

April 26, 2003 - Volume 40, Number 31 - Edition 1288 - ISSN 899-9733

## Publisher's Notes

We're into the summer schedule for Volume 40 now. Next issue, SDXM only, will be dated May 10; a double HDXM is scheduled for May 24. Welcome to new member **David A. Simpson** of Fredricksburg, VA! We hope to hear from you soon, David! It's Election Time! The ballot is included with this issue, per rules. --RT

## Balloting Now Open

The voting period for the general election of IRCA officers for the next two years plus this year's Ted Vasilopoulos and Ric Heald Awards begins now.

Members receiving *DX Monitor* via e-mail or both e-mail and hard copy must vote by e-mail. Hard copy ballots will be inserted into this DXM only for those who subscribe to the hard copy version only.

The candidates, in alphabetical order by office, are as follows:

*President* – **Nick Hall-Patch**

*Secretary/Treasurer* – **Lynn Hollerman**

*Board of Directors* – **Frank Aden, Phil Bytheway, Dennis Gibson, Dave Hochfelder, John C Johnson, Patrick Martin, Tim Noonan, Doug Pifer, Mike Sanburn, Pete Taylor and Karl Zuk.**

A *maximum of seven* of the Board of Director's candidates (including any write-ins) may be selected. You may also vote for the write-in candidate(s) of your choice for any of the offices. Campaign statements, which are optional for a candidate, begin on page 2.

## Ted Vasilopoulos Award candidates:

**Rick Evans** – *For his past leadership of IRCA as both a Board of Directors member and as President, and as CDXF editor for many years.*

**Nick Hall-Patch** – *For editing the IRCA Technical Column, supporting IRCA as a member of the Board of Directors, and editing the DX'ers Technical Guide.*

**Patrick Martin** – *For serving on the IRCA Board of Directors, editing DXWW-West for 23 years, and consistent contributions to DXM*

**Rich Toebe** – *For his work as slogans list editor, and for his continued expert job of producing the high quality DX Monitor we have today.*

**Reid Wheeler** – *For his many years of service to IRCA as WDXF editor, and many years of service as IRCA Election Committee Chairman*

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## Ric Heald Award candidates:

**Phil Bytheway** – *For serving as Soft DX Monitor editor, converting the Hard DX Monitor to text and PDF formats, and sending out the SDXM by e-mail consistently and on time.*

**Lee Freshwater** – *For his final term as IRCA President, for editing the Eastern DX Roundup and taking over temporarily the Broadcasting Information column.*

**John C Johnson** – *For his 15+ years of editing CDXR, and for leading our club through serving on the IRCA Board of Directors.*

**Patrick Martin** – *For his tireless efforts to advance the hobby of BCB DX'ing as well as his continual and long lasting hands-on contributions to the DXM. His long history as editor of the DXWW column as well as his knowledge and experience in the area of International DX has proven him to be a very valuable and consistent asset to our club and hobby.*

**Bruce Portzer** – *For his outstanding job editing DXWW-II and for compiling a new Edition of the Pacific Asian Log.*

You may also vote for the write-in candidate of your choice for either or both of the above awards.

Cast your ballot by e-mailing the Election Committee Chair, **Reid Wheeler** at [wma001@attbi.com](mailto:wma001@attbi.com). All ballots must be received by the ECC no later than **June 15, 2003**.

## IRCA 2003-2005 Elections Campaign Statements (in alphabetical order by office)

### President

#### **Nick Hall-Patch, Victoria, British Columbia**

It's sometimes said that the best person for a leadership job is the one who is dragged kicking and screaming into the position. Having said that, I believe that it is important for IRCA to have a president and governing body committed to IRCA's future. So, in spite of any kicking and screaming you may witness, I am willing to follow in Lee Freshwater's footsteps, and to continue with the progress that IRCA has made during his terms, particularly his last term.

During that term, we saw impressive changes in DX Monitor. We've always had the content, now we have the professional appearance to match the content in both the hard and soft copies. Although this step forward was taken under Lee and the previous Board of Directors, we owe a large debt to Rich Toebe for his editorial skills, as well as to Phil Bytheway for translating the hard DXM to soft. My own small contribution was to lobby for the provision of Adobe Acrobat .pdf versions of the club bulletin, and to make sure that every professional looking printed issue of DXM is available on the Web to those with "soft only" memberships. Without forgetting our hard copy subscribers, I would like to encourage the continued use of the Internet for exchange of DX related information. Lynn Hollerman's skill in maintaining IRCA's website and the Topica group has given us a good head start in this way of encouraging new members to join IRCA.

We need to recognize that our DXM editors are creating a well-organized historical snapshot of MW DX and DXers, a DX "journal of record" if you like, which is now very easy to save and to refer to. This will be a selling point to potential members; plenty of information exists on the Web, but it comes and goes depending on an individual's interest in maintaining a website. IRCA is in a position to provide that information in an organized and continuing form, beyond what any individual can do, and make it worthwhile for an individual DXer to be a member.

In order to encourage new members, and depending on club finances, I would like us to move towards even less expensive soft membership, and to make an up to date list of reprints available in soft form (Lee and Phil are already working on this).

In conclusion, there's a good group of people running for club positions who I hope can help make this picture of IRCA's future a reality; please show your appreciation by voting for them.

### Secretary/Treasurer

#### **Lynn Hollerman, Lafayette, Louisiana**

I am honored to have been nominated for the office of Secretary/Treasurer and pleased to accept the nomination. It has been a pleasure being the IRCA Secretary/Treasurer these past 2 years, and I will gladly do it again. I hope the innovations that have come to IRCA on my watch (like the ability to use Paypal to pay your dues) are to everyone's liking; it is my intention to keep up with technological trends as time goes by. Feel free to contact me (my current e-mail address is listed in SDXM, or on the IRCA web site) with any questions, concerns, or problems. I will do my best to earn and keep your trust.

### Board of Directors

#### **Frank Aden, Boise, Idaho**

Many of you know me but I know many do not. I have been a member of IRCA since 1969, except from 1972-75 when I was completing my four year degree and 1980 when I went back to college to take some additional business courses. I have a B.S. in Telecommunications from the University of Oregon. Presently employed at DirectTV only owned and operated site here in Boise. I hosted the 1995 IRCA Convention in Boise and also hosted the WTFDA 2001 Convention. In 1977 I co-hosted the first WTFDA Convention on the west coast in Portland with IRCA member Pat Martin and former IRCA member Bill Block. I am thinking of bidding the 2004 convention in Boise with fellow IRCA member Bruce Bacon. Mike Sanburn and I have also discussed the possibility of a convention in Salt Lake City. As far as IRCA is concerned I feel the club is now on the right track. The Soft DXM has great possibilities for attracting new members at the very affordable membership rates and I feel the club needs to do more publicity in the DX world to widen knowledge of this great bargain. I am also an amateur radio operator, N7SOK and feel use of ham radio in communicating for DXpeditions is an excellent idea. As it looks right now I won't be able to make the 2003 Convention but there is always next year!

#### **Phil Bytheway, Seattle, Washington**

Thanks to all IRCA members that contribute to the success of the club... and to the person(s) that nominated me for the IRCA Board of Directors. I have been an IRCA member since 1971 and actively involved with IRCA since I helped host the 1974 convention. I've done many different jobs. Currently I am the "soft" DX Monitor "generator/e-mailer", IRCA Bookstore manager and a member of the Board. As a person that contributes my time and energy to the continuation of the club, I feel it is important to be part of the decision-making process, and thus I am running again for the Board of Directors.

#### **Dave Hochfelder, New Brunswick, New Jersey**

As a member of the Board of Directors, I hope to represent the interests and needs of IRCA members in the eastern United States. I look forward to the opportunity to serve.

#### **John Johnson, Billings, Montana**

It is an honor to be nominated again to serve on the IRCA Board of Directors. If I am elected, I promise to give thought to both sides of any issues brought before the Board. I would like to be part of the new Board to help make important decisions concerning the IRCA. I'd appreciate your vote.

#### **Patrick Martin, Seaside, Oregon**

I am very pleased to accept the nomination for the IRCA Board of Directors. Thank you. I have been pleased to serve on the Board in the past and to help serve the IRCA and its members. For the newer members that may not know me, I have been a DXer since 1962 and an avid QSLer since 1965. I first joined IRCA in 1968 and have been the editor for DX Worldwide West since 1980. I will be very happy to have your vote for the IRCA Board of Directors.

#### **Tim Noonan, Madison, Wisconsin**

I am honored to have been nominated as a member of the IRCA Board of Directors. If I am elected, I will welcome the opportunity to express my views and hear those of the membership. Mine is a long-term commitment to the AM DXing hobby and to the IRCA. At this point in our history, the club and the hobby face some significant issues, like IBOC, paper vs. electronic bulletins, and the aging of the hobby. The upcoming years may bring substantial changes, but I think we can be confident that our hobby will survive. Let's continue to support our club and enjoy our hobby! Please vote for the candidates of your choice, whether or not you vote for me; the apathy of non-participation is a symptom that the hobby is weakening. 73, Tim

#### **Mike Sanburn, Bellflower, California**

I accept the nomination for a second term serving on the IRCA Board of Directors. If re-elected I will continue to serve and promote this club in whatever way possible.

#### **Pete Taylor, Tacoma, Washington**

I am pleased to have been nominated to serve a third term on the IRCA Board. The club is lookin' good: Rich Toebe is doing a great job on DXM and Lynn Hollerman is ever working on improving our Web presence and access. I have attended three conventions in recent years - Seattle, Billings and Missoula - and have enjoyed getting to know the folks who both run and support the club. This support is essential if we are to maintain our leadership role, so keep those reports and proposals coming. Thank you for your vote last time; I would be honored to serve again.

#### **Karl Zuk, Katonah, New York**

The IRCA is much more than a club. It is a warm community of friends all showing an interest in DXing and each other. My passion for this hobby started long ago in the late 1950s using a two transistor radio and "all-American five" tube sets. I discovered the IRCA in 1982 and joined immediately. I have served as a Board member, as President, and as host to the 1991 IRCA convention in Knoxville, Tennessee. I'm not just an avid listener. I've been in the broadcasting business since 1968. My resume includes work at all three major TV networks and a host of local radio stations. I've also been active in promoting the club through my columns in Monitoring Times and Popular Communications. Besides DXing, I am an avid experimenter and also enjoy restoring vintage gear. As a Board member I would concentrate on publicizing the IRCA and its publications, and recruiting new members. I certainly would be receptive towards your ideas and concerns. This will be an interesting era with the coming challenge of IBOC ahead of us. I love this band, this club, and being a part of our fraternity. It would be my honor and privilege to serve. It's your choice! Please make sure you vote! Thanks, Karl Zuk



**BROADCASTING INFORMATION**

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Email: wienbob@aol.com phone: 626-812-4389 Ham calls: KG6RJW

**CALL CHANGES**

| OLD CALL                        | NEW  |
|---------------------------------|------|
| 750 WIRK – BROOKPORT, IL        | WSBX |
| 890 new – MERIDIAN, ID          | KQXI |
| 950 KKLF – DENISON, TX          | KYNG |
| 970 WWIT – CANTON, NC           | WOXL |
| 1060 KAHU – HILO, HI            | KHBC |
| 1240 WGCV – PETERSBURG, VA      | WROU |
| 1310 KBTK – CORRALES, NM        | KKNS |
| 1340 KGLW – SAN LUIS OBISPO, CA | KYNS |
| 1360 WGEE – GREEN BAY, WI       | WTAQ |
| 1550 KVAN – VANCOUVER, WA       | KKAD |
| 1560 WAOA – MELBOURNE, FL       | WINT |
| 1620 WPNS – ATMORE, AL          | WBUB |
| 1690 KSXX – ROSEVILLE, CA       | KFSG |

**FORMAT CHANGES**

| FREQ. | CALL – CITY              | NEW INFO             |
|-------|--------------------------|----------------------|
| 540   | KNOE – MONROE, LA        | NX/TALK/SPORTS       |
| 570   | WVMI – BILOXI, MS        | SILENT               |
| 570   | WTNT – BETHESDA, MD      | CNN NEWS             |
| 750   | WSBX – BROOKPORT, IL     | NX/TALK              |
| 750   | WAAT – OLYPHANT, PA      | EWTN RELIGION        |
| 920   | KTOC – JONESBORO, LA     | RELIGION             |
| 930   | WMGR – BAINBRIDGE, GA    | ABC SOFT AC          |
| 930   | WEOL – ELYRIA, OH        | NX/TALK/SPORTS       |
| 930   | KSDN – ABERDEEN, SD      | SPORTS “THE FAN”     |
| 940   | KIXZ – AMARILLO, TX      | NX/TALK “NXTALK 940” |
| 970   | WOXL – CANTON, NC        | MOD ROCK//WOXL-FM    |
| 1000  | WRAR – TAPPAHANNOCK, VA  | ABC BLACK GOSPEL     |
| 1040  | WWBA – PINELLAS PARK, FL | NX, TALK             |
| 1050  | WPLC – SILVER SPRING, MD | CONSERVATIVE TALK    |
| 1060  | KXPL – EL PASO, TX       | REG. MEXICAN         |
| 1090  | WTNK – HARTSVILLE, TN    | COUNTRY              |
| 1090  | KNUZ – BELLVILLE, TX     | SILENT               |
| 1140  | KPWB – PIEDMONT, MO      | JRN OLDIES           |
| 1150  | KSVE – EL PASO, TX       | REG. MEXICAN         |
| 1160  | WYNS – LEHIGHTON, PA     | ESPN SPORTS          |
| 1160  | KENS – SAN ANTONIO, TX   | RADIO DISNEY         |
| 1220  | WEZU – STILLWATER, MN    | ADDS TALK            |
| 1230  | WLNR – KINSTON, NC       | RPTD. SILENT         |
| 1230  | WABN – ABINGDON, VA      | SILENT               |
| 1240  | WSYY – MILLINOCKET, ME   | FOX SPORTS           |
| 1250  | WSPL – STREATOR, IL      | AS                   |
| 1260  | WWRC – WASHINGTON, DC    | CNN HEADLINE NX      |
| 1270  | KPBA – PINE BLUFF, AR    | SILENT               |
| 1280  | KSOK – ARKANSAS CITY, KS | COUNTRY OLDIES       |

|      |                             |                            |
|------|-----------------------------|----------------------------|
| 1280 | KVOX – MOORHEAD, MN         | SPORTS, TALK               |
| 1340 | KYNS - SAN LUIS OBISPO, CA  | ADDS SPORTS                |
| 1340 | KVRH – SALIDA, CO           | OLDIES                     |
| 1340 | WXFN – MUNCIE, IN           | ADDS ESPN SPORTS           |
| 1350 | WCSM – CELINA, OH           | ADDS JRN STDS              |
| 1350 | WRKM – CARTHAGE, TN         | SNR SPORTS                 |
| 1360 | KDJW – AMARILLO, TX         | CLSC COUNTRY EX-SILENT     |
| 1370 | KAWW – HEBER SPRINGS, AR    | TALK “NX TALK 1300”        |
| 1370 | KJLJ – CHEYENNE, WY         | WWI AC “K-JEWEL”           |
| 1370 | WSHV – SOUTH HILL, VA       | ABC BLACK GOSPEL           |
| 1380 | KMUS – MUSKOGEE, OK         | RADIO DISNEY               |
| 1400 | KBDB – SPARKS, NV           | AS, TALK                   |
| 1400 | KIGO- ST. ANTHONY, ID       | COUNTRY OLDIES             |
| 1420 | KXOW – HOT SPRINGS, AR      | TALK                       |
| 1420 | WCOJ – COATESVILLE, PA      | TALK                       |
| 1430 | WOOQ – DURAND, WI           | CLASSIC ROCK//WDMO         |
| 1450 | WDXR – PADUCAH, KY          | SILENT                     |
| 1450 | WYFY – ROME, NY             | SILENT                     |
| 1450 | WPAM – POTTSVILLE, PA       | WW1 CLASSIC ROCK           |
| 1450 | WMAJ – STATE COLLEGE, PA    | ESPN SPORTS                |
| 1460 | KKCS – COLORADO SPRINGS, CO | CLSC CTRY “1460 THE RANCH” |
| 1460 | KTFW – WACO, TX             | SILENT                     |
| 1460 | WBUC – BUCKHANNON, WV       | TALK                       |
| 1470 | WLOA – FARRELL, PA          | EWTN RELIGION              |
| 1480 | KKCQ – FOSSTON, MN          | ADDS ABC OLDIES            |
| 1510 | WJKN – JACKSON, MI          | NEW, CONT. XTIAN           |
| 1540 | WRSM – SUMITON, AL          | RPTD. SILENT               |
| 1550 | WMDH – NEW CASTLE, IN       | ADDS JRN STDS              |
| 1560 | KKAA – ABERDEEN, SD         | NX/TALK                    |
| 1600 | KOKE – PFLUGERSVILLE, TX    | REG. MEX //KXXS “LE MEJOR” |
| 1640 | WTNI – BILOXI, MS           | NEW, TALK                  |
| 1690 | KFSG – ROSEVILLE, CA        | REG. MEXICAN ex-KSXX       |

**CONSTRUCTION PERMIT ACTIVITY**

| FREQ. | CALL – CITY          | NEW INFO            |
|-------|----------------------|---------------------|
| 660   | KCRO – OMAHA, NE     | ADDS 54-N, ND       |
| 930   | WLLL – LYNCHBURG, VA | INC. TO 9000/42 ND  |
| 1040  | KLHT – HONOLULU, HI  | INC. TO 10000/10000 |

**NEW STATION APPLICATIONS**

| FREQ. | CALL – CITY          | NEW INFO        |
|-------|----------------------|-----------------|
| 1160  | NEW – CLEVELAND, MO  | 215/215 DA-2    |
| 1580  | NEW – GEORGETOWN, SC | 20000/5000 DA-2 |

**NEW STATION GRANTS**

(NO NEW STATION GRANTS THIS WEEK)

FACILITY & PARAMETER APPLICATIONS

| FREQ. | CALL – CITY           | NEW INFO             |
|-------|-----------------------|----------------------|
| 570   | WKBN – YOUNGSTOWN, OH | MODIFY NIGHT DA      |
| 730   | WSCC – CHARLESTON, SC | INC. TO 5300-D       |
| 1060  | KLMO – LONGMONT, CO   | INC. TO 30000-D, ND  |
| 1120  | WMSW – HATILLO, PR    | MODIFY NIGHT DA      |
| 1440  | KTNO – DENTON, TX     | DEC. TO 350-N, DA-2  |
| 1480  | WPWC – DUMFRIES, VA   | INC. TO 5000-D, DA-2 |

FACILITY & PARAMETER GRANTS

| FREQ. | CALL – CITY               | NEW INFO                       |
|-------|---------------------------|--------------------------------|
| 680   | WCTT – CORBIN, KY         | DEC. TO 830-N, MOD NT DA       |
| 890   | KTXV (CP) – FRANKSTON, TX | MOD. CP TO 2000/8 DA-2         |
| 960   | WPRT – PRESTONBURG, KY    | DEC. TO 3800/13 ND             |
| 1050  | WRFS – ALEXANDER CITY, AL | INC. TO 58-N                   |
| 1210  | WILY – CENTRALIA, IL      | INC. TO 10000-D, 1100-CH, DA-D |
| 1290  | KKAR – OMAHA, NE          | INC. TO 50000-D, DA-2          |
| 1360  | WGEE – GREEN BAY, WI      | INC. TO 10000-D, DA-2          |
| 1390  | WEED – ROCKY MOUNT, NC    | DEC. TO 23-N, ND               |
| 1400  | KIGO – ST. ANTHONY, ID    | MOVE TO 1420, 50000/16 ND      |
| 1430  | KCOH – HOUSTON, TX        | INC. TO 1000-N, DA-2           |
| 1480  | WCIN – CINCINNATI, OH     | INC. TO 4500/300 DA-2          |
| 1570  | WSCO – APPLETON, WI       | DEC. To 490/246                |
| 1640  | KMKZ (CP)– ENID, OK       | ADD DAY & NIGHT DA             |

ADDITIONAL NOTES:

**Pat Martin** of Seaside, OR. passes on the following info re status of KVAN-1550 Vancouver, WA call change to KKAD, and status of KTFH-1680 Seattle, WA:

(From **Don Kaskey** of San Francisco, CA):

*Putsying around with Radio Locator I clicked on KVAN-1550-Vancouver WA's website. What came up was 'Advice Radio KKAD-1550'..... Question? Has KVAN changed calls to KKAD? I'll have to listen later tonight.*

(Pat answers:) *I just checked. No KTFH on 1680 and 1550 is still KVAN. Why they would change from the historic calls I'll never know? KVAN used to be a 1 KWer on 910 in the 50s. The station changed to KISN. The calls went to 1480 and were there for a few years. Then in the 70s they ended up on 1550.*

(**Bruce Portzer** of Seattle, WA. adds an input): *A few seconds ago, I caught their legal ID and it was still KVAN. They even used the slogan K-Van. No mention of Advice Radio or KKAD at the ToH Maybe a change is coming. A search for KKAD on 100000watts.com came up empty.*

(**Rich Toebe** of Davis, CA. adds more on the subject): *I checked the Portland Radio Message Board (www.pdxradio.com), where someone asked about the KKAD calls situation-- the reply was that if you check the FCC Call Sign Query, the call change was effective 3/25. Someone should tell the station...*

(And Pat adds his comments): *If this is true, it is news to me.*

(Update from Pat): *I noticed this morning (4/14) that KVAN is indeed KKAD now "Advice Radio KKAD" is the slogan. 1680 is still running SS music testing stage I guess. They are on today again.*

**Dave Gordon** of San Jose, CA. passes on the following re KTCT-1050:

*"Welcome to our sister station, The Ticket 1050, which will be known as KNBR 1050 from now on, making us truly - The Sports Leader. Why have we done this? KNBR is synonymous with sports in Northern California. Just like ESPN and ESPN 2, by branding our sister station KNBR 1050, we consolidate the sports brand into one name..."*

**Pat Martin** of Seaside, OR. sends along the following from **Greg Myers** (NRC) of Clearwater, FL re new X-bander WTNI-1640:

*Noted on 4/4 from 10.30PM EST w/tlk pgm., promos for "WVMI-570" and "WTNI-1640". Good signal.*

**Dan Sys** of Vancouver, BC. Passes along the following:

*It's been a long time since the CRTC made a decision dealing with an AM station, but Toronto is getting a new Spanish station on 1610 with 1,000 watts fulltime.*

Now that we're on DST, SRS DX is terrific, take advantage of it while LSR is late, almost as late as January! 2 months and counting till the convention! Happy Easter to all! I'll be in Boulder, CO. for a week-long business trip April 27<sup>th</sup>-May 2<sup>nd</sup>, hope to get some DX in during that time out there. 73's.

WESTERN DX ROUNDUP

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WDXR DEADLINES: May 2, May 16, May 20, June 13, July 4. Please use Eastern Time.

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GE Superadio 2

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OF SPECIAL INTEREST

- 1550 KKAD WA, Vancouver 4/14 now "Advice Radio KKAD" noticed at 1245, ex-KVAN. (PM-OR)  
+ 4/17 easily thru-over local KYCY 2220-2245+ with Portland Beavers vs Las Vegas baseball game. 2230 noted ads for Portland merchants and at 2241 ID given between innings. This game also noted at same time on KENO-NV-1460. KKDA, ex-KVAN. (DKK-CA)
- 1640 WTNI MS, Biloxi 4/15 0258 topping 1640 briefly on top of Utah with promo for talk shows on "...WTNI 1640," then lost under Utah again. I have all the X Banders once again. (PM-OR)
- \*\*\*\*\*
- 550 KMVI HI, 3/20 0010 airing live coverage of Iraq war // KHVH-830 instead of ESPN programming; noted later that ESPN re-instated one-minute ABC news updates at :30 and :50. (5P-HI)
- CKPG BC, Prince George 4/9 0130 man said "The classics on CKPG," signal way over semi-local KOAC. Oldies format. (GH-OR)
- 560 KSFO CA, San Francisco 3/21 0801 ABC-E news, ID "5:04 on Hot Talk 5-60 KSFO" then talk show hosted by Lee Rodgers. Fair, slop from station on 558. (5P-HI)  
+ 4/9 0140 Hot Talk 560 ID, ad for home mortgage company, George Norry cal-in talk show. Fair. (GH-OR)
- 600 KOGO CA, San Diego 4/6 2359-2400 A and E TV commercial for Napoleon, announcing war update in Iraq to follow. (RA-NV)
- 630 KFXD ID, Nampa 4/6 2303-2311 call ID "Classic Country AM 630 KFXD," announcer saying listeners can log on to KFXD website for weather and traffic. Good, with some background interference. (RA-NV)
- 660 \*KTNN\* AZ, Window Rock 4/4 0418 open carrier strong with little fading, slight KFI & KIRN splash. UnID talk or news under. (GL-CA)
- 670 KPUA HI, Hilo 3/23 instead of "Coast to Coast AM," live coverage of Iraq war from CBS, brief ID and jingle at 0159. (5P-HI)
- 760 KFMB CA, San Diego 4/15 0100 talk programming into news concerning Iraq war. Fair to poor signal barely over unID. (GH-OR)
- 820 WPHE337 CA, Hollywood 4/13 1330 tape loop mentioned no shows presently at Hollywood Bowl. (MS-CA)
- 840 KKNX OR, Eugene 4/14 2231 Otis Redding song "The Dock of the Bay," fair/good with KXNT QRM. (AB-CA)
- 860 KARS NM, Belen 4/13 0430 huge with ID "KARS 860 from the heart of New Mexico." (MS-CA)
- 890 CJDC BC, Dawson Creek 4/15 0120 country music with ID, weak. (GH-OR)
- 920 KSHO OR, Lebanon 4/15 0130 man said "You're listening to the finest music ever recorded on KSHO." NOS format way out in the slop. This one seldom makes it into town. (GH-OR)
- 930 KKXX CA, Paradise 4/13 0535 in KHJ null with religious program "The Heart of Worship," songs included "He Reigns." ID as "Y-105 Reality Radio." Thanks to Bob Wien for help with this one. 37 watts!?!? (MS-CA)

- 940 KIXZ TX, Amarillo 4/6 2000 ID as "News Talk 94" from oldies. (BN-CO)
- 950 KJR WA, Seattle 4/13 1900 fair signal in & out with baseball game. Not heard for a while. (GH-OR)
- 980 KJOX WA, Yakima 4/11 0300 with ID at top of the hour. Heard only KUSA ID. At 0358-0400 heard numerous KUSA calls given. Finally at 0400 just after the last KUSA ID there was a quick KJOX call given. Isn't KUSA a TV station in Denver? (DKK-CA)
- 1050 KTCT CA, San Mateo 3/20 0001 Fox Sports Radio update, 0002 back to host discussing "America at War" and taking calls // 1140 KHTK-CA. (5P-HI1)
- 1060 KAHU HI, Hilo 3/11 noted back on the air with mix of Hawaiian music and AdCon oldies, some nights even jazz was played. However, according to a Honolulu Star-Bulletin story March 12<sup>th</sup>, the station is calling itself KHBC, and its top of the hour ID is "AM 1060 K-A-H-U, Hilo is now KHBC." KHBC was the call sign of the Big Island's first station, which has evolved into the present KPUA. Per Chuck Boehnke, KAHU is now 5kw 24 hours. (5P-HI)
- 1100 KFAZ CA, San Francisco 4/17 0000 call ID mentioning service of Salem Communications, sudden interference. (RA-NV)
- 1140 KZMQ WY, Greybull 4/13 s/on 0757 strong and dominant. Probably Sunday s/on is later than other days. Man said to stay tuned for the best in country music. (LG-MT)
- 1150 KXTA CA, Los Angeles 3/22 0002 Rich Marotta with boxing show "The Neutral Corner" live from Mandalay Bay Resort in Las Vegas, plugging Bill Handel on sister station KFI and Fox Sports Net. Fair to good. (5P-HI)
- KSAL KS, Salina 4/9 had a strong signal, on top at 2300 with ESPN program ending and man said "Your information authority, Newsradio...KSAL." (LG-MT)
- 1170 KFAQ OK, Tulsa 3/21 2356 relay of Fox News Channel's "On the Record with Greta Van Susterin," quickie ID "KFAQ" and "This is continuing coverage...from Fox News Channel." Guess station was in "set it and forget it" mode; no local ads heard. Last heard here as KVOO. Fair to poor. (5P-HI1)
- 1210 KUNF UT, Washington 4/12 2137 dominant with tag line "Unforgettable music all night long," KGYN also noted. (MS-CA)
- 1270 KBZZ NV, Sparks 4/10 0800 KBZZ call ID and news, fair with mucho QRM. (AB-CA)
- 1320 KCTC CA, Sacramento 4/4 0422 not as strong as recent nights, usual NOS, KWKW splash. Sure sounded like they were still using day pattern. (GL-CA)
- 1340 KATA CA, Arcata 4/7 0940 poor to fair, ESPN programming, NBA scores. (AB-CA)
- 1350 KTIK ID, Nampa 4/7 0951 brief sports news, ad for local tire supplier. (AB-CA)
- KRLC WA, Clarkston 4/7 0948 C&W music, "Hometown Radio" slogan, KSRO QRM. New. (AB-CA)
- 1450 KFSD CA, Escondido 4/12 2057 played song "Gold" by Eagle member and SoCal HAM operator Joe Walsh. Slogan ID "The Fox, San Diego," with XECB and KVEN. (MS-CA)
- KVML CA, Sonora 4/9 2100 KVML call ID into (CBS?) news. Not heard in many a moon. (AB-CA)
- 1460 KKCS CO, Colorado Springs 4/7 1000 ID as "Classic Country, The Ranch, KKCS" from news talk. (BN-CO)
- 1490 KNDC ND, Hettinger 4/6 2300 "1490 KNDC Hettinger" thru a jumble, and into ABC news. (NP-AB)
- 1500 KUMU HI, Honolulu noted signing off at 0500 nightly since about 2/28, apparently signs on at 1100 (0600 local). Apart from weekday AM drive relaying KUMU-FM and brokered shows on weekends, station is automated. KUMU joins KZOO-1210 and KUAU-1570 as the only Hawai'i stations not running 24 hours. (5P-HI)
- 1530 KCMN CO, Colorado Springs ended a patriotic song at 100 on 4/10 and man said "The greatest hits of all time, KCMN." Heavy QRM from KFBK. (LG-MT)

- 1590 KMBD OR, Tillamook 4/7 0358 "KMBD weather for Monday, April 7<sup>th</sup>," coming through dominant KLFE. (NP-AB)  
 1680 \*KTFH\* WA, Seattle was very strong on ET with Spanish music at 2254 on 4/10. Man gave simple, legal ID. New. (LG-MT)  
 1700 KQXX TX, Brownsville 4/16 battled with unID Spanish (see below) at 2300. Man ID'd as "Oldies Radio 1700 AM" and mentioned Brownsville. (LG-MT)

#### UNIDS

- 540 4/5 2250 ID only as "K-Surf" playing big band and NOS format, with fair signal but gone by 2300. (GH-OR)  
 820 4/6 2318-2323 playing Orleans "Still the One," then a Spanish DJ came on, followed by The Beatles "Let It Be." Strong with QRM. Any ideas or clues? (RA-NV)  
 1010 4/11 0300-0310+ two stations beneath local KIQI, CBR the dominant and the other with ESPN sports. Possibly KSIR-CO? (DKK-CA)  
 1700 Mystery Spanish-speaker, with some English, first noted 4/12 at 2300 when announcer seemed to give, in Spanish, a call that included the letters "KES." He also mentioned 5,000 watts and "Nortena." At 2300 4/13, announcer interrupted a talk show in Spanish and said, in English, "Thank you for tuning into another..." At 2300 4/14, I believe a man mentioned Tijuana in a station promo, then I heard (in English) what sounded like "XL.. headline news." At 2300 4/16, there was a music program going and man seemed to mention the letters "KSS" in Spanish, with QRM from KQXX. Is there a new border Mexican here? (LG-MT)

Welcome to WDXR, Rene. It has been a long time since we have had a reporter from Nevada. We hope to hear from you often. Nancy 4/18 2100

### 2002-2003 IRCA DX CONTEST

Manager: Nancy Johnson -265 Waterton Way- Billings, MT 59102-7755  
 E-mail: NancyJohnson@prodigy.net

Standings as of March 15, 2003

|                    |     |                    |     |
|--------------------|-----|--------------------|-----|
| 1. Bill Nittler    | 376 | 7. John Tudenham   | 174 |
| 2. Paul Swearingen | 279 | 8. Nancy Johnson*  | 145 |
| 3. David Braun     | 262 | 9. John C. Johnson | 36  |
| 4. Doug Pifer      | 251 | 10. Dale Park      | 27  |
| 5. Pete Taylor     | 244 | 11. Mike Sanburn   | 5   |
| 6. Nigel Pimblett  | 236 |                    |     |

\* Contest manager is not eligible to win.

You can join this year's contest at any time. The rules are on the IRCA web site, and in *DX Monitor*, Volume 39 Number 35, dated August 31, 2002. Then send your entries in to me at the address above!

### IRCA Stationery

Black/red masthead with the IRCA logo and name. Great for using when writing for verifications. 100 sheets, \$5.00 (US and Canada), \$7.50 (rest of the world).

Order (in US funds payable to **Phil Bytheway**) from:

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



### CENTRAL DX ROUNDUP

Editor: John C. Johnson

E-mail: John\_Johnson@prodigy.net CDXR reports ONLY: cdxr@prodigy.net

#### RIDING GAIN

- [PAL-MN] **Paul A. LaFreniere**, Grand Marais, MN  
 Plafren@boreal.org  
 McKay Dymek DR-22, DA-100, Superadio III  
 [TN-WI] **Tim Noonan**, Madison, WI  
 DXing2@aol.com  
 http://www.angelfire.com/wi/dxing  
 Kenwood R-1000, Radio West Loop.  
 [JJR-WI] **John J. Rieger**, South Milwaukee, WI  
 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

- 580 WELO MS, Tupelo. 4-13 poor over unID with SS. 06:45 with MYL format. No ID, so tentative, but only one on 580 with this format. [JJR-WI]  
 680 WJCE TN, Memphis. 4-13 poor in WSCR slop. 06:40 with "Easy 6-80 WJCE" and NOS format. Rare! [JJR-WI]  
 790 KGHL MT, Billings. 4-13 good. 07:06 with mention of the "Northern Ag Network on Great Country Classics KGHL." Not new. [PAL-MN]  
 930 WBCK MI, Battle Creek. 4-13 fair, no WAUR. 07:05 calls, local news. [JJR-WI]  
 980 WTEM DC, Washington. 4-12 fair. 07:25 with spots for firms in MD with 301 area code. Many "Sports Talk 9-80" slogans. New. [PAL-MN]  
 1010 WFGW NC, Black Mountain. 4-13 poor in with others. 07:00 with legal ID and possibly into USA Network News. [JJR-WI]  
 1100 KNZZ CO, Grand Junction. 4-12. 21:31 with local spots and ID "News radio 1100 KNZZ." New. [PAL-MN]  
 1370 KJLL WY, Cheyenne. 4-9 good. 04:00 with clear ID, "13-70 KJLL Cheyenne." New for me. Must not have been on night power. [PAL-MN]  
 1380 KSLG MO, St. Louis. 4-13 fair, no usual WONO. 06:06 with Sporting News format. This was more common when they were "13.8 KWK." [JJR-WI]  
 WLRM TN, Millington. 4-17 poor to fair over unID with SS. 06:28 with two call IDs and "Love Power 13-80" slogan. Chased for 17 minutes. [JJR-WI]  
 1440 WJLL NY, Niagara Falls. 4-13 poor, alone over mush. 06:02 with calls into oldies music. [JJR-WI]  
 1480 WPFJ NC, Franklin. 4-17 fair. 07:09 with weather, local spot, "Rise & Praise Morning Show." Religious format. Last hear as WLTM. [JJR-WI]  
 1490 CFPS ON, Fort Elgin. 4-13 poor. 06:19 with a nice "CFOS" jingle out of nowhere and back into mud. Nice visitor! [JJR-WI]  
 1580 WLIJ TN, Shelbyville. 4-17 fair over others. 07:06 Very accented announcer with promo for an upcoming remote "...here in Shelbyville." [JJR-WI]  
 1640 WTNI MS, Biloxi. 4-11 fair to good over and under WKSH. 07:00 with dead air (no local ID) into ABC News. Calls and "Talk radio 16-40" after the news at 07:05. Legal ID at 07:06 into Jim Bohanan. In well for the ID. [TN-WI]  
 + 4-14 poor, way under tightly nulled WKSG. 06:06 with ABC News, spot, weather. New! [JJR-WI]

#### 25 YEARS AGO

April 29, 1978 issue of IRCA's "DX Monitor" ... **Morton D. Meehan** of Twentynine Palms, CA said he has so much junk (radios, club bulletins, etc.) he is adding a room to his house ...

Gary Parton of San Mateo, CA told about Gary Larson's visit ... Bruce Portzer of Seattle, WA told about the FCC office in Seattle.

OPEN MIKE

Hope all of you had a nice Easter! This column was typed 4-19-03. 73, John

### EASTERN DX ROUNDUP

Lee J. Freshwater – 414 SE 3rd St. – Ocala, FL 34471  
E-mail: ENGWTRS@aol.com FAX: 352-732-7223

Deadlines are: 5/1 , 5/14

|         |                  |  |
|---------|------------------|--|
| (WM-MD) | William McGuire  | STARS OF THE WEEK<br>2412 59th Place, Cheverly MD<br>DX-398                          |
| (DH-NJ) | David Hochfelder | New Brunswick, NJ<br>Sony ICF-2010 KIWA Pocket Loop                                  |
| (JG-FL) | Jim Gill         | Bradenton, FL<br>Drake R-8B 150' I.w.  |
| (HN-GA) | Herb Newberry    | 405 JH Whittaker Rd, Newborn, GA 30056-3033<br>Kenwood R-5000, Quan Loop , 300' I.w. |

### LOGGINGS

|      |    |        |   |
|------|----|--------|---|
| 760  | MA | WVNE   | Leicester 3/11 1835 REL mx hrd, "Life Changing Radio" (WM-MD)   |
| 1050 | NC | WLON   | Lincolnton 3/27 2100 ID (WM-MD)   |
| 1070 | AL | WAPI   | Birmingham 3/25 1846 Traffic rpt, ID (WM-MD)  |
| 1150 | CA | KXTA t | Los Angeles 3/24 2325 "KXT" hrd in mess; C&W mx (WM-MD)   |
| 1190 | TX | KFXR   | Dallas 4/2 1945 Fox sports talk show, local mentions.<br>On QX pro loop SW-NE. New justa fter local SS (HN-GA)  |
| 1290 | NC | WHKY   | Hickory 4/3 0005 good, dominant at times. Carrying ESPN<br>Local ads after TOH, call ID (DH-NJ)   |
| 1310 | IN | WTLC   | Indianapolis 3/22 2345 BLK GSPL mx hrd, Indiana PSA (WM-MD)   |
| 1370 | GA | WGHC   | Clayton 3/31 1613 NOS mx, local ads. New (HN-GA)  |
| 1470 | CT | WMMW   | Meriden 3/31 2125 local ads, talk show, ID (WM-MD)  |
|      | MD | WTTR   | Westminster 4/1 1813 "Oldies 14-70" SID (WM-MD)   |
| 1520 | MN | KOLM   | Rochester 4/12 0100 fair under very dominant WWKB. Sports<br>talk about Augusta National before 0100, then into "Sports<br>Overnight America", with Matt Johnson. USA Radio Network<br>news at TOH. Presume on Day power. (DH-NJ) |
|      | OK | KOMA   | Oklahoma City 4/2 2000 Singing Legal ID into CBS News. New<br>on longwire. Gone suddenly, pattern change ?? (HN-GA)   |
| 1580 | IN | WCNB   | Connersville 4/14 0020 fair in jumble. ID's as "100.3- WIFE" local<br>ads. New 402 (DH-NJ)  |
| 1610 | FL | WKQV   | Coral Springs 4/16 0015 Caught during Oldies pgm, just before<br>sign off at 0015 ID's as "KQV" (JG-FL)   |
| 1640 | MS | WNTI   | Biloxi 4/11 0030 fair to good at occasional peaks . Jim Bohannon<br>show and ABC News at TOH. City and call ID at bottom of hour.<br>Thanks to Barry McLarnon DFX Tip. WKSH off or OC (DH-NJ)                                     |
|      | FL | WNPG   | Tampa stn operates daytime only. Signs off at sunset + or - 15<br>min. Been on for over a month 20 over S-9 signal 55 miles south<br>of Tampa. Programming in Spanish (JG-FL)   |

|      |    |      |           |                  |         |
|------|----|------|-----------|------------------|---------|
|      |    |      |           | UNIDEN           |         |
| 1100 | ?? | ???? | 4/1 1828  | NOS mx hrd; weak | (WM-MD) |
| 1280 | ?? | ???? | 3/11 0044 | Fox sports hrd   | (WM-MD) |

It's nice to be back with some DX. Spent a great week in Las Vegas at the National Association of Broadcasters convention. Got to spend some time with Kyle Wesley, the Director of Engineering for Radio Disney, along with many of the Clear Channel , Cumulus , and COX Radio engineers. Also spent a lot of time talking IBOC with Tom Wray from WOR.

Please note the new deadlines for the next two issues. I will be cruising the eastern Carribean May 3-11. I will only be home for a few days before I leave for the Dayton Hamvention 5 /15 to 5/19 ... For those of you coming to Dayton, I will be sharing a booth with Bob Heil of HEIL SOUND. Stop by and say hello...

### DX WORLDWIDE – WEST / TROPICAL BAND DX

Editor: Patrick Martin – P.O. Box 843 – Seaside OR 97138  
E-mail: mwdxer@webtv.net all times UTC

A nice report this time from Nigel Pimblett in Alberta along with some nice QSLs too.

### PAN AMERICAN DX ROUNDUP

|      |        |  |
|------|--------|--|
| 800  | MEXICO | Cd. Juarez, XEROK 0200, 3/23 ID in SS as "XEROK Radio Canon" and mentioning being heard in Mexico, the US, and Canada. (NP-AB) |
| 1470 | MEXICO | Tijuana XERCN, 0400 3/30. Jingle ID's as "Radio Unica, San Diego" then into news. (NP-AB)                                      |
| 1470 | MEXICO | Mexico City XEAI 0300 3/30. NA, call letter ID, later on also heard "Radio Formula" IDs. (NP-AB)                               |

### MEDIUM WAVE QSLs

|     |           |   |
|-----|-----------|---|
| 612 | AUSTRALIA | Brisbane, 4QR. Full data map card, some info on Queensland, and stickers in 53 days for an IRC, which was returned. (NP-AB) |
|-----|-----------|---|

### TROPICAL BAND QSLs

|      |                  |  |
|------|------------------|--|
| 3223 | INDIA            | Shimla, AIR Full data QSL letter from V.K. Upadhyay in 60 days for taped report and an IRC which was returned. (NP-AB)   |
| 3850 | PAPUA NEW GUINEA | Radio Independent Mekamui, Full data QSL letter from Sam Voron in 22 days for a taped report. Confirmed power as 80 watts. (NP-AB) (A great catch and QSL Nigel. Good going. PM) |

### THANKS TO THIS REPORTER

NP-AB NIGEL PIMBLETT, 1146 Queen Street SE, Medicine Hat, Alberta, Canada  
<[ntp@shockware.com](mailto:ntp@shockware.com)>  
DXing with Kenwood R-5000, beverage antennas, K9AY.

### Deadlines for remainder of Volume 40

May 5, May 19, June 2, June 16, July 7, July 21, August 4, and August 18. Column editors have earlier deadlines, so check with them to make sure your hot tips don't get pushed out two weeks.

## WESTERN DX FORUM

*Reid Wheeler – 5910 Boulevard Loop SE – Olympia, WA 98501-8408*  
E-mail: WMA001@attbi.com Phone 360-786-6756 Fax 360-753-3824

Mike Sanburn, PO Box 1256, Bellflower CA 90707-1265 KG6LJU

Greetings, I loved the LOCO and NOVI cartoon strip that appeared recently in DX Monitor. Thanks Bruce! It is a bit of a switch for us to hold our convention in such an extreme northeastern town, but from a DX standpoint it is perfect! Bob Bittner, GM/Owner of WJTO-730 in Bath, Maine extended an invitation for DXers to visit the JTO transmitter site. He mentions that the area is suitable for RV parking if anybody would like to camp/DX overnight. It is 30 miles up the coast from greater Portland. You can contact him at [Jibguy@aol.com](mailto:Jibguy@aol.com). Since I am a member (#732) of the Amateur Radio Lighthouse Society, I am hoping to arrange a brief tour of the Portland headlight. It is 3 miles from our hotel site. Might even swing by the Sebago micro-brewery... Our host hotel has been very helpful with planning this event. Members wishing to contribute items for our auction: [we're always in need of station mugs, screensavers, t-shirts, hats, books, and DX accessories, etc.] You can mail these directly to IRCA Convention c/o Don Haggett-Manager, Best Western Merry Manor Inn, 700 Main St., South Portland, ME 04106. He has agreed to hold these for us, of course I'm wishing that as many DXers attend as possible. Make your room reservations early. Locally here in Southern CA, many of us are attending the Associated Radio Amateurs of Long Beach monthly meeting at the Signal Hill Community Center (near Cherry and Hill Streets) the first Friday night of the month, at 7:00 pm. Next dates are May 2 and June 6. Details are always available at [www.aralb.org](http://www.aralb.org) and admission is free. One thing I would like to see eventually in the Monitor is a complete list of all IRCA members who are also hams, including call signs. Finally thanks for nominating me for BoD and IRCA Presidential races. Good DX to all. 73

Gary Larson, 2806 Lincoln, Burbank CA 91504

[4/7] I've been noticing Spanish rel on 1670 here, as reported in DXM. Owner D. Van Voorhis said he'd sell station but no idea if anything is going on there. Called GM John Paley, KIRN, and have found that they've moved – Lotus Comm., KIRN, KWKW/KWKW are at their own building, 3301 Barham (@ Blair Dr.), L.A., CA 90068, ph#'s are 323-851-5959 (KWKW), 323-851-5476 (KIRN) and Lotus Comm., 323-512-2225. CE is John Cooper. Land has been purchased in the Antelope Valley for prop. 35 kW site. I've been sending + getting tapes to and from Herbert Newberry. Good to hear other area stations. 1670 locally in S. Cal. is much Span. rel., very likely R. Catolica that some have reported. Getting warmer here and now that time changed on 4/6, more light. Hope 670 NV is denied unless coverage is really local to its area. 1510 San Rafael was in weak few nights ago w/c+w, using new night power. 73 for now.

## EASTERN DX FORUM

*Richard C. Evans – 7416 Hearthstone Way – Indianapolis IN 46227-7923*  
E-mail: REvans5435@aol.com DEADLINES: Sundays

Herbert Newberry, Jr., 405 JD Whittaker Road, Newborn, Georgia 30056-3033

Greetings to all IRCA members across the fruited plains (w/apologies to Rush Limbaugh! hi!). Let me begin with a hello to Gary Larson. My last lament in this Forum resulted in recordings and a letter from him "out of the blue". As a result, we have begun a casual exchange of brief remarks and cassette recordings. I have enjoyed the "west coast sound" and hope he has enjoyed my return submissions. Richard, as far as the war coverage was concerned, my local news/talk station, WSB AM 750, carried a lot of CNN audio plus

updates every 15 minutes. The local talkers, Neal Boortz, Clark Howard, Royal Marshall (all on WSB) covered the war from all talk perspectives. I also relied on Shaun Hannity (also on WSB), the "Godfather" (i.e., Rush) to balance out the more liberal CNN coverage. By far, the big "winner" on war coverage goes to Fox News Network. With Direct TV, I could and did watch it for hours on end. I haven't heard Fox News Radio anywhere here. Don't know if they have any Atlanta outlet. WGST AM 640 was heavily into ABC news, with a nightly special at 1900-2000 ELT. After recent revelations, I think there may be a move away from CNN Radio News towards Fox News Radio. I plan to contact Ms. Candace Pressley at Cox/WSB in Atlanta to suggest a change from CNN News to Fox News. WSB format is conservative - perhaps they need a less liberal news affiliation? The lack of oldies on AM has been solved somewhat. First, I found out that the FM on my stereo was damaged by a near-miss lightning strike. So, I piggy-backed another small boombox to the video input of the stereo. Better, but noisy. A 50' wire out to a mte - problem solved. Now I can choose from three stations. Of interest to DXers is "Cool 105.7" WMXV in Canton, GA. Ex-WGST FM, owned by Clear Channel (also owns WGST, et al). They are "teasing" Cox Radio, who owns ex-WFOX 97.1, now "97 Jams" for abandoning oldies fans for more UC, rap and dance music. "Cool 105.7" has same sound as WFOX. Format is 60's-70's oldies (50's have been dropped for a "younger" oldies audience (43 and younger, I guess, although I'm 48 and love oldies - my mother will be 67 and she enjoys oldies, too.)) I am basically an oldies fan from the old days in Chicago (1955-1969) in the shadows of WLS and WCFL. Today, on AM, I listen to news/talk exclusively: WSB and WGST (from 0830 to 17800: Neal Boortz, Rush Limbaugh, Shaun Hannity, whom I consider the "holy trinity" of conservative talk, Rush - "the Godfather", Neal "the son" (he always credits Rush for his success) and Shaun "the spirit". (Btw, Neal actually is Libertarian, not a conservative.) From 1500 to 1800, I "relax" with Kim Peterson drive time show on WGST. So that's it for now. Keep DX'ing in spite of the static, but do disconnect if it gets too close - Ben has already done that experiment! 73's de Herb. (Herb, all I can think is that, at age 48, "you're still a kid". I lived not far from you back in 1966-69 when I was living in beautiful downtown Gary, Ind. If you actually lived in the shadows of the WLS tower, then you were on the far south side. Remember WAAF-950, sitting halfway on the dial between WLS and WCFL, also playing rock. WLS ran news at :55 and WCFL on the hour, so WAAF would catch the kids switching back and forth between the two bigger stations, hi.--rce)

## IRCA TECHNICAL COLUMN

*Nick Hall-Patch - 1538 Amphion St. – Victoria, BC V8R 4Z6 CANADA*  
E-mail: [nhp@ieee.org](mailto:nhp@ieee.org)

### Using a PC sound card for SSB/CW/AM demodulation

Nick Hall-Patch

If you've been in the market for a receiver in recent years, or have just been dreaming about it, you're aware that a number of the more expensive units extol the virtues of Digital Signal Processing (DSP). This is simply the use of computer algorithms to perform functions, such as bandpass filtering, which have formerly been taken care of by analog circuits. In such receivers, the analog signal is sampled at some point in the signal path, usually later on in the IF strip, and converted to digital data, whereupon a dedicated DSP microprocessor performs various computations on the data which can filter it and demodulate it to baseband (what we in the real world would regard as equivalent to an audio signal). Then the processed data is converted back to audio, so that we can actually listen to it. The advantage of DSP is that simply by changing variables in a program, you can obtain a greater number of functions, such as different filter bandwidths, than you could ever afford to do using hardware. A programmer employed by the manufacturer figures out ways that you can control those variables without your knowing anything about DSP.



The TenTec RX-320 is an example of a receiver which uses DSP to perform many of its functions, and it isn't too expensive, but some of the stand alone receivers with DSP are quite pricey. However, you don't have to break the bank to experiment with DSP, though you will need some technical skills, and some familiarity with the generic mixer and volume controls for your PC sound card.

Until fairly recently, dedicated DSP microprocessors were the only way to perform real-time DSP on any but the slowest digitized signals. Ordinary computers would not have been fast enough, especially as the PC processor is not optimized for the "multiply and accumulate" instructions needed for DSP. However, even the cheapest new computer boasts clock speeds well in excess of 1 GHz, so, in fact, a "normal" PC can easily perform near real time DSP instructions on data which is derived from well above audio frequencies. In addition, the standard computer is equipped with a sound card that includes an analog to digital converter for incoming signals of up to 22 KHz and a digital to analog converter with a similar frequency range. Combine that with a reasonably fast computer, and you already have the makings of your own DSP system.

What you need is the software to make your computer and its sound card act like a DSP enhanced receiver. If you go to <http://www.detomasi.it/en/project.html> you will find exactly this software, namely "IFDSP", as well as details on its implementation and use. It is free of charge and its developer, Italian radio amateur Vittorio De Tomasi, IK2CZL, is interested in getting comments from users. The software itself is quite painless to operate, but you will need to have the technical ability to build some hardware to make it work.

Although the software uses the PC sound card, it does not perform its processing on a demodulated audio signal from the receiver. Rather, the input to the sound card is at an intermediate frequency (IF); it replaces the receiver's detectors and adds to the receiver IF functions. There are two problems. First, the IF of most receivers is likely to be 455 kHz

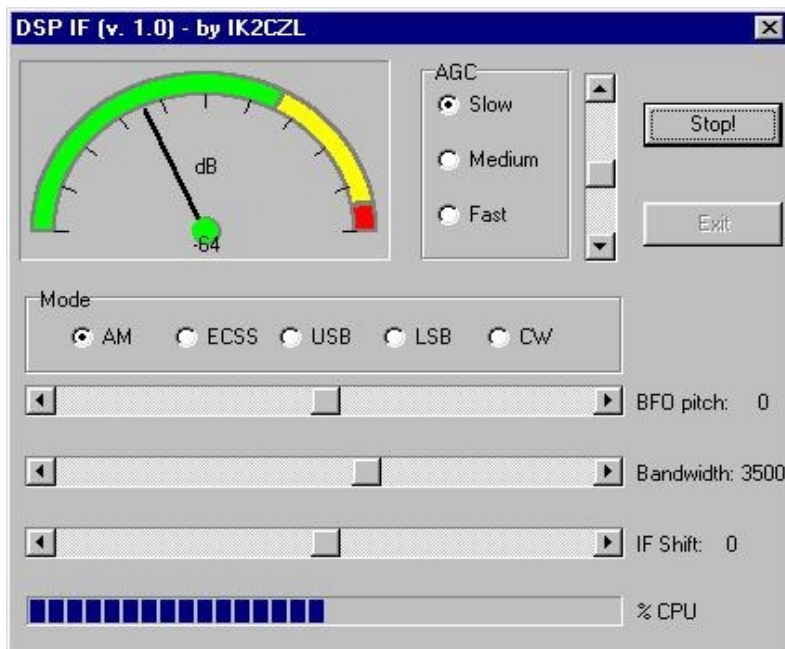


Figure 1 -- the IFDSP control panel

or even higher, but a sound card functions only up to 22 kHz. The user must provide a new IF signal of 10 to 18 kHz; fortunately, Vittorio provides a diagram on his web site for a simple circuit to convert your receiver's IF down to an IF suitable for input to a sound card. Secondly, most receivers do not provide an IF output on the back panel. If yours does, you are in business, otherwise, you will need the confidence (or a technically astute friend) to get inside your receiver and create a buffered 100 mV output from its IF stage.

Figure 1 shows the software's control panel. As Vittorio describes on his web site, the software provides:

- a level meter for measuring the IF signal level with 1 dB accuracy and 100 dB of range.
- an AGC control with three different time constants
- a volume control
- two buttons for starting/stopping/exiting the program
- a mode selector: AM is demodulated using a true square law detector, while the SSB and CW modes use a product detector. ECSS is "enhanced carrier selectable sideband", for superior demodulation of AM signals. When ECSS mode is selected, a self-synchronized notch is also inserted, which takes care of removing any interfering carrier(s) present on the frequency you are receiving.
- a BFO control allows adjustment of the BFO frequency with a resolution of 1 Hz
- a bandwidth control changes the selectivity of a group of cascaded filters from a minimum of 10 to a maximum of 6000 Hz. This bandwidth is continually tunable; these are not discrete steps.
- an IF Shift control allows the user to detune the filter center frequency, and enhance signals present in one or other of the sidebands.
- an indicator shows you how much CPU time your PC is using for DSP functions

To hear the output audio from this program, you use headphones or amplified speakers connected to the audio output jack of your sound card.

Vittorio occasionally comes to British Columbia on business trips, and on his last visit a few months ago, I was fortunate enough to get together with him and try out his software using the 455 kHz outputs from an AOR AR-7030 receiver, as well as from my homebrew receiver. Although I have mentioned fast PCs in connection with running this software, Vittorio runs it on a laptop with a 166MHz Pentium and Windows 95; it runs even more easily on faster PCs. Although he prefers to run the IF signal to the line input of the sound card, we were able to make it run successfully on the microphone input of a laptop which lacked a line input. One just has to be careful not to overdrive the sound card input with too much signal, and to be assured that there is no DC voltage provided by the microphone input, as that could damage the converter.

Although this software is a work in progress, the results were quite impressive. We were able to get at least as good quality audio from the software as the receivers alone provided, and on signals that were bothered by noise or interference, we were able to use the flexible controls to occasionally tease a bit more readability out than that of which the receiver alone was capable.

If you don't have IF shift or passband tuning on your receiver, find that you would like more IF bandwidths than your receiver provides, or an accurate signal strength meter, this may be a way for you to inexpensively add these functions to your present receiving setup. Vittorio is interested in improving the "IFDSP", as he points out that he is only using a fraction of the PC processing power available to him to provide the present features. Although he is planning on improving the shape factors of the present IF filters, the really interesting future development will be in providing superior demodulation schemes to that which we are used to in our present receivers. This may allow us to hear signals that are presently unreadable due to noise and interference.

## GEOMAGNETIC INDICES

Editor: Phil Bytheway

E-mail: phil\_tekno@yahoo.com

Geomagnetic Summary March 31 2003 through April 21 2003  
Tabulated from email status daily.

| Date | Flux | A  | K | Space Wx Today | Space Wx Forecast | Etc. |
|------|------|----|---|----------------|-------------------|------|
| 3/31 | 155  | 22 | 3 | minor          | no storms         | 8    |
| 4/ 1 | 160  | 26 | 3 | minor          | minor             | 8    |
| 2    | 153  | 16 | 3 | minor          | no storms         | 6    |
| 3    | 158  | 21 | 3 | no storms      | no storms         | 10   |
| 4    | 156  | 15 | 3 | no storms      | minor             | 10   |
| 5    | 153  | 24 | 3 | minor          | minor             | 8    |
| 6    | 137  | 22 | 4 | minor          | minor             | 9    |
| 7    | 126  | 8  | 2 | no storms      | no storms         | 5    |
| 8    | 116  | 6  | 1 | no storms      | no storms         | 5    |
| 9    | 112  | 18 | 5 | minor          | minor             | 9    |
| 10   | 109  | 26 | 3 | minor          | minor             | 6    |
| 11   | 104  | 27 | 4 | minor          | minor             | 7    |
| 12   | 103  | 14 | 3 | no storms      | no storms         | 8    |
| 13   | 102  | 8  | 2 | no storms      | no storms         | 6    |
| 14   | 102  | 11 | 2 | no storms      | no storms         | 2    |
| 15   | 102  | 15 | 3 | minor          | no storms         | 6    |
| 16   | 101  | 24 | 3 | minor          | no storms         | 5    |
| 17   | 99   | 26 | 4 | moderate       | no storms         | 5    |
| 18   | 101  | 26 | 2 | minor          | no storms         | 6    |
| 19   | 108  | 19 | 3 | minor          | no storms         | 5    |
| 20   | 112  | 13 | 3 | no storms      | no storms         | 6    |
| 4/21 | 119  | 17 | 2 | no storms      | no storms         | 6    |

## Arena Football League affiliates

Compiled by Dale Park, Honolulu HI

|               |                       |  |
|---------------|-----------------------|--|
| 860 KMVP-AZ   | Arizona RATTLED [1]   | Kent Derdivanis, Ron Wolfley                         |
| 107.7 WNSA-NY | Buffalo DESTROYERS    | Jim Brinson, Bob Trimble                             |
| 1240 WJTN-NY  | (affiliate)           |  |
| 1330 WSPQ-NY  | (affiliate)           |  |
| NONE          | Carolina COBRAS [2]   |  |
| 1000 WMVP-IL  | Chicago RUSH [3]      | Tom Dore-p, John Jurkovic, Marc Silverman-p          |
| 1300 WRDZ-IL  | (back-up)             |  |
| 760 KTLK-CO   | Colorado CRUSH [4]    | Mark Stout, David Diaz-Infante                       |
| 850 KOA--CO   | {opening game only}   |  |
| 1310 KTCK-TX  | Dallas DESPERADOS     | George Dunham, Greg "Greggo" Williams                |
| 1700 KTBK-TX  | (simulcast)           |  |
| 104.1 KTDK-TX | (simulcast)           |  |
| 1130 WDFN-MI  | Detroit FURY [5]      | Jamie Samuelsen, Marc Spindler                       |
| 790 WQXI-GA   | Georgia FORCE [6]     | David Hubbard, Ryan Stewart, Matt Chernoff-sidelines |
| 610 WPLO-GA   | {Spanish}             | Jose Medellin, Marcelo Godoy                         |
| 1340 WBBL-MI  | Grand Rapids RAMPAGE  | Joe Parson, Tom Sullivan                             |
| 950 WXLW-IN   | Indiana FIREBIRDS [7] | Ari Wolfe, Rob Blackman                              |
| 95.9 WPZZ-IN  | (simulcast)           |  |
| 1130 WSDX-IN  | (affiliate)           |  |

|              |                          |                                  |
|--------------|--------------------------|----------------------------------|
| 1300 WBOW-IN | (affiliate)              |                                  |
| 920 KBAD-NV  | Las Vegas GLADIATORS [8] | Andrew Siciliano, Mike Pritchard |
| 1460 KENO-NV | (back-up)                |                                  |
| 1150 KXTA-CA | Los Angeles AVENGERS     | Larry Kahn                       |
| 690 XETRA-CA | (simulcast)              |                                  |
| 540 WLIE-NY  | New York DRAGONS [9]     | Sid Rosenberg, Peter Schwartz    |
| 740 WQTM-FL  | Orlando PREDATORS        | Marc Daniels, Tom Morgan         |
| 1050 KTCT-CA | San Jose SABERCATS       | Bob Fitzgerald, George Atkinson  |
| 620 WDAE-FL  | Tampa Bay STORM [10]     | Jack Harris, Jason Dixon         |

NOTES: 1. Plays in Phoenix. 2. Moved from Raleigh, NC to Charlotte. 3. Plays in Rosemont, IL. 4. Expansion team; plays in Denver. 5. Plays in Auburn Hills, MI. 6. Moved from Atlanta to Duluth. 7. Plays in Indianapolis. 8. Moved from New Jersey Dec., 2002. 9. Plays in Uniondale. 10. Plays in Tampa. p. Partial schedule. Folded: Toronto PHANTOMS.

## Texas State Network – Radio Stations & Talk Shows

Rest of section compiled by Art Blair, Folsom CA

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Texas Overnight with Charley Jones | Neil Sperry's Lawn & Garden Show  |
| Texas Fishing and Outdoor Show     | The Lost Tapes with George Gimarc |

|                           |                         |                        |
|---------------------------|-------------------------|------------------------|
| 550 KCRS Midland          | 1340 KAND Corsicana     | 1580 KRZI Waco         |
| 590 KLBX Austin           | 1340 KHLB Burnet        | 1580 KTLU Rusk         |
| 600 KTBB Tyler            | 1340 KRBA Lufkin        | 1590 KEAS Eastland     |
| 690 KPET Lamesa           | 1340 KRNX Victoria      | 1590 KERP El Paso      |
| 710 KGNC Amarillo         | 1340 KWKC Abilene       | 1590 KGAS Carthage     |
| 860 KFST Fort Stockton    | 1350 KCAR Clarksville   | 1600 KOGT Orange       |
| 860 KPAN Hereford         | 1370 KFRO Longview      |                        |
| 900 KCLW Hamilton         | 1370 KJCE Rollingwood   |                        |
| 910 KNAF Fredericksburg   | 1390 KBEC Waxahachie    | 88.5 KEOM Mesquite     |
| 930 KDET Center           | 1390 KULP El Campo      | 92.1 KHOS Sonora       |
| 950 KJTV Lubbock          | 1400 KEBE Jacksonville  | 92.1 KTFW Glen Rose    |
| 960 KIMP Mt. Pleasant     | 1400 KEYE Perryton      | 92.5 KCUL Marshall     |
| 990 KAML Karnes City      | 1400 KGLV Greenville    | 92.5 KYKM Yoakum       |
| 1000 KSTA Coleman         | 1400 KIUN Pecos         | 94.1 KULF Brenham      |
| 1080 KRLD Dallas          | 1400 KRUN Ballinger     | 94.3 KSEY Seymour      |
| 1120 KJSA Mineral Wells   | 1400 KTEM Temple        | 94.7 KWKQ Graham       |
| 1130 KFAN Fredericksburg  | 1400 KVRP Stamford      | 95.3 KNEL Brady        |
| 1140 KCLE Cleburne        | 1410 KCUL Marshall      | 95.7 KBST Big Spring   |
| 1150 KZNE College Station | 1420 KFYN Bonham        | 95.9 KXIT Dalhart      |
| 1200 WOAI San Antonio     | 1450 KCTI Gonzales      | 96.7 KXOX Sweetwater   |
| 1220 KMVL Madisonville    | 1450 KCYL Lampasas      | 96.9 KXYL Brownwood    |
| 1220 KZEE Weatherford     | 1450 KMBL Junction      | 97.1 KVRP Haskell      |
| 1230 KSIX Corpus Christi  | 1470 KDHN Dimmitt       | 97.7 KATX Eastland     |
| 1230 KSST Sulphur Springs | 1490 KBST Big Spring    | 97.7 KVCQ Cuero        |
| 1240 KPBL Hemphill        | 1490 KWVC Vernon        | 97.7 KWRW Rusk         |
| 1240 KVLF Alpine          | 1490 KZZN Littlefield   | 98.3 KBOC Bridgeport   |
| 1240 KXIT Dalhart         | 1510 KCTX Childress     | 98.3 KCUB Stephenville |
| 1240 KXOX Sweetwater      | 1520 KHLT Hallettsville | 98.3 KEEP Bandera      |
| 1250 KIKZ Seminole        | 1540 KGBC Galveston     | 98.3 KFYZ Bonham       |
| 1260 KKSA San Angelo      | 1550 KCOM Comanche      | 98.3 KRDF Spearman     |
| 1290 KIVY Crockett        | 1550 KWBC Navasota      | 98.3 KULM Columbus     |
| 1290 KWFS Wichita Falls   | 1560 KEGG Daingerfield  | 98.3 KYYK Palestine    |
| 1300 KSET Silsbee         | 1560 KHBR Hillsboro     | 98.5 KRXT Rockdale     |
| 1320 KVMC Colorado City   | 1570 KVLG La Grange     | 99.1 KNES Fairfield    |
| 1330 KSWA Graham          | 1580 KGAF Gainesville   | 99.9 KMOO Mineola      |

99.9 KSHN Liberty  
 99.9 KTXM Hallettsville  
 100.3 KOMX Pampa  
 100.9 KIXC Quanah  
 103.1 KVWC Vernon

104.1 KWOW Clifton  
 104.3 KGAS Carthage  
 104.7 KZAM Ganado  
 105.9 KTCJ Centerville  
 106.3 KPAN Hereford

106.3 KSEM Seminole  
 106.3 KPSS Falfurrias  
 106.9 KKYN Plainview  
 107.1 KAUM Colorado City  
 107.7 KPLT Paris

## 2003 Wyoming Outdoors Radio Network

950 KMER Kemmerer, WY – Fridays 7:45 AM  
 1240 KRAL Rawlins, WY - Fridays 8:30 AM  
 1240 KTHE Thermopolis, WY – Fridays 11:10 AM & Saturdays 7:10 AM  
 1260 KPOW Powell, WY – Fridays 5:40 PM  
 1270 KIML Gillette, WY – Saturdays 8:20 AM  
 1330 KOVE Lander, WY – Fridays 6:40 AM  
 1340 KSGT Jackson, WY – Saturdays 8:15 AM  
 1340 KWOR Worland, WY – Saturdays 6:45 AM  
 1340 KYCN Wheatland, WY – Sundays 6:15 AM  
 1450 KBBS Buffalo, WY – Fridays 10:30 AM  
 1450 KBFS Belle Fourche, SD – Saturdays 6:06 AM  
 1470 KKTY Douglas, WY – Saturdays 7:05 AM  
 1490 KGOS Torrington, WY – Saturdays 6:40 AM  
 1490 KUGR Green River, WY – Saturdays 8:30 AM  
 1630 KKWY Cheyenne, WY – Saturdays 8:00 AM

92.7 KIQZ Rawlins, WY – Fridays 8:30 AM  
 96.1 KKLX Worland, WY – Saturdays 6:45 AM  
 97.5 KDLY Lander, WY – Fridays 4:30 PM  
 98.3 KERM Torrington, WY – Saturdays 6:40 AM  
 103.1 KYDT Sundance, WY – Saturdays 6:06 AM

## Imagination Theatre Station Listing

*All times are local*

560 KPQ Wenatchee, WA Sunday 11:00 PM  
 570 WNAX Yankton, SD Sunday 11:00 PM  
 590 WARM Scranton, PA Sunday 9:00 PM  
 600 KGEZ Kalispell, MT Sunday 11:00 AM  
 610 KDAL Duluth, MN Saturday 10:00 PM & Sunday 11:00 PM  
 620 WWRN Beckley, WV Saturday 8:00 PM, Sunday 6:00 AM & 7:00 PM  
 640 WFNC Fayetteville, NC Sunday 7:00 PM  
 650 KENI Anchorage, AK Sunday 9:00 PM  
 730 KULE Ephrata, WA Sunday 9:00 PM  
 730 WSCC Charleston, SC Sunday 9:00 PM  
 760 KFMB San Diego, CA Sunday 8:00 PM, Saturday 2:00 AM & 4:00 AM  
 770 KKOZ Albuquerque, NM Saturday 7:00 PM  
 780 WJAG Norfolk, NE Sunday 11:00 AM

790 KGMI Bellingham, WA Saturday 7:00 PM  
 800 CJAD Montreal, QC Sunday 4:00 AM, Sunday 7:00 PM  
 830 WCCO Minneapolis, MN Saturday 11:00-1:00 AM & Sunday Midnight  
 850 WRUF Gainesville, FL Sunday 10:00 PM  
 860 KPAM Troutdale, OR Saturday 11:00 PM & Sunday 9:00 PM  
 870 WHCU Ithaca, NY Saturday 9:00 PM  
 880 KIXI Mercer Island, WA Saturday & Sunday 9:00 PM  
 910 KCJB Minot, ND Sunday 4:00 PM  
 910 WEPG South Pittsburg, TN Friday 8:00 PM & Saturday 6:00 PM  
 910 WPFM Middletown, NY Saturday 6:00-8:00 AM & 6:00-8:00 PM

920 KSHO Lebanon, OR Sunday 6:00 PM  
 920 KXLJ Spokane, WA Saturday 9:00 PM  
 920 WMEL Melbourne, FL Tuesday 10:00 PM  
 930 WSLI Jackson, MS Saturday 6:00 AM  
 950 KMTX Helena, MT Saturday 6:00 PM & Sunday 8:00 PM  
 950 WSPA Spartanburg, SC Saturday 9:00 PM  
 950 WVTS Charleston, WV Sunday 9:00 PM  
 960 KALE Richland, WA Saturday 8:00 PM  
 960 WERC Birmingham, AL Sunday 9:00 PM  
 960 WFIR Roanoke, VA Sunday 8:00 AM  
 970 KNUU Paradise, NV Saturday & Sunday 9:00 PM  
 970 WTBK Troy, AL Sunday 4:00 PM  
 970 WWYO Pineville, WV Sunday 5:00 PM  
 980 WRNE Gulf Breeze, FL Sunday 9:00 PM  
 980 WSUB Groton, CT Sunday 9:00 PM  
 1010 KIQN Tooele, UT Sunday 9:00 PM  
 1100 WCGA Woodbine, GA Saturday & Sunday 5:00 PM  
 1110 KFAB Omaha, NE Saturday 6:00 PM & Midnight  
 1120 KPNW Eugene, OR Saturday 10:00 PM  
 1150 KQQQ Pullman, WA Sunday 10:00 PM  
 1150 KSAL Salina, KS Sunday 8:00 PM  
 1150 WNDB Daytona Beach, FL Saturday & Sunday 12:00 AM  
 1160 KENS San Antonio, TX Sunday 6:00 & 8:00 PM  
 1170 WDIS Norfolk, MA Sunday 12:00 Noon  
 1230 KATO Safford, AZ Saturday 6:00 PM  
 1230 KHDN Hardin, MT Saturday 9:00 PM & Sunday 8:00 PM  
 1230 KYSM Mankato, MN Sunday 8:00 PM  
 1230 WMFR High Point, NC Sunday 8:00 PM  
 1230 WODI Brookneal, VA Saturday & Sunday 9:00 PM  
 1240 KGY Olympia, WA TBA  
 1240 KICD Spencer, IA Saturday 11:00 PM  
 1240 WAYZ Hagerstown, MD Sunday 11:00 PM  
 1240 WCNC Elizabeth City, NC Sunday 9:00 PM  
 1240 WPAX Thomasville, GA Friday 10:00 PM  
 1270 WKBF Rock Island, IL Sunday 8:00 PM  
 1310 KNOX Grand Forks, ND Saturday 11:00 PM  
 1310 KXAM Mesa, AZ Saturday 5:00 PM  
 1310 WHEP Foley, AL Sunday 12:00 Noon  
 1310 WIBA Madison, WI Sunday 11:00 PM

1320 WJGR Jacksonville, FL Saturday 8:00 PM  
 1330 WCVB Tallahassee, FL Saturday 12:00 Noon  
 1340 KHUB Fremont, NE Sunday 9:00 PM  
 1340 KLKI Anacortes, WA Saturday & Sunday 9:00 PM  
 1340 KROC Rochester, MN Sunday 9:00 PM  
 1340 KTCR Kennewick, WA Sunday 8:00 PM  
 1340 KWLM Willmar, MN Sunday 7:00 PM  
 1340 WBIW Bedford, IN Sunday 10:00 PM  
 1350 WQNX Aberdeen, NC Saturday 3:00 PM & Sunday 10:00 AM  
 1360 KRWC Buffalo, MN Saturday 7:00 PM  
 1370 WHEE Martinsville, VA Saturday 6:00 PM  
 1380 KHEY El Paso, TX Saturday 9:00 PM (Website says KTSM)  
 1400 KAYS Hays, KS Sunday 7:00 PM  
 1400 KESQ Indio, CA Sunday 9:00 PM  
 1400 KODI Cody, WY Sunday 8:00 PM  
 1400 WANI Opelika, AL Sunday 6:00 PM  
 1400 WLLH Lowell, MA Sunday 8:00 PM  
 1400 WSTC Stamford, CT Sunday 9:00 PM  
 1410 KLFJ Litchfield, MN Saturday 9:00 PM & Sunday 6:00 PM  
 1410 KQV Pittsburgh, PA Sunday 8:00 PM  
 1420 WKWN Trenton, GA Saturday & Sunday 7:00 PM  
 1430 WOWW Germantown, TN Sunday 8:00 PM  
 1440 KMED Medford, OR Sunday 9:00 PM  
 1440 KVON Napa, CA Saturday 6:00 PM  
 1450 KOBE Las Cruces, NM Saturday 8:00 PM  
 1450 KTIP Porterville, CA Sunday 9:00 PM  
 1450 WCTC New Brunswick, NJ Saturday 6:00 PM, & Sunday 11:00 PM & 1:00 AM  
 1450 WGNS Murfreesboro, TN Saturday 8:00 AM  
 1450 WKXL Concord, NH Saturday 9:00 PM  
 1470 WBKV West Bend, WI Saturday 4:00 PM  
 1490 KRSN Los Alamos, NM Sunday 10:00 PM  
 1490 KUGR Green River, WY Sunday 8:00 PM  
 1490 WNDA Deland, FL Saturday & Sunday 12:00 AM  
 1490 WSTP Salisbury, NC Sunday 6:00 AM  
 1500 KJIM Sherman, TX Sunday 8:00 AM  
 1520 WKVQ Eatonton, GA Sunday 9:00 PM  
 1540 WBTC Uhrichsville, OH Saturday 5:00 PM

1570 KPYK Terrell, TX Sunday 2:00 & 9:00 PM  
 1580 WLIM Patchogue, NY Saturday 8:00 PM  
 1590 WSMN Nashua, NH Sunday 5:00 PM  
 1600 WAAM Ann Arbor, MI Sunday 6:00 PM & 10:00 PM  
 1620 WHLY South Bend, IN 8:00 PM  
 89.9 KUNM Albuquerque, NM Sunday 10:00 PM  
 91.5 KTXK Texarkana, TX Friday 6:00 PM & Saturday 8:00 PM  
 93.5 WCFR West Lebanon, NH Sunday 8:00 PM  
 93.9 WMXR Woodstock, VT Sunday 8:00 PM  
 94.1 KTIL Tillamook, OR Sunday 7:00 PM  
 94.7 WTBF Troy, AL Saturday 4:00 PM  
 95.7 KDAL Duluth, MN Saturday 10:00 PM & Sunday 11:00 PM  
 96.9 KQRV Deer Lodge, MT Sunday 9:00 PM  
 96.9 WXBQ Bristol, VA Sunday 9:00 PM  
 97.7 WBKK Amsterdam, NY Sunday 10:00 PM  
 98.9 WSPA Spartanburg, SC Saturday 9:00 PM  
 99.9 KXLY Spokane, WA Saturday 9:00 PM  
 102.3 WFNC Lumberton, NC Sunday 7:00 PM  
 103.7 WRUE Gainesville, FL Sunday 10:00 PM  
 103.5 KYSM Mankato, MN Sunday 8:00 PM  
 103.9 WLEN Adrian, MI Sunday 6:00 PM  
 104.3 KLKS Breezy Point, MN Sunday 8:00 PM  
 104.7 WAYZ Hagerstown, MD Sunday 11:00 PM  
 106.9 KROC Rochester, MN Sunday 9:00 PM

### Mid America Ag Network

610 KCSR Chadron, NE  
 790 KXXX Colby, KS  
 1060 KNLV Ord, NE  
 1150 KSAL Salina, KS  
 1230 KHAS Hastings, NE  
 1280 KCNI Broken Bow, NE  
 1290 KWLS Pratt, KS  
 1370 KAWL York, NE  
 1370 KGNO Dodge City, KS  
 1440 KMAJ Topeka, KS  
 1460 KKOY Chanute, KS  
 1460 KKPR Kearney, NE  
 1510 KKNS Larned, KS  
 1550 KICS Hastings, NE  
 1560 KABI Abilene, KS  
 1570 KNDY Marysville, KS  
 92.1 KREP Belleville, KS  
 92.7 KILS Minneapolis, KS  
 92.9 KANS Osage City, KS  
 94.1 KDNS Downs, KS  
 95.3 KINZ Humboldt, KS  
 95.5 KNDY Marysville, KS  
 95.5 KOLS Dodge City, KS  
 95.5 KSDZ Gordon, NE  
 96.7 KGTR Larned, KS  
 96.9 KCMJ Terrytown, NE  
 100.3 QQLS Colby, KS  
 101.1 KFNF Oberlin, KS  
 101.3 KFDI Wichita, KS  
 101.5 KSLS Liberal, KS  
 103.9 KNLV Ord, NE  
 105.5 KKOY Chanute, KS  
 107.9 KZLS Great Bend, KS

### Northern League Radio

**Fargo-Moorhead Redhawks**  
 970 WDAY Fargo, ND  
**Gary SouthShore RailCats**  
 1230 WJOB Hammond, IN  
**Joliet Jackhammers**  
 1340 WJOL Joliet, IL  
**Lincoln Saltdogs**  
 1240 KFOR Lincoln, NE  
**Kansas City T-Bones**  
 TBA  
**Schaumburg Flyers**  
 89.1 WONC Naperville, IL  
**Sioux City Explorers**  
 1360 KSCJ Sioux City, IA  
**Sioux Falls Canaries**  
 1230 KWSN Sioux Falls, SD  
**St. Paul Saints**  
 950 KCCO St Louis Pk, MN  
**Winnipeg Goldeyes**  
 680 CJOB Winnipeg, MB

### 2003 Michigan Talk Radio Network

640 WMFN Zeeland  
 660 WMIC Sandusky  
 750 WWKK Petoskey  
 790 WSGW Saginaw  
 830 WMMI Shepherd  
 940 WIDG St. Ignace  
 960 WHAK Rogers City  
 1110 WJML Petoskey  
 1210 WLDR Kingsley  
 1220 WBCH Hastings  
 1230 WTKG Grand Rapids  
 1240 WIAN Ishphering  
 1310 WXDX Dearborn  
 1320 WDMJ Marquette  
 1340 WMTE Manistee  
 1380 WPHM Port Huron  
 1400 WSJM St. Joseph  
 1430 WION Ionia  
 1450 WKLA Ludington  
 1450 WMIQ Iron Mountain  
 1460 WBRN Big Rapids  
 1480 WSDS Salem Township  
 1490 WABJ Adrian  
 1530 WLSP Lapeer  
 1590 WTVB Coldwater

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 40 times a year (weekly from September to April, twice monthly from May to August) and in printed form 35 times a year (weekly September to April, monthly May to August). **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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| Australia/NZ/Japan (group 4) | \$10 | \$46 | \$51     |
| Rest of world (group 5)      | \$10 | \$43 | \$48     |

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For information on **subscribing to the IRCA reflector** at Topica, a group e-mail service, contact the moderator, Lynn Hollerman at [lynn@eatel.net](mailto:lynn@eatel.net)

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