40 .. Confirmed DX'er 42 .. Formats
44 .. Pro Sports Nets 45 .. Visit to Kintronics
47 .. KJIG-1610

DX News
* Serving DX'ers since 1933 *

Volume 63, No. 30 - September 16, 1996 (ISSN 0737-1659)

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CPC Test Calendar

<table>
<thead>
<tr>
<th>WYTI</th>
<th>VA</th>
<th>1570</th>
<th>Oct 5</th>
<th>0000-0030</th>
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<tr>
<td>WAFP</td>
<td>MS</td>
<td>961</td>
<td>Oct 7</td>
<td>0200-0230</td>
</tr>
</tbody>
</table>

WYTI-1570 - PO. Box 430 - Rocky Mount, VA 24151 will conduct a DX test from 1200-1230 am EDT on Saturday, October 5, 1996. The test will include Morse code IDs, test tones, voice IDs, and bluegrass music. Power will be 2500 watts nondirectional (5000 Watts if a power increase is granted before the test date). Reception reports may be sent to: Mr. Earl Shelton, Operations Manager. Arranged by J.D. Stephens for the IRA CPC.

WAFP-961 - PO. Box 1649 - McComb, MS 36468 will conduct a DX test between 200 and 230 am EDT Monday, October 7, 1996. The test will include march music, polkas, test tones, voice IDs, and Morse code IDs. Power for this test will be 5000 watts nondirectional. Reception reports may be sent to: Mr. Richard Watts, Chief Engineer. Arranged by J.D. Stephens for the IRA CPC.

DX'ers of the year ... Announced at the NRC convention as Domestic DX'er of the year was long-time member Kermit Geary; and accepting the award as International DX'er of the year was Al Merriman. Congratulations, gentlemen, for your contributions to the hobby and the NRC.

From the Publisher ... Jeff Tynan has stepped down as the NRCC CPC chairman as the result of too much "airtime"... he's a pilot, and his job has given him more time flying than he felt that he could juggle and do justice to the CPC chairmanship. If you're interested in taking over his job, please apply directly to Wayne Heinen (see p. 29 for addresses). You should possess a PC with word processing/mail merge capability, and it's a definite plus if you can send and receive E-mail. In the interim, J.D. Stephens has volunteered to help us out; he'll accept your target stations until a new CPC chairman steps forward. Send 55 cents in stamps per station on your target lists to him at 106 Anita Drive - Madison, AL 35758-7163.

A hearty thank-you to Steve Francis and friend Carolee for a relaxed, fun-filled 1996 NRC convention in Knoxville. Attendance was in the middle forties, and the auction netted over $380 (with thanks to Roger Giannini, who bought more than he could take home on the plane, and to John Malicky, who bid me up on several coffee cups.

(continued on page two)

DXN Publishing Schedule, Volume 64

| 7. Nov. 8   | Nov 18  | 22. Mar 7   | Mar 17 |
| 10. Dec. 9  | Dec 24  | 25. Apr 1   | Apr 21 |
| 11. Dec. 16 | Dec 26  | 26. May 9   | May 19 |
| 15. Jan 10  | Jan 30  | 30. Sept 12 | Sept 22 |

DX Time Machine

From the pages of DX News:
50 years ago ... from the September 14, 1946 DXN. The new club officers were announced as follows: J.O. Kelley, President; Leo Herz, Vice-President; Dick Cooper, Board Chairman; and Ernie Cooper, Bulletin Editor. The former editor, Ray Edge, would continue as Publisher.

25 years ago ... from the September 11, 1971 DXN. Don Erickson won the "Man of the Year" award from ANARC ... Greg Haggard reported the new call of XEPR-1090 from XEBL, and a format change to match their slogan of the "Soul Express".

10 years ago ... from the September 22, 1986 DXN. Mexico and the U.S. signed a long-discussed treaty allowing fulltime or extended-hour operations by U.S. stations on Mexican clear (540, 750, 800, 900, 1050, and 1220 kHz) on August 28.
(continued from page one)

(hi), not to mention many others who took home prizes (how about another WOW storm coverage map?)

Dave Schmidt has joined the net surfer generation

his new E-mail address is Midatlrad@tul.com. Send him a Musing there; make him learn how to use his new computer, hi! Also, please note that DDXD-East editor Dave Yoos’ new E-mail address is dayoxic@webspan.net.

The Log is nearing the final stages for printing, and Ken Chatterton is accepting orders (at the same prices as the last several editions) for the 17th edition, which will be shipped after October 1. A few copies of the 16th edition are available, if you’re interested.

NRC Ham List … Don’t forget to update your listing for the NRC Ham List; if you are not in the list, and you want to be, the only thing you need to do is send Fred Vobbe the following information:

Name, Call, and up to 40 characters of information to describe where you operate. Note that if you send him more, he reserves the right to edit to make sure it fits in the 40 characters in the database. No exceptions.

Indiana GTG … Rick Dau is hosting the 3rd Annual DX Mid America GTG on Saturday, October 12, at the Ramada Inn in Lafayette, IN. The fun starts at 5 pm Saturday and will end shortly before noon Sunday. To reserve a room ($59 single, $67 double), you call 317-447-9460 or 800-2-RAMADA. The Ramada is located at 4221 State Rd. 26 E, close to US 172 and I-65; for more info, call Rick at 317 447 2714.

FCC funnels … Finally, Mike Hardesty sends along the following story from the 19 August 1996 issue of Network World

“FCC Chairman Reed Hundt would be practically tied to his office under a provision slipped into a bill introduced by Rep. Jack Fields (R-Tex.) and Rep. John Dingell (D-Mich). The provision would bar the perpeticus Hundt from traveling more than 50 miles from FCC headquarters for the next two years.”

Add Mike: “Wonder if they could slip in such a requirement for Congressional members and staff?”

Welcome to these new members … Wayne J. Benkinney, Burton, MI; Dave Erickson KF7NTK, McMinville, OR; Robert L. Foxworth, Lake Grove, NY; Barton M. Lee, Park Ridge, NJ; Robert Hollbrook, Morgan City, LA; George S. Darling, Penryn, CA; Stephen A. Druzkak, Champlain, NY; Raymond Gendron, Lacombe, Alberta; Scott E. Barnett, Detroit, MI; Don Fleischman, La Crescenta, CA; Tom Ashley AAAA, Marshfield, MA; Robert E. Moore, Sr., Santa Ana, CA; Thomas Frowest, Robbinsville, NJ; George Hamer, Brooklyn, NY; Randy Bledsoe, Bellon, MO; Robert Hollbrook, Morgan City, LA; Barton M. Lee, Park Ridge, NJ; Stephen A. Druzkak, Champlain, NY; George S. Darling, Penryn, CA; Theodore R. Hall, Vienna, WV; Bob Gilbert, New Ringgold, PA (rejoins); Cisce Room, Luton, England (rejoins); Fred Osterman, Reynoldsburg, OH (rejoins); Col. Gene Paul Rust, Keller TX (rejoins).

UPDATE FROM THE NRC AM RADIO LOG, 16TH EDITION, compiled from mem-

The Log is now being published in print and on the Internet. It is currently available in PDF format and can be downloaded from http://www.nrcamlog.com. The next edition is scheduled for publication in late October 2023. The price is $16.95 for U.S. and Canadian members, $22.95 for non-members.

Orders of the NRC AM Radio Log, 16th Edition, are now being accepted for shipping in early October at the same prices as last year!
 assignments? Well, here we go again. Following the March 1996 release of the new band plan reconsideration resulted in a 17-month delay and complete reconfiguring of the table of frequencies.

Some of the stations requesting reconsideration were tendered, most of them from stations that were on the Plan One list but were dropped from the second version. Some of the stations requesting reconsideration were WNED-970, WBBG-1470, WPWA-1590 and KQXI-1550 whose petition states that "something has gone very wrong in this proceeding." Representative Curt Weldon of Pennsylvania filed an objection on behalf of WPWA noting not a single station in Pennsylvania got an X Band assignment and objecting to the assignment of only one station nationwide to 1610 kHz because of the numerous TIS operations here and stated "Now that you have expended the band it seems practical to reassign TIS stations to the 1710 range, allowing the 1610 frequency to be used by numerous radio stations, such as WPWA." The FCC must now resolve each of these eight petitions before any further X Band stations can be licensed and it is very likely a further calculation of the assignment table may take place. If this is the case then THAT list will be subject to further petitions. It is quite possible that only the very young members of the NRC or possibly their children, will live long enough to hear more than two X Band stations on the air.

The Laura Lee Show Station List

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<tr>
<th>State</th>
<th>City</th>
<th>Station</th>
<th>Dial</th>
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<td>KARN</td>
<td>920 AM</td>
<td>Central</td>
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<td>AZ</td>
<td>Tucson</td>
<td>KNST</td>
<td>790 AM</td>
<td>Pacific</td>
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<td>AZ</td>
<td>Flagstaff</td>
<td>KVNA</td>
<td>600 AM</td>
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<td>San Luis Obispo</td>
<td>KGLW</td>
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<td>Pacific</td>
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<td>CA</td>
<td>Redding</td>
<td>KQMS</td>
<td>1400 AM</td>
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<td>CA</td>
<td>Lancaster</td>
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<tr>
<td>CA</td>
<td>Modesto</td>
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<td>FL</td>
<td>Fort Myers</td>
<td>WINK</td>
<td>1240 AM</td>
<td>Eastern</td>
</tr>
<tr>
<td>FL</td>
<td>West Palm Beach</td>
<td>WJNO</td>
<td>1230 AM</td>
<td>Eastern</td>
</tr>
<tr>
<td>ID</td>
<td>Boise</td>
<td>KIDO</td>
<td>630 AM</td>
<td>Mountain</td>
</tr>
<tr>
<td>KY</td>
<td>Lexington</td>
<td>WVLK</td>
<td>590 AM</td>
<td>Eastern</td>
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<tr>
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<td>St. Louis (Belleville IL)</td>
<td>WBIV</td>
<td>1260 AM</td>
<td>Central</td>
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<tr>
<td>MO</td>
<td>Washington</td>
<td>KFDF</td>
<td>1220 AM</td>
<td>Central</td>
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<td>Columbia</td>
<td>KFRO</td>
<td>1400 AM</td>
<td>Central</td>
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<td>St. Paul / Minneapolis</td>
<td>KSTP</td>
<td>1500 AM</td>
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<td>570 AM</td>
<td>Eastern</td>
</tr>
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<td>Lebanon</td>
<td>KQAL</td>
<td>1580 AM</td>
<td>Pacific</td>
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<td>OR</td>
<td>Portland</td>
<td>KXL</td>
<td>750 AM</td>
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<td>OR</td>
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<td>950 AM</td>
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<td>620 AM</td>
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<td>WA</td>
<td>Anacortes</td>
<td>KLLA</td>
<td>1340 AM</td>
<td>Pacific</td>
</tr>
<tr>
<td>WA</td>
<td>Ellensburg</td>
<td>KXLE</td>
<td>1240 AM</td>
<td>Pacific</td>
</tr>
<tr>
<td>WA</td>
<td>Seattle</td>
<td>KVI</td>
<td>570 AM</td>
<td>Pacific</td>
</tr>
<tr>
<td>WA</td>
<td>Spokane</td>
<td>KGA</td>
<td>1510 AM</td>
<td>Pacific</td>
</tr>
<tr>
<td>WA</td>
<td>Yakima</td>
<td>KUTI</td>
<td>980 AM</td>
<td>Pacific</td>
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<tr>
<td>WA</td>
<td>Pullman</td>
<td>KQQQ</td>
<td>1150 AM</td>
<td>Pacific</td>
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<td>Madison</td>
<td>WTDY</td>
<td>1480 AM</td>
<td>Central</td>
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<td>Milwaukee</td>
<td>WBKV</td>
<td>1470 AM</td>
<td>Central</td>
</tr>
</tbody>
</table>

**Problems, Problems?**

We can't solve all your woes, but we can solve your DX News problems. Turn, sold, partially-printed, MIA, or worst of all, delivered in a USPS plastic baggie? No need to return the monthly postcard to NRC-23780 SE Illinois Ave. - Topica, KS 66605, and a replacement copy will be mailed free. Missing back issue? Replacement copies from Vol. 56 on, to present NRC members only, are sent for the cost of first-class postage. - Quantities will be sent back rate if and only if you receive the package and verify the postage amount.

**See? No problem!**
Yocis report. And thanks are who live in the Central, Mountain and Pacific Time Zones. All —~~— are every Saturday for regular mail, and Sunday noon for is the weekend of September 21-22, with little splash. Exalted carrier reception has far better audio than the R-5000. Its got me are snippets of Items credited to ostings on the Internet (Inet) are not “official”.

— 97 Clinton Ave. ~dihr Wayne Tosfiba RP-$11.

— Bo S-TN. Eavesdropper antenna or DX-390 phasing unit, 40db pre-amp, excepting “Welcome” to all new members, especially those who live in the Central, Mountain and Pacific Time Zones —~~— points west. Don’t be a silent member. Share what you’re hearing, so others may compare their logs. I found an interesting (at least to me) site on the Internet which you may want to check out. CHUM has archived almost all of its top 10 surveys from July 1993 to May 1998 (over 1500) and are available for your perusal at "www:/http://1050.chum.com". Besides the surveys are snippets of CHUM history and bio’s of some of their former DJs. Check it out.

— Reported to postings on the Internet (Inet) are not “official”. So if anyone in the area mentioned can either confirm or deny these reports, please step forward. Next deadline here is the weekend of September 21-22, then we’re back to the weekly schedule. Then deadlines are every Saturday for regular mail, and Sunday noon for E-Mail. Remember, E-Mail delivery is not instantaneous, especially if you’re on Prodigy, CIS or AOL. So don’t wait till the last minute to get your mail and postings and tips on the “Internet.

REPORTERS
TRIH-CA Tim Hall Chula Vista ICF-2010 + KWA Loop <msm1772@prodigy.com>
TRIH-CA Tim Hall DXing 1 mile from home ICF-2010, 1650’ terminated beverage aimed East
JR-OK John Reed Ponca City modified Sylvania R1414/URR + Noise reduced wire, KIWA FM, 4450, ANC-4 phasing
DS-TN Doug Smith Pleasant View news <Jul777.3134@compuverse.com>
SWI Sheryl Paszkiewicz Manitowoc Drake R8 + Eavesdropper antenna or DX-390 + whip
DE-MO Dennis Elya Jefferson City GE Superadio III barefoot <deelya@computerland.net>
JR-CA Jim Renfrew (Rocky, NY) DXing from San Diego Sony 2010, Radio West Loop <jimrenfrew@delphi.com>
RK-IL Robert Kramer, N9MBK Chicago NRD-553DB, Radio West Loop, 175’ N’S & 90’ W/URR wire antenna, 1900 channel unit, 40db pre-amp, Kantronics Signal Enhancer Peak/Notch Filter <kdx@ao1.com>
SA-MB Shawn Axelrod Winnipeg ICOM R-70 w/cuttle boards and PLAM board + 4 box loop/Quantum Loop/100’ indoor lw <saxelrod@mb.sympatico.ca>
SAP-STX Stephen Potter (Houston, TX) DXing at Mobile GE Superadio III, Toshiba RF-F11, Magnavox D-1875 + Radio West Shotgun Loop <sponder@milleniumim.com>
SAP-FL Stephen Ponder (Houston, TX) DXing at Mobile GE Superadio III, Toshiba RF-F11, Magnavox D-1875 + Radio West Shotgun Loop
WH-CO Wayne Heinen Aurora Subaru Car radio
Ed-NM Editor Alamogordo ICF-2010 barefoot

K-Z 100 AM STEREO

UNIDS and UNID HELP
902 UNID - 9.2 0238 - Not sure if Mexican or domestic. Man in Spanish mentioned FM 105.9 along with garbled slogan. (TRIH-CA)
860 UNID - 7/11 2345 - With Sports Byline program. Poor-to-fair, under Quebec. (SWI) [I think you mean CBC Toronto, Ontario — Ed.]
1016 UNID - 9/1 2251 - With Sports program, “Radio West” slogan. (SWI)
1030 UNID - 6/9 2132 - With Minnesota Twins game, mention of “Hometown” on CBS Sports. (SWI) [Editors note: Sheryl reported this as WCSI, but now is calling in an UNID. The logging was challenged by another CPB(R)er, stating that WCCO would be only station in the Minneapolis market carrying the Twins. So, let’s help out here. Who on 1030 carries the CBS Game of the Week, and would be visiting Eastern Wisconsin on July 9-10?]?
1240 UNID - 9/1 2140 - With CBS football. Even with, and sometimes over, local KDZ2 (ex-KSON). Suspect unneeded KJAA-AZ. (TRIH-CA)
1280 UNID - 7/17 0520 - “One on One Sports”. (JR-CA)
TIS & OTHER STUFF

530 WTO624 MN - 8/15 0745 - Poor signal, with highway info for Minnesota and North Dakota, but mentioned Minnesota Department of Highways. Not sure of location as not given with ID. (SA-MB)

1610 KCP270 UT - Vernal - 6/15 0637 - Poor signal, with mentions of the National forest and Vernal sites. NEW. (SA-MB)

1620 TIS CA San Diego - 7/6 1930 - New station noted with tape loop (male voice). Welcome to the Voice of the San Diego Convention Center on AM 1620. This initial broadcast is for test purposes only.

RNC CA San Diego - 7/8 2220 - Welcome to San Diego. You're listening to the voice of the San Diego Convention on AM 1620. This initial broadcast is for test purposes only.

MIDNIGHT TO 0800 HOURS ELT

590 KCSJ CO Pueblo - 8/8 0502 - Fair-to-good with Qvalite ad in CBS News, Newsradio 59 KCSJ and into Art Bell rerun with discussion on the construction of the pyramids in Egypt. I've noticed his finally begun to ID his network as the American CBS Radio Network. It's about time, Art. [Ed. NM]

620 KAAM TX Plano - 6/15 0000 - Numerous Unforgettable 620 KAAM ID's and local program, KAAM's Saturday Night Sock Hop. Announcer's name was Jack Carlisle, featuring slow dance songs from 50's & 60's. Bloomberg Network News at 0000 into local weather forecast at 0002. Slight fades; adjacent channel KLIT-610 was null out. is this station the result of KWFT in Wichita Falls, TX, going silent? (SP-TX) [This is the former KWFT, after moving lock, stock and cox about 90 miles to the southeast - Ed.]

630 KHOW CO Denver - 8/23 0400 - Fair signal, with clear KHOW-ID, in CFCCO null.

CFCO ON Chatham - 8/23 0346 - Fair signal, with no sign of local CKRC, so logged this guy instead. CKRC back by 0600. (SA-MB)

660 KCRO NE Omaha - 7/10 0700 - Religious talk with ID. (JR-OK)

840 KVEG NV North Las Vegas - 8/29 0755 - Weak, caught ID then stronger local stations started programming. (JR-OK)

980 WCUB WI Two Rivers weather, then C&W music. Alone on channel. (DE-MO)

1010 KXEG AZ Tolleson - 7/17 & 0359 - ID and mention now with 7500 watts. (JR-CA)

1030 WCTS MN Maplewood - 7/14 0630 - Weak, but alone, with sign-on. (RR-IL)

1220 KQEQ CA Fowler - 8/29 0208 - Good, with ID: KQEQ, Fowler and Fresno's kickin' AM. Not heard in a long time. (JR-CA)

1320 KWBN AR Ft. Smith - 7/18 0742 - With Newstalk 1320 KWBN and farm report. (JR-OK)

1470 WLOL MN - Brooklyn Park - 7/20 0252 - Presumed one, in partial WMBD phase, with NOS & 1400 KLBB IDs. (RR-IL)

1490 KYCA AZ Prescott - 7/17 0306 - Noted in mess with sign-off announcement. (JR-CA)

1550 WCTZ TN Clarksville - 7/11 0044 - ID popped in over a mess of others, then was gone (I was lucky). NEW. (DE-MO)
Mark Burns sends along some photos of his outdoor shack on DXpedition with Robert Pete this summer ... including a picture of Bob performing everyone's favorite DXpedition task, rolling up the Beverage wire! And some interesting DX paraphernalia appear in the photos... the tire jack serving as a ground rod-installer, and what appears to this city slicker to be a 22 rifle, (for chasing away the QRM?!) Maybe we should start petitioning for a legal column in DX News! (You bet, if we have the room! -phs.) My apologies to Mark for omitting some of his logs in the last issue. Welcome back to Jeff Katz, who sends us some logs from western Virginia. And thanks to those who sent 150 updates from their vacation travels.

**STATION NEWS**

900 WKDW VA Staunton - 8/31 2123 - These guys are in every night now, and seem to be staying on the air 2400 watts, rather than powering down. This is Big Country! Their far away AM 900 WKDW ... we specialize in songs you won't hear anywhere else in the Shenandoah Valley," over/under WEXJ. (JK-VA)

910 WLAS NC Jacksonville - Note the ID "The Bob and Bette Show" ... and the name on Bell Fork Rd. are history. (MH-NC)

1000 WMVP IL Chicago - 8/16 0100 - In loud, with slight QRM from Colombia, XEOY, with WLUP97.9 FM simulcast, "It's nighttime on the Loop 97.9 FM stereo, and WMVP AM 1000 in glorious mono." Here's a replacement for WOWO, reminds me of WCFL. (JK-VA)

8/27 0450 - Heard simulcasting with FM'er WLUP, hard rock program in the mornings, also carries Dr. Demento on early morning weekends. New addition.

1060 WHFB MI Benton Harbor - 7/31 1110 - Noted with "AM 1060" non-ID and satellite 70's format, ex-NOS, from Westwood One. (PB-MI)

1090 WKTE NC Greensboro - Noted "WAMU" is now the dominant station here, re heard in Greensboro. (PCPA)

1100 WATM OH Cleveland - 8/17 2101. "WATM National Weather Service forecast" in local news, to ESPN sports. Ex-WWWE. (DY-NY)

1110 CKTY ON Sarnia - 8/16 0105 - In nightly, sometimes actually atop WBT, with C&W. DA messed up? (JK-VA)

1160 WJJD IL Chicago - 8/15 0249 - In fair, with what sounded like "AM 1160 WJJD," and then NOS? Have they switched back to NOS? (JK-VA)

1190 WLJN NY New York - Per 8/10 Newark Starker-Ledgers, has been granted special FCC authorization to remain on the air until 2300 to cover the Republican and Democratic conventions. (JR-ML)

+ 8/26 2126 - With convention broadcast, also the following night 2300, off abruptly 2307. Generally underneath WOWO the first night, on top of WOWO the second. (JCT-RI)

1210 WPTS PA Philadelphia - 9/1 2200 - "Philadelphia's Talk Station," ex-WGMP "The Game" (BC-TN)

1340 WWPA PA Williamsport - 8/13 1440, 8/14 0530 - Noted off the air while in Williamsport. Silent or transmitter trouble? (MHPPA)

1370 WEGM RI Wickford - 8/15 1600 - ID "WEGM Wickford-North Kingston." Sometimes in July, don't take this ID as current. I've heard both WEGM-Wickford and Queson Point, so maybe both. (JCT-RI)

1410 WRCV MI Grand Rapids - 8/11 - Switched to these calls and a format of traditional country, slogan "Real Country 1410." Ex-WQCD, and no longer / 97.9 FM. (PB-MI)

1450 WCEI NC Spring Lake - 8/2 1030-1100 in Fayetteville NC - Believed this one, listed as silent in Log, simulcasting WMFA-1440 with GOS music. Two garbled IDs which sounded like WMFA and "W&F" NC News Network at 1055, ID 1059. Poor to fair at best. (MH-NC)

1470 WJDI MD Salisbury - 8/16 2230 - In with UC and "The Touch" IDs, over WMMD, CHZ EO. This is now the dominant station here, replacing formerly strong WMMD. Seems way too loud for 43 watts (hi, DSJ?) (JK-VA)

1490 WFLB NC Fayetteville - 8/2 1020 in Fayetteville NC - Noted silent. Has been heard in the past, so don't know if off air or transmitter problems. (MH-NC)

1550 WKQV PA Pittston - 8/16 1054 - With this ID, finally, in joint ID with WARM-590 and WKQ-FM-95.7. Now seems to be 100% / 960, mostly IDing as just WARM and giving all three frequencies. That should wrap up this saga. (DY-NY)

+ 8/20 0800 - ID for "Warm Radio, AM 590, AM 1550, FM 95.7," no legal ID or mention of Pittston. (BC-PA)

**GRAVEYARD DX UPDATE**

* indicates North American record holder

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<thead>
<tr>
<th>Calls</th>
<th>Stn</th>
<th>Lrnt</th>
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| KGXK | 1340 kW | NY | Runcor...
WGST-FM on 8/11 0434. Fourth station in five minutes on this Underlover mix. 20:15 (RCP-IN) 0440, "Under sudden rain, it's a Armada mix!"

1180 WJES (WXYZ) Dayton, 7/31 0306-0315, "The Voice of Kane County, "The station that plays your favorite songs.""

1200 WQTM (which creates a peak at CA sunset and again in the early AM. New, for CA stations, saying, 'The station that plays your favorite songs.'"

1260 WRMR IL Elgin, 7/23 0534 - "The Voice of Kane County," mention of People's Radio Network. Poor, much QRM from WING, WGLN, WCPN (RCP-IN)

1280 WPCG MD Washington, 7/17 0024, "Club 95, WPGC 95.5 FM" IDs, the station that plays your favorite songs, WPGC 95.5 FM. No sign of WRSA, 7/17 0415, "Fair with SS REL, ID and scripture in EE, over WTRM, 1340."

1300 WRMR IL Elgin, 7/23 0534 - "The Voice of Kane County," mention of People's Radio Network. Poor, much QRM from WING, WGLN, WCPN (RCP-IN)

1320 WQTM (which creates a peak at CA sunset and again in the early AM. New, for CA stations, saying, 'The station that plays your favorite songs.'"

1340 WILL CT Willimantic - 8/9 0540 - ID, "AM 14," program "America in the Morning." (WM-MD)

1360 WPGC MD Washington, 7/17 0024, "Club 95, WPGC 95.5 FM" IDs, the station that plays your favorite songs, WPGC 95.5 FM. No sign of WRSA, 7/17 0415, "Fair with SS REL, ID and scripture in EE, over WTRM, 1340."

1380 WQTM (which creates a peak at CA sunset and again in the early AM. New, for CA stations, saying, 'The station that plays your favorite songs.'"

1400 WQTM (which creates a peak at CA sunset and again in the early AM. New, for CA stations, saying, 'The station that plays your favorite songs.'"

1420 WQTM (which creates a peak at CA sunset and again in the early AM. New, for CA stations, saying, 'The station that plays your favorite songs.'"

LOGGINGS: 0600-0800 ELT

510 CMA ON Brampton - 8/23 0433 - Ethnic format. ID in EE 0430 followed by a jazz tune, host of show speaking in unique language. Very good, steady. (RCP-IN)

540 WDAK GA Columbus - 8/5 0605 - With One-One-On Sports / WQTM (which creates an echo), and ID: "AM 540, WDAK, Columbus." (RCP-IN)

540 WJQX WA Chicago - 8/11 0412 - Becoming a regular here, atop channel with interesting SS programming and "La Tremenda" IDs. (RCP-IN)

570 WWNC NC Asheville - 8/23 0453 - Commentator giving the news and happenings of the Asheville area with a Paul Harvey style of delivery. Some QRM from WNSD station. (RCP-IN)

600 WGST GA Atlanta - 8/1 0008 - Poor with "News Radio 640 WGST," Rush Limbaugh promo, then tentative Jim Bohannon show. Heard them with Gil Gross show / WGST-FM on 8/11 0434. Fourth station in five minutes on this channel, two more and I'll have a six-pack! I know that KFI is here in some way, somehow.

600 WGST GA Atlanta - 8/1 0008 - Poor with "News Radio 640 WGST," Rush Limbaugh promo, then tentative Jim Bohannon show. Heard them with Gil Gross show / WGST-FM on 8/11 0434. Fourth station in five minutes on this channel, two more and I'll have a six-pack! I know that KFI is here in some way, somehow.

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900 WGST GA Atlanta - 8/1 0008 - Poor with "News Radio 640 WGST," Rush Limbaugh promo, then tentative Jim Bohannon show. Heard them with Gil Gross show / WGST-FM on 8/11 0434. Fourth station in five minutes on this channel, two more and I'll have a six-pack! I know that KFI is here in some way, somehow.
### LOGGINGS: 1600-2400 ECT

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<td>0900</td>
<td>WQCB</td>
<td>Tuscaloosa</td>
<td>WSBN</td>
<td>First time heard, and long sought, some of your life, WMRH, &quot;more NOS music. Lost to WBZ in the dear. (MB-IN)</td>
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<tr>
<td>1010</td>
<td>WORL</td>
<td>Washington</td>
<td>WORL</td>
<td>Good; southeast Alabama child advocacy and selective service FSAs, CNN Headline News. (BCTN)</td>
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<tr>
<td>1100</td>
<td>WJAB</td>
<td>Milwaukee</td>
<td>AM 1470</td>
<td>Just one memory after another, the music of your life, AM 1470, WJAB. &quot;As &quot;Just one Memory&quot; as &quot;Just one Memory,&quot; ID at 1800 'This is WJAB 1470, WJAB.' Can't hear at home due to longwave. (MB-IN)</td>
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<tr>
<td>1200</td>
<td>WQCB</td>
<td>Tuscaloosa</td>
<td>WSBN</td>
<td>Good; southeast Alabama child advocacy and selective service FSAs, CNN Headline News. (BCTN)</td>
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<td>WSBX</td>
<td>Washington</td>
<td>AM 1470</td>
<td>Just one memory after another, the music of your life, AM 1470, WJAB. &quot;As &quot;Just one Memory,&quot; ID at 1800 'This is WJAB 1470, WJAB.' Can't hear at home due to longwave. (MB-IN)</td>
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**TIS AND MISCELLANEOUS**

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<td>Washington</td>
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<td>Just one memory after another, the music of your life, AM 1470, WJAB. &quot;As &quot;Just one Memory,&quot; ID at 1800 'This is WJAB 1470, WJAB.' Can't hear at home due to longwave. (MB-IN)</td>
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**Notes:**
- WBZ in the dear.
- First time heard, and long sought, some of your life, WMRH, "more NOS music. Lost to WBZ in the dear. (MB-IN)
TIS FL Seminole - "Hunt Club Estates" no longer active. The modern home has been overthrown by human occupants. Maybe Vince Development Company will reactivate somewhere else? (TLK-FL)

TIS FL Tierra Verde/Madeline Key - This TIS, located just north of Ft. DeSoto, appears inactive. Per a drive-by on 9/17, the bridge is still under construction.

TIS VA Fredericksburg - 9/3 1600 - No sign of National Park Service or other TIS activity while in area, along 1-95. (MH*VA)

WPEX992 PA Wilkes-Barre - 9/2 1600 - Detour info around northbound 1-81 Lakawanna Valley construction, different from 530 message. (BCRA)

KIE741 VA Front Royal - 9/4 1200-sh - Shenandoah National Park TIS with woman announcing fees, restrictions, parking, etc. Two part LONG message. Initially noted along I-66 West, and in Front Royal. (MHPVA)

TIS VA Richmond Intl. Airport - 9/4 1600 - Possibly this noted along I-95 North approaching and I-95 South leaving Richmond. Bits of audio noted on parking, and what sounded like "North Carolina flights ..." Male announcer. Poor level to occasional fair peaks. (MHP*VA)

WPDF247 VA Salem - 9/2 0800 - Construction info for northbound I-81 motorists near Roanoke. (BCRA)

HAR VA VA/NC Border - Date? - Do TIS HAR with male announcer on I-95 South with traffic info delay. About 5 miles into VA, noted a second station, same male announcer, with loop for people leaving VA. Range of each transmitter about 2 miles. (MHPVA)

1620 WQO635 VA Staunton - 8/16 0200 - In most nights, between the 1610 Caribbean Beacon/TIS graveyard and KBVT's UC, with mentions of Staunton and Blue Ridge area attractions. I think the Staunton Chamber of Commerce runs this one; they must have a pretty good antenna, as they dominate over one or two other stations. This might also be running from the top of Afton Mountain, where Route 64 crosses the Blue Ridge Parkway. (JV-GVA)

REPORTERS

PB-MA Phil Boersma
MB-MA Mike Brooker
MB-MA Mark Burns
MB-MA Poland In: B8, Kiowa loop, 100% Benovage @ 280 degrees
BC** Bruce Conti
TLK-FL Terry L. Krueger
JJ-JH John Hanz
MH-NC Mike Hardeste
JK-VA Jeff Kitte
WM-MD William McGuire
RCP-MA Robert C. Pole
MS-ON Morris Sorensen
JCT-RI John C. Thresher
RWT-MA Richard Turner
WW-RI William Wylie
DY-NY David Yoci

Spring Lake ME: Local news
DXing in Lenox MA: Panasonic RFB 45
Terre Haute IN: B8, 80 LW, Kiowa loop
Poland In: B8, Kiowa loop, 100% Benovage @ 280 degrees
Clearwater FL: NRD-535
Old Bridge NJ: Local news
Jacksonville NC: Car radio, and travel observations
Jarrett VA: Superadio II, RQ-V60, both barefoot
Cheverly MD: DX380
Greenwood IN: R8A, Quantum loop
DXing from Misery Bay (western Manitoulin Island ON): RF-665, 550 LW running N/S.
North Dartmouth MA:
Wakefield RI:
DXing from Prudence Island RI: DX390
South Nyack NY: R71A, Kiowa loop

International Jim Renfrew
61 Wilcox Street
Rochester, NY 14607-3832
JimRenfrew@Delphi.com

THE IDXD REPORTERS CUP

Last season, reporters from Canada won the first IDXD Reporters Cup, based on the high percentage of provinces reporting DX. This year the Cup goes to the USA. One more Canadian province would have achieved a tie, but wait until next year, eh? Here are the Final Volume 68 standings, with last minute additions of ME, WI and NB. [Note: AZ, CO, CT, DC, DE, FL, GA, HI, IA, IL, IN, KS, LA, MA, MD, ME, MI, MN, NC, NH, NJ, NY, OH, OK, OR, PA, RI, SC, TN, TX, VA, WA, WI = 34/51 = 67%]

CANADA: AB, BC, MB, NB, NF, ON, PQ - 7/12 = 58%

Thanks to all reporters who submitted loggings to IDXD during the last year! And welcome to Michael Manning, another DXer from Delaware. Congratulations to Bill Dvorak who heard the last HCB test from Wisconsin.

SPECIAL REPORT FROM NRC CONVENTION

NRC and DXAS members had the opportunity to hear TA DX at the NRC Convention site in Knoxville, TN, with Croatia-1134 booming in on Sunday night (SEP 2 UTC). Besides the clear reception of Croatia, several strong TA hets were noted, including Algeria-891, Germany-1017, and Libya-1251, and this was just with two 15-m wires in the less-than-ideal RF environment of the hotel building. Longer antenna wires of at least 30 m would’ve likely produced audio on some of the hets. But at least this was evidence that you don’t have to be located on the coastline to hear TA DX. (1060) Do you want to keep an ear on these and other I.A. frequencies such as Spam-585, 684, 855, England- 1053, 1089, 1215, and Norway-1314, as we are now in what has been a peak period for TA activity over the past couple of years with the sunspot cycle bottoming out. (Canti-TN)

TRANS-ATLANTIC DX

153 ALGERIA, Bechar, AUG 3 0442 - / 549 with drums, strings, group AA vocal with slight reverb (as if in large hall). Massive signal during a powerful dawn enhancement run into North Africa. [Connelly-H-MA] AUG 31 0215 - Woman speaking to male caller in AA, good. [Manning-DE]


183 GERMANY, Saarlouis, JUL 21 0052 - dance-rock music, then female FF talk, good. [Connelly-Y-MA] AUG 3 0440 - woman & man in FF; to good peak. [Connelly-H-MA] AUG 31 0220 - Man and woman speaking FF, good. [Manning-DE]

207 MOROCCO, Azizal, JUL 21 0147 - AA music mixed with "QI" beacon. [Connelly-Y-MA] AUG 3 0439 - light jazz, woman in EE, good. [Connelly-H-MA] AUG 31 0225 - Pop music program, IDs as BBC, male DJ.

216 FRANCE, Roumoules, JUL 21 0351 - FF pop vocal, man & woman in FF with some telephone callers; good to excellent. [Connelly-Y-MA] AUG 3 0438 - FF vocal, talk, fair. [Connelly-H-MA]

234 LUXEMBOURG, Junglinster, JUL 21 0138 - mellow guitar music; fair to good. [Connelly-Y-MA]

252 IRELAND, Clonakilty, JUL 21 0348 - techno-dance music; fair to good. [Connelly-Y-MA] AUG 3 0436 - US pop-rock vocal; excellent. [Connelly-H-MA]

531 SPAIN, RNE5 synchronous, AUG 3 0123 - SS teletalk; over others. AUG 25 0037 - bits of SS talk in RVC-530 slot. [Connelly-P-MA]
711 FRANCE, Rennes, SEPT 5 0459 - Strong and clear with FF fem vocal. Not // to the other B network stations before the hour, but all went to news at 0500. [Dangerfield-PA]
729 SPAIN, RNE1 synchros, AUG 3 0024 - SS talk // 684; poor in slope. AUG 25 0031 - // 738 with female operatic vocal from Bizet's "Carmen"; to good peak. [Connelly'P-MA]
738 SPAIN, RNE1 synchros, AUG 3 0901SS, 0117 - SS sportstalk, fair at 0109, loud by 0117. [Connelly'P-MA]
745 SPAIN, RNE1 synchros, AUG 3 0435 - folk style (similar to Gordon Lightfoot), then SS talk; getting by CHCM slop. [Connelly'Y-MA] AUG 25 0030 - female operatic vocal from Bizet's "Carmen"; excellent. [Connelly'P-MA]
749 CANARY ISLANDS, Las Palmas, AUG 3 0110 - SS talk mixed with Netherlands; poor to fair. [Connelly'P-MA] AUG 13 0235 - SS fem vocal; mixed with others. [Connelly'Y-MA]
767 SPAIN, RNE1 synchros, AUG 3 0119 - weather, good; to people on MA. [Connelly'P-MA] AUG 3 0119 - weather, good; to people on MA. [Connelly'P-MA]
784 SPAIN, OCR, Barcelona, AUG 25 0022 - sounded like bits of operatic SS vocal; in bad slope. [Connelly'P-MA]
796 LOROZE, RDP, Barossa, AUG 3 0028 - PP talk about workers; very good to excellent. [Connelly'P-MA] AUG 13 0318 - soft music; fair. [Connelly'Y-MA] AUG 25 0021 - PP male vocal back on 836 old-plan channel, so frequency correction to 837 was short-lived. [Connelly'P-MA]
809 CANARY ISLANDS // SPAIN, AUG 3 0029 - SS talk; good peak with WKRO nullled. [Connelly'P-MA] AUG 13 0318 - two SS male announcers, restricted / tinny audio quality; good strength. [Connelly'Y-MA] AUG 25 0021 - man in SS with het from 836. [Connelly'P-MA]
837 FRANCE Nancy, SEPT 5 0453 - Acht the frequency and no sign of the COPE station heard earlier. Nancy featured a male vocalist and was // to other B's. [Dangerfield-PA]
851 ITALY, Rome, AUG 13 0201 - classical music; fair. [Connelly'Y-MA] AUG 25 0020 - heldentenor operatic male vocal, to good peak, but WEEL slop tough at times. [Connelly'P-MA]
865 SPAIN, RNE1 synchros, AUG 3 0031 - sports-related SS talk by man; fair over SAH & second audio (likely Romania). WEEL pest nullled. [Connelly'Y-MA] AUG 13 0321 - // 684, 774 with Latin-American influenced uptempo male SS vocal, then man in SS; good. [Connelly'Y-MA]
877 FRANCE, Rennes, SEPT 5 0459 - Strong and clear with FF fem vocal. Not // to the other B network stations before the hour, but all went to news at 0500. [Dangerfield-PA]
888 SPAIN, RNE1 synchros, AUG 3 0024 - SS talk // 684; poor in slope. AUG 25 0031 - // 738 with female operatic vocal from Bizet's "Carmen"; to good peak. [Connelly'P-MA]
896 SPAIN, Añi, Laayoune, AUG 3 0117 - SS sportstalk, fair at 0109, loud by 0117. [Connelly'P-MA]
911 SPAIN, RNE1 synchros, AUG 3 0435 - folk style (similar to Gordon Lightfoot), then SS talk; getting by CHCM slop. [Connelly'Y-MA] AUG 25 0030 - female operatic vocal from Bizet's "Carmen"; excellent. [Connelly'P-MA]
919 CANARY ISLANDS, Las Palmas, AUG 3 0110 - SS talk mixed with Netherlands; poor to fair. [Connelly'P-MA] AUG 13 0235 - SS fem vocal; mixed with others. [Connelly'Y-MA]
927 SPAIN, NRS, Barcelona, AUG 24 2336 - man in SS; to fair peak. Other stuff (likely Algeria, Portugal) under. [Connelly'P-MA]
SPAIN, RNE5 synchros, AUG 3 0046 - metallic-sounding SS talk & bad growl, just over Slovakia. [Connelly'P-MA]

SLOVAKIA, Nitra, AUG 3 0035 - light classical music, then Slavic talk; dominant, strong. [Connelly'H-MA]

SPAIN / SLOVAKIA, AUG 25 0011 - SS talk over Slovakia's music; a bit of slop from pest daytimer WHLA. [Connelly'P-MA]

SPAIN, RNE5 synchros, AUG 3 0040 - SS talk & music; just over other music station that was probably Egypt. [Connelly'P-MA] AUG 4 0106 - SS talk; loud. [Connelly'W-MA] AUG 23 0227 - soft SS talk; fair. [Connelly'Y-MA] AUG 25 0006 - SS teletalk; excellent. [Connelly'P-MA]

ITALY Ban & synch, SEPT 5 0402 - Good with brief music, then a man and woman in IT. Was // to 1035. Radio Two program. // I guess. [Dangerfield-PA]

unID, AUG 3 0049 - probable off-frequency Spain with SS-sounding talk; hetting other 1125 Spain synchros. [Connelly'P-MA]

SPAIN, COPE synchros / CROATIA, Hrvatska Radio, Zadar, AUG 3 0048 - man in SS with future match; loud, well over Slavic talk by woman. [Connelly'P-MA]

CROATIA, HRT Zadar Sep 2 0215 - Slavistic-style rock music; clear reception on strong fade-ins, gone by 0400. [Conti-TN] SEPT 7 0130-0505 - Noted off and on with news and local pop music, very strong allowing for wide-band reception. First TA of the new season. [Rentrew-MA]

SPAIN, COPE synchros / CROATIA, Hrvatska Radio, Zadar, AUG 25 0040 - fast SS talk by man; huge, way over Croatia's polka music. [Connelly'P-MA]

SPAIN, COPE synchros, AUG 4 0105 - woman in SS; over others. [Connelly'W-MA]

SPAIN / 2 unID's (ROMANIA / UK ?), AUG 3 0052 - 3-station mess with woman in SS, operatic music, and talk. [Connelly'P-MA]

UNID'S, RNE5 synchros, AUG 24 2318 - man in SS, over others (Albania or Russia); some WBAL slop. [Connelly'W-MA]

Spain synchros. [Connelly'P-MA]

UNITED KINGDOM, Virgin Radio synchros, AUG 23 0433 - // 1215 with bits of "Roll to the Top" by Average White Band. [Connelly'P-MA]

UNITED KINGDOM, SVE Radio synchros, AUG 22 0013 - SS teletalk mixed with others. [Connelly'P-MA]

UNITED KINGDOM, Vintage Radio synchros, AUG 23 0433 - // 1215 with bits of "Roll to the Top" by Average White Band. [Connelly'P-MA] AUG 21 0341 - Man in Norwegian. SIO over feeble 1 kHz het that was probably from Cymmans-1205. [Connelly'P-MA]

ERAN BRAUER, SEPT 5 0448 - Strong and clear with vocals in FF by a man. // to 846 and other BS net stations. Must sign on 15 minutes before the hour. [Dangerfield-PA]

UNITED KINGDOM, Virgin Radio synchros, AUG 3 0054 - "These Dreams" by Heart; loud; way over SS talker. [Connelly'P-MA] AUG 21 0339 - Pop mix by Average White Band and Robert Palmer. SIO 322 [Burnett-NB] AUG 23 0252 - Springsteen vocal, EE talk, then 1980 oldies "Echo Beach" by Missing Persons. [Connelly'P-MA] AUG 24 2329 - strong rock vocal, then announcer mentioned a "special combination"; Spain QRM then got worse. [Connelly'P-MA]

UNITED KINGDOM, Virgin Radio / SPAIN (t), AUG 24 2358 - EE rock vocal // Virgin-125 mixed with light pop female vocal that may have been SS; tough slop at times. [Connelly'P-MA]

unID, AUG 24 2356 - het against WUOK-1240: France or Ukraine most likely. [Connelly'P-MA]

LIBYA, Tripoli, AUG 3 0014 - AA male Koranic a cappella vocal; good. [Connelly'H-MA] AUG 24 2330 - AA talk; fair. [Connelly'Y-MA]

GERMANY, Neumunster, AUG 4 0100 - GG talk, big het against WTSN (but tough slop). [Connelly'W-MA] AUG 24 2357 - classical music; in tough slop. [Connelly'P-MA]

SPAIN, SER synchros / unID's, AUG 24 2355 - SS talk in a gravy-like jumble. [Connelly'P-MA]

SPAN, COPE, Valencia, AUG 24 2354 - SS teletalk mixed with others. [Connelly'P-MA]

SPAIN, RNE5 synchros, AUG 25 0041 - SS-sounding talk by man; palpitant pop song. [Yoshida-MA] AUG 3 0057 - cool '50s-type vibraphone tropically-influenced jazz, Norwegian talk; huge on peaks, beautiful signal in 4 kHz bandwidth position. [Connelly'P-MA] AUG 4 0120 - excited Norwegian talk (sporting event: possibly Olympics coverage); good. [Connelly'W-MA] AUG 4 0315 - strong with oldies fest with back-to-back '60s / '70s hits including ELO's "Showdown". [Connelly'H-MA] AUG 21 0341 - Man in Norwegian. SIO 322 [Burnett-NB] AUG 23 0232 - Eagles" "Hotel California"; loud // local-like at 59-30 and
above. [Connelly'Y-MA] AUG 24 2353 - folk-rock vocal in the style of Jethro Tull; to good peak, well over Spain SS talk. [Connelly'P-MA]

1332 ITALY, Rai R. Uno, Roma et al., AUG 23 0410 - Il talk by man, classical music; poor to fair. [Connelly'Y-MA]

1341 NORTHERN IRELAND, BBC Radio Ulster, Lisnagarvey, AUG 23 0440 - man in EE; poor, in slop. [Connelly'Y-MA]

1349 MAURITANIA, R. Mauritaniar, Nouakchott, AUG 24 2225 - AA talk fading up to good strength about an hour before local sunset. [Connelly'P-MA]

1359 SPAIN, Arganda, AUG 4 0314 - bits of SS talk; in slop. [Connelly'Y-MA]

1377 FRANCE, Saint-Étienne, SEPT 5 0455. Fair, near good as some of the other D Net stations heard at this time. Had FF male vocals. High banders were weaker. [Dangerfield-PA]

1395 NETHERLANDS, Lopik, AUG 23 0308 - smooth soul-influenced jazz instrumental; fair to good. [Connelly'Y-MA]

1431 ALBANIA, Flaka, SEPT 5 0239 - law, FE, fair. JUly 21 0027 - calypso/soca music; EE talk; fair. JULY 21 0305 - good with most loud drum and tone Carib-beat music. [Kitze-VA] AUG 24 0158 - live outdoor broadcast with man & woman vocals, then rhythmic music good. [Connelly'Y-MA]

1459 GUADELOUPE, RFO, Pointe-a-Pitre, AUG 3 0216 - FA talk fading up to good, with usual clock and beeps, Cuba dominant on many other frequencies. [Connelly'Y-MA]
170 \textbf{UNID}, AUG 10 0214 - weird, rapidly-warbling and pulsing transmitter under all the others on 1130. [Knueger-FL]

210 COLOMBIA, RCN, HJAQ, Cartagena, AUG 21 0126 - with fast old-style Cuban dance music, female vocal; another SS talk station were way under. [Connelly’Y-MA]

220 COLOMBIA, HJAJ, Barranquilla, AUG 21 0126 - with fast old-style Cuban dance music, female vocal; excellent. AUG 23 1002 - SS talk, music / 550. AUG 24 0750-0805 - solidly dominating the channel during this "wee hours" check for Bruce Conti's unID. SS news at 0800 / 600 kHz had lead item about Mother Teresa's failing health. Domestics (likely WMAQ with SS news and CCFX with C&W music) and another SS talk station were way under. [Connelly’Y-MA]

230 COLOMBIA, HJJX, Cartagena, AUG 21 0126 - 7510 with female SS talk, crowd applause, then preacher; mixed with WCRN. [Connelly’Y-MA]

748.8 \textbf{UNID} Latin American, AUG 12 0420 - fragments of music, at first thought Progreso off-frequency. However, / 900, 880 Progreso to an eventually fading-up 870.0 Progreso outlet. Maybe the lower power (second) Progreso listed, or one of the Musical Nacional outlets? [Knueger-FL] (probably the only way to log two Cuban stations on the same frequency - when one is off-frequency! - Jim)

750 \textbf{VENEZUELA}, VVYM Puerto Ordaz, AUG 11 0700-0800 - in loud over two other SS unIDs with "Onda Mundial" IDs during an amazingly rare WCB silence period. Still audible in null when WCB signed on. [Knueger-VA]

1420 \textbf{CUBA} R Progreso (site?), AUG 12 0416 - powerhouse, unlisted, / 900, 880, 870. [Knueger-FL]

1420 \textbf{ST. KITS & NEVIS}, VONS, Charlestown, JUL 21 0115 - fast soca music with tune similar to Bob Marley's "No Woman No Cry" (maybe influenced by recent Fugees version); good. [Connelly’Y-MA]

1210 \textbf{MEXICO} XEQ, DF, AUG 10 0257 - in strong at this early hour with Olympic Futbol resorts, quick "LV de la America Latina" ID. Some QRM from WKDW (100 miles away), who seems to be staying on with 5 kW instead of powering down. [Knueger-VA]

1350 \textbf{MEXICO} XEU, AUG 9 1048 - quick male ID as "La U de Veracruz" in passing, into ranchera music, good over domestics during peak. [Crawford-Oak Hill FL]

1420 \textbf{CUBA} R, Reloj, Holguin/Colón, AUG 23 1011 - Reloj program mixed with CBM, others. [Connelly’Y-MA]

1420 \textbf{COLOMBIA}, RCN, HJAJ, Cartagena, JUL 21 0052 - RCN ID in multi-station jumble. [Connelly’Y-MA] AUG 16 0600 - In with RCN musical IDs, over/under WMVP. [Knueger-VA]

1420 \textbf{MEXICO} XEQ R, Méjico DF, AUG 16 0300 - In over WMVP with R. Méj DF IDs, overluding to containing to RCN. [Knueger-VA]

1420 \textbf{VENEZUELA}, Mundial Margarita, YVR, La Asuncion, JUL 21 0054 - "Mundial Margarita" ID, fast SS talk, promotion for Sunday music programs; loud / alone on channel. Turks & Caicos off? [Connelly’Y-MA] AUG 20 0332 - festive dance music vocal, Mundial Margarita ID, over KDKA; no trace of "CCR". [Connelly’Y-MA]

1420 \textbf{TURKS & CAICOS} CCR, AUG 15 0910 - With Super Power Caribbean Christian Radio ID. Back here now and under KDKA. [Knueger-VA]

1420 \textbf{TURKS & CAICOS}, AUG 15 0910 - frequency approximate, huge FMing block here. Checked local WMFX on 1040, which appeared clean (and no slop above 1040), suddenly off 0430 (and WMFX continued). [Knueger-FL] (a curious frequency to find something - Jim)

1420 \textbf{VENEZUELA}, CVVR, San Cristobal, AUG 24 0812 - sign-on with what may have been the longest-ever version of the Venezuelan National Anthem, then Mundial and 860 SS ID's finally came at 0815 UTC. Atof Cuban Reloj and a pile of others; CJBC nullled. [Connelly’Y-MA]

1420 \textbf{COLOMBIA}, RCN, HJAJ, Barranquilla, JUL 21 0126 - with fast old-style Cuban dance music, female vocal; another SS talk station were way under. [Connelly’Y-MA]

1420 \textbf{Ecuador}, HJCB Quito, SEP 1 0521 - Heard with CW during its monthly DX test. First time I have ever heard an Ecuador station on MW! Rich McVicar has confirmed my HJCQ reception report via e-mail. Boy, it's hard to get used to this idea of e-mail reception reports!

1420 \textbf{Dominican Republic}, CSS news at 0600. [Connelly’Y-MA]

1420 \textbf{Colombia}, R, Rebelde synchros, JUL 21 0126 - Dr. Gene Scott program, phone numbers to call, fair in CBF null. [Yocs-NY] AUG 23 0521 - preacher; fair with others in CBF null. [Connelly’Y-MA]

1420 \textbf{COLOMBIA}, HJHX, Cali, JUL 21 0029 - CARACOL ID; in mess of others with W1W phased. AUG 24 0207 - SS operatic vocal / 810; slightly over others. [Connelly’Y-MA]

1420 \textbf{VENEZUELA}, VYKS, Caracas, JUL 21 0037 - SS talk about women's issues, interview with EE-speaking man with translation into SS, RCC mentioned. [Connelly’Y-MA]

1420 \textbf{COLOMBIA}, HJAJ, Barranquilla, JUL 21 0126 - callign "H-J-A-J" ID on SS, RCN net ID; good over pile-up of others. JUL 21 0359 - RCN still fair at this late time. AUG 23 0956 - SS talk, RCC mentions; atop jumble. [Connelly’Y-MA]

1420 \textbf{COLOMBIA}, HJHX, Bogotá, JUL 21 0403 - RCN ID just behind WABC. [Connelly’Y-MA] Pretty much eliminating WABC's Curtis Slway with SS programs, and "Radio Cadena Nacional" IDs. [Knueger-FL]

1420 \textbf{BRITISH VIRGIN ISLANDS}, ZBVI, Roadtown, Tortola, JUL 21 0404 - reggae music; good, over CFDR. [Connelly’Y-MA] AUG 04 0116 - remote live Carib-EE broadcast from a local shopping area; fair to good with CFDR nullled. [Connelly’W-MA]

1420 \textbf{CUBA} R, Reloj, CMAQ, Finar del Rio, AUG 24 0807 - Reloj news and time show with "boxy" telephone like audio, atop channel. [Connelly’Y-MA]
CEUTA:

1170 MEXICO XEIB Cabo Barca, AUG 18 0615 - Fair, mixing with KVVO in partial null of local KBCQ. Lots of local ads. [Hall-CA]

1180 CUBA, R. Taño, Villa Maria, AUG 3 0422 - much SS talk about Havana; dominant over Latin American mess & bits of WHAM. [Connelly-H-MA]

1200 BERMUDA: WSBD, Hamilton, JUL 22 0551 - Bible Broadcasting Network program and ID, heard for 15 min. [MarkWAlION@aol.com]

1280 MEXICO UNID, AUG 1 *1100-1145 - Burned the 7-10am (1100-1400 GMT) portion of my life on 1280 today. Chronology was rather interesting; *1100 tune-in to clear, rather strong XE NA, unobtrusive ID by man, into ranchers format. No 1280 XE listed with an *1100 s/o in the WRT 96, but then we all know how useless they are on accurately portraying real-life Latin American MW. Mixing with another definite XE, mentioning "Monterrey" often (possibly XEAW, listed 24 hrs). Also heard ments of Guadalajara, but unsure which station.

1500 RUSSIA, Komselosk, Far East, AUG 31 1229 - *1100-1300; then *00-0010' (in direct, in ARC JUL 27) [direct mention of Komselosk as a station, not as a region].

1580 FLORIDA WFAV? Fort Lauderdale, AUG 31 1229, *00-0010 - *1100-1145 tuning on Fort Lauderdale station, *1145-1200 notion of Guadalajara, but unsure which station.

1610 ANGUILLA, Caribbean Beacon, The Valley, AUG 3 0007 - *1100-1145 tuning on Fort Lauderdale station, *1145-1200 notion of Guadalajara, but unsure which station.

They also apparently alternate news feeds however, there was some FF audio in with the domestic adjacents. Wish I had a narrower IF in my radio. [Citizen-VA]

EXHIBIT A), it's quite likely that they were off, running low power, or using an antenna with the Strait of Gibraltar, and sometimes they don't bother taking the trip, leaving the signal on 1585. [summarized from a detailed report by Jorge Garzon, Medi Grupo DX]

GERMANY: Deutschlaradio 207 has not been heard for some time. When Kyyiv is off Morocco is heard. [Orle Alm in ARC JUL 27]

HAITI: 860: 4VMK Les Cayes, 1100-0100; 1240: 8AVM Port-au-Prince, slogo's "La Deportividad", "La plus fort e route", "Metroplitan est ca". [direct, in ARC JUL 27]

MEXICO: Station slogans: DF Mexico XEPH-590 Sabritas; DF Mexico XEX-750 La X De Mexico; DF Mexico XRUN-860 Radio UNAM; DF Mexico XEW-900 La Voz de America Latina; DF Mexico XEG-940 Q 940 AM; DF Mexico XEOY-1000 Radio Mil; DF Mexico XERJQ-1030 Radio Centro; DF Mexico XERED-1110 Radio Red; DF Mexico XEJF- 1150 Radio Variedades; DF Mexico XEMUC-1350 Formato 21; DF Mexico XEBX-1410 Radio Sinfonfa; DF Mexico XEFAL-1560 Radio Consentida; [Guadalajara, XEWK-1190 W Guadalajara; NL Monterrey XEG-1050 La Ranchera de Monterrey; NL Monterrey XECT-1190 Nuevo Leon; NL Monterrey XECL-1510 Radio Nuevo Leon (relay DF)]; PV Puebla XEXG-1280 la Tribuna. [WWW via Doug Smith-TN]

NORTHERN IRELAND: Radio 1521 - Power? Has the Irishland station Radio 1521 updated its power or done something with its antenna? Recently reception in SE England has improved considerably; at night it now dominates the 1521 kHz frequency. [Steve Whitt, Medium Wave Circle Web Page]

PARAGUAY: 720 R. Pa'i Puki is a new station broadcasting on an experimental basis since APR 28 at 0100. The station has two transmitters, 15 kW, and it transmits with a power of 25 kW. The station broadcasts from a site called 25 Leguas in Chaco, about 350 km from Asuncion. Station is operated by the Catholic church. [via PK in MWC in ARC JUL 27]

SWITZERLAND: Two mediumwave frequencies formerly used by public broadcasters in Switzerland have been franchised to commercial radio stations, being: 531 Musikwelle 531 - This programme is due to start on 1 October with a format of 'volksmueterischer musik', traditional popmusic in the German language. [Henry Krueger, Waldport OR; Dr. Dvorak, Madison WI; Adam DeLorenzo, Whip, 25 m sloper, DCP-2 Dual Controler / Phaser, Mini-MWT-3 regenerative tuner [summarized from a detailed report by Jorge Garzon, Medi Grupo DX]}

It's interesting to see Mauritania-1349 back. No one reported it for several months and, as a result, it's back on. [summarized from a detailed report by Jorge Garzon, Medi Grupo DX]

CONTRIBUTORS = e via e-mail

@Jack Woods, Waldport OR; @Bill Dvorak, Madison WI; @Mark Connelly, Waldport OR; @Jeff Kitze, Boyton VA; @Terry L. Krueger, Clearwater FL; @Michael Manning, Wilmington DE; HF-225 Europa, ALN-1 outdoor untuned loop.

@Mark Connelly, DXing from East Harwich MA [HI], Plymouth MA [TP], Wellfleet MA, Marcon site [WP], West Yarmouth MA [Y], Drake R&A, RL-1 Remotely-Tuned Loop, RW-1 Active Whip, 25 m sloper, DCP-2 Dual Controller / Phaser, Mini-MWT-3 regenerative tuner [summarized from a detailed report by Jorge Garzon, Medi Grupo DX]}

@Bruce Conti, NRC Convention, Knoxville, TN; Low HF-225 Europa, MWDX-5, two 15 m longwires.

@Jean Burnell, DXing from Fredericton NB; unmofdified Sony 2010, internal antenna [jburnell@plateau.ucs.ca]

@Mark Connelly, DXing from East Harwich MA [HI], Plymouth MA [TP], Wellfleet MA, Marcon site [WP], West Yarmouth MA [Y], Drake R&A, RL-1 Remotely-Tuned Loop, RW-1 Active Whip, 25 m sloper, DCP-2 Dual Controller / Phaser, Mini-MWT-3 regenerative tuner [summarized from a detailed report by Jorge Garzon, Medi Grupo DX]}

@Bill Dvorak, Madison WI; GE Superadio III, built-in antenna.
evaluate sunset / pre-sunset conditions.

Azores going back to 837 is another useful news tidbit, inasmuch as it had been on 836 for much of the spring and early summer.

I have little doubt that 760 is another useful news tidbit, inasmuch as it had been on 836 for much of the spring and early summer.

There are other possibilities for receiving this signal.

The best TA run was at an ideal location near a beach in Plymouth. Mauritania-1349 was already on Jim Renfrew's DXpedition list.

Newfie-4. Hearing either of these past "blowtorch" YVKS is an accomplishment. The transmitter was shut down in 1985.

The full log report will be sent out by the beginning of September. It will include a handful of other stations heard about 2 weeks earlier. Just thought I'd throw these out as the best signal of the week.

The best bet would be to load a 6-hour tape into the VCR and set a connected receiver to 670 just before the sun goes down. Of course, this would have to be done from somewhere other than home (since the signal is very weak).

If you're looking for news or other stations, you'll have to do an autumn run early winter (Springfield, MA and Neil's main logs from the 1980s). 750 is much superior to Plymouth for much of the spring and early summer.

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The AOR AR7030: A Bold New Receiver from Britain
by Guy Atkins

Every now and then a new receiver design comes along which breaks the mold of conventionality and causes a flurry of discussion among radio hobbyists. Such was the case with the Drake R-7/D/7A of the late 1970s, the ICOM R-70 in the early 1980s, and the Watkins-Johnson HF-1000 at the beginning of this decade. A case could be made for other receivers, but these three caused a stir in the areas of performance, features, and price point.

Now in 1996 the British have come up with their own notable — and controversial — communications receiver. How well does it perform for the mediumwave and tropical bands DXer? This article will present an overview of performance and features, and a "hands-on" report.

Behind the Scenes
Talented designer John Thorpe is the individual responsible for the AOR AR7030. He became known to hobbyists as the man behind the "HF" series of receivers for the UK's Lowe Electronics, including the highly-regarded HF-225 Europa. Many had expected Lowe Electronics to continue the progression, but the HF-350 was never produced (remember the mysterious "Project N"). Thorpe and Lowe Electronics parted ways in a less-than-amicable fashion, with Lowe going on to produce the traditional—and "comfortable"—HF-250. Thorpe took the road less-traveled by joining forces as an independent designer with the AOR Corp. and creating the unconventional AR7030. This receiver is manufactured at AOR's new UK facility in Belper, Derbyshire.

Well-balanced performance, sturdy construction, and minimalistic controls are qualities that have marked John Thorpe's previous receiver designs. These characteristics are present in the AR7030 as well, but there are unusual features sprinkled liberally throughout. Among these are auto-tuning synchronous detection, on-board filter calibration and measurement, automatic RF attenuation for extremely strong signals, and a comprehensive alphanumeric display of virtually all receiver parameters. Despite the automatic features available, the AR7030 is highly flexible. The operator can disable them if desired and be in full manual control. An infrared remote is supplied with the receiver, providing control over all commonly used functions.

A Controversial Introduction
I cannot remember another radio that generated so much positive and negative discussion at its introduction as the AR7030. Therefore a few comments are in order about the controversy surrounding the new AR7030. The internet newsgroup <rec.radio.shortwave> and Compuserve's SWL section in the Hamnet Forum have had many postings from both sides of the fence.

AOR introduced the AR7030 at the Leicester hamfair/electronics show last October, billing it as a "high dynamic range" receiver. The detailed information and specifications reported by AOR caused many to wonder if such commercial/military performance could really be reached by a consumer-grade receiver. When a price was announced by UK retailer Javiation, they wondered even more: £399 within the UK, or $3,695 to the USA including FedEx shipping. For British customers the AR7030 is less than half the price of a NRD-535.

AOR missed their initial Christmas 1995 release date by months, due to printed circuit board problems at a supplier. There were even (unfounded) rumors of legal action by Lowe Electronics against AOR. Although eight receivers were available on loan to reviewers in January, regular production did not begin in earnest until April. This delay encouraged skepticism even more.

The unusual design, small size and new features of the AR7030 also raised the eyebrows of those who prefer more traditional receivers.

However, a lively debate over statements in a Radio Netherlands' Media Network review (published in the V.63, #27 edition of DX News) and a more detailed technical explanation on Radio Netherlands' internet WWW home page is what really fueled the controversy. The review presented test results with significantly poorer intermodulation-free dynamic range (IFDR) and 3rd order intercept point (IIP3) figures than those claimed by AOR. The internet article also said that AOR's test method was non-standard, with a result of spurious "good" numbers due to AGC action reducing receiver gain. John Thorpe later countered with a letter on AOR's internet WWW home page and <rec.radio.shortwave> that disputed the claims, saying the method is indeed standard and that the test equipment used for Media Network's review was not sufficient for proper measurement. Both parties have posted detailed information on their specific methods and equipment to support their position. It should be noted that the Media Network review concluded that the receiver is a good value in Europe with "well above average performance in its price category".

Other reviewers and independent tests have produced figures comparable to AOR's specifications, including Chris Loretz writing in Ham Radio Today and Craig Siegenthaler of Kiwa Electronics. User-reviews in the Danish SW Club International Shortwave News bulletin and on Ray Woodward's internet WWW homepage also give the receiver high marks.

Features and comments
This is a feature-laden set, even though the receiver has a sparse front panel. The full details are available on AOR's internet home page, and the main points have been covered in other recent reviews. From a DXer's perspective, a number of these are worth commenting on.

This receiver is apparently designed around the concepts of total control and information feedback. The menu system and dot-matrix display (discussed below) are critical to the AR7030's approach. A few examples are: passband shift settings displayed in 0.1 kHz increments; bass and treble adjustments shown in plus or minus decibels from a "flat" passband; dual audio outputs independently adjustable in audio level and displayed as a percentage of total output; volume and I.F. gain displayed as a percentage of total output; and the 100 memories which can contain the tuned frequency, mode, I.F. bandwidth, passband shift setting, scan include/exclude, squelch setting, and BFO setting for CW and DATA modes.

The AR7030 is an expandable and flexible receiver. Options and accessories can be properly integrated into the radio's control structure, rather than "tacked on" as an afterthought. The AR7030's operating system...
This computer-like approach, the receiver radio hobbyists. Traditional design implies a between 30 and 32 MHz.) months. (In past years from the Seattle area, have setup "A" configured for general

para-military communications and public

low-band VHF DXing during the summer

range are another part of the spectrum that

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Menu System

A clear, backlit dot-matrix LCD display shows all receiver settings. Excellent use is

same information in the menus. John

functions are the frequently used ones: the power switch, menu button, volume control, up/down mode

buttons, the last tune button and the main tuning knob. Those who are comfortable with

can be used to tune the AR7030. These and other DXing targets in the VLF range are another part of the spectrum that can be pursued with this radio. Likewise, the 32 MHz upper tuning limit allows for a bit of

Menu System

A clear, backlit dot-matrix LCD display shows all receiver settings. Excellent use is made of a two-line display due to a carefully thought-out series of branching menus. The feel of DXing with the AR7030 reminds me of operating a laptop computer, such is the effect of the menus, the display, and the multi-

function knobs and buttons. If it were not for this computer-like approach, the receiver would need numerous individual controls and a larger case. The receiver's price would also be higher!

Three definable "setups" allow the user to quickly jump between favorite parameters for the type of listening desired. AGC, filter bandwidth, mode, tone controls, RF gain, etc. can all be assigned to the setup memories. I have setup "A" configured for general SW/Ling, "B" for tropical band DXing, and "C" for foreign MW DXing.

Frankly, the menu system and flexible controls of the AR7030 may disenchant some radio hobbyists. Traditional design implies a single control for a single function, and a display or front panel that always shows the same information in the same spot. John Thorpe has given us a new approach. Using just a modest LCD display, the AR7030 can report virtually all receiver settings and intelligently assign "soft labels" to push buttons and rotary controls. The only controls with single, dedicated functions are the frequently used ones: the power switch, menu button, volume control, up/down mode buttons, the last tune button and the main tuning knob. Those who are comfortable with computer software will quickly grasp the logic behind the AR7030's array of menus.

Efficient operation with the front panel controls only comes with experience and understanding of the menu structure; the key is learning which menus keep your favorite parameters accessible. I prefer the filter menu with the assignable rotary knob soft-labeled as "PBS" (passband shift). This gives me immediate, direct access to filters, passband shift, mode, main tuning, volume, power on/off, and fast tune. A further press or two of the filter button allows adjustment of AGC settings (fast, normal, slow, plus off) and tone. Other receiver functions are accessed through other menu selections, or directly with the remote controller.

Again, some users may think this may seem to be an ergonomic nightmare. The AR7030 should be given a fair chance, however, as familiarity comes with practice. Fortunately the buttons have a good tactile feel to them, making quick changes easy. Those who cannot bear to operate anything that doesn't feel like the large, classic rings of yesteryear will view the AR7030 as mere gadgetry. In my opinion it is not an unusual or difficult receiver to use, but rather fun to control after the initial learning curve.

Filter Measurement and Alignment:

This is one of the unusual features of the AR7030, a capability it shares with the professional Racal RA-6790G GM receiver. Many styles of MuRata ceramic filters (CF, CFK, CFWM styles and others) plus Collins low-profile mechanical filters can be directly fitted.

Other possibilities exist with Kiwa Electronics Premium filter modules. The AR7030 will measure the bandwidth, determine the proper USB/LSB offset for each filter, and sort the filters in ascending order.

The sequence takes about 45 seconds and is interesting to watch. The resulting exact alignment is useful during ECSS tuning of an AM signal, as there is no change in audio pitch when alternating between USB and LSB (if the receiver is properly tuned beforehand). The AR7030 is the first receiver I've owned which does not exhibit at least a small amount of USB/LSB error due to normal variations in the manufacture of individual filters and receiver alignment.

The supplied bandwidths are nominally 2.2 kHz. Although four filters are standard with two optional filter positions, in reality any filter may be changed except the 10.0 kHz bandwidth (meant for narrowband FM). Any filter may be used in any mode. In my AR7030, these bandwidths are measured and displayed as: 2.0, 5.4, 6.4, and 9.5 kHz. The owners manual explains that most filters are named by their minimum passband and (if stated) their maximum stopband specifications. There can be variations from filter to filter, and even within the area of the filter that affects the bandwidth. I've noticed a 0.1-0.2 kHz reduction in measured bandwidth of the filters in my AR7030 if I run the filter calibration routine after the receiver is completely warmed up for about 1/2 hour.

Kiwa Electronics' new "Premium Filter Modules" make an excellent addition to the AR7030. These modules are available in CFK, CFW styles and others) plus Collins mechanical filters. The shape factor is 1.5 or 1.6. The modules are available in 4.4, 6.4, and 9.5 kHz. The difference between the 2.9 and 3.4 Kiwa filters is great enough in practice to make each one a worthwhile addition to the AR7030.

AM Synchronous Detection

This mode has the tenacity of a mountain goat and clings to signals weak and strong without problems. It is the best I've ever encountered, period. The passband shift can be adjusted liberally in synchronous AM (SNC) mode without causing squeals of complaint or loss of lock. Finally, a synchronous detector that a DXer can use! My ears cannot detect any rise in distortion in SNC mode (as reported in the Radio Netherlands' review); in fact, audio sounds definitely better than with the AM envelope detector. With passband shift carefully adjusted, both Kiwa filters are very useful using this mode.

As with the Drake R8 and R8A, the use of passband shift with the SNC mode allows selection of either sideband (or any point in between). This is an extremely useful tool for avoiding adjacent-channel interference and/or peaking certain audio frequencies to aid intelligibility.

The synchronous detector can be configured to use narrow, wide, or any method of operation. Wide and narrow are "manual" settings; the user tunes the receiver until the receiver locks onto the carrier. Wide is easier to tune but cannot cope with selective fading as well as narrow can. The auto-synchronous method is an unusual feature that tunes the receiver automatically, locks onto the carrier, and displays the center frequency (normally with 30 Hz or better display accuracy). The AR7030 only needs to be tuned somewhere within the passband of the signal before switching to SNC mode. It's interesting to watch the receiver "think" a moment, tune up or down to the carrier, and then lock onto the station.

My test signal for synchronous detection with any receiver is Radio New Zealand International on 15115 kHz during my local evenings. It's often subject to annoying rapid fades after sunset. My Drake R8 would lose lock and "bend" musical tones unmercifully, but there's no such problem when using the AR7030. I have not heard it lose lock even once on this signal.

With the manually-tuned SNC methods, greater than (+>0) or less than (<<) characters are displayed, indicating which direction the receiver needs to be tuned in order to gain lock.

For unknown reasons, the auto-tune synchronous detector occasionally takes considerably longer than usual to lock onto a
signal. The audio is heard uninterrupted in normal AM (envelope detection) while the receiver is "thinking". I've waited as long as 20 seconds for the AR7030 to switch to SNC mode. When it does, however, the result is rock-solid reception.

Construction and Design

The all-metal front panel and case are excellently finished and extremely robust. Only the built-in speaker’s grill is less sturdy than I’d like to see. The front panel is at least 5/16” thick, and the large main tuning knob is solid anodized metal and comfortable for bandscanning (it has very effective and "seamless" variable-rate tuning, also). The two smaller rotary controls are not as comfortable, being rather tiny knobs attached to mechanical encoders with quite "stiff" click-stops. It helped to refasten the knobs a bit further out on their 1/4” diameter shafts.

Aesthetics are mostly a personal matter, but in my opinion the AR7030 is quite good looking. The overall appearance resembles current British audio equipment. It does not have that "military-industnay look common to many shortwave receivers.

The AR7030’s compact size and bunker-like construction will be appreciated by anyone taking it along for DXpeditions. At approximately 9-1/2” X 9-1/2", the receiver’s "footprint" is very modest for situations where space is at a premium. The top-quality fit and finish is rarely seen these days in receivers in the AR7030’s price range.

Infrared Remote Control:

This is a standard item supplied with the AR7030, not an extra cost option as with ICOM’s R71A and Lowe’s HF-250 receivers. Most major settings and adjustments can be done with the remote, although changing the AGC time constants and turning the receiver on or off is not possible. These must be done from the AR7030 front panel.

The remote control has the “intelligence” we’ve come to expect from today’s microprocessor-based receivers. Frequencies can be enterd in kilohertz or megahertz. No leading zeroes or excess keystrokes are needed. Simply tap in the frequency, press the “kHz” or “MHz” key, and you’re there. Frequencies can be entered from the keypad in increments as small as 1.4 Hz (handy for utility monitors). Tuning frequency step size can also be entered and tuned from the remote.

The remote control is handcrafted with small rubbery rectangles masquerading as pushbuttons (common practice on many remotes). Initially I did not care for the feel or size of this unit, but I’ve now warmed up to it. Rather than use the remote from across the room, I place it on the desk in front of my receiver shell. I had a small "angle bracket" machined from black plastic and attached it to the back of the remote with heavy-duty Velcro fasteners. Two hidden lead strips (for extra weight) and small rubber feet (non-skid) complete the modification. This angles the remote towards the receiver and keeps it in a comfortable position. In this fashion I can change frequencies, filters, memories, passband shift, etc. with the remote at my left hand, while leaving my right hand free to control the AR7030 normally at the front panel. While actively DXing I tend to use the remote controller half of the time, and it’s very handy to have its keypad available.

The bracket is not needed if the receiver sits directly on the desk, as the infrared sensor has sufficient field-of-view. There is even a second infrared “eye” on the back panel of the radio to help catch reflected beams. All told, the remote is a fine addition to the AR7030 and adds to the radio’s versatility. Larry Magné, in his “Media Roundup” review on Radio Japan and writing in Monitoring Times, spoke of a review model of AR7030 that did not always register the remote’s keystrokes. This is not a problem with my receiver; 100% of the keystrokes “take” if the remote is aimed anywhere in the general vicinity of the sensor.

During the dawn-enhancement period of a recent DXpedition, I again encountered that heady experience of trans-Pacific MW stations appearing up and down the band with audio or strong beacons. In a situation like this, the AR7030’s infrared remote is essential for efficient DXing. A quickly changing DX opening is not the time to use a cumbersome receiver! Casual DXing can be done from the AR7030’s front panel alone, but be forewarned that the remote is truly a necessity when you need to fly up and down the band (keypad frequency memory entry) in the heat of battle. The receiver does have a Fast Tune button on the front panel, and it works well.

Lab Measurements

The following are measurements on my AR7030, serial# 100067. Many thanks to Craig Siegenthaler, President of Kiwa Electronics, for taking the time to perform these independent tests. Kiwa uses the test methods described by the ARRL (same as used by Willem Bos for the R. Netherlands Media Network review). The results are very close to AOR specs, with testing at the AOR-specified frequency the key factor. Test data on other AR7030 receivers and full details on the Premium Filter Modules are found on Kiwa’s internet world wide web page:

http://www.wolfe.net/~kiwa>

Noise Floor

L5B -130.5 dBm USB -130.5 dBm (preamp ON)
L5B -123 dBm USB -123 dBm (preamp OFF)

Noise Figure

Preamp OFF 19.5 dB Preamp ON 11.8 dB
Preamp OFF but using Kiwa SW Preamp 10.3 dB

Phase Noise

5 kHz spacing: -126.5 dBc/Hz
10 kHz spacing: -133.5 dBc/Hz
20 kHz spacing: -144.5 dBc/Hz
50 kHz spacing: -155 dBc/Hz

100 kHz spacing: -165 dBc/Hz

Note: -156 dBc/Hz is the limit of the measurement system.

Intermodulation

3rd Order Intercept measured at 12 MHz with the Kiwa SW Preamp:

200 kHz spacing: +34.0 dB
100 kHz spacing: +33.75 dB
50 kHz spacing: +33 dB
20 kHz spacing: +32.25 dB
3rd Order Intercept measured at 12 MHz +9.75 dB

Real World” Performance

In early May I took delivery of my AR7030 via FedEx from the communications retailer Javiation in the UK. The 695 US pounds price to the States (including shipping) worked out to $1052 US. The $54 invoice for the customs duty put the total at $1106, which is just a few dollars more than a Drake 88A in the USA. If one doesn’t mind the risks involved with overseas purchases this is the way to go, as the cost from US outlets reportedly will be around $1300.

Jonathan Clough at Javiation is excellent to deal with, however, and he regularly sells to US customers. This is the second time I’ve bought a receiver through Javiation without a hitch. Note the missing “I” in “javiation” if e-mailing:

<info@javiation.demon.co.uk>

Mininal Intermodulation

In the few months I’ve owned this receiver I have used it at home in a suburban neighborhood setting and during two DXpeditions to the Washington State coast. The home location is a test of the AR7030’s intermodulation performance when hooked up to one antenna in particular: a 350 ft. terminated, impedance-matched mini-
Beverage. Although this antenna is on a 270-degree bearing toward Papua New Guinea and Irian Jaya (two favorite DX targets), it is also directly in line with a few mediumwave powerhouses.

The only instance of intermod I've discovered with this antenna and the AR7030 is weak garbled audio at 3260 kHz, which is the mixing result of my two most powerful locals: (2 x 850 kHz) + 1500 kHz = 3250 kHz. Both of these "pin" the AR7030's digital S-meter (maximum display of +95 dB) on their primary frequencies. With Drake R-7 and R-8 receivers I previously owned, I would have a level of +95 dB.

The AR7030 mixing product doesn't raise the S-meter above the S-1 level band noise, but it is heard with audio from both 850 and 1500. Switching in 10dB of attenuation, adding a high-pass filter, or changing to another antenna completely removes the intermodulation. The intermod is only noticed when both stations are using daytime power.

Both the Drake R-7 and R-8 exhibited the same problem on 3260, so the AR7030 is not alone. So far I have discovered no other obvious mixing products--an any band--with the AR7030 at my home location. When I swiveled to the few other problem frequencies between 2.0 and 3.5 MHz, and in the longwave region. With the AR7030 connected to lengthy, unterminated Beverage antennas, I find no indications of mixing products or other spurious signals on longwave, mediumwave or shortwave.

Since modifying the high-pass filter as described above, the intermodulation products on 3260 kHz are completely gone. This is now the first receiver I've used that can pass the "3260 test". Kiwa Electronics' measurements show an AR7030 figure of only a few decibels: +29 dBm to +31 dBm, from 500 kHz to 32 MHz. The average IP3 looks to be +32.5 dBm. If you do not want to handle this delicate modification yourself, Kiwa Electronics will do the work for $70 parts and labor.

**Low Phase Noise, High Audio Quality.** The AR7030 is clearly the quietest solid-state receiver I've ever operated. In a comparison with recent models: (AOR DSP-40, NRD-525 receiver, the difference is dramatic. The low noise level is a revelation; and when used in a quiet setting with a good antenna you get the impression there is nothing between the signal, the atmospheric noise level, and your ears. The AR7030 seems nearly "transparent" as it goes about its business.

The best of the hollow-state receivers of the past could achieve phase noise figures of -160 dBc/Hz. With a measured phase noise of -156dBc/Hz. at 100 kHz spacing, my AR7030 is in the same range. This level of phase noise performance ensures minimal degradation of the dynamic selectivity of the receiver's IF filters. (This is a prime reason why Kiwa's Premium Filter Modules are a great addition to the AR7030.)

Audio quality in all voice modes and bandwidths is very pleasant, reminding me of the sound from John Thorpe's HF-series of receivers. A bonus for DXers is the very useful bass and treble settings. There are no "do-nothing" knobs on the AR7030! Control adjustment of the bass and treble helps intelligibility of weak, muffled stations such as the tropical band Indonesians.

During a DXpedition I made a comparison between the audio quality of a Drake R8 and the AR7030 on trans-Pacific mediumwave and tropical band stations (Solomon Islands 5020 kHz in particular). I used the same pair of headphones (Realistic PRO-25) and tried various bandwidths on each radio. The receivers sounded slightly, but distinctly different. The R8's audio could be described as "clear and crisp" and the AR7030's as "smooth and mellow". Both receivers are easy on the ears and can be listened to comfortably for hours on end. Most importantly, each receiver provides good intelligibility of signals.

**Selectivity.** When I'm bandscanning with the AR7030 it becomes apparent that selectivity is quite good. The best stock filter is a 2.2 ceramic, and it's the filter of choice for serious DXing if no optional, higher quality filters have been installed. If all six filter positions are filled there are no less than ten individual IF filters comprising the I.F. chain (including "post-I.F." filters). This cascading of bandwidths results in very good adjacent channel rejection, even though most of the stock I.F. filters are inexpensive MuRata ceramics (such as used in low-cost portable receivers). The selectivity John Thorpe has achieved through careful circuit design and modest compromises is impressive. (A similar approach is used in the design of Kiwa Electronics' Premium Filter Modules.)

The above average filtering and the AR7030's passband shift control are highly useful for DXing mediumwave "splits". As an example, while I was listening to 3SK1 Kiribati on 846 kHz, it was possible to avoid interference from a strong semi-local on 850 kHz by tuning in 5kHz and using the wide-ranging (+/- 4.2 kHz) passband shift. In my opinion the AR7030 provided better reception than a NRD-535D on this station. Even though the NRD-535D has the unique variable bandwidth control (BWC), that filter degrades in shape factor as it is narrowed. Also, the passband shift does not have an adjustment range approaching the AR7030's (the NRD-535D has a passband shift range of +/- 0.5 kHz).

Because of different bandwidths in the two receivers, it was tough to compare the selectivity of the AR7030 against the RSA. The specifications would appear to give the AR7030's stock filtering an edge, but in actual use on foreign mediumwave and tropical band DX they both performed very well. More comparisons need to be done, but it appeared to me that the AR7030's stock filtering is at least equal to the RSA.

The Kiwa Electronics' bandwidths give a modest audible edge to the AR7030 when using those two filters in my receiver. Unfortunately, the RSA's filtering cannot be changed or upgraded because the bandwidths are composed of many individual and carefully-matched parts on the circuit board.

The cumulative effect of the cascaded filters results in very good performance even with the wider stock bandwidths. I've been surprised more than once by the usefulness of the stock 5.4 and 6.4 filters when coupled with passband shifts or software tuning. Even in the most difficult mediumwave band the 5.4 filter is usable for DXing stronger trans-Pacific split frequency stations. The Kiwa PFM 4.4 module that replaced the stock 5.4 filter position in my AR7030 is an even better choice for stronger splits.

Despite the useful passband shift, occasionally some carriers or hits cannot be overcome (as with any radio); a notch filter would be welcome on the AR7030. An optional notch filter is expected to be available by the AR7030's release date. The AR7030's audio could be described as "clear and crisp" and the AR7030's as "smooth and mellow". Both receivers are easy on the ears and can be listened to comfortably for hours on end. Most importantly, each receiver provides good intelligibility of signals.

**Nice Touches.** There are many small details that become noticeable and useful to the DXer as he spends more time with the receiver. The following are a few features that I consider "nice touches":

1) No immediate blast of audio in the AGC off position. The I.F. gain takes a couple seconds to reach 100%, so coming through all three AGC speeds is gentler on the ears when the off position is reached.

2) The high-impedance antenna port and the ground connection for the AR7030 use a locknut to secure the wire, rather than a spring-loaded pushbutton. I find it easier and quicker to use than the typical spring connector. A small detail to be sure, but it's appreciated when working around the back of the AR7030 in low light conditions or amongst a tangle of wires and cables.

3) The relay timer, the 24-hour clock, and sleep timer are easy to set and activate. I particularly like how the AR7030 displays both the current time and "TIMER ON AT 18:30" (for example) on the dot-matrix display when the receiver is on standby for remote recording. When the AR7030 is turned on for operation it can show the current time to the hour including seconds, on the display if desired.

4) Utility and HF aero monitors will enjoy the powerful scanning and squelch facilities. The receiver provides adjustable hold, delay, and other features. The squelch level can be set independently for VFO's A and B, as well as for each of the 100 memories. Scanning on HF has some real limitations, but the AR7030's independent squelch settings makes the most of variable conditions from band to band.

5) The three S-meter is composed of 70 segments and is very accurate. I suspect that each S-unit (and intermediate step) is programmed into the AR7030's microprocessor, so that the meter will not respond until the proper signal level is encountered. Traditional analog S-meters are rarely linear and exacting across their entire range.

6) The excellent owner's manual is one of the best around, and the discussion of contemporary receivers. Curiously it lacks the British colloquialisms found in other UK equipment manuals. It almost reads as if it were written by a US author. Particularly interesting and educational about the filter calibration routine and the automatic tuning synchronous detector. Full technical details and a block diagram are at the end of the manual, but no circuit diagram. AOR does not include computer control data in the owner's manual. The PC information...
is in a separate nine-page document. Because it's possible to accidentally scramble the data in the AR7030's microprocessor via computer, AOR is reluctant to widely publish programming information. This receiver is a major leap forward in PC control capability (even individual mixers and oscillators can be controlled by computer link). Careless programming can transform anything into an expensive and attractive paperweight! Interestingly, all commands to the receiver are byte structured in binary format, so it is not possible to control from a terminal.

7) The customer service and support of AOR has been nothing short of excellent. They are clearly eager to answer questions, give suggestions, and be of assistance to new and potential AR7030 owners. Richard Hillier is the contact in AOR's Marketing Dept. at the UK facility. He can be e-mailed at: <info@aor.co.uk>. Mr. Hillier can also put you in touch with John Thorpe and/or pass along your message to him if needed.

AOR also has an internet WWW homepage which presents useful data on the AR7030 and other AOR receivers. Found there is full technical information on the AR7030 (including graphics-intensive I.F. filter plots, AGC response curves, etc.), press releases, and general information on IFDR and IF7 measurement on communications receivers. The URL is: http://www.demon.co.uk/aor

**Difficulties**

As with any receiver, this radio has some quirks and problems here and there. The few that have gotten my attention are described below.

1) The selection of different filter bandwidths or RF attenuation settings causes a brief "pop" to be heard from the speaker or headphones.

2) For those who plan to run the AR7030 from 12 volts instead of the recommended 15 volts, be aware of some anomalies caused by the reduced voltage. On a DXpedition I did some comparisons between 12.5vdc operation and 15vdc, and discovered some subtle but useful effects: a decrease in opposite sideband rejection and an increase in digital switching noise at 12.5 volts power. Using the lower voltage, I found that when tuning in USB and approaching a signal from below, a low volume, rise and fall is heard for about 1.5-2 kHz above (past) the center frequency. This effect is reduced 75-100% with 15 volts DC power! I believe this crude test illustrates a degradation in opposite sideband rejection at 12.5 volts. It was interesting to note that a NRD-525 was much worse in opposite sideband rejection at its normal 12vdpc power.

At the 12.5 volts level, I found a slight to moderate increase in switching noises, pops, and low buzzes when pushing various buttons. These were all at very low audio levels, but noticeable with careful listening. These noises are virtually absent at 15 volts, except for when filter or attenuation settings are changed (these are louder and occur irregardless of DC power). Note that these artifacts are only heard during the actual brief moment that the button makes contact when pressed. In the future I plan to run the AR7030 from 15 volts exclusively, for any serious DXing while at home or on a DXpedition. I have modified one of my 12vdv DXpedition lead-acid batteries to include 3vdc cells in series/parallel connection to provide the optimum 15 volts.

3) DXpedition use of the AR7030 with Beverage antennas revealed that the preamplifier is needed when listening to extremely weak signals, at or above the noise level under truly receivers. In sensitivity comparisons to a NRD-525 and Drake R-8, the AR7030 equaled the performance only when its preamplifier was activated. (The test signal was Radio Enga, 2410 kHz, duration 30 minutes in audio at 0820 UTC.) Note that the preamp helped intelligibility only for the weakest of signals under quiet conditions. Another example is my reception and subsequent verification of 2AM Sydney, Australia, on 1620 kHz. This tourist radio station in the Australian expanded mediumwave band runs 400 watts of power. On two different DXpeditions 2AM's signal was audible without the AR7030's preamp but intelligibility was nil. With the preamp engaged, 2AM improved enough to allow to discern an occasional phrase or sentence (particularly during the second coastal DXpedition).

The typical suburban DXing location has enough local noise and interference to mask truly faint signals, and use of the preamp just raises noise (while reducing 3rd order intercept point, the opposite of what's needed in or near cities). Stated another way, it is my impression that the preamp improves weak signals in a DXpedition environment but not at home where noise levels are higher. I have not noticed any circuit noise increase when using the AR7030's preamp.

4) A receiver of the AR7030's caliber should have more than 100 memories. Serious DXers (especially if they tune foreign mediumwave) can easily make use of 200 or more memory channels. With only 100 memories, an excellent opportunity has been missed to make the AR7030 the receiver of choice for the DXer with many targets across the LF/MW/HF spectrum. The AR7030 has been nothing short of excellent. They have noticed any circuit noise increase when the program helps weak signals in a DXpedition environment but not at home where noise levels are higher. I have not noticed any circuit noise increase when using the AR7030's preamp.

**Conclusions**

In this age of mega-corporations and design by committee, it is refreshing to see what can be done by a single talented engineer with a vision. Surely, John Thorpe and AOR's UK facility are producing a remarkably useful receiver for the hobbyist and beyond. I wouldn't be surprised to learn of cash-conscious organizations in industry and government choosing the AR7030 over other, more expensive commercial receivers for computer-controlled or remote monitoring. (Rack-mounted Drake R8/R8A receivers have been employed for the same purpose.)

The AR7030 is a very good value, and for the money it's a lot of receiver, especially if you live in the USA and purchase direct from England. How willing are you to sacrifice a larger front panel, separate controls and the traditional approach to receiver operation in exchange for high performance, portability, and reasonable cost? It's not easy for long-time DXers, who have strong opinions about "real" radios. Will this receiver become a DX'er's workhorse or languish on retailer's shelves as a collecting curiosity? AOR management will readily know our consensus answer to this question, when they study sales figures in the years ahead.

**Note:** This review originally appeared in a slightly different form, in the Ontario DXers Association's newsletter, DX Ottawa. Guy Atkins has been active in Africa on the tropical bands since 1980, with occasional side-trips of trans-Pacific MW DXing. In the late 1980's he promoted the hobby in the Seattle area through publication of the Cascade Mountain DX Club newsletter and DX-Northwest's Grayline Report. Guy joined Fine Tuning's "Proceedings" editorial staff in 1989. He is also a member of Numero Uno, the Ontario DX Association and a contributor to the OZ DX newsletter. Guy is with the Quality Assurance department of Zetex, a manufacturer of nuclear powerplant safety inspection systems used worldwide.
Well, the dog days of summer are over and as you read this Polly and I will be on our way back to Quito for another term of service with HCJB. I hope you’ll join me every Saturday as I take on the responsibility for a time of producing and hosting the DX Party Line. Meanwhile, all mail should be sent to me at either the Quito or Colorado address above or at my NEW e-mail address: kmacharg@hcjb.org.ec. I look forward to hearing from you. Now, on to some good confirmations.

North America

Canada

ALBERTA, CMX, 1060, Calgary, f/d letter in 15 days after f/up. V/s Ken Pasolli, TD. (Wilkins-CO)

ALBERTA, CKNX, 1090, f/d letter, sticker in 13 days. V/s Tyler Everitt, CE. (Wilkins-CO)

ONTARIO, CHML, 900, Hamilton, QSL card, stickers and brochure on Canadian attractions in 391 days. No v/s. (Pote-IN)

USA

ARIZONA, KFL, 830, Tucson, letter, schedule and sticker in 7 days. V/s Dave Ficere, Asst. Manager. (Pote-IN)

ARIZONA, KXOY, 580, Phoenix, letter, coverage map, schedule in 8 days. V/s Terry Hardin, GM. (Pote-IN)

CALIFORNIA, KVEN, 1450, Ventura, handwritten veri on letterhead in 10 months after f/up. (Rolph-AD)

CALIFORNIA, KXBT, 1640, Vallejo, p/d card in 17 days. V/s Alan. (Wilkins-CO)

CALIFORNIA, KXEX, 1550, Fresno, ppp card, promo material. V/s Albert R. Perez, Stn. Mgr. Station address: 139 W. Olive Ave., Fresno, CA 93728-3035. (Wilkins-CO)

FLORIDA, WAMR, 1320, Venice, letter and sticker in 90 days. V/s Lee Freshwater, Dir. Eng. (Pote-IN)

FLORIDA, WEAG, 1490, Starke, f/d letter in 91 days. V/s Lee Freshwater. (Tiara-NC)

FLORIDA, WMOP, 900, Ocala, letter, sticker in 89 days. V/s Lee Freshwater, Dir. Eng. (Pote-IN)

FLORIDA, WMPR, 900, Ocala, f/d letter in 91 days and same in 96 days. V/s Lee Freshwater. (Tiara-NC)

FLORIDA, WOCA, 1370, Ocala, letter, balloons and stickers in 89 days. V/s Lee Freshwater, Dir. Eng. (Pote-IN)

FLORIDA, WOCA, 1370, Ocala, f/d letter in 91 days. V/s Lee Freshwater. (Tiara-NC)

FLORIDA, WRUF, 850, Gainesville, f/d letter in 90 days. V/s Lee Freshwater. (Tiara-NC)

FLORIDA, WTMH, 1290, Ocala, letter, sticker in 89 days. V/s Lee Freshwater. (Pote-IN)

FLORIDA, WTMH, 1290, Ocala, f/d letter in 91 days. V/s Lee Freshwater. (Tiara-NC)

FLORIDA, WMYT, 1280, Sarasota, f/d letter in 90 days. V/s Lee Freshwater. [This Mr. Freshwater sounds like a very busy and nice man!] --Ken (Tiara-NC)

HAWAII, KGCA, 670, Hilo, letter, stickers in 13 days after f/up. V/s Ken Hupp. (Wilkins-CO)

IDAHO, KSBU, 730, Boise, f/d letter and sticker in 119 days. V/s Ralph Hogan, DE. (Tiara-NC)

INDIANA, WNON, 930, Richmond, letter in 50 days. V/s Dan Mills, PD. (Pote-IN)

ILLINOIS, WLBH, 1170, Mattoon, Verie letter with apology, sticker and two 50th year in b/casting stickers in 70 days. V/s Rick Berg, GM. (Pote-IN)

ILLINOIS, WMQAQ, 670, Chicago, letter in 95 days. V/s Gregory Scott Davis, Eng. Manager. (Pote-IN)

KENTUCKY, WHAS, 840, Louisville, unsigned QSL in 45 days. (Pote-IN)

KENTUCKY, WVLK, 590, Lexington, p/d letter, magnet in 10 days. V/s Tom Devine, CE. (Wilkins-CO)

KANSAS, KXX, 790, Colby, letter in 5 days. V/s Joe Munsell, St. Manager. (Pote-IN)

MARYLAND, ABS, 1670, Ft. Meade, Verification Certificate (and a nice one, too!) in 107 days. V/s Donald Brown. (Tiara-NC)

MARYLAND, XTRK, 1670, Ft. Mead, official looking certificate of verification from U.S. Army in 96 days. V/s Donald Browne, Proj. Manager. (Pote-IN)

MARYLAND, WWIN, 1400, Baltimore, p/d letter in 1 week after f/up. V/s Wendell S. Hall, Jr., asst CE. (Myers-VA)

MICHIGAN, WKAR, 780, East Lansing, letter and station schedule in 19 days. V/s Curt GilToe, AM Program Manager and News Director. (Pote-IN)

MINNESOTA, WBEQ, 560, Duluth, f/d letter, map, station profile in 18 days. V/s Paul Kero, Ch. OP. (Wilkins-CO)

MISSOURI, KATZ, 1600, St. Louis, f/d letter and pen in 1 month. V/s Daryl McQuinn, D.E. (Rolph-AD)

MONTANA, KBOZ, 1090, Bozeman, f/d letter, sticker in 16 days. V/s James Bender, CE. (Wilkins-CO)

MONTANA, KMON, 560, Great Falls, f/d card, balloons, map in 112 days. V/s Mike Saarki, CE. (Wilkins-CO)

NEBRASKA, KRBN, 880, Lexington, f/d card, sticker, business card and station info in 16 days. V/s Vern Killen, WSLY, Dir. Eng. (Rolph-AD)

NEW JERSEY, WJDM, 1680, Elizabeth, p/d letter, map in 53 days. V/s Don Neumuller, CE. (Wilkins-CO)

NEW JERSEY, WRCN, 1510, Hackettstown, f/d letter, copy of test report in 3 months. V/s Tom King, Pres. (Myers-VA)

NEW JERSEY, WLR, 1510, Nashville, QSL card and IRCa info sheet in 51 days. V/s Tom Bryant, Prod. Manager. (Pote-IN)

TEXAS, KCTA, 1030, Corpus Christi, bumper sticker, QSL letter, schedule and coverage map in 6 days. V/s Dave Freymiller, Rhonda York and Leanna Wilson. (Pote-IN)

TEXAS, KRLD, 1080, Arlington, letter, map and history of station in 5 days. V/s Dric Disen, Dir. of Programming.

UTAH, KAPN, 860, Salt Lake City, f/d letter, stickers and patch from sister station KCNR in 16 days after f/up. V/s Zandi Holden, Ex. Assist. (Wilkins-CO)

VIRGINIA, WINC, 1400, Winchester, n/f letter in 1 week after f/u. V/s Tom Scheithe, GM. (Myers-VA)


OUTSIDE OF NORTH AMERICA

GRENADA, Harbour Light of the Windwards, 1400, Carriacou, f/d QSL card, postcard of staff, info sheets, station philosophy pamphlets, tracts and personal letter in 2 months. V/s Rolen Cornelius, Manager. Heard while in Venezuela. (MacHarg-KY)

MEXICO, XEEB, 760, Ciudad Obregon, Sonora. Ppd card in 24 days after f/up. (Wilkins-CO)


TURKS & CAICOS ISLANDS, Caribbean Christian Radio, 1025, f/d card in 34 days. V/s illegible but looks like Jerry Kiefer who signed my Atlantic Beacon a few years ago. [Yep, he signs them. I sure wish he would sign one for my report and f/up from 3 years ago!] --Ken (Wilkins-CO)

Bad news, which is really good news! I have so many listings of QSL's and have run out of both space and time. So, I'll hold over some good QSL's from Don Treford and Henry Lazarus until the next time. Sorry, but keep those contributions coming --Ken

Thanks to this month's contributors: Ken MacHarg, Louisville, Kentucky, Greg, Myers, Richmond, VA. Robert Pote, Greenwood, IN. [Hey Robert, have you ever eaten at Jonathan Byrd's?]

Locally, WLIR-1300, Spring Valley is still using that call (as is an FM station, in Garden City, NY, to whom the call is REALLY assigned), while airing very old adult standards (almost the stuff played by the Titanic’s dance band!), and is IDing as “1300 Memory Lane” and “As of the M Street Journal, WMZQ-1390, Arlington, VA, which has simulcast its FM country’s music for a number of years, now embarks on a new to the industry format - all music talk!”

Onyschuk advises that WJJD-1160, Chicago has gone back to adult standards, retaining only the Liddy and Leykis talk shows. If you enjoy the adult standard or nostalgia formats and are in the Chicago area, Ken notes that you can hear these formats on the following area stations; WMBD-1190, Sun Prairie, WL, WNTA-1330, Rockford. We now go to Long Island for a Dial Scan, courtesy of Jim Guthrie!

Here are the latest format changes, mostly from the M Street Journal.

<table>
<thead>
<tr>
<th>Station</th>
<th>Call Letters</th>
<th>City</th>
</tr>
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<tbody>
<tr>
<td>580 WKTY WI</td>
<td>LaCrosse</td>
<td>- Sports</td>
</tr>
<tr>
<td>740 WMIN WI</td>
<td>Hudson</td>
<td>- JSN Adult Standards</td>
</tr>
<tr>
<td>750 WPDX VV</td>
<td>Clarksville</td>
<td>- Southern Gospel</td>
</tr>
<tr>
<td>910 WYLI OH</td>
<td>Marietta</td>
<td>- Hot adult contemporary</td>
</tr>
<tr>
<td>970 WAVG KY</td>
<td>Louisville</td>
<td>- JSN Adult Standards</td>
</tr>
<tr>
<td>1090 WCAR MI</td>
<td>- This little ten tower, 250/500 U-4 watt station has dropped its brokered variety for CSN Children’s programming!</td>
<td></td>
</tr>
<tr>
<td>1090 WKC V TN</td>
<td>Kingsport</td>
<td>- To be gospel in September.</td>
</tr>
<tr>
<td>1140 KCMJ CA</td>
<td>Palm Springs</td>
<td>- JSN Adult Standards.</td>
</tr>
<tr>
<td>1140 KGC HC TX</td>
<td>- Conese</td>
<td>- Drops black gospel for country music.</td>
</tr>
<tr>
<td>1160 WAMB TN</td>
<td>Donelson</td>
<td>- JSN Adult Standards.</td>
</tr>
<tr>
<td>1170 KCBQ CA</td>
<td>San Diego</td>
<td>- Talk.</td>
</tr>
<tr>
<td>1230 KVAK AK</td>
<td>Valdez</td>
<td>- WW-I Adult Contemporary.</td>
</tr>
<tr>
<td>1230 KWG ST</td>
<td>Stockton</td>
<td>- Spanish hits.</td>
</tr>
<tr>
<td>1230 KDXC CA</td>
<td>San Diego</td>
<td>- Kidstar Childrens programming.</td>
</tr>
<tr>
<td>1260 WRIE PA</td>
<td>Erie</td>
<td>- JSN Adult Standards.</td>
</tr>
<tr>
<td>1260 WISO PR</td>
<td>Ponce</td>
<td>- Spanish talk / WAPA.</td>
</tr>
<tr>
<td>1270 WNLS FL</td>
<td>Tallahassee</td>
<td>- Sports.</td>
</tr>
<tr>
<td>1280 KPRV OK</td>
<td>Poteau</td>
<td>- United (EX-PRN) News and Talk.</td>
</tr>
<tr>
<td>1290 KXKC CD</td>
<td>Denver</td>
<td>- Talk, ID's as &quot;Ralph(M)&quot; (((((TT))).</td>
</tr>
<tr>
<td>1310 WDOZ MI</td>
<td>Dearborn</td>
<td>- This old rocker now carries Kidstar children's programming.</td>
</tr>
<tr>
<td>1320 WQIN TN</td>
<td>Kingsport</td>
<td>- Talk and sports.</td>
</tr>
<tr>
<td>1340 KCDN NV</td>
<td>Elko</td>
<td>- New station, news and talk.</td>
</tr>
<tr>
<td>1340 KKKW WA</td>
<td>Wenatchee</td>
<td>- JSN Regional Mexican.</td>
</tr>
<tr>
<td>1340 WEMP WV</td>
<td>Martinsburg</td>
<td>- Talk and Sports.</td>
</tr>
<tr>
<td>1360 KCMG MO</td>
<td>Mountain Grove</td>
<td>- Religion.</td>
</tr>
<tr>
<td>1370 WVX IL</td>
<td>Lincoln</td>
<td>- News and talk / WTX.</td>
</tr>
<tr>
<td>1380 WLV  FL</td>
<td>Lake Worth</td>
<td>- Now Tejano / WAWC. I wonder if the huge varnished wood sculptured dove of peace is still on the front of its studio building - as it was in the station's religion formatted days? (TF).</td>
</tr>
<tr>
<td>1380 WFL CL</td>
<td>Clintonville</td>
<td>- ABC Adult Standards.</td>
</tr>
<tr>
<td>1390 KCDR CA</td>
<td>Turlock</td>
<td>- Spanish hits / KKW.</td>
</tr>
<tr>
<td>1390 KLCN UT</td>
<td>Logan</td>
<td>- WW-I Adult Standards.</td>
</tr>
<tr>
<td>1400 WKC V TN</td>
<td>Kingsport</td>
<td>- United Talk.</td>
</tr>
<tr>
<td>1410 KLQV TX</td>
<td>Athens</td>
<td>- One on One Sports.</td>
</tr>
<tr>
<td>1420 WHK OH</td>
<td>Cleveland</td>
<td>- One on One Sports, pending its sale to Salem Broadcasting.</td>
</tr>
<tr>
<td>1420 WBRD FL</td>
<td>Palmetto</td>
<td>- Southern Gospel.</td>
</tr>
<tr>
<td>1430 WEIR WV</td>
<td>Weirton</td>
<td>- ABC Adult Standards.</td>
</tr>
</tbody>
</table>

1450 WXWW IN | Jeffersonville | - JSN Adult Standards. |
1490 WMOG GA | Brunswick    | - ABC Real Country. |
1490 KRTN NM | Raton        | - JSN Adult Alternative. |
1490 WXXR VA | Hampton      | - Contemporary Christian. |
1500 WAKE IN | Valparaiso   | - JSN Adult Standards. |
1530 KHKY CA | Moreno Valley | - Broketed variety. |
1530 WOLS FL | Jacksonville | - Urban adult contemporary. |
1550 WKQV PA | Pittston     | - News and talk / WARM. |
1550 WITC PA | Towanda      | - JSN Oldies / FM. |
1560 WPAD KY | Paducah      | - JSN Adult Standards. |
1560 KKD OK | Sallislaw    | - ABC Real Country. |
1560 WCCP SC | Clemson      | - News and talk. |
1570 WKXV KY | Burkeville   | - JSN Country Music / FM. |
1580 KZKL NM | Albuquerque  | - Oldies / FM. |
1590 WXRF PR | Guayama      | - Spanish hits / WMEG. |
1600 WKWF FL | Key West     | - Prime Sports. |

What a dull line up! All automated and satellite fed! Boring!
We now go to Long Island for a Dial Scan, courtesy of Jim Guthrie!

940 WLUX Iliop - Big band standards from the 1940's to the 1960's and light pop favorites from the '60's and '70's, with real DJ's playing the music. 
940 WSGM Huntington - This 25,000 watt daytimer totally simulcasts its weak FM sister, WMJZ-94.3, with country music. WSGM is the only country music station heard over most of the New York City market!
1100 WHLI Hempstead - Adult standards. This 10,000 watt daytimer offers a more traditional mix than WLIX, and has real DJ's including some ex-WOCA talent, spinning the records. WHLI is Long Island's top AM station.
1240 WGBB Freeport - Mostly brokered talk and ethnic programming, but does carry G. Gordon Liddy and Oliver North.
1370 WALK Patchouge - Soft adult contemporary, hits from the '50s to the '80s, "Sunrise 1370". 
1390 WRRV Riverhead - Full service adult standards. 
1440 WNYG Babylon - "Buenivenda 1440" Hispanic and regional Mexican music. 
1520 WTHE Mineola - Black gospel, paid religion, "Gospel Radio with a Purpose". 
1580 WLLM Patchouge - 10,000 watt daytime station, adult standards, jazz, and blues. 
1600 WLNQ Sag Harbor - Totally simulcasts WLNQ-FM with full service oldies, and tons of remote broadcasts.

Thank you very much, Jim. And, as the new DX season is upon us, do get your format changes in to your Formats column, so all we know to what we are listening to, in this age of legal ID's only on the hour! Good DX'ing to all!

Barry S. Finkel BSFINKEL@ANL.gov

Here is the first NFL information. I know that the Major League Baseball season has not ended, and I am still missing many network lists. If you have any that I have not published, please send them to me. I do not yet have NFL flagship information, but I have retrieved two network lists off of the World Wide Web. If you visit a Web site that SHOULD have a network list but doesn't, then send me a note suggesting that the network list would be a good addition to that Web site. I have done this, and the Colts' Network list should be available at http://www.wbfc.com shortly.

CBS Radio NFL Network (retrieved from http://www.cbsradio.com on 09/04/96) Note that some stations on this list carry only the CBS radio sports feed; they don't carry the CBS Radio News broadcasts. Also note that the reverse is true; some CBS Radio network stations do not carry the sports feed. As I have noted previously, if a home team is playing in the game, the CBS station will not broadcast the game, instead deferring to the team's flagship station. This list is very similar to the broadcasts moved to 720 WGN-IL (from 780 WBBM-IL, the CBS radio station in Chicago). There

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<td>Moreno Valley</td>
<td>- Broketed variety.</td>
</tr>
<tr>
<td>1530 WOLS FL</td>
<td>Jacksonville</td>
<td>- Urban adult contemporary.</td>
</tr>
<tr>
<td>1550 WKQV PA</td>
<td>Pittston</td>
<td>- News and talk / WARM.</td>
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were six stations in Nebraska last year; there are none this year. I do not know if this is an oversight on the part of the CBS Radio Webmaster. I also had the opportunity to correct some errors in last year's list — there were four Virginia stations that I had placed in Wyoming, and one station was missing the last letter of its call. This list is subject to change.

In the second-week's broadcast, Sunday evening games, and the playoff games. The announcing team is Matt Millen, Jim Hunter, and Greg Gumbel — co-hosts of CBS Radio's NFL pre-game and half-time shows and the weekly "NFL Preview" program.

Howard David and Pat Hayden, John Rooney and John Dockery. Note the disappearance from the participating.

We are intrigued by the issuance of a license by the FCC for an experimental station to operate at Buffalo City, TN, on 1680 kHz in the expanded broadcast band (see "AM Switch;" DX News, Vol. 63, No. 7). No call letters were assigned. The licensee was subsequently identified by our "Musings" editor, Dave Schmidt, as Kintronic Laboratories, Inc., a manufacturer of broadcast equipment. Reception of an open carrier on 1680 kHz was reported sporadically by NRC members, but informed that it was really their station that I identified by our "Musings" editor, Dave Schmidt, as Kintronic Laboratories, Inc., a manufacturer of broadcast equipment. Reception of an open carrier on 1680 kHz was reported sporadically by NRC members, but informed that it was really their station that I identified by our "Musings" editor, Dave Schmidt, as Kintronic Laboratories, Inc., a manufacturer of broadcast equipment.

This point was made by Mr. Tom F. King, the president and founder of Kintronic Laboratories, Inc.

The writer decided to make a configurations tested. The tower has since been recognized as a reporter on 1680 kHz in the expanded broadcast band (see "AM Switch;" DX News, Vol. 63, No. 7). No call letters were assigned. The licensee was subsequently identified by our "Musings" editor, Dave Schmidt, as Kintronic Laboratories, Inc., a manufacturer of broadcast equipment. Reception of an open carrier on 1680 kHz was reported sporadically by NRC members, but informed that it was really their station that I identified by our "Musings" editor, Dave Schmidt, as Kintronic Laboratories, Inc., a manufacturer of broadcast equipment.

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ground system, as the result of conflict with the owner of the land surrounding the antenna towers, was recently employed by WWJZ-640, Mount Holly, N.J.

Dr. Cox and his associate expressed considerable interest in my copy of the new M Street Radio Directory, particularly in the section of Former Call Letters. They thought that it would be helpful in tracing Kintronic equipment in use by present stations but filed in their records under the old calls. A copy of a back issue of DX News was left with Dr. Cox. This visit showed that Kintronic Laboratories is most friendly and gracious, even though they had failed to reply to my reception report. Furthermore, it resulted in a rare verve from an unusual radio station, a copy of which accompanies this report.

June 24, 1996

Mr. Kermit Geary
1286 Riverview Drive
Walnutport, PA 18088

Dear Mr. Geary:

This letter verifies your reception of the FCC-licensed experimental radio station operated by Kintronic Laboratories, Incorporated in Bluff City, Tennessee between 8:55PM EST on Thursday, February 22nd and 11:10 AM on Friday, February 23rd. At the time you received our transmission, the station was operating at 400 watts on 1660 kHz in the expanded band.

Sincerely,

Tom F. King
President

KLJG was named by the students. The format stands for our business partners who originated the idea for the station.

KLJG

Broadcasting Live every school day
8:00 - 8:20 am
12:30 - 12:50 pm
2:30 - 3:10 pm

A special profile of KLJG-1610, Davenport, IA
by Chris Cuomo

Most colleges and universities have some sort of radio station, and so do many high schools. What about an elementary school?

Herb Krumweide, principal of Garfield Elementary School in Davenport, Iowa, thought so. Krumweide envisioned that a school radio station could be a valuable educational tool to his sixth grade class. He sought out sponsors, and three of them became the basis of the station's呼号: KRVR Radio "The River", Lunardi's Restaurant, and Junior Achievement. KLJG was named by the students after these sponsors and for Garfield School.

Students sell advertising (for just 25 cents per word) and write up sales agreements with sponsors. The station features classical music, selections chosen by the students in the best free-form tradition! The daily pledge of allegiance begins each broadcast day and is received on radios located in each classroom. Students parents are notified when their child will be reading the pledge so that they can tape the broadcast.

The station caught the attention of the local newspapers, which featured articles detailing the exploits of the Quad Cities' newest radio station. Amway also took notice, and the station was featured in a full-page advertisement that appeared in Newsweek and other publications.

KRVR radio provided technical assistance in setting the station up, installing the longwire antenna on the school's roof, providing the half-watt transmitter, a Precision instruments model. The studios fit nicely into a small closet on the first floor of the building. Music is played on CDs and commercials are played on cassettes. All studio equipment was purchased at a local Radio Shack.

The station debuted on August 31, 1993, the first day of the '93-'94 school year. Later, changes in the school district involved shifting sixth graders to a middle school and Herb Krumweide accepted a new position. Today, the station is operated by the school's fifth grade class, and teacher Joanne Hoogland is in charge of the station. Mrs. Hoogland graciously showed me the station when I dropped by on my way home from the 1995 NRC convention.