NC	silent	black gospel
1030	KCWJ	Blue Springs, MO	cont. Xtian	Xtian rock
1050	WYBG	St. Lawrence, NY	AC	talk
1110	WKDZ	Cadiz, KY	s. gospel	talk
1150	WRUN	Utica, NY	nx/talk, ABC Stard.	AS, ABC Stardust
1170	KENT	Honolulu, HI	silent	ethnic
1200	WQLS	Ozark, AL	oldies	black gospel
1230	WWSD	Tallahassee, FL	urban contemp.	Silent
1230	WFVA	Fredericksburg, VA	AS	talk
1240	KRDO	Colorado Springs, CO	sports, ESPN	sports, SNR network
1250	KDEI	Port Arthur, TX	rel. teaching	silent

1260	KIMB	Kimball, NE	silent	country
1280	WHVR	Hanover, PA	soft AC	classic country
1300	WNEA	Newman, GA	s. gospel	gospel
1340	WDCR	Hanover, NH	adult alternative	variety
1350	KTXJ	Jasper, TX	silent	nx/talk
1370	WLOV	Washington, GA	country	AS/ABC Stardust
1380	WLXE	New York, NY	reg. Mexican	ethnic
1390	WYXI	Athens, TN	oldies	talk
1400	WJLD	Birmingham, AL	black gospel	blues
1400	KMHL	Marshall, MN	country	talk
1400	WKBI	St. Marys, PA	AC	AS
1410	KHOL	Beulah, ND	country	AC
1410	WSTN	Somerville, TN	rel. teaching	adds Sonlife network
1420	KGNB	New Braunfels, TX	nx/talk	news
1450	KNHD	Camden, AR	rel. teaching	now on Sonlife network
1450	KGIW	Alamosa, CO	oldies	ABC oldies
1450	WTCO	Campbellsville, KY	oldies, ESPN sports	sports, ESPN sports
1450	KIRX	Kirksville, MO	talk, Jones oldies	oldies, Jones oldies
1450	KZNU	St. George, UT	sports	talk "newsradio 1450"
1460	KDWA	Hastings, MN	news	CNN headline news
1460	WELZ	Belzoni, MS	R&B oldies	black gospel/ABC rejoice
1460	KCKX	Stayton, OR	classic country	traditional country
1470	XERCN	Tijuana, BCN	SS nx talk	Radio Unica
1480	WVOI	Marco Island, FL	AS	oldies/Jones good time old.
1490	KOKC	Guthrie, OK	rel. teaching	adds Sonlife network
1490	WDLC	Middletown, NY	oldies	oldies//96.7 FM
1490	KNEL	Brady, TX	ABC oldies	Jones oldies
1490	WLRT	Hampton, VA	classic country	rock
1530	WDJZ	Bridgeport, CT	tropical	rel. teaching
1540	WAKY	Greensburg, KY	WW1 country	Jones country
1550	WOCC	Corydon, IN	oldies	classic oldies
1600	WLUZ	Bayamon, PR	SS stds	romantica
1610	KALT	Atlanta, TX	rel. teaching	adds Sonlife network

### CONSTRUCTION PERMIT ACTIVITY

FREQ	CALL	CITY	TECHNICAL CHANGE
690	KVOI	Tucson, AZ	add 3.2 -N
1160	WMLB	East Point, GA	inc. to 50000/160
1510	KMSD	Milbank, SD	add 14-N

### FACILITY & PARAMETER APPLICATIONS

FREQ	CALL	CITY	TECHNICAL CHANGE
740	WMIN	Hudson, WI	inc. to 1100-D
820	WOSU	Columbus, OH	change from 5000/820 to 5000
1170	WWVA	Wheeling, WV	change to 52600-N
1170	KOWZ	Waseca, MN	inc. to 2500/60
1270	WWCA	Gary, IN	ex-silent, change 2500/2500 to 1000/1000
1450	KNET	Palestine, TX	dec. to 630/630

### FACILITY & PARAMETER GRANTS

FREQ	CALL	CITY	TECHNICAL CHANGE
(none)	(none)	(none)	(none)



**ADDITIONAL NOTES:** (CONTRIBUTOR IN PARENTHESES)

**PUBLIC LISTINGS:**

**KCIY** 106.5 Liberty MO will switch to the classic country format that's now heard on **WDAF** 610 Kansas City, and a month or so after that, 610 will be the new home of a sports format.

**KTLK** 620 Portland OR drops talk for 50s-60s oldies as "Super 62," reviving the format once heard on the frequency when it was KGW. (KTLK had been doing the "Super 62" thing on weekends, but just made the swap full-time.) (confirmed by PM-OR) *It's noted that the call letters also recently changed to KPOJ. ed.*

**WFFL** 1400 Ft. Lauderdale FL changes calls to **WFFL**; confusingly enough, the station was **WFTL** until April 2003.

New 1480 Glen Allen/Richmond VA takes calls: **WTOX**

**KVWG** 1280 Pearsall TX has returned to the air with classic country.

**WEBC** 560 Duluth MN is dropping its news-talk format to become part of the "Fan" sports network, based at KFAN 1130 Minneapolis. KFAN programming will air from 6 AM-7 PM on WEBC.

**Lightning strikes in Charleston SC:** And it's not a good thing for **WWJK** 950 Moncks Corner, **WQSC** 1340 Charleston and **WQNT** 1450 Charleston, all of which are off the air for up to two weeks after a lightning strike took out the Kirkman Broadcasting studios in Charleston.

In Brockville ON, CJPT's sister station **CFJR** officially launched its new FM signal at 104.9, which means its AM signal at 830 will go dark by the end of the summer.

**WCSM** 1350 Celina OH is particularly hard-hit by the flooding in the region. At last report, the station's studio/transmitter building was surrounded by water, with no way (short of a boat) for the staff inside to get to the road outside and floodwaters within 50 feet of the building. WCSM was still on the air, but it's not clear for how much longer.

**WLXE** 1380 New York, now doing leased-time Russian-language programming, returns to its old **WKDM** calls, swapping with **WKDM** 1600 Rockville MD.

New **KPKK** 101.5 Oakley UT changes calls to **KKIK**, fueling rumors of a country format; for now, KPKK continues to simulcast oldies from **KXOL** 1660 Brigham City UT.

**KOGA** 930 Ogallala NE has lost its tower in the high winds that rolled through the Cornhusker State.

**CONTRIBUTOR LISTINGS:**

Dennis Gibson passes on the following info re **KHTS-1220 Canyon Country, CA:** Everything changes September, new call letters and new owner. You got the call letters correct. You musta missed the original story. They are broadcasting at lower power. New owner takes over Sept 1. I heard them when I was in Oxnard yesterday; still simulcasting **KIIS-FM**. It was hard to tell if the signal was weak or if the modulation is indeed out of whack. (DG-CA)

**KCAA-1050 Loma Linda, CA.** now on air, 1510-D per verie, dir. East- West. I'm trying to arrange a DX test for them through Lynn! (RW-CA)

## Contributors:

PM-OR Pat Martin, Seaside, OR

TN-WI Tim Noonan, Madison, WI (sent along a list of call changes)

DG-CA Dennis Gibson, Santa Barbara, CA

RW-CA ye editor

Just so everyone knows, I've decided I'll continue on as BI column editor. Thanks. Heading up to San Jose this weekend for my B-day, turning the ripe old age of 43 on the 5<sup>th</sup>! 73's.

## WESTERN DX ROUNDUP

*Editor: Nancy Johnson -265 Waterton Way- Billings, MT 59102-7755*

E-mail: NancyJohnson@prodigy.net

WDXR DEADLINES: Sept. 12, Sept. 26, Oct. 10, Oct. 24. Please use Eastern Time.

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## REPORTERS FOR THIS ISSUE

(JcJ&NJ) John and Nancy Johnson- On the road in Montana and Washington

1998 Ford Mustang radio

(PM) Patrick Martin-P.O. Box 843-Seaside, OR 97138-0843 mwdxer@webtv.net

Drake R8, 1500' Eastern Beverage, EWE antenna

(DP) Doug Pifer-3410 Marion St. SE, Albany, OR 97322 oregon4wd@comcast.net

Drake R-8B, Kiwa Loop

\*\*\*\*\*

## OF SPECIAL INTEREST

620 KPOJ OR, Portland is now KPOJ, ex-KTLK. Oldies rock "Playing the first decade of Rock 'n roll, Super 62, KPOJ Portland" ID at 2000 8/21. (PM-OR)

\*\*\*\*\*

580 KANA MT, Anaconda 8/24 1200 driving along I-90 heard with rock oldies. On 8/27 1530 noted with talk format instead of rock oldies. (JcJ&NJ-MT)

590 KQNT WA, Spokane 8/27 1055 news with "KQNT" mentions, "Newstalk 590 KQNT Spokane" at 1100 into CNN news. (JcJ&NJ-WA)

670 KPUA HI, Hilo 8/27 very good with WSPN sports at 0958, a spot for the 3<sup>rd</sup> KWXX/KPUA party with several rock groups including Rush. "67 AM KPUA Hilo" ID. (PM-OR)

720 KUAI HI, Eleele 8/27 good & dominant with "KUI" IDs by man with Hawaiian pops. (PM-OR)

760 KGU HI, Honolulu 8/27 0954 good with Christian music and a program reminder. (PM-OR)

900 KNUI HI, Kahalui 8/27 very strong and totally dominant with nothing else much on 900, with great Hawaiian pop music and man announcer "AM 900, KNUI, your Maui News Station" at 0945. (PM-OR)

980 KJOX WA, Yakima 8/24 1240 while in Vantage, WA area heard with news and sports. 1300 no legal ID, just "Talk 980 KUSA." 8/26 1700 ID "KUSA, KJOX" into CNN news. (JcJ&NJ-WA)

1060 KTNS CA, Oakhurst 8/27 0950 fair under KHBC with NOS music and promo for "Bible Time" on Sundays, followed by weather (high of 96). (PM-OR)





- KHBC HL, Hilo 8/27 very good with usual mix of Hawaiian pops, NOS and C&W. At 0650 "KHBC" followed by a slogan in Hawaiian with Love Me Tender by Elvis and Our Love Is Here to Stay by Nat King Cole. (PM-OR)
- 1340 KTMM CO, Grand Junction 8/18 0741 fair. Local -KLOO on carrier only. Full ID @ 0800 "This is the Sports Voice of the Western slope, Sports Talk 13-40 KTMM Grand Junction". Also mention of CBS Radio Network and Fox Sports Update. Nice surprise. New. (DP-OR)
- 1340 ?KPRK? MT, Livingston 8/18 0858 Poor in mix of KLKI and others, plus local-KLOO, which came back on at 0817. Lady with call letters. (DP-OR)
- 1370 KWNC WA, Quincy 8/24 Quincy Valley news and "1370 KWNC" into AP Update at 1230. (JcJ&NJ-WA)
- 1610 TIS WA, Moses Lake 8/24 1200 while driving near Moses Lake heard TIS with outdated info (event on the Fourth of July). (JcJ&NJ-WA)
- Hope that everyone had a nice summer. Have you entered the new IRCA contest yet? Nancy 8/29 2100

## CENTRAL DX ROUNDUP

*Editor: John C. Johnson*

E-mail: [John\\_Johnson@prodigy.net](mailto:John_Johnson@prodigy.net) CDXR reports ONLY: [cdxr@prodigy.net](mailto:cdxr@prodigy.net)

## RIDING GAIN

- [JJR-WI] **John J. Rieger**, South Milwaukee, WI  
[JohnJRieger@webtv.net](mailto:JohnJRieger@webtv.net)  
<http://DX-midAmerica.com>  
<http://DXMW.com>  
 Icom IC-R75, Kiwa loop, GE Superadio III, Terk AM 1000 loop.

## DOWN THE DIAL

- 910 KVIS OK, Miami. 8-14 poor, alone. 23:20 with calls in promo. [JJR-WI]
- 1050 KLOH MN, Pipestone. 8-14 fair in null of semi local WLIP 22:42 with promo for a contest, calls. "10-5-oh KLOH." Satellite fed country format. New! First new one on 1050 since November of 1984. MN#73. [JJR-WI]
- 1210 KGYN OK, Guymon. 8-21 fair. No WPHT. 04:25 with calls and mention of AM stereo. Country format. [JJR-WI]
- 1370 KWRT MO, Boonville. 8-20 poor, steady with WSPD. 02:45 with satellite fed classic country format. [JJR-WI]
- 1470 WKLT MI, Kalamazoo. 8-14 poor with WMBD. 23:07 with calls. NOS format. This is rare here. [JJR-WI]

## 25 YEARS AGO

September 9, 1978 issue of IRCA's "DX Monitor" ... **Richard Evans** of Havertown, PA had one more CDXR column to edit before **Bob Lazar** of Madison, WI took over ... **Bruce Portzer** of Seattle, WA said he enjoyed the Portland convention. One of the highlights was **Susan Hall-Patch** winning the door prize and having **Nick** remind her his birthday was coming up.

## OPEN MIKE

The new DX season has started! Time to remind everyone that when reporting to CDXR be sure it is actual DX. No internet chatter, no newspaper stories, etc. This is a DX as heard section. Avoid reporting relogs and clear channel stations unless the catch is rare or there is a station change. Items over 30 days after logging will not be used. Please use the forum columns for everything that isn't actual DX. This column was typed 8-30-03. 73, John  
 Deadlines are: 9/14, 9/28, 10/12, 10/26

## EASTERN DX ROUNDUP

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

E-mail: ENGWTRS@aol.com FAX: 352-732-7223

### STARS OF THE WEEK

(RW-KY)	R.C. WATTS	4109 Graf Dr., Louisville., KY 40220 CC Radio, RS Loop
(HN-GA)	Herb Newberry	107 Trojan Road, Milledgeville, GA 31061 Kenwood R-5000, Quan Loop , Random wire

### LOGGINGS

690	AL	WJOX	Birmingham 8/15 2130 The sports station, ESPN Radio (RCW-KY)
1320	PA	WJAS	Pittsburgh 8/15 0141 Local talk show, Good signal (HN-GA)
1360	FL	WKAT	North Miami 8/15 0149 Classical MX. Good (HN-GA)
1560	KY	WPAD	Paducah 8/15 0206 After CNN News, "Great Memories are here on 1560 , WPAD" Good (HN-GA)
1630	IA	KCJS	Iowa City 8/15 0211 AC Music, Good . No sign of KNAX (HN-GA)

We begin a new volume with this issue. See last issue for EXDR guidelines.

### REPORTERS FOR VOLUME 40 !!!!!!!!!!!!!!! NUMBER OF TIPS / ISSUES

WILLIAM MCGUIRE	128/12
HERB NEWBERRY	128/12
DAVID HOCHFELDER	31/11
ALAN SIMPSON	22/1
RICK KENNEALLY	13/1
KARL JETER	15/1
MIKE SANBURN	5/1
CURTIS MCMENMIN	5/1
R.C. WATTS	4/2
PAT WOOD	4/1
WALT BREVILLE	2/1
JIM GILL	2/1



That's it for this week. The weekly issues are not too far off. Remember DX only here. Send station format info to Bob. See you all next time.... 73's and all the best.... FRESH 8/31 0900

## Sunrise/Sunset Maps

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

Prices: IRCA/NRC members - \$2.25 (US/Canada/Mexico/sea mail), \$2.75 (rest of the Americas airmail), \$3.00 (Europe/Asia airmail), \$3.50 (Australia/New Zealand airmail). Non-members: add \$1.00 to the above prices.

**IRCA BOOKSTORE, 9705 MARY NW, SEATTLE WA 98117-2334**



## VERIFICATION SIGNERS

*Stephen S. Howe – 9 Warner Drive – St. Albans, VT 05478-1575*

E-mail: showe@csc.albany.edu

My deadline is the last Monday of the month.

### CONTRIBUTORS

PM Patrick Martin, P O Box 843, Seaside OR 97138-0843; mwdxer@webtv.net  
RCW R C Watts; coloneldx@webtv.net  
DP Doug Pifer, 3410 Marion St. SE, Albany OR 97322; oregon4wd@comcast.net

### FREQ CALL NAME, TITLE; ADDRESS; WHAT; WHEN; WHO

690	WJOX	Frank Giardina, DirEng; 244 Goodwin Crest Dr, Suite 300, Birmingham AL 35209; F; 6; RCW
910	WEPG	Bill Lord, GM; 105 Ash Ave, P O Box 8, South Pittsburg TN 37380; L; 6; RCW
1030	KTWO	Dave Nutter, DirEng; 150 North Nichols Av, Casper WY 82601; cf; L; M; 310; n; DP
1570	WGSR	Ron Gitschier, Tech Asst; 68 Roxboro Dr, Palm Coast FL 32164; L; 54; PM

**WHAT was received:** L = Letter with personalized statement; F = Form letter; Q = QSL card, commercially printed; C = Postcard or similar card supplied by station; P = Prepared card or form supplied by DXer; R = DXer's report returned with statement; cf = Certificate; E = Verification by e-mail; fx = Verification by FAX; M = Coverage map; B = Bumper or other sticker; bc = Business card; + = Extra goodies

**WHEN the reply came:** Number of days elapsed; f = Follow-up, by mail, FAX, e-mail, or visit; n = Return postage not used; r = Return postage returned

**NOTES:** None

Thanks to Patrick, R C and Doug. We have a short column this month! I am in the process of moving my Albany, NY area apartment, so until further notice, if you are sending me your tips using regular mail, please send them to my permanent home address in St. Albans, VT noted at the top of the column. My e-mail address remains unchanged. This column was prepared on 8/25/03. 73, SSH.

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## THE 2002 VERSION! The IRCA Mexican Log 8<sup>th</sup> Edition



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 log has been completely updated from the 2001 edition and carefully cross-checked by several IRCA members. **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:** IRCA/NRC members - \$9.50 (US/Canada/Mexico/sea mail), \$10.50 (rest of the Americas airmail), \$11.00 (Europe/Asia airmail), \$11.50 (Australia/New Zealand airmail).

Non-members: add \$2.50 to the above prices.



To order the IRCA Mexican Log from the IRCA Bookstore, send the correct amount (in US funds payable to Phil Bytheway) to:

**IRCA BOOKSTORE, 9705 MARY NW, SEATTLE WA 98117-2334**



# Sports on Radio – compiled by Art Blair

## DA PRO FOOTBALL

### ATLANTA FALCONS

540 WDAK Columbus, GA  
550 WDUN Gainesville, GA  
720 WGSE Hogansville, GA  
790 WSNB Brunswick, GA  
860 WDMG Douglas, GA  
940 WMAC Macon, GA  
960 WRFC Athens, GA  
1240 WBHB Fitzgerald, GA  
1240 WGGG Gainesville, GA  
1250 WSRA Albany, GA  
1290 WTKS Savannah, GA  
1320 WISW Columbia, SC  
1330 WJJC Commerce, GA  
1340 WINZ Augusta, GA  
1350 WFNS Blackshear, GA  
1350 WNNG Warner Robins, GA  
1370 WDEF Chattanooga, TN  
1370 WLOP Jesup, GA  
1420 WPEH Louisville, GA

1450 WFFX Meridian, MS  
1450 WMVG Milledgeville, GA  
1450 WVLD Valdosta, GA  
1490 WSNT Sandersville, GA

92.1 WPEH Louisville, GA  
92.9 WZGC Atlanta, GA (Flagship)  
94.1 WQBT Savannah, GA  
94.9 WHKN Millen, GA  
96.5 WDOD Chattanooga, TN  
97.7 WKCX Rome, GA  
98.1 WMGP Hogansville, GA  
99.9 WSNT Sandersville, GA  
100.1 WNSY Talking Rock, GA  
101.1 WYDE Cullman, AL  
101.7 WYUM Mount Vernon, GA  
104.3 WKHC Dahlonga, GA  
104.9 WCCP Clemson, SC  
105.3 WBRW Blacksburg, VA  
105.5 WIFO Jesup, GA  
106.9 WBWR Bedford, VA  
107.3 WCLA Claxton, GA

### DA PRO HOCKEY

#### ATLANTA THRASHERS

Broadcast Team: Dan Kamal and Billy Jaffe.

550 WDUN Gainesville, GA  
790 WSNB Brunswick, GA  
790 WQXI Atlanta, GA (Flagship)  
850 WCUG Cuthbert, GA  
940 WMAC Macon, GA  
960 WRFC Athens, GA  
1050 WWIC Scottsboro, AL  
1240 WWNS Statesboro, GA  
1270 WYXC Cartersville, GA  
1290 WCHK Canton, GA  
1340 WGAA Cedartown, GA  
1340 WINZ Augusta, GA  
1350 WFNS Blackshear, GA

1360 WTSH Rome, GA  
1410 WPCC Clinton, SC  
1420 WRCG Columbus, GA  
1430 WGFS Covington, GA  
1450 WKEU Griffin, GA  
1470 WRGA Rome, GA  
1600 WFIS Fountain Inn, SC

92.9 WZGC Atlanta, GA (Saturday night games)  
101.1 WTGA Thomaston, GA  
102.3 WLKQ Buford, GA  
103.9 WDDK Greensboro, GA  
105.3 WMAX Bowdon, GA  
107.1 WTSH Rockmart, GA (Sun, Mon, & Tues games)



## BOSTON BRUINS

Broadcast Team: Dave Goucher and Bob Beers.

620 WZON Bangor, ME  
1030 WBZ Boston, MA (Flagship)

1420 WBEC Pittsfield, MA  
96.7 WQSO Rochester, NH

## BUFFALO SABRES

[[www.sabers.com/media/audio.html](http://www.sabers.com/media/audio.html)]

610 CKTB St. Catharines, ON  
1240 WJTN Jamestown, NY  
1360 WOEN Olean, NY

100.1 WBRR Bradford, PA  
107.7 WNSA Wethersfield Township, NY (Flagship)

## CAROLINA HURRICANES

[[www.carolinahurricanes.com/schedule/tvlisting.asp](http://www.carolinahurricanes.com/schedule/tvlisting.asp)]

570 WDNZ Raleigh, NC (Flagship)  
600 WSJS Winston-Salem, NC  
630 WMFD Wilmington, NC  
910 WSTK Jacksonville, NC  
1240 WCNC Elizabeth City, NC  
1260 WZBO Edenton, NC

97.9 WRUP Bayboro, NC  
98.3 WDLZ Murfreesboro, NC  
101.1 WKXU Burlington, NC (Flagship)  
102.3 WKIX Goldsboro, NC (Flagship)  
106.1 WNMX Waxhaw, NC

## COLORADO AVALANCHE

Broadcast Team: Michael Haynes & Norm Jones.

590 KCSJ Pueblo, CO  
730 KLOE Goodland, KS  
740 KVOR Colorado Springs, CO  
950 KKFN Denver, CO  
(Flagship Station)  
960 KNEB Scottsbluff, NE  
1010 KSIR Brush, CO  
1150 KDEF Albuquerque, NM  
1230 KBCR Steamboat Springs, CO  
1310 KFKA Greeley, CO

1340 KTMM Grand Junction, CO  
1450 KBFS Belle Fourche, SD  
1480 KRAE Cheyenne, WY  
93.9 KYSL Frisco, CO

96.9 KBCR Steamboat Springs, CO  
100.5 KRSJ Durango, CO  
103.1 KYDT Sundance, WY  
104.7 KNNG Sterling, CO  
106.1 KNFO Basalt, CO





## DETROIT REDWINGS

[[www.detroitredwings.com/thewings/frontoffice/media\\_affiliates.asp](http://www.detroitredwings.com/thewings/frontoffice/media_affiliates.asp)]

- |                                  |                            |
|----------------------------------|----------------------------|
| 580 WTCM Traverse City, MI       | 1290 CJBK London, ON       |
| 590 WJMS Ironwood, MI            | 1330 WTRX Flint, MI        |
| 590 WKZO Kalamazoo, MI           | 1340 WBBL Grand Rapids, MI |
| 600 WCHT Escanaba, MI            | 1340 WMBN Petoskey, MI     |
| 630 CFCO Chatham, ON             | 1380 WPHM Port Huron, MI   |
| 790 WSGW Saginaw, MI             | 1400 WCCY Houghton, MI     |
| 940 WGMV South Haven, MI         | 1400 WRCC Battle Creek, MI |
| 940 WIDG St. Ignace, MI          | 1400 WSJM St. Joseph, MI   |
| 970 WKHM Jackson, MI             | 1450 WHTC Holland, MI      |
| 1050 WTKA Ann Arbor, MI          | 1470 WLQR Toledo, OH       |
| 1230 WSOO Sault Ste Marie, MI    | 1490 WABJ Adrian, MI       |
| 1240WATT Cadillac, MI            | 1500 WDEE Reed City, MI    |
| 1240 WCBY Cheboygan, MI          | 1550 WSHN Fremont, MI      |
| 1270 WMKT Charlevoix, MI         |                            |
| 1270 WXYT Detroit, MI (Flagship) | 92.7 WQTX Charlotte, MI    |

## FLORIDA PANTHERS

[[www.floridapanthers.com/pressbox/broadcasting/panthersradio.shtml](http://www.floridapanthers.com/pressbox/broadcasting/panthersradio.shtml)]

Broadcast Team: Jeff Rimer, Denis Potvin, Jiggs McDonald, Randy Moller, & Steve Goldstein.

- |                                |                          |
|--------------------------------|--------------------------|
| 560 WQAM Miami, FL (Flagship)  | 940 WRFX Miramar, FL     |
| 610 WIOD Miami, FL             | 1330 WJNX Ft. Pierce, FL |
| 770 WWCN North Fort Meyers, FL | 1600 WKWF Key West, FL   |

## NEW YORK RANGERS

- 660 WFAN New York, NY  
1130 WBBR New York, NY

**Sporting News**  
**RADIO**

## ST. LOUIS BLUES

[[www.stlouisblues.com/affiliates/ktrs.html](http://www.stlouisblues.com/affiliates/ktrs.html)]

- |                              |                                |
|------------------------------|--------------------------------|
| 550 KTRS St. Louis, MO       | 88.7 WSIE Edwardsville, IL     |
| 930 KWOC Poplar Bluff, MO    | 93.1 KBDZ Perryville, MO       |
| 940 WMIX Mount Vernon, IL    | 93.9 KSSZ Fayette, MO          |
| 1150 KRMS Osage Beach, MO    | 96.7 WCXO Carlyle, IL          |
| 1220 KGIR Cape Girardeau, MO | 97.9 KFBD Waynesville, MO      |
| 1230 WHCO Sparta, IL         | 100.9 KTUI Sullivan, MO        |
| 1240 KLIK Jefferson City, MO | 103.9 KMCR Montgomery City, MO |
| 1340 KSMO Salem, MO          | 104.3 KDBB Bonne Terre, MO     |
| 1360 WVMC Mount Carmel, IL   | 104.5 KSLQ Washington, MO      |
| 1400 KGMV Springfield, MO    | 105.1 WGEM Quincy, IL          |
| 1520 KRHW Sikeston, MO       |                                |
| 1580 KTGR Columbia, MO       |                                |



## SAN JOSE SHARKS

[[www.sjsharks.com/sharks/tv\\_radio/affiliates/](http://www.sjsharks.com/sharks/tv_radio/affiliates/)]

950 KAH1 Auburn, CA  
970 KESP Modesto, CA  
1270 KXBX Lakeport, CA  
1340 KATA Arcata, CA  
1380 KTOM Salinas, CA  
1460 KION Salinas, CA

1490 KRKC King City, CA  
1660 KTIQ Merced, CA  
1670 KNRO Redding, CA

98.5 KUFX San Jose, CA (Flagship)

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## DA NBA BASKETBALL

### ATLANTA HAWKS

[[www.nba.com/hawks/tv\\_radio/broadcast\\_info.html](http://www.nba.com/hawks/tv_radio/broadcast_info.html)]

550 WDUN Gainesville, GA  
630 WBMQ Savannah, GA  
740 WMSP Montgomery, AL  
750 WSB Atlanta, GA (Flagship)  
790 WSNF Brunswick, GA  
800 WJAT Swainsboro, GA  
940 WMAC Macon, GA  
960 WRFC Athens, GA  
990 WEIS Centre, AL  
1230 WBLJ Dalton, GA  
1240 WGGA Gainesville, GA  
1240 WWNS Statesboro, GA  
1340 WGAU Athens, GA  
1350 WGAD Gadsden, AL  
1350 WTSH Rome, GA  
1370 WLOP Jesup, GA

1450 WKEU Griffin, GA  
1450 WMVG Milledgeville, GA  
1450 WRDW Augusta, GA  
1470 WCLA Claxton, GA  
1470 WRGA Rome, GA  
1560 WPGY Ellijay, GA  
1600 WFIS Fountain Inn, SC

92.1 WKUL Cullman, AL  
93.5 WLJA Ellijay, GA  
98.1 WELT Swainsboro, GA (?)  
102.3 WKZR Milledgeville, GA  
105.3 WSTI Quitman, GA  
105.5 WIFO Jesup, GA  
107.3 WCLA Claxton, GA

### CHICAGO BULLS

[[www.nba.com/bulls/news/radio\\_affiliates\\_001017.html](http://www.nba.com/bulls/news/radio_affiliates_001017.html)]

870 WINU Shelbyville, IL  
1060 WRHL Rochelle, IL  
1150 KCPS Burlington, IA  
1170 KJOC Davenport, IA  
1230 WHCO Sparta, IL  
1240 WTAX Springfield, IL  
1280 WBIG Aurora, IL  
1290 WWFS Peoria, IL  
1330 WRAM Monmouth, IL  
1360 WLBK DeKalb, IL  
1390 KCLN Clinton, IA  
1440 WGEM Quincy, IL  
1440 WROK Rockford, IL

1470 WKLZ Kalamazoo, MI  
1490 WKRO Cairo, IL  
1580 WBCP Urbana, IL  
1590 WAIK Galesburg, IL  
1600 KCRG Cedar Rapids, IA  
1600 WMCW Harvard, IL

95.7 WLRX Nappanee, IN  
97.7 WLQI Rensselaer, IN  
102.3 WRHL Rochelle, IL  
105.1 WGEM Quincy, IL



## IRCA TECHNICAL COLUMN

*Nick Hall-Patch - 1538 Amphion St. - Victoria, BC V8R 4Z6 CANADA*

E-mail: [nhp@ieeee.org](mailto:nhp@ieeee.org)

### The AMRAD Active Antenna

In QST of September 2001, an active whip antenna construction project was described that was optimized for use at low frequencies but was supposed to be usable to above 26 MHz. Its design was claimed to minimize strong signal overload as well as minimize sensitivity to local electrical noise. Although there is no ready-made version of this antenna, circuit boards are available from Far Circuits (<http://www.farcircuits.net/>) to simplify construction.

I have built a couple of these units, and have been able to compare them with a short sloper antenna and a 1 meter square unamplified box loop antenna at home, as well as with Beverage antennas. In addition, I used one on board a ship in the open Pacific. A Drake R8 was used in all tests. So, how does this antenna work?

There is no argument that this, like most other active antennas, can put signal into the receiver. One of mine, using a 1.25 m whip was placed at the peak of our house, 9 meters above ground, and at least 20 meters away from some trees which were taller. In this configuration, it easily delivered at least 15dB more signal than my 1 meter square tuned loop antenna, or than a 12m long sloper (which was 4m above ground at its high end and used an isolated matching transformer at the ground end). However, there was electrical noise all over the longwave beacon band, and a generally high level of splatter on medium wave, even on relatively open channels, which seemed to indicate overload from my two nearby 10 kw locals.

The first problem was mostly solved by attaching the shield of the coaxial cable from the antenna to a ground rod where it entered the receiver interface unit, although AC ground worked nearly as well. This simple fix pleased me until I discovered that powering the antenna with a couple of small 12 volt batteries rather than the power supply minimized electrical noise heard even without the local grounding. Other external power supplies seemed no more susceptible to local noise than was the recommended supply.

After reducing the size of the whip to 30 cm to minimize overload, the AMRAD active antenna was now roughly comparable in sensitivity on medium wave to the 12m sloper, and the antenna seemed to produce less undefined splatter on MW than with the 1.25m whip. But, if there was an advantage in readability, it was with the sloper which occasionally showed a little less local noise, and which did not show a couple of second-order spurious signals from my locals which the active did. On longwave, the active antenna delivered up to 4 S units greater strength than the sloper, but even then, there was one instance of a beacon being slightly more readable in the local noise level using the sloper despite its lower output signal. On the tropical bands, the AMRAD again delivered stronger, but noisier signal levels than the sloper.

I also compared this antenna with two 250 m Beverage antennas on the Washington coast, and found that it didn't appear to be a substitute for the ultimate MW antenna. The active, using a 1.25m whip, was placed about 2.5m above the ground, higher than any nearby buildings or shrubbery. It was consistently more responsive to local electrical noise, even when grounded both at the antenna and at the receiver interface, and was unable to hear most of the trans-Pacific DX which was being heard on the Beverage antennas. As conditions were not very good, it's likely that the directivity of the Beverages was making the difference, as the active was much better at receiving domestics than the Beverages were partially rejecting.



A final, and rather tortuous, test on board a ship offshore revealed that the antenna using a 1.25m whip was not nearly as sensitive as an 8 meter vertical with matching transformer previously used on the same ship. It was also overloaded by ship's transmissions that the vertical had not been. However, it rejected most of the shipboard electrical noise by grounding the coaxial cable shield to the ship at both the antenna and at the receiver interface. But the sensitivity was so poor for that weak signal location that little DX was heard with it.

These tests should not be seen as a universally applicable evaluation of this antenna; a more careful placement of it might have meant lower electrical noise levels. However, the only solution to overloading from strong local signals is to reduce the whip antenna length, which reduces desired signal strength as well.

Overall, I'm not sure the AMRAD active antenna was worth the effort. My limited experience with active antennas indicates that its isolation of receiver ground from antenna ground makes it somewhat easier to judiciously use earth grounds to attenuate local electrical noise, normally a problem with such antennas. I'm not sure the recommended power supply circuit is as much help as advertised in the battle against local electrical noise, as even cheap wall mount supplies seemed to be no more susceptible to noise. As far as MW signal handling and sensitivity goes, I think I would prefer to use it in the open and high up in a rural area, rather than in the city, and even then, only if there were not other antenna alternatives available.

## The Wellbrook ALA 100 Large Aperture Active Loop Antenna

This wideband (50kHz-30MHz) active antenna from the British company, Wellbrook Communications, is composed of a solid little amplifier head in a small plastic box and a slightly larger interface unit that sits next to the receiver and is powered by a regulated 12V wall mount transformer. The user supplies the BNC to BNC coaxial cable (up to 100 meters long) connecting the two boxes, and 8 to 18 meters of wire which can be formed into a single turn loop. Each end of this wire is connected to the input binding posts of the amplifier head. Further details can be seen at <http://www.wellbrook.uk.com/ALA100.html>

I hooked up the ALA 100 to a 4m x 4m single turn loop and was impressed with the signal levels which were delivered to my Drake R8 on long and medium waves, as well as on tropical bands. The gain compared with the loop with its matching transformer only was on the order of 18 dB. I soon found that the Drake was being overloaded, however, so needed to switch in its front end attenuator to avoid spurious signals on otherwise quiet daytime medium wave channels.

I have only two local MW radio stations, but both are 10 kw full-time, and both are within 5 kilometers of my listening location, with part of the path being salt water. This is a fairly tough RF environment, though there are worse urban sites with more stations. The unamplified loop delivered -19 dBm and -26 dBm from these two stations, on 900 and 1070 kHz respectively. Using the ALA 100, I started to look for intermodulation products, and unfortunately found a few. These were predictable, a second order products at 170kHz and 1970kHz, third order ones on 730 and 1240 kHz. The hunt for them was complicated by the fact that the R8 without front-end attenuation would show some of these products itself, if driven by the output of the ALA 100, or by a random wire. But I was able to establish that a third order product on 730 kHz was due to the ALA 100 by using it to drive my homebrew receiver that has several tuned circuits at its front end. The homebrew had shown no sign of overload on 730 kHz from random wires that deliver a similar signal level to the output of the ALA 100 using the 4m x 4m loop. Yet there was a definite mix of my locals on 730 using the ALA 100. This is not to disparage the ALA100; it was working within its specifications, and no commercially available broadband amplifier would be able to handle my RF environment any more comfortably. And if my listening location had been



10 rather than 5 km away from the transmitters, third order intermodulation products would likely have been 6 S units lower, and in the noise.

Although I haven't tested this extensively, I found that placing a series LC circuit between the ALA100 amplifier's input leads from the 4m x 4m loop and tuning it to my strongest local meant that the distortion products dropped by at least 15 dB, without attenuating desired signals. I also tried using a 1.7m x 2m loop instead, and the third order products disappeared pretty much completely, though there were still second order products heard on 170 kHz. One must note that there were weaker second order products audible even with a random wire, so part or all of the fault may be in the R8 rather than the ALA 100 in this case.

But, a 5m high vertical wire with capacity hat and isolated matching transformer, as well as my 1m square indoor tuned loop, put out similar signal levels as the 1.7m x 2m loop / ALA 100 combination did, so why would I go to the expense of using the ALA 100? In my situation, the ALA 100 might have an advantage in its directionality over the random wire (1.7m x 2m is small enough to think of remotely rotating), and in the fact that it picked up less local electrical noise than either of the other antennas, but, it's not a stunning improvement over the other antennas.

However, if the tuned loop had been unusable due to an electrically noisy indoor environment and I did not have the space for a random wire, I would need some sort of active antenna. The only other easily available choice in such a circumstance is an active whip or active dipole antenna. I have an AMRAD active antenna (reviewed above) that is said to be one of the better active whips for signal handling and for rejection of local electrical noise. I had needed to limit its whip to 30 cm at this location to avoid strong signal overload, rather as I had to reduce the size of the loop used with the ALA 100. The signal strength seen at the radio is quite similar with these two antennas, but the second order responses are stronger on the AMRAD active whip. Reducing response to local electrical noise was a bit of a chore with this active whip, while there were no problems with excessive electrical noise in any manifestation of the active loops. The active whip is placed at the peak of the roof, about 9m above ground, and as much in the clear as I can get it, while the active loop is mounted around the outer wall of a garden shed, so that the bottom of it is mere centimeters above the ground. There is no argument as to which antenna was easiest to mount in place, and there is no argument as to which antenna generally provides less response to local electrical noise from 200kHz to 20MHz. Because noise response of an active whip antenna is heavily determined by its location, others may get different results in comparing the two types of antenna, but I have tried these antennas in several locations around the back yard; the loop is definitely less sensitive to its location. Based on my experiences, I would definitely recommend the ALA 100 if one needed an active antenna.

One advantage of the active whip for the traveller is that it is very portable, and might be used as a "stealth" antenna. A loop 2m x 2m or larger is rather harder to hide outdoors, but it folds up easily, and the fact that it can be draped around something non-metallic near the ground is a point in its favour, as is its rejection of local electrical noise. I'm looking forward to trying the ALA 100 with larger loops at coastal locations. Finally, I did try the ALA 100 with a one meter diameter loop of wire, and the signal strengths were weaker by 10 to 15 dB, but a little post amplification at the receiver might work to create a portable DX arrangement. Of course, one could investigate Wellbrook's smaller, but higher gain, ALA 1530 active loop under this set of circumstances.

(the above reviews are from the upcoming fourth edition of IRCA's **A DXer's Technical Guide**)

\*\*\*\* Mark Connelly has recently written an article "Medium Frequency Amplifiers Compared" which analyzes various active antenna preamplifiers, most of which can be homebrewed. The article can be found at <http://www.qsl.net/wa1ion/amp/amptests.pdf> for .pdf format or [www.qsl.net/wa1ion/amp/amptests\\_doc.zip](http://www.qsl.net/wa1ion/amp/amptests_doc.zip) for .doc format.



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9-11-03

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