

DX News

Serving DX'ers since 1933



Volume 68, No. 30 - September 17, 2001 (ISSN 0737-1659)

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CPC Test Calendar
 WJNT MS 1180 Sept. 29 000-0100

WJNT-1180 - P.O. Box 1248 - Jackson, MS 39215-1248 will conduct a DX test on Saturday, September 29 from 12:00 am - 1:00 am CDT. The test will consist of regular programming (talk programming - Rhona at Night (Talk America) and Morse code IDs. WJNT will be operating with 50 kW non-directional. Reception reports (with return postage) may be sent to: Stan Carter, Chief Engineer (<http://www.wjnt.com>; slcarter@wjnt.com) Arranged by Lynn Hollerman for the IRCA CPC.

From the Publisher ... The 2001 NRC convention in Pittsburgh is history, and around 50 attendees had a wonderful time. The auction brought in around \$500, and a few attendees promised to "think about" joining the NRC. Host John Malicky is trying to catch up on his rest and promises to have a complete account of the convention written up in time for the next issue of DXN. Our thanks to John and all who were a part of making this event the success that it was. The location of the 2002 convention is pending and will be announced later.

Dues News ... Don't forget that the new NRC dues rates (to receive *DX News*) are as follows: \$28.00 to US addresses; \$38.00 to Canadian addresses, and \$52.00 to all others ... but CURRENT members may renew for up to two years at present rates if renewals are in to Ron Musco no later than Sept. 30, 2001.

Publications ... Check out the promos throughout this DXN before ordering your favorite item ... some prices have changed. The 2002 NRC Product Catalog is scheduled to be printed in the next DXN.

Steve Auyer sent me a review copy of a nifty book just out, *More Than Just a Sound*, a history of radio in the Syracuse area, and he's offering copies at the bargain price of \$6.00 (for USA orders). (He can do that; he's one of the authors!) Order from - Steve Auyer - 3925 Cloverfield Circle - Liverpool, NY 13090-3103. If you're outside the USA, check with him for shipping prices.

RadioFest 2001 ... Harold Sellers sends word of this GTG: The Ontario DX Association invites

radio enthusiasts to RadioFest 2001 Friday, September 28 to Sunday, September 30 at the Monte Carlo Inn, 374 South Service Road E, Oakville, Ontario. Registration for the event is \$10.00 (US\$7.00) For more information, contact Harold at 905-853-3518 / FAX 90853-3169 or by e-mail: listeningin@home.com.

DXN Publishing Schedule, Volume 69

Iss.	Deadline	Pub. Date	Iss.	Deadline	Pub. Date
1.	Sept. 21	Oct. 1	16.	Jan. 18	Jan. 28
2.	Oct. 5	Oct. 15	17.	Jan. 25	Feb. 4
3.	Oct. 12	Oct. 22	18.	Feb. 1	Feb. 11
4.	Oct. 19	Oct. 29	19.	Feb. 8	Feb. 18
5.	Oct. 26	Nov. 5	20.	Feb. 15	Feb. 25
6.	Nov 2	Nov 12	21.	Feb. 22	Mar. 4
7.	Nov 9	Nov 19	22.	Mar. 1	Mar. 11
8.	Nov 16	Nov 26	23.	Mar. 22	April 1
9.	Nov 23	Dec. 3	24.	April 5	April 15
10.	Nov. 30	Dec. 10	25.	April 19	April 29
11.	Dec. 7	Dec. 17	26.	May 10	May 20
12.	Dec. 14	Dec. 24	27.	June 7	June 17
13.	Dec. 28	Jan. 7	28.	July 5	July 15
14.	Jan. 4	Jan. 14	29.	Aug. 2	Aug. 12
15.	Jan 11	Jan. 21	30.	Sept. 6	Sept. 16

DX Time Machine

From the pages of DX News:

50 years ago ... from the September 1, 1951 DXN: Ernie Cooper, Brooklyn, NY mused that "follow-ups have been paying off handsomely here"; he received follow-up veries from WKRM, WBKV, WMOC, WHAP, KEIO, WJVB, KTAT, and WCRI-1050, the latter via a prepared card. From the Sept. 22 DXN: Dick Cooper submitted a full-page report on the NRC Convention at his home in Kittanning, PA, over the Labor Day weekend; 21 members and friends were in attendance, and Bob Gorsuch demonstrated a new \$975 Collins receiver.

25 years ago ... from the September 20, 1976 DXN: The front page of *DX News* was redesigned by member Cal Craig, Munro Falls, OH.

10 years ago ... from the September 23, 1991 DXN: CPC Chairman Wayne Heinen announced new CPC Chairman Jeff Tynan and noted that the 1990-'91 CPC season had 33 tests, 30 of them "confirmed" by at least one NRC member.

AM Switch

Jerry Starr jstarr@y-103.com
 c/o WHOT Radio
 4040 Simon Road
 Youngstown, OH 44512-1320

Status changes in AM stations, supplied by the FCC and listeners

CALL LETTER CHANGES

	<u>Old call</u>	<u>New call</u>
590	KSZZ CA San Bernardino	KRLH
850	CKMA BC Abbotsford	CFSR
930	KIXT WA Bellingham	KBAI
970	KUPL OR Portland	KUFO
980	KCTY CA Salinas	KDBV
1000	WDBE FL Jupiter	WDBF
1000	WHK OH Parma	WCCD
1010	KCMJ CA Thousand Palms	KXPS
1050	KEYF WA Dishman	KDRK
✓1090	WMTY SC Greenwood	WCZZ
1150	KSRB WA Seattle	KKNW*
1170	KBNZ HI Honolulu	KZEZ
1200	KOQI CA Soquel	KYAA
1210	WJZZ MI Kingsley	WLDR
1220	KBZS CA Palo Alto	KSFN
✓1220	WHKC OH Cleveland	WHK
1270	KXPS CA Thousand Palms	KCMJ
1320	KNRQ OR Eugene	KSCR
1330	WBTR GA Carrollton	WLBB*
1400	*New GA Moultrie	WHBS
✓1440	WFHM OH Warren	WHKW
1490	KWAB CO Boulder	KCFC

*Several call changes reported to us on incorrect frequencies last issue are corrected above.

APPLICATIONS FOR NEW STATIONS

770	FL Nassau Village-Ratliff: 50000/410 U4 (competes with existing application)
1180	IL Plano: 1000/400 U4 (requesting reconsideration of previously denied application)
1180	MN Baxter: 50000/5000 (5000 CH) U6 (requesting reconsideration of previously denied application)

GRANTS FOR NEW STATIONS

750	NH Manchester: 500/260 U4
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APPLICATIONS FROM EXISTING FACILITIES

620	WKHB PA Irwin: 5500/50 U1
840	WXEW PR Yabucoa: 5000/5000 U2 (request to reinstate expired CP)
910	KXEB TX Sherman: 1000/500 U4
980	WAZS SC Summerville: 50000/50000 U3
1000	CKBW NS Bridgewater: to 98.1 FM
1190	KMYL AZ Tolleson: 5000/400 U4
1190	KXMX CA Anaheim: 25000/1000 U4
1190	KPHN MO Kansas City: 5000/250 (1100 CH) U2
1200	WQDQ TN Nashville: 10000/195 (3800 CH) U2 (this station is on the air yet)
1230	KTJK TX Del Rio: 860/860 U1
1230	CHVB PQ Dolbeau: to 100.3 FM
1250	WMTR NJ Morristown: 5000/5000 U4
1310	WDOC KY Prestonsburg: 5000/25 U1
1380	KIFO HI Pearl City: to 1370 kHz, same powers and antenna
1470	KVLH OK Pauls Valley: 890/61 U4
1500	KIEV CA Burbank: 50000/14000 U4 (station not yet on the air)
1500	WTNE TN Trenton: 250/6 U1
1530	WVFC PA McConnellsburgh: to 1180 kHz 700 D3, city of license to King of Prussia, PA

(evidently wants to copy the engineering from the long expired CP for WBCQ-1180, a station that was granted for Quakertown, PA nearly 20 years ago but was never built)

GRANTS TO EXISTING FACILITIES

550	WKNJ NJ Lakeside: 250/28 U5
650	WJLT MA Ashland: 5000/9 U5
(850)	WEEU PA Reading: 20000/6000 U4
920	KGHO WA Olympia: 3000/17 U1
1030	KCTA TX Corpus Christi: 50000/1000 U2, relocate transmitter
1110	WEBS GA Calhoun: 3000/3 U1
1360	WWOW OH Conneaut: 5000/35 U1
1410	WQBQ FL Leesburg: 10000/90 U5
1450	WCIE NC Spring Lake: 950/950 U1
1550	KYCY CA San Francisco: 50000/40000 U4
1560	KWCO OK Chickasha: 1000/250 U2
1590	WOKX NC High Point: 1400/14 U1

OTHERNESS

660	KZ2XCU OR Eugene: 0/140 N1 synchro for KZTU Junction City is on
860	WGUL FL Dunedin: CP for 5000/1500 U4 is on
890	KLFF CA Arroyo Grande: new station expects to be on in September with REL format
920	KGHO WA Olympia: CP for 3000/17 U1 is on
980	WHSR FL Pompano Beach: application for 5000/2200 U4 DISMISSED
1030	KCTA TX Corpus Christi: CP for 50000/1000 U2 is on
1100	KZKL NM Milan: 5000/20 (2500 CH) U1
1120	WTWZ MS Clinton: CP for 7500 (2500 CH) D1 is on
1190	WECC GA St. Marys: CP for 1800 D1 from new site is on
1290	KDMS AR El Dorado: CP for 2500/106 U1 is on
1290	WHGR MI Houghton Lake: station is SILENT
1310	WPBC GA Decatur: CP for 2500/31 U1 is on
1310	KOCR MO Joplin: silent station is ON THE AIR
1320	KCLI OK Clinton: CP to relocate transmitter is on
1400	WGIL IL Galesburg: CP for 740/740 U1 is on
1400	WLLH MA Lowell: CP for 1000/1000 U1 from new site is on
1430	WGFS GA Covington: CP for 3900/212 U1 is on
1420	KYUU CA Yucca Valley: license CANCELLED, call DELETED
1470	KYUU KS Liberal: CP for 1000/170 U1 is on
1490	KXRE CO Manitou Springs: CP for 500/1000 U1 is on
1520	WRSL KY Sanford: station is SILENT pending a sale
1530	WLSP MI Lapeer: silent station is ON THE AIR
1660	WGIT PR Canovanas: new station is ON THE AIR
1670	WAWR MD Salisbury: CP CANCELLED, call DELETED

Z
1530 AM Austin Texas

THANKS: Bill Hale, Dave Schmidt, Ed Krejny, Shawn Axelrod, Jeff Falconer, Les Johnson and MSJ 73 and Good DX, Jerry Starr & Buffalo K. Foonman

The **NRC AM Radio Log, 22nd Edition**, including cross-referenced listings from 530-1700 khz, is compiled from both listeners' reports and official sources, making it the most accurate listing of U. S. and Canadian AM stations available. Unbound, three-hole punched for standard binders. \$19.95 to U. S. members; \$25.95 to U. S. non-NRC members; to Canadian members, \$23.00 (\$29.00 to non-NRC members). Airmail to members in western Europe (except Italy) and Australia, New Zealand, and Japan: \$29.00. All others contact us for exact prices. Order from: NRC Publications - Box 164 - Mannsville, NY 13661 (NY residents, please add sales tax).

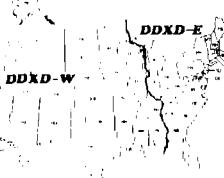


Domestic DX Digest

West: Bill Hale phantom 2@eaze.net

6124 Roaring Springs Drive - North Richland Hills, TX 76180-5552

(Division line is
between East and
Central time zones)



East: Michael Shaw mshaw002@tampabay.rr.com

455 Alt. 19 S., Apt. 176 - Palm Harbor, FL 34683-5931

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

DDXD-West

MEDIUM WAVE RAMBLINGS

- ❑ Comments from the crowd: "Summer still yielding new stations. This is not a winter sport . . . has been very hot . . . temps in low 90s F for last 3 days . . . snow is nowhere to be seen . . . hee heee." And again: "Conditions have been very volatile with great and poor atmospheric fluxing. Even some Mexicans making it on 1220 and 900. Love the new ones especially the Graveyarders. Some excellent distances from here." - **SA-MB**; "Finally, something worth sending in! A heavy work schedule and lousy July conditions were the culprits. These stations, while not new, are hopefully nice indicators of a good AM season . . . I hope, hi!" and later "Finally two days off and my first good session since April. Have been taping overnights nightly with little to show. 1450-WLEC and 1450-WKEI on this list were via tape recorder hooked up to SR III. Two radios going are better than one, hi! Nothing new but 960-WTCH and 1030-WWGB were nice surprises!" And still later: Still hoping to hit #2000 by year's end. Overnight taping producing nothing but mush (from 1450.) Heard classical on 1660 but waiting for ID. Take care all." - **JJR-WI**; "In preparing for my trip to Alaska this summer, visions of Northwest Territories 40-watters, Russian medium-wave and Japanese fishing beacons danced in my head. Just one, tiny, little, trivial fact escaped registration in my brain. If you travel to Alaska around the summer solstice plus or minus about three weeks . . . there's no nighttime! During this period, at all locations along the Alaska Highway and all the places you can reasonably get to in Alaska, the sun is below the horizon for only 2-4 hours a day and it never gets very far below the horizon. You can easily conduct outdoor activities 24 hours a day. There is not much gray line to work with. Reception on all bands was lousy. I attribute this to the abundant sunshine, the presumed relatively chaotic ionosphere near the poles and the fact that RV parks tend not to be low noise areas. WWVH was audible on 15 MHZ, but not WWV. CHU on 7335 was audible sometimes but poorly. I did not hear any 26 MHZ studio feeders. This all translates as: It was a dumb idea to lug the R8B all over the continent. Despite all this, following are the things I managed to scrape off the airwaves up there plus coming and going. Most logs are using the R8B with 25-100 ft. wires but some are using the GMC car radio and some with a 7600G plus 50 ft. open-end car-roof loop." - **HF-AK**;
- ❑ Since we are about to start the new 'season' of DX, let's go over a few basic rules of reporting: Make your reports look as if they were to be published. By this I mean put the information in the order you see here in the column. Use Eastern Time. Minimize the use of abbreviations. Make your report concise and to the point. Make sure what you report is real DX, not common daily receptions, unless it's to report a change in call letters or some oddball occurrence. Do not send reports of Mexican and other 'foreign' stations to the Domestic columns. That about covers it. Most loggings see the pages of *DX News*. Oh, and . . . I do not just cut-and-paste internet reports. I read 'em.
- ❑ Enjoy the next 10 pages of DDXD-West . . . I believe our biggest column all year!!!
- ❑ Thanks to all who have contributed to DDXD-West over the past year. Let's make the next DX season a good one, and report your loggings. GooDX to all.

REPORTERS

RA-CA René Auvray (Henderson, NV) DXing in Los Angeles GE P2900-A

RA-NV René Auvray Henderson GE P2900-A

SA-MB Shawn Axelrod Winnipeg Icom ICR-70 & Drake R8 + 4 Foot Unamplified Box Loop/Quantum Loop, 145' outdoor wire, 100' indoor wire, MFJ 1026 Phasing Unit <saxelrod@mb.sympatico.ca> [Visit Shawn at The AMANDX DX Info Site including the Canadian DX and Expanded Band Pages: <http://www.angelfire.com/mb/amandx/index.html>]



HF-AK

Harold Frogge (Midland, MI) DXING in various locations in Alaska R8B with 25-100 foot wires; GMC car radio; ICF-7600G plus 50 foot open-end car-roof loop

Gary Houdek Munden Magnavox digital AM-FM

Michael Hawk Boulder Drake R8B + Kiwa Loop <thisisatest22@yahoo.com>

Gary Jackson Sacramento FRG-8800 + Kiwa Loop

Don Kasky San Francisco Drake R8A + Kiwa Airloop <kaskey@jps.net>

Eric Loy Mahomet TRF <ecloy@netscape.net>

John J. Rieger South Milwaukee IC-R75 + Kiwa Loop; GE Superadio III + Terk AM1000 loop; Icom IC-R70, Kiwa loop + MFJ-959B Tuner/Preamp <johnjrieger@webtv.net>

Kevin Redding Mesa CCRadio barefoot; Kenwood R-1000 with 85 foot wire; Chris Cuff AM stereo modified Delco car radio and 85' antenna; DX-398 and Radio Shack 15-1853 loop <lwdxer@juno.com>

Kevin Redding DXing at Overgaard DX-398 + SM-2

Doug Smith Boise (WTFDA Convention); Grundig YB-400 barefoot

Doug Smith 1998 Ford Escort car radio in Moorhead

Doug Smith Pleasant View Grundig YB-400 barefoot

Doug Smith Provo Grundig YB-400 barefoot

Doug Smith near Moab on US-191 1998 Ford Escort car radio

Doug Smith Clarkston Grundig YB-400 barefoot

Mike Sanburn (Bellflower, CA) DXing in St. Louis GE Superadio <mikesanburn@hotmail.com>

Tim Hall Chula Vista ICF-2010, Kiwa Loop, Delco car radio <halls@inetworld.net>

Driving in Orange and Los Angeles Counties Delco car radio

Ed.-TX Editor North Richland Hills DX-398 barefoot

STATION NEWS & NOTES

710 **KUET** AZ Black Canyon City - 8/13 1120 - Heard testing and stunting with easy country music, in stereo, but no separation noted at this time. They are not testing with the full 22.5 kW allotted, but they are doing at least 5 kW. Announcing: *Its big. So big we can't tell you what it is. Then KUET your country!* and *Something big is coming, stay tuned to KUET, Black Canyon City.* All these things were announced while the same five songs are stunting. (**KR-AZ**)


1350 **WTAZ** IL Peoria - 8/30 - Is changing formats to Adult Standards and going back to the call letters of WOAM. They are stunting with various versions of "Unforgettable." (*Illinois Regional Airways* <<http://www.statesradio.com/>>)

1380 **KRCM** TX Beaumont - Switches from Southern gospel to oldies, as Big 138. (www.100000watts.com)

1450 **WFFX** MS Meridian - 8/30 - Now Fox Sports Radio 1450; ex: black gospel. (www.100000watts.com)

1550 **UNID** ?? - 8/31 - A continuous buzzing has been heard here every night for over a week. Must be a close station as is very strong. (**GH-KS**) [This off-frequency station has been the subject of discussion on the AMDX list server over the period Gary relates - Ed.]

1580 **KCHA** IA Charles City - 8/30 - Is now NOS (WW1); ex: News-Talk. (*DXMidAmerica* <<http://www.angelfire.com/wi/dxmidamerica/>>)

1660 **KXTR** KS Kansas City - 8/13 2300 - Poor signal, in a mess, with classical music and ID. Using these calls now. New. (**SA-MB**) [This has become the dominant signal here from Midnight to LSR, even winning the battle with KRZX, which signs off at Midnight - Ed.]

UNIDs and UNID HELP

810 **UNID** ?? - 8/26 0310 - Mexican music station playing ranchera and lots of banda. For a while blowing KGO off the air. Used slogan *La Tremenda* and *La Mexicana*. (**KR-AZ**)

820 **UNID** ?? - 8/30 0210 - SS noted with music thru KGO splatter. Too tired to stay with him. (**DKK-CA**)

850 **UNID** ?? - 8/26 0335 - Mexican music station playing almost only banda. Rare to see KOA get blown out like this. KOA showed back up about 0355 just in time to kill any chance at a ToH ID. (**KR-AZ**)

910 **UNID** ?? - 9/1 0935 - Weak/fading signals. One station with CNN News atop with oldies station beneath playing *Dean Martin* tune. XEAQ also there but ev-

eryone faded out in a few more minutes. KNEW noted off. (DKK-CA)

1050 UNID ?? - 9/6 0350-0405 - Christian hymns noted easily under local KTCT. Missed ID at ToH. KBLE or KORE???? (DKK-CA)

1090 Mix ?? - 6/25 0243-0308 - Possible mix of KYCA Seattle and XEPRS Rosarito. Poor, with peppy tropicales and C&W and oldies. (HF-Beaver Creek YK)

1110 UNID ?? - 8/22 0140 - During WRVA's problems, there was some loud distorted audio messing up this channel. Any link? (EL-IL) [I know one thing . . . WRVA is on 1140, hi - Ed.]

1410 UNID ?? - 9/3 0437-0450 - Poor, with *Good Time Oldies* slogan. Unneeded KOOQ-NE? (JJR-WI)

1420 KMOG? ?? - 7/30 0030 - Star Valley ad, phone number: 474-6665. (DS-UT)

1440 UNID ?? - 8/4 0600 - Mountain time zone TC and *Classic Country* ID. (SA-MB)

1440 UNID ?? - 8/18 0620 - Gospel music from south and east of me. (SA-MB)

1440 UNID ?? - 9/3 0504-0512 - Poor, with lively SS. This one I've noticed over some time. Totally stumped on this one. Overtaken by WJLJ. (JJR-WI) [IDed later in loggings - Ed.]

1510 KVPR? ?? - 8/14 0023 - Sounded like AM 1510 KVPR, well over local WLAC. But KVPR is an FM in Fresno, California, and nothing in the Log on 1510 looks phonetically similar. (DS-TN)

1530 UNID ?? - 8/27 2030-2042 - Poor, in WSAI null til fade out. *Sporting News Radio*. WLSP-MI? Help! (JJR-WI) [WLSP would be my guess - Ed.]

1530 UNID ?? - 8/30 0130-0200+ - SS noted with music under KFBK. (DKK-CA)

EQUIPMENT TESTS and foul-ups?

1140 WRVA VA Richmond - 8/22 0125 - Loud, open carrier with half-hour ad breaks, top-of-the-hour IDs and news only going on air. Heard in background: oldies/AC station with what sounded like a "WHHO" ID, a SS station (possibly unneeded Miami) and country (unneeded Alberta?). (EL-IL)

1300 UNID - 9/4 0445-0502 - Fair, in fade up, with non-ID as *Continuous Country* 99.9. No WOOD heard, but a little WRDZ and some local WMCS slop. ID was buried at :58. No idea!!!! (JJR-WI)

1310 UNID ?? - 8/27 0405-0407 - Poor-to-fair, with end of CNN News, with ads and *You're listening to Guy Wall on AM 1310 and FM 93.9*. Did WTTL-KY buy 93.9 WKTG? Help! (JJR-WI)

1440 UNID ?? - 8/4 0520 - Large open carrier, never heard anything said while listening or for an hour on re-checks. (SA-MB) ~~listen to your country~~

TIS & OTHER STUFF



620 WPFS414 CA Inglewood - 8/26 1153 - Good along I-405, with directions for people attending events at the forum, etc. (TRH-CA1)

620 (HAR) CA Los Angeles - 8/26 1207 - Noted *Tune to AM* 620 signs along I-405 at Wilshire Blvd. May have been an open carrier fighting with the Inglewood station; hard to tell. (TRH-CA1)

620 (TIS) CA Unknown - 8/26 1100 - UNID TIS running NOAA weather KWO37(?); mentioned Los Angeles and Orange County. Noted on car radio throughout Orange County on CA-73 and I-405. (TRH-CA1)

810 WPLX517 CA Santa Monica - 8/26 1154 - UCLA Emergency Station running test loop with ID. Noted along I-405. (TRH-CA1)

890 KPB792 CA San Diego - 8/26 2130 - Cabrillo National Monument TIS was noted with good signal on the car radio along I-5 in San Juan Capistrano near CA-1 interchange. Really gets out! (TRH-CA1)

1500 WPIE851 CA Beverly Hills - 8/26 1215 - City TIS logged from Brentwood with info about the city's new valet parking system! There seemed to be a second station way underneath this one as I drove home this afternoon. (TRH-CA1)

1610 (TIS) CA Near Culver City - 8/26 1157 - Noted *Tune to AM* 1610 sign along I-405 northbound at Washington Blvd. No station noted. Also noted signs along I-405 southbound at I-110. (TRH-CA1)

1610 (TIS) CA San Diego (San Ysidro) - 8/29 1745 - This scratchy pest has finally been taken off the air by Cal Trans. WNIB568 Chula Vista is also off the air, so bring on the TIS DX this winter! (TRH-CA)

1620 WPMW407CA San Juan Capistrano - 8/26 2100 - Cal Trans HAR with good signals along

CA-73. Fighting with KNNN868. (TRH-CA1)

1620 KNNN868 CA Santa Ana - 8/26 1115 - CalTrans HAR noted with huge signals along CA-73, mentioning these calls and city of license. San Juan Capistrano station was not on this morning. (TRH-CA1)

1620 WPGG527 CA Lakewood - 8/26 1130 - Noted along I-405 with civic info and "KLWD" non-IDs. (TRH-CA1)

1620 WPKE794 CA Torrance - 8/26 1147 - Noted along I-405 with road construction info, IDs, and "City Sound" slogan. (TRH-CA1)

1620 KA59502 ND Fargo - 7/23 ~1100 - North Dakota DOT station with information about construction at I-29/I-94 interchange. Sounds like a temporary call created from Fargo's Zip code. (DS-MN)

1640 WQO688 CA Irvine - 8/26 1055 - With poor signal along CA-73. Mentioned they were operated by the Irvine Police Department. Still using these "temporary" calls. (TRH-CA1)

1690 (WQO808) CA Culver City - 8/26 1200 - Open carrier only noted as I drove through this morning and again at the end of the afternoon. (TRH-CA1)

1700 HAR CA Los Angeles - 8/26 1150 - Station near I-405/I-105 interchange is still running its geeky message about field strength intensity, carrier output power, etc. (TRH-CA1)

1700 WNSB415 CA San Diego (South San Diego) - 8/29 1750 - Station replaced its "test message" today with a regular message: a re-recording of the English/Spanish message formerly heard on the 1610 station at the San Ysidro border crossing. Transmitter site remains at CA-905 at Beyer Blvd., where it was when this station was on 530 kHz. (TRH-CA)

1700 WNSB415 CA San Diego - IDed as the unID I've been hearing weakly and Tim Hall has reported. Verified by the head of TIS/HAR for Southern California Cal Trans. (GJ-CA)

1700 TIS/HAR CA 1700, BERRY ST., MONTREAL, P.Q.C., CANADA

540 KSRK CA Carmel Valley - 8/10 2300 - With nice call ID atop KVIP and horrendous KSFO splatter. Talk format. (DKK-CA)

540 KNMX NM Las Vegas - 9/1 1700 - With Mexican music and ToH ID. (KR-AZ1)

540 CBK SK Regina - 8/31 0733 - With lengthy sign-on announcements; nicely atop frequency. (DKK-CA)

550 KTZN AK Anchorage - 7/15 1907 - *Gold Panners vs Glacier Pilots* minor league baseball, ad for *Wizard Car Wash*. Non-ID as *The Zone*. (HF-Palmer, AK)

550 KLLV CO Breen - 9/1 1702 - ID: *This is radio from the heart*, K-Love, KLLV, Breen. (KR-AZ1)

550 KFYR ND Bismarck - 9/3 0658 - Poor, with clear ID out of nowhere. (JJR-WI)

550 CKPG BC Prince George - 6/18 0909-0912 - Excellent, with . . . the information station, AM 5-50 CKPG, and Late Night Sports Grill program. (HF-Prince George, BC)

560 KLZ CO Denver - 8/7 0225 - These guys were playing some very unusual and unheard 50s music. It was pretty cool to hear something not played a lot. In stereo. (KR-AZ)

560 KLZ CO Denver - 9/1 2258 - Playing an old version of *Here Comes the Night*. (KR-AZ1)

570 KLAC CA Los Angeles - 9/1 2032 - Playing *Light My Fire* by Jose Feliciano. (KR-AZ1)

570 KLIF TX Dallas - 9/2 0058 - ToH ID: *Newstalk 570 KLIF*. No location given. (KR-AZ1)

570 KNRS UT Salt Lake City - 9/1 2300 - With ToH ID. (KR-AZ1)

570 KVI WA Seattle - 7/21 0201 - Fair, with ABC News; 24 hour KVI 5-70 Newsroom. News with Heather. (HF-Iskut, BC)

580 KMJ CA Fresno - 9/2 0059 - Ad about *Burning the Blue Book at the Fresno Fairgrounds*. (KR-AZ1)

580 KFXD ID Nampa - 6/18 0133 - Poor-to-fair, with ID, C&W music. AM 5-80 KFXD. (HF-Prince George, BC)

580 WIBW KS Topeka - 9/4 0530 - Poor, with promo: AM 580-WIBW. Way down on frequency. (JJR-WI)

590 KSUB UT Cedar City - 9/1 2034 - With ID and that's about all I got. (KR-AZ1)
 580 CKAP ON Kapuskasing - 9/3 0530 - Poor, though steady, with promo. CKAP AM 58 in with ??? (JJR-WI)
 590 KHAR AK Anchorage 7/15 1910 - Excellent, with *From Seward to Talkeetna, Alaska's best music, KHAR Anchorage.* EZL pop music. (HF-Palmer, AK)
 590 KSZZ CA San Bernardino - 8/7 0234 - Playing banda and using slogans *Radio Tricolor* and *La Mexicanissima.* (KR-AZ1)
 600 KOGO CA San Diego - 9/1 2302 - San Diego Padres baseball. (KR-AZ1)
 600 CKBD BC Vancouver - 7/21 0202 - Good, with CKBD Vancouver, the station you can count on. EZL pop music. (HF-Iskut, BC)
 610 KAVL CA Lancaster - 9/2 0101 - With the end of Dodgers baseball. Ad for Cingular Wireless. (KR-AZ1)
 610 KNML NM Albuquerque - 9/1 1727 - Westwood One NCAA football: Colorado vs Colorado State. *The Sports Animal.* (KR-AZ1)
 620 CJCip BC Prince George - 6/18 0112 - Excellent, with C&W music. (HF-Prince George, BC)
 630 KHOW CO Denver - 9/1 2306 - With ID after the news. (KR-AZ1)
 630 KIDO ID Boise - 8/16 0657 - *America in the Morning* and into ToH ID. Very weak, in KHOW null. (KR-AZ1)
 630 KIDO ID Boise - 9/2 0103 - With ID. (KR-AZ1)
 630 KTKK UT Salt Lake City - 9/1 2307 - Talking about the stock market. (KR-AZ1)
 640 KFI CA Los Angeles - 7/21 0206 - Fair, with *KFI News, Art Bell* program with sub host. (HF-Iskut, BC)
 640 KFI CA Los Angeles - 8/22 1539 - With Dr. Laura. Weak, but steady. Groundwave at 387 miles. (KR-AZ1)
 640 WCRV TN Collierville - 9/3 0557 - Poor, in with three to four others. Legal ID out of REL program. Trying for needed WNNZ. (JJR-WI)
 650 KENIp AK Anchorage - 7/15 1912 - Excellent, with Talk Radio Network; *Bob Just* talk program. (HF-Palmer, AK)
 650 CISlt BC Richmond - [no date or time] - Oldies; ID. (HF-Iskut, BC)
 660 KFAR AK Fairbanks - 6/25 1250 - Very good, with *Michael Reagan Show*, ABC News at ToH, *Talk Radio 6-60 KFAR, Welcome to Alaska on the radio. Make yourself at home.* (HF-Harding Lake, AK)
 670 KLTT CO Commerce City - 7/30 1459 - Poor, with local religious talk. (DS-UT1)
 670 KLTT CO Commerce City - 8/22 1542 - With preaching about the story of Noah. 586 miles on groundwave. Very steady. (KR-AZ1)
 670 KLTT CO Commerce City - 8/27 0310-0400 - With Christian religious program *People To People with Bob George.* Giving KBOI a sound whopping. No ID at 0330 but two solid IDs at 0358, first by a woman, then a man: *Your 50000 watt Christian Voice KLTT Commerce City-Denver.* Either someone forgot to cut power at sunset or that aurora was really affecting AM reception. Checked 8/28 same time and found only KBOI. (DKK-CA) [This guy is getting to be a real pest at night here, being much louder than WSCR, and I'm well east of Denver. They are undoubtedly 'forgetting' to power down and switch to night pattern - Ed.]
 670 KLTT CO Commerce City - 9/1 2035 - Medical show. (KR-AZ1)
 670 KLTT CO Commerce City - 9/5 0412 - Noted again battling KBOI and was heard again 9/6 same time. (DKK-CA)
 670 KBOI ID Boise - 6/18 0114-0132 - Fair-to-good, with *KBOI, depend on it.* Call-in infomercial for *Colmix?* (HF-Prince George, BC)
 690 CBUp BC Vancouver - 7/21 0213 - Very good, with classical music program // 6160. (HF-Iskut, BC)
 690 CBDM YK Beaver Creek - 6/25 0402 - Excellent, with EZL jazz, spots for CBC Yukon and *Yukon Morning.* Supposedly // 570 Whitehorse, but not audible. (HF-Beaver Creek, YK)
 700 KBYRp AK Anchorage - 7/15 1920 - You found it; the one station playing your kind of country ... always the best of the new and the gold, your kind of country. (HF-Palmer, AK)
 700 WLW OH Cincinnati - 8/7 0348 - Atop, with talk show and ID. (DKK-CA)
 700 WLW OH Cincinnati - 9/2 2205 - Heard while KWLW was running OC for a short time. Cincinnati area ads, then KWLW back on 2207. (KR-AZ1)
 700 KWLW UT North Salt Lake City - 9/1 1736 - With classic country music. (KR-AZ1)



710 KDIS CA Los Angeles - 8/7 0241 - Radio Disney with a rare evening showing and in Stereo. Way over KNUS tonight. (KR-AZ1)
 710 KNUS CO Denver - 9/1 2314 - With *Fibber McGee and Molly.* (KR-AZ1)
 710 KIRO WA Seattle - 6/18 0144-0154 - Poor, with AM 7-10 Kiro (as Cairo), local call-in and program promos. (HF-Prince George BC)
 710 KIRO WA Seattle - 7/21 0216 - Fair, with Brian? call-in program. (HF-Iskut, BC)
 720 WGN IL Chicago - 8/7 0245 - Nice to hear them for the first time this year. They had a show about movies with two men and a woman. They talked at length about the career of the actor Bill Murray. (KR-AZ1)
 720 WGN IL Chicago - 8/27 0315-0405 - With KDWN off. Talk program. ID at 0401. (DKK-CA)
 720 KDWN NV Las Vegas - 9/1 2315 - Very weak, giving sports scores. (KR-AZ1)
 730 KDAZ NM Albuquerque - 9/1 1738 - Very weak, with REL music. (KR-AZ1)
 730 CJNW BC Vancouver - 6/18 0154 - Fair, with ABC News, Money Watch, ad for Josh & Barb Carlson Real Estate. (HF-Prince George BC)
 730 CJNW BC Vancouver - 7/21 0218 - Very good, with Tara with *CJNW Traffic Watch*, traffic on the 1's, NW-2 *News Extra*, ads for *Jim's Mowing & Hot Deals Vacations.* (HF-Iskut, BC)
 740 KBRT CA Avalon - [no date] 1940-1944 - Religious program *Heaven and Home.* Sign off at 1942 mentioning *Studio in Costa Mesa, California, transmitting tower in Avalon, Catalina Island.* 10,000 watts broadcasting power. Channel taken over by KCBS at 1944 with mention of the San Francisco Zoo. (RA-NV)
 740 KCBS CA San Francisco - 9/1 2315 - Sports scores read by a woman, then talk about the BART strike. (KR-AZ1)
 750 KFQD AK Anchorage - 7/15 1923 - Excellent, with Mark, Brian and Brad with *Animal Talk* call-in program; KFQD golf spot. Ad for *Ketcham Air Service.* (HF-Palmer, AK)
 750 KXL OR Portland - 7/21 0224 - Good, with *News Radio 7-50 KXL.* Laurie Ingram traffic fauteur and network ads. (HF-Iskut BC)
 750 KAMA TX El Paso - 8/4 0350 - With ID and *Requeridos* slogan. The music was unusual and from the 50s and 60s mostly. At first I thought it might be something other than the run of the mill northern Mexico station but got the ID. These guys were REALLY rippin' into Arizona with a huge signal, blowing KOAL off the air. (KR-AZ1)
 750 KOAL UT Price - 9/1 2318 - With Utah State football. (KR-AZ1)
 760 KFMB CA San Diego - 9/1 2320 - Beringer Wine ad and talk show about food. (KR-AZ1)
 760 KTLK CO Thornton - 7/30 1459 - Poor, with local sports talk. (DS-UT1)
 760 WJR MI Detroit - 8/7 0350 - Battling KFMB with ads and ID. (DKK-CA)
 760 CFLDp BC Burns Lake - 7/21 0230 - Fair, with *Not-too-oldies with Cancon?* Smithers area ads including No. 1 Video. (HF-Iskut BC)
 770 KKOBp NM Albuquerque - 8/22 1547 - Very weak, but barely audible woman's voice. Sounded like Dr. Laura. 315 miles midday. (KR-AZ1)
 770 KKOB NM Albuquerque - 9/1 1741 - Promo for *Lobo Talk* featuring basketball, ad for KKOB morning show with Larry Ahrens, ads for *Boomerang Wireless, Ski Rio Beerfest, Subway, and Baldridge Home Supply* then *Lobo* football with Andrew Paul. (KR-AZ1)
 790 KABC CA Los Angeles - 8/18 0120 - With the *McEntire* show in stereo, and the liners, and lead in to the show was *Tom Waits* singing *Makin Whoopie.* The thing was almost breathtaking with the strength of the signal and clarity plus the separation was phenomenal. (KR-AZ1)
 790 KABC CA Los Angeles - 9/2 0108 - Talking about the Japanese submarine shelling an oil refinery in the area during WWII. (KR-AZ1)
 800 KLDC CO Brighton - 8/23 0042 - Playing a male black gospel vocalist and choir with accompaniment from organ. Station is rare. XEROK is way low for some reason tonight. (KR-AZ1)
 810 KGO CA San Francisco 9/2 [no time] - Talking about the BART strike. (KR-AZ1)
 820 WBAP TX Fort Worth - 9/1 2322 - With sports talk under a XE. (KR-AZ1)
 830 WCCO MN Minneapolis - 9/1 2325 - With weather report. (KR-AZ1)
 840 WHAS KY Louisville - 9/2 0110 - With replay of *University of Kentucky vs University of Louisville* football game. (KR-AZ1)

840 KXNT NV North Las Vegas - 8/13 0558 - Jeff Kate interviewing an employee of the National Mint, CBS News, and local Las Vegas news. Good signal with some QRM. (RA-CA)

840 KXNT NV Las Vegas - 9/1 2326 - With a talk show with a guy asking for Judas Priest bumper music. (KR-AZ1)

850 KOA CO Denver - 7/30 1459 - Poor, with local ads. (DS-UT1)

850 WRBZ NC Raleigh - 9/3 0055 - Fair-to-poor, but clear under KOA, with ESPN programming and Sportsradio 850 the Buzz slogan. First time here. (EL-IL)

870 WWL LA New Orleans - 8/23 0046 - With *Analysis of the News by David J. Smith*. Smith, who was preaching about conspiratorial things as usual. (KR-AZ)

870 WWL LA New Orleans - 9/1 2328 - With Tulane football. (KR-AZ1)

870 KFLD WA Pasco - 8/31 0747 - Atop all, with ESPN Radio. (DKK-CA)

880 KCMX OR Phoenix - 8/28 0505 - ID solid, atop after news. (DKK-CA)

880 CKLQ MB Brandon - 8/27 0521 - Poor, with jingle between two C&W songs. In fade-up over WCBS. (JJR-WI)

880 CKLQ MB Brandon - 9/4 0520 - Fair-to-good-to-strong, booming signal, with WCBS nulled. *Twelve in-a-row* CKLQ and C&W. (JJR-WI)

890 WLS IL Chicago - 9/1 2331 - With traffic, ID and weather. (KR-AZ1)

890 KDXU UT Cedar City - 8/28 2328 - With the Roger Fredinburg show. The caller was trying to tell Fredinburg that socialism was a right-wing concept. The moderator was scratching his head at the comment. At 2330 into CNN News and back to the show at 2335. (KR-AZ)

890 KDXU UT Cedar City - 9/1 2332 - Weak, with ABC News. Weak. (KR-AZ1)

900 WKDW VA Staunton - 9/3 0608 - Poor, with jingle into old C&W song. Rare here. (JJR-WI)

910 WFDF MI Flint - 8/21 0158 - Fair, with talk show, local ads, and ID as *Newstalk 910*. (EL-IL)

910 CKDQ AB Drumheller - 8/25 0320-0400 - Mostly atop with KNEW off. C&W music and many 910 or Q-AM91 IDs. From time to time XEAO Radio Mexicana joined them. All signals weak. (DKK-CA)

920 KLOC CA Ceres - 8/14 0315-0400 - // KVIN-1390, with NOS. Mixing with KIHM and horrible KNEW-910 sloop. (DKK-CA)

920 KVEC CA San Luis Obispo - 9/1 0952 - Cutting thru KLOC with ID, carrying a fishing program originating at XETRA-690. (DKK-CA)

920 KYST TX Texas City - 8/21 0126 - Very good-to-fair, in fades, with SS talk program and several local mentions. (EL-IL)

920 KIHM NV Reno - 8/14 0315-0400 - Mixing with KLOC, with Catholic programming. Usual KSHO not noted. (DKK-CA)

940 KWBY OR Woodburn - 8/13 0215-0300 - Under KWRU with SS music. Rose up and atop at 0259 with nice call ID in EE. Not expecting this one. Old call heard in '68 on DX test. (DKK-CA)

940 KWBY OR Woodburn - 9/3 0205 - Again noted under KWRU, with SS ballads. Second time heard recently, both on Sunday night. More than coincidence? (DKK-CA)

950 KKFN CO Denver - 9/1 2337 - Giving sports scores. (KR-AZ1)

950 KNFT NM Bayard - 9/1 1803 - With Colorado vs Colorado State football. (KR-AZ1)

950 WWJ MI Detroit - 9/3 0613 - Poor, in WNTD null, with many call mentions. (JJR-WI)

960 KIXW CA Apple Valley - 9/1 2343 - With Dodgers vs Cardinals baseball. (KR-AZ1)

960 WTCH WI Shawano - 8/27 0432 - Poor, in fade up, with calls. Super-rare here because of WSBT. (JJR-WI)

970 WGTK KY Louisville - 8/27 0430 - Poor, with ID, into AP News. (JJR-WI)

980 KFWB CA Los Angeles - 8/21 0815 - Faded up with KFWB *Newstime*. Battling with KGLN, *Oldies 98*. (MH-CO)

980 KSWB CA Los Angeles - 9/2 0117 - With sports news. (KR-AZ1)

980 KMIN NM Grants - 9/1 2044 - ID, then *Good Vibrations by the Beach Boys* complete with Theramin [?? - Ed.]. (KR-AZ1)

1000 KKIM NM Albuquerque - 9/1 1808 - With station promo, then into *The Power of the Word*. (KR-AZ1)

1020 KAXX AK Eagle River - 7/15 1932 - Good, with KIRO Mariners baseball relay including KIRO IDs. KAXX, Alaska's all-sports station, *The Axe*. (HF-Palmer AK)

1020 KINF NM Roswell - 8/31 0800 - With ID after a Jimmy Buffet song. Noted with AS [??]



RADIO 102.3 FM • HEAD OFFICE P.O.

-Ed.] 0750-0800. Into ABC News with improving signal, but lots of KIQI-1010 sloop. At 0906 went into *America In The Morning*. In nicely and first time heard with these calls. (DKK-CA)

1030 WWGB MD Indian Head - 8/27 0628 - Fair, 'til fade-out, with *Word* slogans, local chatter, phone numbers. Rare here. (JJR-WI)

1030 KLLU OR Reedsport - 7/29 0905 - AM 1030 *Clue Country*. (DS-ID)

1030 KLLU OR Reedsport - 8/7 2310 - Atop, with syndicated C&W. Strong until 2315 when they went poof. (DKK-CA)

1030 KTWO WY Casper - 9/1 2346 - Playing *For the Good Times* by Ray Price. (KR-AZ1)

1040 KCBR CO Monument - 9/1 0522 - ID and Billy Graham radio program. The station cut right in over the programming and gave the ID and returned to the show in progress. Cheesy. (KR-AZ)

1040 WHO IA Des Moines - 9/1 2351 - With ID and *The Weekend*. (KR-AZ1)

1040 KLUV OR Tigard - 7/20 0809 - With ID after Christian songs. TC. Even with CKST. (DKK-CA) [I've got these calls as KLVP - Ed.]

1070 KFTI KS Wichita - 8/17 0700 - Good signal, with KFTI ID, local news, and weather. New. (SA-MB)

1070 CHOK ON Sarnia - 8/27 0425 - Poor, with weather and station promo, calls to fade-out. (JJR-WI)

1080 KSCO CA Santa Clara - 9/1 2354 - Talking about various parks around town. (KR-AZ1)

1080 KRLD TX Dallas - 9/1 2050 - With Texas Ranger baseball. (KR-AZ1)

1080 KRPX UT Price - 8/30 0522 - With Nat King Cole singing Ramblin' Rose, then ID for KRPQ 101 FM (100.9). Apparently they run // at least in the night. (KR-AZ)

1090 KKYN TX Plainview - 9/1 2356 - With Texas Ranger baseball. (KR-AZ1)

1100 KFNX AZ Cave Creek - 8/18 0135 - With stereo pilot lit. This is very unusual for them. Had a rap program on with a little music, perhaps why the pilot was lit. (KR-AZ)

1100 KNZZ CO Grand Junction - 8/30 0533 - With ad for Greenfield's Feed and Seed. If it's an animal, we can feed it. Then an ID. This is possible because KFNX is off SP for intermittent times at night. (KR-AZ) [Off SP or RS? - Ed.]

1110 KSPN CA Los Angeles - 8/16 2207 - With big signal. Woman giving Pirates score. (KR-AZ)

1110 KSPN CA Los Angeles - 9/2 0121 - With ESPN Sports, baseball scores. (KR-AZ1)

1110 KFAB NE Omaha - 9/1 2100 - ID, then CBS News and ads for Art Bell. (KR-AZ1)

1110 KEOR OK Atoka - 9/1 0730+ - Probably one of the most 'hometown' sounds I've ever heard. Man and woman with 'local' accents bantering with local ads and introducing vintage C&W tunes. First-timer from 123 miles. The new DX-398 is already reaping dividends! [Ed.-TX]

1120 KMOX MO St. Louis - 9/2 Midnight - Nice signal, with Dodgers vs Cardinals. (KR-AZ1)

1120 KANN UT Roy - 9/1 2101 - Playing REL music. (KR-AZ1)

1130 KSDO CA San Diego - 9/1 0530 - With an ad for The Window Factory looking for skilled workers. Then into Your Money Matters. (KR-AZ)

1130 KSDO CA San Diego - 9/6 0347 - Strong, under KRDU, with sports news mainly about San Diego State University Aztecs. Very auroral tonight. This is extremely rare on their night antenna/power. (DKK-CA)

1130 KWKH LA Shreveport - 9/1 2102 - Louisiana State University Tigers vs Tulane Green Wave football. (KR-AZ1)

1130 CKWX BC Vancouver - 7/27 0924 - With Vancouver weather. (DS-WA)

1130 CKWX BC Vancouver - 8/31 0828 - With business news about many layoffs in Canada, then ID at 0830. (KR-AZ)

1140 WRVA VA Richmond - 8/25 0332 - Loud, with spot for boat and RV show in Richmond. ID and Art Bell promo. (MS-MO)

1150 KXTA CA Los Angeles - 9/1 [no time] - Dodgers vs Cardinals baseball. (KR-AZ1)

1150 KKNW WA Seattle - 8/7 2335-2400 - In and out with KXTA, carrying CNN Headline News. 2337 *News Channel 11-50* slogan. Another slogan ID at 2358 and ToH call ID 2400 + TC. Gone after 2400; a bit late in their cut/switch eh? (DKK-CA)

1170 KJNP AK North Pole - 6/25 1243 - Very good, with Aunt Carol and Uncle Dan's Story Time. (HF-Harding Lake, AK)

1170 KVOO OK Tulsa - 9/1 2120 - Playing a truck driver C&W song. (KR-AZ1)
 1180 KERI CA Wasco-Greenacre - 8/28 2302 - With ID and *Through the Bible with J. Vernon McGee*. Very big signal; probably running day power. (KR-AZ)
 1190 KDYA CA Vallejo - 8/27 0345-0430 - With black gospel/jazz, often over KEX. Supposed to be a daytimer. Again checked 8/28 at the same time with no trace. (DKK-CA)
 1190 KVSV KS Beloit - 8/22 0747 - Ad for Kansas High School Football Scoreboard Show, ID. In local KVCU null. (MH-CO)
 1190 KTRA TX Dallas - 8/4 0525 - Fox Sports programming, over/under WOWO. New! (SA-MB)
 1190 KTRA TX Dallas - 9/1 0127 - With Dallas Sidekicks vs St. Louis indoor soccer. (KR-AZ1)
 1210 KQEQ CA Fowler - 9/6 0300 - ID nulled atop. In EE This is KQEQ Fowler-Fresno . . . Regular Cal-Mex musical programming. The other SS KZTS was atop with KQEQ nulled which is normal. Conditions very auroral this morning. (DKK-CA)
 1210 KGYN OK Guymon - 9/2 0128 - Playing A Better Man; ID. (KR-AZ1)
 1220 KSFB CA Palo Alto - 9/1 0600 - Playing contemporary Christian music, then ToH ID and slogan: *More than just talk*. (KR-AZ)
 1230 KGEQ CA Bakersfield - 8/14 0306:30 - Atop with ID. (DKK-CA)
 1230 KPRL CA Paso Robles - 8/13 2333 - With ID during talk show. Lots of stations going up/down tonight. (DKK-CA)
 1230 KLXR CA Redding - 8/26 0310 - With ID after Nat King Cole's Too Young. Another good ID at 0320. Format seems to be Adult Standards. Took quite awhile to get this call change. (DKK-CA)
 1230 KPLY NV Reno - 8/13 2355 - Briefly atop with ID, sports. (DKK-CA)
 1230 KQIK OR Lakeview - 8/14 0300 - Up for ToH ID thru hash. (DKK-CA)
 1240 KJOP CA Lemoore - 8/13 0100 - ID after Catholic program. (DKK-CA)
 1240 KSMA CA Santa Maria - 9/3 2232 - Atop with ads and ID. Talk show followed. Suspect this is the Dodger net station I've been hearing but haven't verified this as yet. (DKK-CA)
 1240 KSUE CA Susanville - 8/13 0100 - Atop with ID. (DKK-CA)
 1240 KWIKt ID Pocatello - 7/30 0034 - Newsradio 1240 ?WI?. (DS-UT)
 1240 KWIK ID Pocatello - 9/3 2300 - With nice, clear ID: *Right here on K-W-I-K* during ToH pause by both KSMA/KSUE + others. A new one for me. (DKK-CA)
 1240 KELK NV Elko - 7/20 0826 - With ID, briefly above QRMs. (DKK-CA)
 1250 KBRF MN Fergus Falls - 8/16 2259 - Minnesota Vikings promo for upcoming season, then ID. (MH-CO)
 1250 KNEU UT Roosevelt - 8/29 0530 - Weak and choppy, with ID and ad for Murray Motors. The singers sounded a lot like Alabama, although there was no way a small place could pay for a big name like that. Then into C&W. (KR-AZ)
 1250 WEMP WI Milwaukee - 8/26 0139 - ID: *The New AM 1250 WEMP Milwaukee*, over unID SS. (MS-MO)
 1260 KVSF NM Santa Fe - 7/29 2310 - Call ID and Real Country. (DS-UT)
 1270 WKBF IL Rock Island - 8/25 0234 - ID: *The classic home for Americas best music* 1270 WKBF. Music by Chad and Jeremy. (MS-MO)
 1270 WKZT KY Fulton - 8/23 0349 - Solid signal with country music, full call ID. (EL-IL)
 1270 WLK TN Newport - 8/21 2017 - Loud, atop in passing with local ads in Braves baseball. (EL-IL)
 1290 KKDD CA San Bernardino - 9/2 0010 - Radio Disney. (KR-AZ1)
 1290 WWFS IL Peoria - 9/4 0505 - Poor, in local WMCS null, with Cubs baseball on Sports Radio 1290. (JJR-WI)
 1300 KLER ID Orofino - 9/2 0132 - Playing A Legend in My Time C&W tune. (KR-AZ1)
 1300 KPTL NV Carson City - 8/27 2250 - With ID. Pop oldies format. Through usual awful KMKY-1310 splatter. (DKK-CA)
 1320 KYHN AR Ft. Smith - 9/3 0432 - Poor, in fade up with others, with weather, then Art Bell promo. (JJR-WI)
 1320 KCTC CA Sacramento - 8/18 0129 - In stereo, with Sacramento River Cats baseball vs The Zephyrs. (KR-AZ)
 1320 KFNZ UT Salt Lake City - 9/1 2138 - Talking about major league baseball. (KR-AZ1)
 1330 KGAK NM Gallup - 9/1 1844 - Playing C&W, with Navajo announcer. (KR-AZ1)

1340 KCBL CA Fresno - 9/6 2230 - Atop, with Dodgers baseball and ID. (DKK-CA)
 1340 KGLW CA San Luis Obispo - 9/6 2234 - Atop, with ID after local ads. (DKK-CA)
 1340 WLOK TN Memphis - 8/18 0500 - Fair signal, with ID as *Serving Memphis live from 363 South 2nd*, WLOK. New. (SA-MB)
 1350 WGAD AL Gadsden - 8/21 2010 - Old friend, rare these days but atop here, with Braves baseball and local ads. (EL-IL)
 1350 KEWS CA San Bernardino - 8/27 2211-2227:30 - With Angels baseball and an announcer trying really hard to sound like Vin Scully. Cutting thru KSRO well. Numerous ad breaks for area merchants including one for Riverside Mitsubishi. (DKK-CA)
 1350 KGHF CO Pueblo - 9/2 0133 - Playing a Pete Fountain song. (KR-AZ1)
 1360 KPOP CA San Diego - 9/2 0014 - *The Impossible Dream* by Ed Ames. (KR-AZ1)
 1360 WFLW KY Monticello - 9/3 0630 - Poor, with *You are listening to WFLW in Monticello* into weather and news. Small-town sounding and NEW, for #1988! Kentucky #64 and #31 on 1360. (JJR-WI)
 1360 KRKK WY Rock Springs - 9/2 0015 - Playing 409. (KR-AZ1)
 1370 KCRV MO Caruthersville - 8/23 0400 - Good-to-gone, in fades, mixing with WSPD and WCCN, with satellite classic country, top-of-hour ID, and CNN News. Chased this a couple of days. (EL-IL)
 1380 KSRV OR Ontario - 7/30 0031 - Call ID. (DS-UT)
 1380 WHEW TN Franklin - 8/19 0647 - Good, with SS program, call ID. (EL-IL)
 1380 WOOM TN Millington - 8/19 0701 - Very good and atop, with what sounded like a sign-on announcement. (EL-IL)
 1380 KTSM TX El Paso - 9/2 0134 - With UTEP football replay. (KR-AZ1)
 1390 KENN NM Farmington - 9/1 2141 - With Whitley Strieber and Dreamland. (KR-AZ1)
 1400 KBLJ CO La Junta - 8/13 0700 - Fair signal, with oldies music and ID as 1400 KBLJ La Junta, Manzanaola and Rockford. New. (SA-MB)
 1420 KTAN AZ Sierra Vista - [no date] 2237 - With University of Arizona Wildcats vs San Diego State Aztecs football. At the end of the first quarter SDS was up 10-0. Unusual to hear them at night. Maybe on full power. (KR-AZ)
 1420 KTOE MN Mankato - 9/4 0433 - Poor, though steady, with calls, promo, city mentions. Over others. (JJR-WI)
 1420 WCLV OH Cleveland - 8/1 2240 - Classical pops music program. NEW! (SA-MB)
 1440 KUHL CA Santa Maria - 8/27 0820 - With Bruce Williams and TalkNet. Was fairly strong before KAZG came on air. (KR-AZ)
 1440 KMED OR Medford - 7/29 0919 - Fair, with AM 1440 KMED. (DS-ID)
 1440 WJL NY Niagara Falls - 8/27 0340 - Poor, with calls, in fade up. Oldies. (JJR-WI)
 1440 WJL NY Niagara Falls - 9/4 0429 - Fair, popping up with 1440 WJL and back to mess. (JJR-WI)
 1440 WZYX TN Cowan - 8/23 0339 - Loud, with 1440 ZYX slogans in ad break. (EL-IL)
 1440 KDNT TX Denton - 9/4 0600 - Poor, but nice legal ID finally on this one. Former unID is IDed. Unneeded. Years ago logged as Top 40; later as C&W. (JJR-WI)
 1450 WKEI IL Kewanee - 8/22 2300 - Poor, with legal ID, into CBS News. (JJR-WI)
 1450 KSIG LA Crowley - 8/18 0620 - Poor signal, with fade up of ID. New. (SA-MB)
 1450 WLEC OH Sandusky - 8/27 0327 - Poor, but jingle cut through slop. NOS. (JJR-WI)
 1470 KUTY CA Palmdale - 9/2 0015 - Jet Hawks baseball and ID. (KR-AZ1)
 1480 KKCQ MN Fosston - 9/3 0651 - Fair, with Q Country 96.7FM on top of frequency. 90 watts! (JJR-WI)
 1490 KTOB CA Petaluma - 8/27 2359:30 - Noted with dual ID with KRRS-1460 Santa Rosa. Format for both is Spanish. (DKK-CA)
 1500 KSTP MN St. Paul - 9/1 2148 - Interview show with Ken Burns about Jazz. (KR-AZ1)
 1510 KFNN AZ Mesa - 9/6 0320-0415 - Under KGA, but easy to read with talk and biz news. Was hoping for Ontario. (DKK-CA)
 1510 KMXN CA Ontario - 9/1 2152 - Angels baseball. (KR-AZ1)
 1520 KOLM MN Rochester - 8/25 2254 - Very good, with ID, weather forecast, then song I Believe. (GH-KS)
 1520 KOMA OK Oklahoma City - 9/1 2153 - With the Troggs and Love is All Around. (KR-AZ1)
 1530 KFBK CA Sacramento - 7/27 0932 - KFBK Business and Money News. (DS-WA)
 1530 KFBK CA Sacramento - 9/2 0025 - With a money program. (KR-AZ1)
 1550 KKJY NM Albuquerque - 9/1 2154 - Playing Gina by Johnny Mathis. (KR-AZ1)

1550 KVAN WA Vancouver - 7/27 0933 - Very good, with *K-Van Newstime*. (DS-WA)
 1560 KNZR CA Bakersfield - 7/29 0922 - Ad for *Cool Jazz* 97.7 KSMJ (Shafter, CA) and Bakersfield ads. (DS-ID)
 1560 KLTI MO Macon - 8/6 2241 - Poor, in fade up, with *Magic* 1560, KLTI and old R&B. (JJR-WI)
 1560 KKAA SD Aberdeen - 8/6 2300 - Poor, with legal ID, in WQEWS, KLTI fade. (JJR-WI)
 1570 CKMW MB Winkler - 9/3 0520 - Fair, with *Country* 1570 CKMW jingle and new music promo. Alone on frequency. (JJR-WI)
 1580 KRAN CA Merced - 8/27 2144-2205 - Solid atop, and // 1660. Nortena music. ID at 2201:30 in Spanish for both KRAN and KAXW. Best signal from them in years. Slogan used was *La Rancherita*. (DKK-CA)
 1590 WVNA AL Tuscumbia - 9/4 0405 - Fair, popping out of nowhere with Bruce Williams on Talknet promo, and calls. (JJR-WI)
 1590 KELP TX El Paso - 9/1 2158 - Playing REL music. (KR-AZ1)
 1600 WMHG MI Muskegon - 8/26 1918 - Fair, with calls and *Magic* 1600 slogan. NOS. (JJR-WI)
 1600 KEED OR Eugene - 7/29 0857 - Good, with *This is 790 KWIL and 1600 KEED*. I swear he said 1600 KWED. (DS-ID) [Maybe he said "K Double E-D". KWED is on 1580 in Texas - Ed.]
 1620 KBLI ID Blackfoot - 9/1 2158 - With scores and BYU football sponsored by Zions Bank. (KR-AZ1)
 1620 WTAW TX College Station - 8/25 0306 - Dominant, with ID and Art Bell promo. Over WHLY. (MS-MO)
 1620 WTAW TX College Station - 9/1 2159 - With baseball scores and recap on the Astros network. (KR-AZ1)
 1630 KCJJ IA Iowa City - 8/31 0658 - Atop with talk. C&W noted beneath. Also 9/5 0457-0510. Ads and ID atop 0508 but pop rock station noted mostly atop during this time. (DKK-CA)
 1630 KKWF WY Fox Farm - 8/31 0800 - Fighting the huge OC of XEUT and playing C&W, then ToH ID. Slogan used was *Spirit of Wyoming*. It was very unusual that they have decent power today and it makes me wonder if they have done something with their wire antenna. (KR-AZ)
 1630 KKWF WY Fox Farm - 9/2 0029 - Playing C&W. (KR-AZ1)
 1640 KDIA CA Vallejo - 8/16 0638 - Playing acoustic jazz, with significant QRM from KBJA. (KR-AZ) again on 8/19 at 2319 with black gospel singing and then an ad for some group Shiloh and another to talk to kids about not using drugs. They are now in stereo. (KR-AZ)
 1640 KDIA CA Vallejo - 9/1 2201 - With PSA for organ donors then *Personal Achievement Radio*. (KR-AZ1)
 1640 KBJA UT Sandy - 9/1 2202 - Radio Unica and music. (KR-AZ1)
 1650 KFOX CA Torrance - 9/1 2204 - Playing Korean music. (KR-AZ1)
 1650 KBJD CO Denver - 9/1 2203 - With ToH ID: *KBJD, Denver. The Beat.* (KR-AZ1)
 1660 KAXW CA Merced - 9/1 2205 - Playing Mexican music. (KR-AZ1)
 1660 KRZX TX Waco - 9/1 2205 - CBS (?) News. (KR-AZ1)
 1660 KXOL UT Brigham City - 9/1 2205 - With Dion singing *The Wanderer*. (KR-AZ1)
 1670 KAZT CA Redding - 9/1 2207 - Ads and sports. (KR-AZ1)
 1680 KAVT CA Fresno - 9/1 2207 - Radio Disney (KR-AZ1)
 1690 KDDZ CO Arvada - 8/31 0655 - Atop KSXX with Radio Disney programming. Excellent signal. (DKK-CA)
 1690 KDDZ CO Arvada - 9/1 2208 - Radio Disney (KR-AZ1)
 1690 KSXX CA Roseville - 9/1 2208 - With ethnic programming. (KR-AZ1)
 1700 KBGG IA Des Moines - 9/5 0450+ - Weakly atop, with CNN News. Still haven't got the Texans. (DKK-CA)
 1700 KQXX TX Brownsville - 9/1 2209 - Playing 50s oldies. (KR-AZ1)
 1700 KTBK TX Sherman - 8/27 0445 - Fair, with three station legal ID and *Sportsradio* 1310, *The Ticket* into Sporting News Radio in fade up over KBGG. (JJR-WI)
 1700 KTBK TX Sherman - 9/1 2208 - SMU vs Louisiana Tech football game. (KR-AZ1)

GRAVEYARD DX UPDATE

1340 kHz:

KSSR	NM	Santa Rosa	Glenn Hauser	Clines Corners, NM	Miles
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DDXD-East

It's the quiet before the storm, I guess, as the DX season begins to heat up once again. Yet this column is a much longer one with more reporters and loggings. As the conditions improve, expect to see even more reports. Here in beautiful Palm Harbor, Florida, the thunderstorms coincide with my return home from work, so I haven't had much of an opportunity to catch anything new.

Andy Rugg (AR*ON) writes: "Saturday night, our long, hot summer finally came to an end. Driving home from the golf course, on a cool autumnal evening, just after sunset, the AM band came alive with an assortment of crisp signals, hopefully an omen of the DX season to come".

Rick Kenneally (RWK-CT) is collecting lots more loggings: "Having a great time with new toy—a Gerry Thomas RadioPlus+ phasing unit. With only one wire antenna, I'm phasing the wire against the Quantum QX loop. The phaser works well, often delivering nulls on otherwise un-nullable stations. The biggest surprise is its ability to null WPTR-1540, which has always been next to impossible with a loop alone."

It is particularly fun to use the phaser on a frequency crowded with a bunch of signals of relatively equal strength. I equalize the gain on the two antennas, then just twist the null around the compass and see what pops up out of the mush. The phaser is not all-powerful, however. Some stations are "un-phased" by it, including WBZ-1030, WTIC-1080, and most of the NYC blowtorches.

I'm starting to reach the point where the antennas are limited by the radio, and not the other way around. The Quantum Phaser is a broadband phaser, and doesn't have tuners/preselectors on the two antenna inputs. So the untuned input from the wire antenna splatters images all over the place on the SONY 2010. But this is a weakness of my receiver, not the phaser. All in all, the phaser works well, is easy to learn once you figure out a good antenna configuration, and has added several catches that would not have been possible without it."

GUELPH, ONTARIO TELEPHONE (519) 824-7000

106.1CJOY1460**STATION NEWS**

1550 WBSC SC Bennettville - 7/27 1504 - Station is off-frequency and something is very wrong with audio. Could only copy in SSB mode and that was rough going. (RJ*NC)

UNID, UNID HELP & PRESUMED

810 WHB MO Kansas City - 08/30 0608 - presumed under nulled WGY, with ESPN Sports. (MKB*ON)
 990 WMYMP FL Miami - 7/22 2217 - Radio Disney format. Rap music. Music countdown show (#6 by *Dream Street*). (RJ*NC)
 1070 WIBCp IN Indianapolis - 9/2 1948 Loud with ads then sports talk about the National Football League. Faded into the mess shortly afterwards. (HJH-PA)
 1110 WJML MI Petosky - 9/1 2000 UNID with CBS News loud with WBT looped out. Cut signal at 2010. I'm presuming this needed one. Conditions have been very good to MI these nights. (HJH-PA)
 1270 UNID — — 8/29 0332 - Very weak; "Bridge Over Troubled Waters" into choppy call letters KBF, I think. WKBF is Adult Standards and they could be dropping the W in the ID. This is happening more frequently. (SC-IN)
 1350 CKDOP ON Oshawa - SC's presumed logging on 7/12 indeed is CKDO. The word-forward ID "AM 1350 News/Talk/Sports" is exactly what I heard in July when passing through Oshawa. (AR*ON)
 1370 WHEEP VA Martinsville - 7/11 2132 - Minor league baseball game; sign-off at 2140. 5000 watt daytimer waiving the rules. (JR-NY)
 1530 UNID — — 08/31 0705 - with Sporting News Radio, poor in nulled WSAI. (MKB*ON)
 1590 WTVBp MI Coldwater - 8/14 0502 - Fair; "49 degrees in Coldwater". Also "News at six brought to you by Swift TV and Appliance". (SC-IN)

DX AND EQUIPMENT TESTS

1180 WJNT MS Jackson - 9/29 0100-0200 - WJNT-1180 will conduct a DX test from 12:00 am - 1:00 am CDT [0100-0200 ELT-MS]. The test will consist of regular programming (Talk America's programming-Rhona at Night) and Morse Code IDs. WJNT will be operating with 50 kW non-directional. Reception reports (with return postage) may be sent to: Stan Carter, Chief Engineer - WJNT-AM - P.O. Box 1248 - Jackson, MS 39215-1248: <<http://www.wjnt.com>>; E-Mail:



<slcarter@wjnt.com>. Please note: Even if you don't hear a test, be sure and drop a card, letter, or e-mail to the station personnel, thanking them for going to the trouble to run a test! Also, if you hear a test, please, please let me know via either e-mail or in rec.radio.shortwave! If you send a reception report to a station, please remember to include return postage with your report. Arranged by Lynn Hollerman for the IRCA CPC. <ircamember@geocities.com>.

STATION LOGGINGS

560	WCKL	NY	Catskill - 9/4 2350 - Surprised to hear a partial "CKL" ID with NOS music. New. Interference from WGAN, which is unusual in itself! (JR-NY)
580	CFRA	ON	Ottawa - 08/30 0627 - Fair over CJCL-590 slop with ID as "Ottawa and the Valley's source for information for over 50 years, news-talk 580 CFRA". (MKB*ON)
600	WSOM	OH	Salem - 9/4 0249 - "Your home of America's best music, WSOM". NOS; CNN news at 0300. New. (JR-NY)
	CKAT	ON	North Bay - 8/5 0400 - End of song, jingle, then man: "Here is the CKAT 3-day forecast..." giving Celsius temps. Recorded ID: "And now another 30 minutes of today's country on AM 600 CKAT." Local WICC phased down but still there. (RWK-CT)
610	CKTB	ON	St. Catherines - 8/17 0000 - Excellent signal over WIP-PA, suspect daytime pattern/power. Ad for "Mr. Furnace", PSA for Hepatitis C hotline, several recorded slogans and IDs in a row including "Voice of Niagara, 6-10 CKTB". (RWK-CT)
640	CBN	NF	St. John's - 08/29 2125 - Fair; classical/opera music on CBC Radio One in WSB null. (BC2-NH)
	WFNC	NC	Fayetteville - 8/21 0100 - Good in WWJZ phase null with promo for the 14th annual WFNC Fan Fest—a giveaway of fans to people who don't have air conditioning (getting a little late in the season!). ToH jingle, then a recorded ID by man, then another jingle "WFNC Fayetteville", then CBS news. (RWK-CT)
670	WIEZ	PA	Lewistown - 08/29 2000 - Fair; local news headlines, AccuWeather, "WIEZ Lewistown 670", ABC news, and nostalgia. (BC2-NH)
730	WFMC	NC	Goldsboro - 08/29 2105 - Fair; "...gospel music, 730 WFMC" over an UNID C&W music station in CKAC null. (BC2-NH)
740	CHCM	NF	Marystown - 08/29 2135 - Fair; regional weather forecasts, mention of vocm.com, "You're listening to the VOCM all -Newfoundland and Labrador radio network," and talk in CHWO null. (BC2-NH)
	WQTM	FL	Orlando - 7/23 1358 - "You're listening to WQTM, Orlando's 740, The Team". Tom Morgan with Miami Dolphins training camp news. (RJ*NC)
750	CBGY	NF	Bonavista Bay - 08/29 2130 - Fair; opera music on CBC Radio One in WSB null. (BC2-NH)
	WBMD	MD	Baltimore - 8/21 0700 - Mixing with WAAT with "That's the word of God, and this is WBMD, Baltimore. Maryland's ??? Christianity". Slop from 740. (RWK-CT)
780	WABS	VA	Arlington - 08/26 1930 - Good; "...the Word in Praise on AM 780 WABS" and contemporary Christian music. (BC2-NH)
900	WNMB	SC	N. Myrtle Beach - 7/22 2244 - Ad for Myrtle Beach Times newspaper. ID "990 WNMB". Song "Under the Boardwalk." (RJ*NC)
910	WFDF	MI	Flint - 08/29 2200 - Fair with ad for Michigan Millions lottery, ID as "News talk 910 WFDF Flint", into CBS news. (MKB*ON)
920	WIRD	NY	Lake Placid - 08/29 2145 - Good; "The best air in the Adirondacks, on the Adirondack Park radio network" and ESPN radio. (BC2-NH)
	WHJJ	RI	Providence - 08/29 2150 - Fair; promo for Imus in the Morning "...on WHJJ, Talk Radio 920" and talk in WIRD null. (BC2-NH)
	WKVA	PA	Lewistown - 7/28 2200 - Buried under WHJJ with ID by man: "More news, less talk on WKVA AM 9-20 Lewistown". (RWK-CT)
	WKRT	NY	Cortland - 08/06 0106 - "Good time oldies, 920 WKRT", into Beach Boys tune; fair in mess with WHJJ, WGHQ, etc. (BDM-ON)
			+ - 8/8 0100 - Fair mixing with WIRD-NY and with WHJJ-CT phased. Elvis song, then "You're listening to good time oldies - WKRT Cortland - a Citadel Communications Station". CBS news. (RWK-CT)

930	WPAT	NJ	Paterson - 08/29 2159 - Fair; promo for "the best Jewish music on the radio" in WBEN null. (BC2-NH)
	WBEN	NY	Buffalo - 08/29 2200 - Good; "Live, local; first: Newsradio 930 WBEN, Buffalo" and top story about marijuana plants found growing at the airport. (BC2-NH)
	WTAD	IL	Quincy - 7/30 0430 - Weak; ID "Talk Radio WTAD, Quincy/Hannibal/Keokuk, A Staradio Corporation". (SC-IN)
	WAUR	IL	Sandwich - 8/5 0500 - Very weak; ID "WAUR Sandwich, You're listening to the living word". (SC-IN)
950	WPEN	PA	Philadelphia - 08/29 1913 - Fair-good with ID "The station of the stars, 950 WPEN", into MOR song. (MKB*ON)
960	CFFX	ON	Kingston - 08/29 2205 - Good; "GTO 960" jingle and oldies over WELI. (BC2-NH)
	CHNS	NS	Halifax - 08/29 2215 - Fair; "Oldies 96 CHNS" and weather in CFFX/WELI null. (BC2-NH)
1000	CKBW	NS	Bridgewater - 08/29 2240 - Good; "CKBW Spotlight on the spirit of the south shore," then CKBW Weatherwatch, "We don't care how you found us, we're just glad you did, CKBW" and AC/oldies/C&W music mix; in WMVP null and het from Spain 999. (BC2-NH)
1040	WYSL	NY	Avon - 09/01 0600 - Poor in nulled WHO with ID as "Sports radio WYSL Avon". (MKB*ON)
1060	WBIX	MA	Natick - 08/02 0606 - Business news, many "Business 1060" IDs and promo for business1060.com website. Good; well over KYW. (BDM-ON)
1070	WLFE	NY	Plattsburgh - 08/26 1950 - Fair; Coast Guard PSA by the Vermont Broadcasters Association; promo with "102-3 and 1070 AM WLFE" ID. In CBA null. (BC2-NH)
	CHOK	ON	Sarnia - 08/05 2304 - Fair; Broadcast News, "News on the hour every hour, Information Radio 1070 CHOK", call letter jingle, and adult contemporary music, over an UNID sports talk station in CBA null. (BC-NH)
	WSCP	NY	Sandy Creek-Pulaski - 08/05 0120 - "This is WSCP, 101.7 FM, 1070 AM, Sandy Creek-Pulaski" (pronounced as Puh-LAS-sky) heard under CBA. (BC-NH)
	WKOK	PA	Sunbury - 08/07 1955 - Fair; ESPN Game Day, "Newsradio 1070 WKOK is your Penn State station" and football schedule promo in CBA null. (BC-NH)
1100	WHLI	NY	Hempstead - 08/07 1947 - Good; "1100 WHLI, Long Island's number one adult standards station, 55 years on Long Island" and nostalgia. (BC-NH)
	WGPA	PA	Bethlehem - 08/07 1944 - Fair; "WGPA weather" and radio drama in WHLI null. (BC-NH)
	WCGA	GA	Woodbine - 7/23 1520 - No ID for 3 hours straight. No local ads. Gaps in programming where ads would be. Finally, "If you're listening to Michael Medved on the Florida coast, you're listening to WCGA". (RJ*NC)
1110	WUHN	MA	Pittsfield - 08/06 2359 - "Country 1110 AM, Berkshire County's only country station, WUHN Pittsfield, Massachusetts" and ABC news, over WBT. 08/08 0135 - "The best country around" jingle and "1110 AM, WUHN" ID. Now U1/NSP or another daytimer out of control? (BC-NH)
	WPMZ	RI	East Providence - 08/07 1935 - Good; salsa music, bilingual "Power 1110, Poder 1110" ID; bachata music. WNNW was already off. (BC-NH)
	WNNW	NH	Salem - 08/05 2230 - "...emisora mejor que la N" promo, "La N Once Diez" jingle, and tropical music. On well past sunset, off at 2300. (BC-NH)
			+ - 08/05 0000 - Energetic SS music, then EE ID "WNNW 11-10 Salem-Lawrence" followed by SS ID, way over WBT and another UNID SS station. Yet another daytimer running all night. (BDM-ON)
	WTBQ	NY	Warwick - 8/13 1900 - Ad for pool store, then recorded spot by DJ saying "I'm currently on vacation...", then weather, recorded ID by man, then song jingle. Fair, but lots of storm static. (RWK-CT)
1120	WKCE	TN	Maryville - 8/20 0200 - Weak with KMOX in cardoid null. ID "WKCE Maryville Tennessee". Then Bette Midler's "The Rose". (SC-IN)
	WKQW	PA	Oil City - 8/20 0500 - Fading with KMOX in null. ID "?? and yesterday's favorites, 1120 WKQW Oil City". Then news. (SC-IN)
1160	WILL	IL	Chicago - 8/30 0011-0100 - Christian call-in show. Frequent ID's. Dominant. (DH-NJ)
	WBOB	KY	Florence - [no date given- MS] 0011-0100 - ESPN. Frequent mentions of the

			"Tri-state area" in local ads and ad for show with Ken Griffey every Saturday night. ID'ed as "The Bob". Good. (DH-NJ)
	WCCS	PA	Homer - 0011-0100 - A re-log. "Indiana County's Radio Station." Good. (DH-NJ)
1190	WHMT	TN	Humboldt - 8/21 2145 - Fair with WOWO in cardoid null. ID "This is Sporting News Radio WHMT 1190 Humboldt", then into jingle and sports news. (SC-IN)
1200	CFGQ	ON	Ottawa - 8/29 2346-0000 - Sports programming, ID'ed as "The Team." Ad for Canadian participation in the Commonwealth Games; support your Canadian athletes type ad. Fair to good. (DH-NJ)
	WOAI	TX	San Antonio - 8/29 2346-0000 - Talk show; ID'ed as "News Radio." Full ToH ID with call letters and "San Antonio's news station". Good; topping channel at times. I was surprised to get this one; tried all last season for it. (DH-NJ)
1240	WSKI	VT	Montpelier - 08/05 2120 - Fair; "Now the community calendar from WSKI"; nostalgia, "1240 WSKI, Montpelier's first station," mixed with an UNID CNN Headline News station. (BC-NH)
	WWWC	NC	Wilkesboro - 8/15 0700 - A pleasant surprise in the mush with "Good morning, I'm Dave ??? for 3-W-C news. It's 71 degrees in Wilkesboro...". Also mentioned Wilkes County. (RWK-CT)
1249.5	WKBR	NH	Manchester - 08/05 0005 - "Manchester's one and only Real Country 1250 WKBR" noted off frequency over the past few days causing a horrendous het against 1250 and 1251. (BC-NH) + - 8/6 2200 - Off frequency and separable from 1250 mush with SONY 2010 synch. Strong at peaks with syndicated country music. ToH jingle "The Home of Real Country Music" then recorded ID "Real Country 12-50 is WKBR, Manchester". (RWK-CT)
1250	WKBR	NH	Manchester - 08/10 1830 - Noted back on frequency this evening after being at 1249.5 all week. (BC-NH)
	WLEM	PA	Emporium - 8/13 0035-0052 - "Country 1250." Good during peaks; under dominant WEAE, Pittsburgh with ESPN. Presumably on day power. Thanks to Rick Kenneally for this tip! (DH-NJ) + - 8/26 0400 - Weak; ID "Country 1250 WLEM Emporium, A Priority Communications Station". (SC-IN) + - 08/27 2205 - Fair over nulled pest CJYE with C&W song, ID slogan "Country 1250 WLEM, your kind of country". (MKB-ON) + - 8/7 0000 - Apparently left their day power on last night. Heard strong on tape w/woman: "... 12-50 WLEM Emporium, a Priority Communications station." Then CNN news. (RWK-CT)
	WMTR	NJ	Morristown - 8/13 1000-1015 - Oldies format with CNN news at top of hour. ID'ed at 1005. Surprisingly, I haven't gotten this one at night, even though I'm just right down the road a piece. (DH-NJ)
1260	WBNR	NY	Beacon - 08/05 0025 - Fair; call letter jingle and nostalgia in WMKI null. (BC-NH)
	CKHJ	NB	Fredericton - 08/05 0024 - Good; "Nothing outlasts 30 minutes of continuous country on KHJ" over WBNR in WMKI null. (BC-NH)
1270	WDLA	NY	Walton - 9/3 0500 - Weak with ID "WDLA Walton, A Banjo Communications Station". (SC-IN)
1280	WJAY	SC	Mullins - 7/27 1718 - Black Gospel format. Promo for a revival in Marion, S.C. (RJ*NC)
1290	WCHY	GA	Savannah - 7/23 1659 - "AM 1290, Radio Disney". Advertising for program on August 23 at Savannah Civic Center (RJ*NC)
1300	WIMG	NJ	Trenton - 7/30 0200 - Mixing all evening with WAVZ-CT with REL programming. On top this time with "...WIMG Ewing/Trenton" (RWK-CT)
	KWCK	AR	Searcy - 8/3 2330 - Fair; ID "Continuous Country, Quick Ninety Nine-Nine". Also, "Arkansas' most country, Quick Ninety Nine-Nine". Was talk; now // with FM. (SC*IN)
	WOOD	MI	Grand Rapids - 08/29 0558 - Surfaced over WERE with promo for Dr. Laura: "You'll hear it on news radio 1300 WOOD". (MKB*ON)
	WERE	OH	Cleveland - 8/1 2200 - Very weak, heard right through a dominant WIMG-NJ in pause before switching to network news. Heard "...WERE - Cleveland's only local talk radio station." (RWK-CT)



			WXRL	NY	Lancaster - 8/15 0614 - Good with long promo for WXRL's anniversary concert. Calls given often, then "Thanks for making WXRL Western New York's premier country music station". (RWK-CT)
1310			WNAE	PA	Warren - 09/02 0659 - On top of frequency, signing on with SSB and announcement: "Good morning, these are radio stations WNAE AM and WRRN FM in Warren, Pennsylvania. The time in 10 seconds will be 7 o'clock"; into AP news. (MKB*ON)
			CIWW	ON	Ottawa - 8/15 2152 - "I Fought the Law (and the Law Won)" followed by ID "Grab your headphones and turn them on—it's Night Tracks on 1310". Unknown song followed by "Oldies 1310" and "Green River" (Creedence Clearwater Revival). ID at 2202 "CIWW Ottawa, Oldies 1310". Then "Louie, Louie" by The Kingsmen, during which the signal disappeared and returned a few minutes later. First time I've heard city and call letters in ID! Station shows up frequently during summer; can't seem to get it at other times. (MC-NJ)
			CK1DM		
			1320	NH	Derry - 7/31 0500 - Fair with choir music, a spot I couldn't make out, then "Hi, This is John McArthur, Bible Teacher on 'Grace to You' inviting you to join us every evening at 5:30 on Life Changing Radio, AM 13-20 WDER". (RWK-CT)
			WJGR	FL	Jacksonville - 7/27 1700 - End of the "Investor's Edge." ID "WJGR". ABC News. (RJ*NC)
			WARL	MA	Attleboro - 8/3 0009 - Way on top of WATR-CT with DJ giving rundown of planned programming including Yankee's baseball and a Doo Wop music show "...all on 13-20, WARL". Station #600 heard/taped from CT. (RWK-CT)
			WJAS	PA	Pittsburgh - 8/3 0500 - End of lite string piece (elevator music) then ID by man: "Pittsburgh's original hits station...13-20 WJAS Pittsburgh. It's 5:00". Was surprised by the timecheck in what seemed like an automated ID. (RWK-CT)
1330			KVOL	LA	Lafayette - 8/27 0548 - Fox Sports Network, ID "13-30 AM and 105.9 FM KVOL ...". Good. (GM-FL)
1340			WWFL	FL	Clermont - 8/20 2020 - Good for brief period in slight WTAN null, with Orlando area tourist info. Orlando is the tourist radio capital with 2 commercial and a couple of low-powered sites in the area all full of info! As if you needed anymore! (GM-FL)
			WROD	FL	Daytona Beach - 8/20 2024 - Replaced WWFL with NOS music, local news; weather at half-hour. Very good in slight WTAN null. First stations heard on here other than local WTAN. (GM-FL)
1350			WRNY	NY	Rome - 9/3 2100 - Utica Blue Sox game, co-IDs with 1480. (JR-NY)
1360			WCGL	FL	Jacksonville - 7/27 1645 - "Thanks for making us your Gospel station"; "Where Christ Gets ???"; ad for funeral home. (RJ*NC)
			WWOW	OH	Conneaut - 8/11 2000 - ID with mention of Northeast Ohio, oldies format; good level. New for a long time holdout. (HJH-PA)
1380			CKPC	ON	Brantford - 7/28 0000 - "Sweet Dreams" by Eurythmics then man "From Brantford, you're listening to 13-80 CKPC" then Broadcast News over WNNY-NY. (RWK-CT)
			WABH	NY	Bath - 07/26 2005 - "WABH, what you want in a radio station - good times and great oldies, here on Oldies 1380"; fair under pesty CKLC. (BDM-ON)
			WMYF	NH	Portsmouth - 8/9 0651 - WNNY-NY oddly weak and barely readable leaving frequency open to WSYB-VT and others. Heard WMYF weak but clear with ad for local Auto Zone, then discussion of who to call to buy time on WMYF, then something that sounded like a public service announcement. (RWK-CT)
			WMLP	PA	Milton - 8/9 0600 - Briefly atop WSYB with C&W sounding song, then woman with something like "The best in Gospel, AM 13-80 WMLP", then another song that sounded C&W. (RWK-CT)
			WNRI	RI	Woonsocket - 8/9 0625 - WNNY subdued. Man and woman with "Daybreak Southern New England". Mentions of RI, Woonsocket schools, Pawtucket board of selectmen; many ads. Low sedate audio and long fades (usually timed with IDs). Calls mentioned before weather forecast. One more to go to complete Rhode Island. (RWK-CT)
			WTMC	DE	Wilmington - 8/10 0638 - WNNY back to normal, but successfully phased

				for a minute. Heard woman with "You're listening to WTMC. Delaware's Travelers' Advisory Radio". (RWK-CT)				on 14-50 WNBP Newburyport", then USA News. (RWK-CT)	
1390	WRSC	PA	State College	- 8/7 0500 - Came up strong with "...on Center County's only talk radio 13-90 WRSC State College and WBLF Bellefonte" recorded by man. Then ABC news. (RWK-CT)	WOL	DC	Washington	- 7/25 0400 - Under mush but audible with "You're tuned to the WOL NewsTalk network - WOL 1450 Washington, WOLB 12-30 Baltimore". Always a little extra kick from logging a new 3-letter call. (RWK-CT)	
1400	WRAK	PA	Williamsport	- 8/12 0100 - Network handover blips suddenly up loud out of mush, then nice recorded ID: "The best news and the best talk only on the ?? talk net—AM 1400 WRAK Williamsport and 1200 WRKK Hughesville." (RWK-CT)	WCLI	NY	Corning	- 7/25 2200 - Good signal with end of big band piece, then recorded ID by man: "2-way radio - 12-30 WENY Elmira and 14-50 WCLI Corning". Audio somewhat muffled - didn't cut through very well. (RWK-CT)	
1410	WHAG	MD	Halfway	- 8/19 0600 - Semi-local WPOP-CT failed to ID during the ToH break in the SportsCenter network feed. In the silence, heard weak "WHAG and WQCM FM" ID. (RWK-CT)	WWRI	RI	West Warwick	- 7/30 2100 - FINALLY bagged this after many days of trying. Sharp-voiced man with "...coming this Thursday night right here on WWRI West Warwick ...". Two to go for RI. (RWK-CT)	
	WENU	NY	South Glens Falls	- 8/21 2100 - Quite good throughout much of the night (seemed better than 126 watts). IDs as "Your station for great songs and real music, WENU AM South Glens Falls and WENU FM Hudson Falls". CNN news. (RWK-CT)	WJYR	SC	Myrtle Beach	- 7/27 1600 - ESPN Radio. Promo for Tony Kornheiser show. Local ID for "WJYR Myrtle Beach." (RJ*NC)	
	WNER	NY	Watertown	- 8/22 0500 - Good over WDOV-DE with Volunteers of America spot, then "ESPN 14-10 AM, it's WNER Watertown". (RWK-CT)	1460	WEMR	PA	Tunkhannock	- 08/30 0735 - Presumed to be simulcasting WARM-590, with local weather for Scranton-Wilkes-Barre, ID as "Warm news time is 7:35". (MKB*ON)
	WDOE	NY	Dunkirk	- 09/01 1300 - Fair-poor daytime groundwave with ID as "Your hometown station, WDOE Dunkirk" into ABC news. (MKB*ON)				+ - 8/19 1900 - Fair with spot about trouble talking to kids (possibly Mormons) then "From Citadel Communications of Eastern Pennsylvania, WEMR Tunkhannock, WAZL Hazelton..." AP news. Faded away fast. (RWK-CT)	
1420	WAOC	FL	St. Augustine	- 7/27 1630 - Ad for upcoming events at Ponce de Leon Mall in St. Augustine. (RJ*NC)	1470	WLMC	SC	Georgetown	- 7/27 [No time given- MS] - Black Gospel format. Promo for choir seminar at the Howard Center. Announcer said that more information was available by calling WLMC. (RJ*NC)
	WACK	NY	Newark	- 9/1 2035 - Fair atop QRM: "Syracuse University Radio Network" sports talk program. ID by man at 2035 "Your hometown station 1420 WACK". Last heard in April, 1963. (AR *ON)	WBTX	VA	Broadway	- 08/31 0705 - Surfaced with ID as "Sunshine 1470 WBTX" into local weather, then lost under WTKO's oldies. (MKB*ON)	
	WCOJ	PA	Coatsville	- 08/30 0641 - Poor over nulled WCLV with ID "WCOJ news time is 6:41" into local weather. (MKB*ON)	WPDM	NY	Potsdam	- 09/01 0620 - Fair with ads for Big M Markets and Bignell Building Supplies in Potsdam, local weather into "House of the Rising Sun" by the Animals. (MKB*ON)	
	WCLV	OH	Cleveland	- 08/31 0557 - On top of frequency with ad for Yourman Tours, ID as "the news from WCLV will continue, the time is 5:57". QSLED in 1978, in their WHK heyday. (MKB*ON)	1480	WTOY	VA	Salem	- 08/31 0729 - poor in nulled WHBC with ID "the good morning crew here at WTOY", into sports. (MKB*ON)
1440	WMKM	MI	Inkster	- 08/29 2216 - Good with no CHKT-1430 slop. ID as "AM 1440 WMKM, the new gospel 1440 now with twice the power" into "Prayer Zone" program. (MKB*ON)	1490	CFPS	ON	Port Elgin	- 09/01 0700 - On top of graveyard frequency with "560 CFOS" ID, into news. //560 of course. (MKB*ON)
	WFHM	OH	Warren	- 0500 8/20 - Semi-regular with "The frequency may have changed, but the words remain the same - the new 12-20 WHK". IDs as "12-20 WHK Cleveland and 14-40 WFHM Warren/Youngstown." Needed recording of new calls. (RWK-CT)	WWIL	NC	Wilmington	- 7/27 1550 - Roto-Rooter commercial followed by station ID, "We're having church. WWIL - Wilmington." (RJ*NC)	
	WJJL	NY	Niagara Falls	- [No time/date given-MS] - Very good out of mush with Beatles' "Let it Be" then "...WJJL Niagara Falls celebrating 54 golden years of broadcasting serving Western New York and Southern Ontario..." (RWK-CT)	WBCB	PA	Levittown	- 07/25 2005 - "Playing the music that makes you feel good...on your music station in Bucks County...1490 WBCB"; fair over several others. (BDM-ON)	
1450	WKIP	NY	Poughkeepsie	- 7/20 0200 - In WCUM-CT null and mixing with someone carrying baseball game (probably WWSC-NY) with "... it's Music Of Your Life—14-50 WKIP", then very slow version of "Someone to Watch Over Me". (RWK-CT)	WMRN	OH	Marion	- 07/27 0100 - "Favorite oldies by request...rock and roll's greatest hits...stereo 1490 WMRN"; fair in quiet pre-TOH lull. (BDM-ON)	
	WRKD	ME	Rockland	- 7/20 0400 - Buried in mush in WCUM null, but man's voice on recorded ID carried well with "You're listening to the all new Rock 14-50 WRKD Rockland /??". Heard again at 0500 with "WRKD, Rockland". (RWK-CT)	WMRC	MA	Milford	- 07/27 0100 - Right on the heels of WMRN's ID with "your information source, all day and all night - 1490 WMRC Milford; good. (BDM-ON)	
				+ - 08/05 2200 - "News/talk 1450 WRKD Rockland, it's 10 o'clock" and CNN Radio News. (BC-NH)	WIKE	VT	Newport	- 08/01 2300 - C&W music, ID "Stereo 1490 WIKE, Newport-Derby, Vermont". An everyday pest here, but maybe this logging will help someone else. (BDM-ON)	
				+ - 7/20 0400 - Buried in mush in WCUM null, but man's voice on recorded ID carried well with "You're listening to the all NewsTalk 14-50 WRKD Rockland /??". I originally reported this as saying "all new Rock 14-50, but reviewing tape it was definitely "news/talk". Heard again at 0500 with "WRKD, Rockland" (RWK-CT)	WLPA	PA	Lancaster	- 08/02 2206 - "Sportsradio 1490 WLPA" ID in station break from baseball play-by-play; fair in mess. (BDM-ON)	
	WCTC	NJ	New Brunswick	- 08/05 2200 - "1450 WCTC New Brunswick" and ABC news, mixed with WRKD. (BC-NH)	WOLF	NY	Syracuse	- 08/06 0005 - "AM 1490 Radio Disney" amidst usual Disney tripe, topping the channel for awhile. (BDM-ON)	
	WWSC	NY	Glens Falls	- 08/05 2159 - "This is WWSC Glens Falls in the Tri-counties... your station for local news"; briefly strong with WRKD. (BC-NH)	1530	WVBF	MA	Middleboro	- 08/05 2130-2205 - Reading service with a story I did not catch the name of, ToH ID for WVBF and several other stations in Massachusetts. Reading Network, into item on "whimsical side of the news", good, peaking well over semi-nulled WSAI. Another daytimer on late. (BDM-ON)
	WNBP	MA	Newburyport	- 7/21 0300 - On top (in null of WCUM-CT) for a couple of hours. Recorded ToH ID: "Legendary songs by legendary performers...are	KGBT	TX	Harlingen	- 8/29 2153- Spanish talk with many "La Primera" slogans, ID in English just after top of the hour. Good with another Spanish station. (GM-FL)	
					WOBS	NC	Jacksonville	- 7/27 1535 - Black Gospel format. "1530, Jacksonville's Legends" ID. (RJ*NC)	
					1540	WREJ	VA	Richmond	- 7/27 2200 - Recorded ID through mush with WPTR phased down with "WREJ Richmond/Petersburg" (RWK-CT)
						WTXY	NC	Whiteville	- 7/27 1518 - Dr. Laura program. Station accidentally interrupted show with news teaser "The news is next on WTXY". (RJ*NC)
						CHIN	ON	Toronto	- 8/12 0300 - WPTR partially phased. Heard standard WPTR song ID, then a song jingle "...C-H-I-N AM 15-40" then recorded ID by man: "AM

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BROADCASTING COMPANY LIMITED**CKEY 59**247 DAVENPORT ROAD, TORONTO 5,
ONTARIO, TELEPHONE WALNUT 5-3111

- 15-40 FM 101.3". Finally, an English ID. Audio had a hollow, echo-effect, like hearing a station off the back of its pattern. Heard several days later with very high-energy dance club music, mixing with KXEL. Quite the collection of programming on this station. (RWK-CT)
- WSIV NY** **East Syracuse** - 8/15 2015 - Weak in WPTR phase null. Heard mention of "1000 watts" several days ago, so tried for this one for a few evenings until successful. Ads mentioning Syracuse, then sign-off mentioning studio/transmitter locations, power, etc. No SSB. My guess is this is only possible in the few months when WNWR signs off first. (RWK-CT)
- 1570 WFLR NY** **Dundee** - 08/31 0631 - Fair-good with ID as "...outside the WFLR studios we have 68 degrees", into Finger Lakes regional news. (MKB*ON)
- 1580 WVZN PA** **Columbia** - 8/2 0000 - Thanks to dxtip from Barry McLarnon (thanks!), heard loud and clear on daytime power with ad for prescription drug plan, then "You're listening to WVZN, Columbia—Sunrise to Sunset on 15-80 AM. Vision Radio is heard overnight on closed circuit..."; ABC news. (RWK-CT)
- + - 08/01 2059-2115 - Ads, ID "You're listening to WVZN Columbia, sunrise to sunset on 1580 AM", into ABC news, then Gary Nolan talk show, dominant with local-like signal. (BDM-ON)
- WORV MS** **Hattiesburg** - 8/23 2114- R&B music; ID as "... all-new R&B station RV 15-80". Good with others present. (GM-FL)
- 1590 WPUL FL** **S. Daytona** - 7/27 1457 - ID copied through jumble of at least four stations. "AM 1590 WPUL." (RJ*NC)
- 1700 WEUV AL** **Huntsville** - 08/29 2235 - Poor with "Stereo 1700 WEUV" ID into gospel song. (MKB*ON)
- KBGG IA** **Des Moines** - 8/13 0500 - Good in WEUV null with "It's all news all day, the new 1700 KBGG Des Moines". Lots of summer storm static. (RWK-CT)

TIS, HAR AND MISCELLANEOUS

- 1610 Talking House NC** **Holden Beach** - 7/27 1450 - Talking house ad for 145 Southshore Drive in Holden Beach. \$299,500! (RJ*NC)
- 1620 Talking House NC** **Holden Beach** - 7/27 1454 - Talking house ad for Carolina Avenue. Three minute tape loop. (RJ*NC)
- 1690 Bronx Zoo NY** **Bronx** - 8/24 1110 - "You are listening to the Bronx Zoo Information Station, Channel 1690 on your AM radio dial..." I heard this station while stuck in major stop-and-go traffic on (Powerball and road construction) on nearby Cross-Bronx expressway (I-95). Continuous tape loop gave information on zoo admission, including the fact that the \$7.00 parking charge did not include zoo admission. (MC*NY)

REPORTERS

- MKB-ON** Mike Brooker Toronto - Panasonic RFB-45.
- MKB*ON** Mike Brooker DXing at Shadow Lake Centre (town of Whitchurch-Stouffville) - Panasonic RFB-45.
- SC-IN** Steve Chappell McCordsville - Bearcat DX-1000; 3 terminated loops.
- SC*IN** Steve Chappell McCordsville - Sangean ATS 818cs.
- MC-NJ** Mike Clancy Jersey City - Optimus 12-603A and SONY ICF-7480W.
- MC*NY** Mike Clancy Bronx - 1991 Buick Skylark car radio.
- BC-NH** Bruce Conti Nashua - Drake R8B, MWDX-5, 100-ft wire; 100-ft east sloping wire.
- BC2-NH** Bruce Conti Nashua - Drake R8B, MWDX-5, inverted-L 100-ft sloping northeast; southwest Ewe antenna.
- HJH-PA** Harry Hayes Wilkes-Barre - Zenith Trans-Oceanic, KIWA pocket loop.
- DH-NJ** David Hochfelder New Brunswick - SONY ICF-2010 with Kiwa Pocket Loop.
- RJ*NC** Russ Johnson Portable in Holden Beach - Radio Shack DX-375 and (Sangean) DT200V clone; RS Loop.
- RK-CT** Rick Kenneally Wilton - SONY ICF-2010, SM-2; Quantum QX Loop.
- RWK-CT** Rick Kenneally Wilton - 2 SONY ICF-2010's, 100' East sloper, Quantum QX Loop, Quantum phaser, SM-2 Loop; miles of tape.
- BDM-ON** Barry McLarnon Ottawa - JRC NRD-525, one-meter loop; inverted-vee.
- GM-FL** Greg Myers Clearwater - SONY ICF-2010; Kiwa Pocket Loop with PRM
- JR-NY** Jim Renfrew Byron - Drake R8; 500' E/W longwire.
- AR*ON** Andy Rugg On route 138 near Monkland, Ontario - car radio.

International DX Digest

Jim Renfrew renfrew@localnet.com
6988 Bank Street Rd.
Byron NY 14422-9702

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

There's always something to be learned about agriculture out here in the country! Last year the sweet corn was harvested in October, and my antenna went up soon after. This year's crop is feed corn, and I was just informed that it is harvested much later in the season, even as late as December. So I unrolled 500 feet this past week, using the corn stalks as my support posts. I'll just have to be watching out for the combine so I can rescue my wire when the time comes.

A stumper for you: A DXing husband and wife, have two biological children, born on the same day, month and year. They are married only to each other, there are no ex-spouses, outside partners, or step children involved. There is no cloning, test tube pregnancy, adoption, wacky science, or UFO kidnapping. Yet the children are not twins! Explain. Answer below!

Jim

TRANS-ATLANTIC DX

- 162 FRANCE** Allouis, SEP 4 0325 - strong signal with music. Other signals noted on 171, 183, 216, 234. [Renfrew-NY]
- 531 MADEIRA** RDP, Porto Santo, AUG 1 0145 - Portuguese talk; under Spain. [Connelly*R-MA]
- 531 SPAIN** RNE R.5 syncros, AUG 1 0145 - // 585 with Spanish teletalk by woman; over Madeira. [Connelly*R-MA]
- 549 ALGERIA** Chaine 1, Les Trembles, AUG 1 0144 - Arabic talk by man; dominant. [Connelly*R-MA] JUL 23 0435 - Good; man in Arabic and music parallel 153, no phasing required as this was strong directly off the east slope. [Conti-NH]
- 549 GERMANY** DeutschlandRadio, Nordkirchen & Thurnau, AUG 1 0036 - // 756 with opera; atop presumed UCB Ireland. [Connelly*R-MA]
- 549 IRELAND (t)** United Christian Broadcasters, Monaghan, AUG 1 0023 - almost surely this with English language pop-religious style vocals. It was not parallel to Germany-756 or to the Algerians. I'll be checking for this again on future beach DXpeditions. [Connelly*R-MA]
- 567 IRELAND** RTE Radio One, Tullamore JUL 27 0250 - Good; jazz vocals and instruments, news at the top of the hour. [Conti-NH] JUL 24 0330 - violin music, then woman in English; to fair peak. [Connelly*B-MA] AUG 1 0037 - soft English talk, then vocal; to fair peak through WGAN-560 slop. [Connelly*R-MA]
- 576 GERMANY** Mega R., Wobbelin, AUG 1 0040 - German talk, weird sound effects, house / club music; over Spain. [Connelly*R-MA]
- 576 CANARY ISLANDS // SPAIN** RNE R.5 syncros, AUG 1 0143 - // 585 with teletalk by man & woman in Spanish; rising over Germany. [Connelly*R-MA]
- 585 SPAIN** RNE R.1, Madrid, AUG 1 0020 - // 639 with Spanish talk and laughing; very good. [Connelly*R-MA]
- 594 PORTUGAL** R. Renascença, Muge, AUG 1 0147 - // 963 with old-fashioned sentimental Portuguese vocal; good, getting through the VOCM/WEZE slop. [Connelly*R-MA]
- 603 FRANCE** France Bleu, Lyon, AUG 1 0026 - // 1206 with spirited musical-theatre style French male vocal; fair. [Connelly*R-MA]
- 612 MOROCCO** RTM, Sebaa-Aiouen, AUG 1 0033 - // 819 with pop-style female Arabic vocal; over Ireland. [Connelly*R-MA]
- 621 CANARY ISLANDS // SPAIN** RNE R.1 syncros, Santa Cruz de Tenerife et al., JUL 22 0452 - man in Spanish over some background music; best TA at the time. [Connelly*B-MA]
- 639 SPAIN** RNE R.1, La Coruna, AUG 1 0017 - fast Spanish talk; to good peak, getting by strong CBN. [Connelly*R-MA]
- 666 PORTUGAL** RDP syncros, JUL 27 0310 - Fair; talk in Portuguese, nostalgic vocals. [Conti-NH] AUG 1 0017 - seemed // Azores-836 with Portuguese music; poor. [Connelly*R-MA]
- 675 NETHERLANDS** R. 10, Lopik, AUG 1 0014 - man in Dutch, then slow song "You Left Me Just When I Needed You Most"; good with WRKO phased. [Connelly*R-MA]
- 684 SPAIN** RNE R.1, Sevilla, AUG 1 0013 - woman with Spanish talk and laughing, mentions of entertainers, then there was interspersed music and a radio drama / soap-opera type presentation with several actors. Good signal; WRKO phased. [Connelly*R-MA]

- 711 FRANCE R. Bleu, Rennes, AUG 1 0026 - // 1206 with French showtunes; poor to fair over growl from Western Sahara-711.05. [Connelly*R-MA]
- 711 WESTERN SAHARA Laayoun, SEP 6 0051 - Fair with man in AA followed by what seemed to be the Koran, separable from WOR. [Dangerfield-PA]
- 747 NETHERLANDS Flevoland, AUG 1 0044 - New Age style instrumental; over Spain. [Connelly*R-MA]
- 756 GERMANY DeutschlandRadio, Braunschweig & Ravensburg, AUG 1 0022 - woman in German, then opera; loud ! [Connelly*R-MA]
- 765 SWITZERLAND RSR, Sottens, AUG 1 0028 - French male folk vocal; good. [Connelly*R-MA]
- 774 SPAIN RNE R.1 synchros, AUG 1 0047 - // 855 with Spanish teletalk; fair through WABC slop. [Connelly*R-MA]
- 783 MAURITANIA ORTM, Nouakchott, JUL 31 2335 - // 4845 with Arabic news; good. [Connelly*R-MA]
- 792 FRANCE R. Bleu, Limoges, AUG 1 0031 - // 1206 with French female disco song; fair to good with WSKO-RI nulled. [Connelly*R-MA]
- 819 EGYPT General Programme, Batra, AUG 1 0034 - Koranic vocal; under Morocco. [Connelly*R-MA]
- 819 MOROCCO RTM, Rabat, AUG 1 0034 - // 612 with pop-style Arabic female vocal; fair, over Egypt. [Connelly*R-MA]
- 836 AZORES RDP, Pico da Barrosa, AUG 1 0009 - excerpt of an apparent political speech by a man in slow deliberate Portuguese, a female news reporter followed; fair through Canaries-837 QRM. [Connelly*R-MA] JUL 27 0455 - Fair; nostalgic vocals, strong het against Canary Islands/Spain 837 kHz. [Conti-NH]
- 837 CANARY ISLANDS // SPAIN COPE synchros, AUG 1 0008 - teletalk // 1296; fair to good over Azores-836 het. [Connelly*R-MA] JUL 27 0450 - Fair; news/talk in Spanish, strong het on low sife from Azores 836 kHz. [Conti-NH]
- 837 FRANCE R. Bleu, Nancy, AUG 1 0048 - // 1206 with French male folk-style vocal similar in style to songs by Gordon Lightfoot; very good, over Canaries. [Connelly*R-MA]
- 855 SPAIN RNE R.1, Murcia et al., AUG 1 0047 - // 774 with Afro-Caribbean style vocal, then Spanish talk by woman, followed by teletalk; good. [Connelly*R-MA]
- 864 EGYPT Holy Koran R., Santah, AUG 1 0042 - Koranic male vocal; huge, killing France. [Connelly*R-MA]
- 864 FRANCE France Bleu, Paris, AUG 1 0223 - // 945 with gospel-influenced group vocal; very good. [Connelly*R-MA]
- 873 SPAIN SER synchros, AUG 1 0049 - two woman in Spanish with talk & teletalk show; good. [Connelly*R-MA]
- 882 UNITED KINGDOM BBC R. Wales, Washford, AUG 1 0051 - light pop vocal, then English talk; dominant, over COPE Canaries-Spain. [Connelly*R-MA]
- 891 ALGERIA Chaine 1, Algiers, AUG 1 0151 - // 153 with violins, then Arabic talk by man; in slop. [Connelly*R-MA]
- 907.81 GAMBIA R. Syd, Banjul, AUG 1 0152 - bits of audio, mostly just a het against BBC-909. [Connelly*R-MA]
- 909 UNITED KINGDOM BBC, Moorside Edge et al., AUG 1 0150 - news reports from field correspondents; poor to fair. [Connelly*R-MA]
- 936 SPAIN RNE R.5 synchros, AUG 1 0153 - // 774 with Spanish teletalk; poor. [Connelly*R-MA]
- 945 FRANCE France Bleu, Toulouse, AUG 1 0102 - // 1206 with old-time French male vocal and ragtime jazz instrumentation; loud. [Connelly*R-MA]
- 954 SPAIN R. Espana, Madrid, AUG 1 0223 - restricted range audio on Spanish talk, maybe a telephone interview or remote broadcast; fair through CHNS-960 slop. [Connelly*R-MA]
- 963 PORTUGAL R. Renascenca, Seixal, AUG 1 0147 - old-time Portuguese vocal // 594; poor, in bad CHNS slop. [Connelly*R-MA]
- 981 ALGERIA Radiodif. Algerienne, Algiers, JUL 31 2357 - Koranic vocal; light audio on powerhouse carrier. [Connelly*R-MA]
- 981 GREECE ERA, Athens, AUG 1 0109 - Greek bouzouki music with male group vocal; good. [Connelly*R-MA]
- 999 SPAIN COPE, Madrid, JUL 31 2356 - woman in Spanish; good. [Connelly*R-MA]
- 1017 GERMANY SWR-1, Wolfsheim, AUG 1 0156 - US soul and



- 1017 SPAIN RNE R.5 synchros, AUG 1 0055 - woman in Spanish; initially dominant. [Connelly*R-MA]
- 1026 SPAIN SER synchros, AUG 1 0224 - // 1044 with woman in Spanish; to fair peak with WBZ phased. [Connelly*R-MA]
- 1035 PORTUGAL Radio Nacional, Porto Alto-Lisboa, AUG 1 0220 - man & woman in Portuguese; good with WBZ phased. [Connelly*R-MA]
- 1035 PORTUGAL Lisbon, SEPT 6 0105 - Good, with soft music. [Dangerfield-PA]
- 1044 SPAIN SER synchros, JUL 31 2355 - Spanish teletalk; fair. [Connelly*R-MA]
- 1053 SPAIN COPE synchros, AUG 1 0101 - Spanish news; now atop UK. [Connelly*R-MA]
- 1053 UNITED KINGDOM Talk Sport synchros, AUG 1 0059 - advert for computer self-help CDROM; fair - good. [Connelly*R-MA]
- 1071 SPAIN Euskadi Irratia, Bilbao, JUL 31 2353 - // 1197 with folk vocal; getting by CBA. [Connelly*R-MA]
- 1089 UNITED KINGDOM Talk Sport synchros, AUG 1 0116 - // 1053; man on the telephone spoke with talkshow host about bring a kid in the 1980's; good. [Connelly*R-MA]
- 1098 SLOVAKIA R. Slovensko, Velke Zaluzie, AUG 1 0157 - male Slavic ballad vocal; excellent. [Connelly*R-MA]
- 1107 SPAIN RNE R.5 synchros, AUG 1 0055 - fast Spanish talk by man; local-like. [Connelly*R-MA]
- 1116 SPAIN SER synchros, JUL 31 2352 - Spanish newstalk by woman; good. [Connelly*R-MA] JUL 27 0315 - Good; in-studio discussion in Spanish, some synchro echo, parallel 1575. [Conti-NH]
- 1125 CROATIA Hrvatski R., Deanovec, AUG 1 0056 - polka vocal // 1134; fair. [Connelly*R-MA]
- 1134 CROATIA Hrvatski R., Zadar, AUG 1 0001 - Slavic language news by man; huge, way over Spain. At this Boston Area DXers "Clams" DXpedition outing, I showed Tom Walsh this station hitting S9+25 while adjacent WBBR-1130 NYC was only at S9+20. AUG 1 0056 - polka vocal; local-like. [Connelly*R-MA] SEP 4 0254 - pop music vocals, my first try with the longwire up for the season. [Renfrew-NY]
- 1143 SPAIN COPE synchros, AUG 1 0117 - echoey Spanish talk by woman; good strength. [Connelly*R-MA]
- 1152 ROMANIA (t) R. Romania, Cluj, AUG 1 0111 - Balkan style music seemed // 1179; momentarily over Spain. [Connelly*R-MA]
- 1179 CANARY ISLANDS // SPAIN SER synchros, AUG 1 0118 - // 1044 with SER net news by woman in Spanish; over suspected Romania. [Connelly*R-MA]
- 1179 ROMANIA (t) Romania Actualitatea, Galbeni-Bacau, AUG 1 0111 - moody Balkan style folk vocal seemed to be // 1152. I also checked 855, but all Spain there, and - on 1053 - UK / Spain mix. [Connelly*R-MA]
- 1188 HUNGARY VOA/RFE Relay, Marcali, AUG 1 0103 - Slavic folk male vocal; good. [Connelly*R-MA]
- 1197 SPAIN Euskadi Irratia, Vitoria, JUL 31 2353 - folk vocal // 1071; through WKXN slop. [Connelly*R-MA]
- 1206 FRANCE France Bleu, Bordeaux, JUL 31 2340 - good with Animals oldie "The House of the Rising Sun". [Connelly*R-MA] JUL 27 0335 - Good; man and woman in French, and a Broadway-style show tune. [Conti-NH]
- 1215 UNITED KINGDOM Virgin R. synchros, JUL 31 2350 - "Here With Me" by Dido; good, over Spain. + AUG 1 0213 - Madonna song; loud. [Connelly*R-MA]
- 1242 FRANCE R. Bleu, Marseille, AUG 1 0124 - bits of French female vocal // 945; shredded by slop from WBUR-1240. [Connelly*R-MA]
- 1251 LIBYA Libyan Jamahiriya Broadcasting, Tripoli, AUG 1 0006 - flute music; poor to fair audio, big het on CBGA-1250. Incidentally, WKBR-NH was causing a lower het because it was on 1249.55 instead of 1250. [Connelly*R-MA] SEP 6 0107 - Fair, with Libyan type music. [Dangerfield-PA]
- 1296 SPAIN COPE, Valencia, AUG 1 0008 - // 837, Spanish talk with woman in studio and a man on the telephone; good, through WJDA slop. [Connelly*R-MA]
- 1341 NORTHERN IRELAND BBC R. Ulster, Lisnagarvey, AUG 1 0211 - English talk; in slop. [Connelly*R-MA]
- 1359 SPAIN Arganda, AUG 1 0132 - woman in Spanish leading panel discussion program; big signal, getting around strong CKBC. [Connelly*R-MA]
- 1377 FRANCE France Bleu, Lille, JUL 23 0326 - French disco music; fair.



- [Connelly*B-MA] AUG 1 0123 - // 945 and 1206 with romantic Frenchfemale vocal & piano; huge, better than St. Pierre on 1375. [Connelly*R-MA] SEP 0007 - Poor, pop music, male vocal, but easily separable from 1375. I hear this most nights. 1206 might be easier for some, but I have WPHT. [Dangerfield-PA]
- 1422 GERMANY DeutschlandRadio, Heusweiler, AUG 1 0210 - classical music; excellent. [Connelly*R-MA]
- 1458 ALBANIA (t) Flake, AUG 1 0228 - Slavic-sounding talk; poor. [Connelly*R-MA]
- 1502 ANGOLA E.P. de Benguela, AUG 1 0209 - African vocal; poor, hettet by weak unID on 1503. [Connelly*R-MA]
- 1512 CRETE / GREECE ERA, Chania, AUG 1 0133 - // 981 with Greek music; poor in WWZN slop. [Connelly*R-MA]
- 1521 SAUDI ARABIA BSKSA, Duba, JUL 25 0256 - Oud interval signal; to good peak. [Connelly*B-MA]
- 1521 SPAIN SER, Castellon, AUG 1 0134 - // 1044 with Spanish teletalk; fair. [Connelly*R-MA]
- 1530 VATICAN CITY R. Vaticana, JUL 23 0322 - eastern European talk, Vaticana mention; over/under WSAI. JUL 26 0324 - Latin phrase "Laudetur Jesus Christus", then Vatican interval signal; huge, way over WSAI. [Connelly*B-MA]
- 1539 GERMANY Evangeliums Rundfunk, Mainflingen, AUG 1 0135 - Christian pop music; good, over SER and some not-totally-nulliable WPTR slop. [Connelly*R-MA]
- 1548 KUWAIT VOA Relay, Kuwait City (Kabd), AUG 1 0136 - VOA stock market report; good. [Connelly*R-MA]
- 1602 SPAIN Euskadi Irratia, Vitoria, AUG 1 0226 - man with Spanish talk; over SER synchros. [Connelly*R-MA]

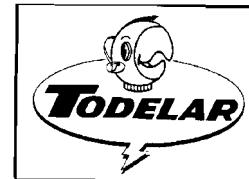
Mark speaks: This report includes loggings from this year's "DX Clams" DXpedition outing of the Boston Area DXers. For the full report, with pictures, go to: "<http://www.geocities.com/markwaison/dxclams2001.htm>". I enjoyed the 2001 Boston Area DXers "DX Clams" outing, the fourth of these annual mini-DXpeditions that defy the notion that long-distance medium-wave reception is not possible during the summer. All you need to succeed this time of year is a coastal location, talented DXers, good receivers and antennas, and a bit of luck in missing a night with excessive thunderstorm static (or one with 'dud' propagation). Despite the perception of summer as "not the DX season", there was good DX to be had at each of the previous "Clams" get-togethers (Rowley, MA in 1998; Rockport, MA in 1999 & 2000). The 2001 effort was, perhaps, the best "DX Clams" outing so far in terms of propagation. By sunset at 8 p.m. local (0000 UTC), the AM dial was rocking with European and North African DX. Interestingly, "spot" openings to certain areas seemed to be the order of the evening: an eastern Mediterranean / Middle East run would put stations such as Egypt-864 and Greece-981 on top of their channels for a while, eastern Europe (Slovakia-1098, etc.) would then crank in, and the Ireland / UK / Netherlands / Germany region would take over, before more typical conditions favoring Spain, Portugal, France, and northwest Africa returned. There was very little to hear from South America or the Caribbean area. Much of this summer has seen diminished reception from the south. The weather was mostly clear and fairly humid, but not excessively warm. Evening temperature was about 21 C / 70 F. Flying insect pests weren't as much a problem as on some of the other summer DXpeditions. Static was much less than it was a couple of weeks earlier on a solo mid-July Rockport DX session. The deployment of Bruce's novel antenna system was a highlight of this year's outing. Judging by Bruce's loggings, the big-loop phased against the inverted L "tower" worked quite well in producing cardioid nulls to the west to clear the domestic crud away from the transatlantics. Tom Walsh borrowed my Palstar R30 and managed to snag several European medium-wave stations with just a short hunk of wire on the rocks. Gary Thorburn and Paul Graveline DX'ed with Gary's varactor-tuned box loop mounted on a tripod next to his car. I had a good time as always. "DX Clams 2001" inspired me to think about Newfoundland DXpedition #10 coming in November, 2001. That "big daddy of East Coast DXpeditions" will coincide very closely with the 100th anniversary of Marconi's reception of Britain from Signal Hill in St. John's, NF.

Ben speaks: "Don't know whether or not this will make the deadline, but if not, there is nothing worldshaking in it. Just returned from the convention at Pittsburgh and sorry to have missed Bruce's Sunday night TA demo that did produce some, proving that with sufficient equipment some TA reception is possible even out there in early September and in a period of relatively high sun spots. Things are improving here, and tonight saw a minor TA opening during the early part of the evening. In the past few days I've been getting fairly good signals from such as Spain 684 and 855, Croatia-1134, Slovakia-1098, along with the LW stations on 162, 183, 216, and 234. Mauretanian-783 is in most evenings with weak signals, as is Lille-

1377, while Saudi-1521 has the usual strong open carrier before its sign on. Several others are being heard nightly, but nothing to get excited about as yet. I have declined Newfoundland this year for various reasons although I would enjoy being there. Hoping that the new DX season will be better than the last."

PAN-AMERICAN DX

- 530 TURKS & CAICOS IS R. Vision Cristiana, AUG 7 0620 - with SS religious program. Female announcer. Weak with very heavy lightning QRN. [Redding-AZ] AUG 15 0156 - fair to good with a pop / dance spanish religion tune about "Liberación", at 2158 a man giving an ID as "Radio Vision Cristiana" followed by "La emisora de Dios" jingle, then at 0200 "Radio Vision Cristiana esta la hora" the same man heard with "en Nueva York, Republica Dominicana y une grand parte del Caribe, son las diez de la noche, diez de la noche" then EE legal ID "Broadcasting from Paterson, New Jersey, etc..." then SS religious pop. [Chiochiu-PQ]
- 540 MEXICO XEJAZZ Tijuana BCN, AUG 7 0623 - using the slogan K-Jazz. In stereo. Some splash from KFYI and a little QRM from XEWA. [Redding-AZ]
- 570 MEXICO XEUK Cabo Corral SON, AUG 22 1930 - playing baladas. Groundwave. [Redding-AZ]
- 640 CUBA R. Progreso AUG 3 0400 - Good; "nuestro noticiero... de Prpgreso," UTC-4 time check, and romantic ballads. [Conti-NH]
- 640 UNID (YVQO and CMBC most likely), AUG 15 0205 - bits of audio, sounded somewhat Spanish to me [Chiochiu-PQ]
- 700 JAMAICA RJR Montego Bay AUG 5 0500 - Fair; woman with RJR ID in the middle of a DJ rap style reggae song, no sign of WLW Cincinnati. [Conti-NH]
- 710 MEXICO XEDP Ciudad Cuautemoc CHIH, AUG 16 1113 - BIG S/O signal with slogan La Ranchera del Cuautemoc. [Redding-AZ]
- 730 MEXICO XEX Mexico DF, AUG 7 0700 - Top of hour ID "XEX, La Nueva X", then at 1204 another XEX ID. [Redding-AZ]
- 750 VENEZUELA YVKS Radio Caracas Radio, Caracas AUG 15 0203 - poor signal, heard with a man giving a phone number somewhere in Caracas [Chiochiu-PQ]
- 760 COLOMBIA HIAJ RCN Barranquilla, AUG 15 0206 - fair signal but muffed audio with a low growl. Excited SS talk (possibly live from "La Copa de Todorte"); heard a mention of Paraguay which is one of the most representative country of the Copa de Todorte games (there has been even a discussion to move the games in Paraguay, because of the Colombia's problems with the drugs). Also, RCN airs frequently these games instead of the usual "Nocturna RCN" program. Nice to get readable audio from them that early in the DX season ! [Chiochiu-PQ]
- 760 MEXICO XENY Nogales SON, AUG 22 1944 - with 50s baladas. Strong and steady. Via groundwave. [Redding-AZ]
- 810 UNID, AUG 26 0310 - Mexican music station playing ranchera and lots of banda. For a while blowing KGO off the air. Used slogan La Tremenda and La Mexicana. [Redding-AZ]
- 820 MEXICO XEMVS Mexicali BCN, AUG 28 0323 - with a talk / features and interests program. Many ads from Mexicali businesses. New. [Redding-AZ]
- 850 UNID, AUG 26 0335 - Mexican music station playing almost only banda. Rare to see KOA get blown out like this. KOA showed back up about 0355 just in time to kill any chance at a ToH ID. [Redding-AZ]
- 940 CUBA R.Reloj AUG 3 0805 - RR code IDs, minute markers, and syncopated clock under CINW. R.Reloj also heard on 950 and 960 tonight. [Conti-NH]
- 980 MEXICO XEFQ Cananea SON, AUG 22 2000 - top of hour ID coming out of a talk show and noticias then into music. Via groundwave, new. [Redding-AZ]
- 1110 MEXICO XEWU Ciudad Juarez CHIH, SEP 1 0540 - The more I listen to this station, the more I like it. SS announcers are the only drawback. Playing the Hollies then the Doors, "Hello, I Love You". Long sets too and you would think it was 1968. Nice format. Its a real shame that more stations across the border don't do this. [Redding-AZ]
- 1140 MEXICO XELIA Morelia, Michoacan, AUG 20 0305 - with a radio novela in the clear with a 40s-ish type old radio serial type program. // with XEPW 1200 and XEH 1420. Got ID at 0305 just prior to start of program. New. [Redding-AZ]
- 1200 MEXICO XEPW Vera Cruz, AUG 20 0300 - with top of hour ID and in the clear. No sign of WOAI, into a radio novela a 40s-ish type old radio serial type program. // 1140 XELIA and 1420 XEH. New. [Redding-AZ]
- 1375 ST. PIERRE ET MIQUELON RFO St. Pierre JUL 23 0425 - Excellent; pop French music parallel 162 kHz. [Conti-NH]



1420 MEXICO XEH Monterrey, NL, AUG 20 0308 - with same 40s ish radio novela // with 1140 XELIA and 1200 XEPW. Got location from ads during a break at 0313 then fade out by 0316. New. Apparently the three above are in some network but I never got any idea of which one. [Redding-AZ]

INTERNATIONAL NEWS

ALGERIA: Algeria has reported a couple of new transmitters to the ITU. There is no indication whether they are operating or not. 702 Djelfa 50/25 kW, 756 Alger 3 10/5 kW. [ITU via BT/OA in ARC Info Desk e-mail]

CAMBODIA: It is expected that in the near future the MW band will be opened up to private organizations with powers of up to 50 kW. The FEBC is planning for a 50 kW transmitter in Phnom Penh and another MW transmitter at Stung Treng. [FEBC website, in ARC Info Desk e-mail]

CROATIA: The QSL manager of the Croatian Radio is Zeljko Klasan, 9A2DQ, so write to him at HRT, Prisavljje 3, 10000 Zagreb, Croatia. (Erik Koie-DEN OZ3YI, May 7, BC-DX #519, in ARC Info Desk e-mail)

DJIBOUTI: IBB/VOA is planning for a new 600 kW mediumwave transmitter site in Djibouti. [VOA in ARC Info-Desk e-mail]

DRM: Long Term Test on Mediumwave 6 August 2001: Since 25 July, Deutsche Telekom AG is broadcasting digitally 24 hours a day on Mediumwave 729 kHz from station Putbus/Ruegen. This long term DRM transmission is performed with a 10kW Telefunken TRAM-transmitter. The DRM signal is compatible to CM300V4 and the main service channel contains audio and data streams encoded by FhG's Content Server. During the last days the service was successfully decoded by various stationary and mobile FhG Software Receivers. Within the next weeks Deutsche Telekom intends to do some measurements in terms of reliability and system performance. After these tests it is planned to distribute the results in connection with the RADIALE IST project. (Info from Stefan Krueger, Project Manager Audiosystems, T-Nova Deutsche Telekom Innovationsgesellschaft mbH, Berlin). (via Kai Ludwig) [<http://www.rnw.nl/realradio/html/drm.html>] The digital signal has some similarity to white noise, but careful listening reveals that it consists of high speed pulses. Seen as interference, the signal is equal to white noise, though. It creates a continuous noise cover that does not leave openings for weaker co-channel signals, unlike the case with AM. So far no commercial receivers are available for DRM reception. Supporters of DRM hope that the technology will revive the AM bands by offering FM quality signals. (Olle Alm) [in ARC Info Desk e-mail]

EAST TIMOR: 684 The UN is running a station "Radio UNTAET" on 684 kHz 24 hours a day with 5 kW. Program is mostly in Indonesian but some English, Portuguese and the local dialect are used. I have heard the station in both English and Indonesian. The over night music program starts at 1200z and runs thru to 2100z. No announcements are made during this period. UNTAET stands for United Nations Transitional Administration East Timor. 1404 Another station in East Timor is on 1404 kHz. This station is run by the Catholic Bishop of Bacau. "Radio Timor" 1404 does not run 24hr. S/on seems to be at 2100z. There is far more Portuguese heard on this station including relays of Radio Portugal. Also lots of religion with prayers by nuns and recitations. Commercials are in Indonesian with reverb. The currency there appears to be Aussie dollars. To DX East Timor the strongest signal out of 684 & 1404 is by far 1404 kHz. (Chris Martin, Darwin NT, May 15, via AMNF 17.5.2001, in ARC Info Desk e-mail)

FRANCE: 162 Allouis LW transmitter now runs on half-power (1 MW instead of 2) between 1900 and 0400 UTC, previously it was on HP between 2200 and 0330. During the winter it will reduce power as early as 1700 UTC. This was decided by Radio France (not TdF) because they want to reduce the power bill. Anyway nobody listens to that station as the programme goes out in // on FM. [Original info: Thierry Vignault, via Rglobe-L mailing-list, Rémy Friess via MWC e-mail news 19.07.2001 in ARC Info-Deske-mail] RMC, recently renamed "RMC Info", has asked for several MW frequencies in France since their longwave transmitter is not strong enough to cover the northern part of the country. Alain Weill, the owner and manager of the station, has shown a keen interest in channels in Lille, Dijon, Brest, Rouen and Strasbourg. What is not quite clear yet is whether RMC wants to use the stations vacated by Radio France a few years ago or if they simply want to set up LP stations in the five cities mentioned. It has also been announced that these stations would go DRM as soon as possible. [Rémy Friess via MWC e-mail news 11.07.2001 in ARC Info Desk e-mail]

MADEIRA: 1485 Estação Rádio da Madeira has been off the air since 6 August 2000. The licensing authority declared in a decision dated 5 April 2001 that it intends to revoke the station's licence as a station is not permitted to be off the air for more than two months (except in case

of force majeure). [<http://www.aacs.pt/bd/Deliberacoes/20010405e.htm> (via OA in ARC Info Desk e-mail)]

NETHERLANDS: 1296 (via UK) Merlin Communications has signed a two-year contract with Radio Nationaal, a Dutch commercial broadcaster for transmission services utilizing Merlin's medium wave (MW) facility in the UK. Radio Nationaal programming will be transmitted for fifteen hours every day on MW, providing comprehensive coverage of The Netherlands and Belgium. [via Steve Whitt, MWC e-mail news 13.07.2001 in ARC Inf Desk e-mail]

RUSSIA: 198 The broadcasting mast, of 205 metres height, has fallen down in the town of Angarsk. At night from 5th to 6th of June the 205-metres broadcasting mast fell down on the territory of radiostation No. 3, in Angarsk. As a result of this fall the aerial feeding system was damaged; the broadcasting of radiostation "Mayak" was broken off. The fallen mast relayed the signal of "Mayak" for most of Eastern Siberia. (Information from radiostation "Mayak" 06.06.2001 - 15:53, via RUS-DX #95-C) Obviously this affected one of two masts that carried a T antenna for the Mayak transmitter on 198 kHz. Radio Station No. 3 is located in central Angarsk City, and reportedly the LW transmitter will now be moved elsewhere. Pictures of the station (before the collapse) are available at <http://www.icc.ru/radio/radiostn3.htm> [OA in ARC Info Desk e-mail]

SWEDEN: 1179 On Friday 11th May the 10 kW MW transmitter at Sörvästborg conked out. This was not unexpected since the output power of the last final tube steadily had decreased and on the occasion was less than 4 kW. After several days of attempted repairs it was decided that further work was of no use. The unavailability of spare parts and signs that the tube was useless brought about the decision. As a result, 1179 is now silent 0600-1350 (summer UTC). There is an ongoing study to determine whether a new transmitter (10 kW or higher) is to be procured, but for the time being no decisions have been taken. [Bengt Meijer, Teracom AB via Bengt Ericsson in ARC Info Desk e-mail]

TAJIKSTAN: 648 Orzu (Kolkhozabad). BBC schedule information from 1997 confirms this site and a transmitter power of 1000 kW. This transmitter was redirected here for broadcasts to Afghanistan in the early '80s on the request of the Afghan government and after a Politburo decision. It was long mistaken for a regional rebroadcast transmitter within Afghanistan. (From web information found by Olle Alm, Bernd Trutenauf, in ARC Info Desk e-mail)

UNITED ARAB EMIRATES: 1314 You may recall that IBB/VOA conducted tests on 1314kHz from Abu Dhabi earlier this year. Apparently, according to my sources, these tests on 1314kHz came to nothing — no coverage in target areas. However, recent interest in the Middle East by the IBB may cause some changes to the MW band in the next few years from two places — Cyprus and Djibouti (Steve Whitt via MWC e-mail news 23.05.2001) (Shortwave tests via Abu Dhabi seem to have been more successful and have resulted in some relays, a.o. RCI / OA) [via ARC Info Desk e-mail] SPAIN: 954 From the beginning of July and after 75 years of history, Radio España, Madrid no longer exists. The owner (Grupo Planeta, a publishing firm) decided to close the station after more than 30 million euro in losses. At this time, you can listen to Onda Cero Radio, Madrid on this frequency. Grupo Planeta wants to buy 19% of the Cadena COPE stocks, so I fear the worst. [Ignacio Sotomayor, HCDX 31.7. 2001 in ARC Info Desk e-mail]

CONTRIBUTORS

Bogdan Alexandru Chiochiu, Pierrefonds PQ; Sanyo MCD-S830 AM/FM portable with the internal directional ferrite bar loop antenna <chiochiu@colba.net>

Mark Connelly, WA1ION, Billerica MA (also DX'ing from Rockport MA); Drake R8A, broadband loop, active whip, "Kaz" antenna, Superphaser-1 phasing unit <MarkWA1ION@excite.com>

Bruce Conti, Nashua NH; R8B, MWDX-5, 30-m wire, 30-m east sloping wire, noise-reduced via 4:1 RF xfmr and buried coax.<BACONTI@aol.com>

Ben Dangerfield, Wallingford PA; R8A, 4 slopers, DXP-3A phasing unit.

Kevin Redding, Mesa AZ; Chris Cuff AM stereo modified Delco car radio, Kenwood R-1000 and 85' antenna, Radio Shack DX 398 and Signal Magnet 2 loop <amfmtdx@qwest.net>

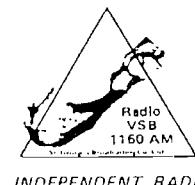
Jim Renfrew, Byron NY; Drake R8, 500' e/w longwire. <renfrew@localnet.com>

CAPE COD VACATION DX NOTES: 21-24 AUG 2001

Mark Connelly, WA1ION

My wife, my son, and I spent four relaxing days (21-24 AUG) on Cape Cod at my brother-in-law's place in East Harwich, MA. Aside from beach-going, nightlife, fish dinners, shopping, and other diversions, I managed to get some DXing and antenna testing time in as well. I'd promised Gerry Tho-

mas a good "road test" of his Quantum QX Pro loop antenna with its super-sized ferrite head and dual band (longwave, medium wave) capability. Comparisons were made to the Kiwa loop (which only covers MW). On medium wave, the Kiwa had SLIGHTLY better signal-to-amp noise ratio on very weak signals but less overall output level. With a less sensitive receiver, the QX Pro would tend to be the winner; with a very sensitive receiver (optimally-aligned R390A, Drake R8B with preamp on, etc.) the Kiwa would have the narrow advantage. Both loops have regeneration which can tighten bandwidth and increase output about 15 dB before oscillation occurs or audio intelligibility degrades excessively. Regeneration is very useful with Sony and Sangean portables not having high sensitivity and great IF filters. With the better tabletop receivers, you wouldn't use it as often. The East Harwich location was RF-quiet for serious daytime sensitivity tests that are difficult to do at home where a stew of local electrical noises often dogs reception. Longwave performance of the Quantum QX Pro was good: numerous US & Canadian aerobeacons could be logged easily and European / N. African broadcasters came in well at night. The other big antenna experiment was with the "Phased Kaz" system. I suspended the top of the Kaz delta with a nylon rope over the top of a pitch pine tree near the north side of the house. The dimensions of this antenna were larger than what I'd used at home for previous testing. The base of the delta was 1.22 m / 4' off the ground and had a length of 25 m / 82'. The vertical distance from the midpoint of the base to the apex was 7 m / 23'. The inverted vee top section, therefore, had an overall length of 28.66 m / 94' (14.33 m / 47' either side of the apex). At each end of the two lower corners of the triangle, the base wire and top wire leads were presented to inputs of a termination / buffer amplifier box. Each of these two boxes consisted of a selectable terminator (Vactrol or fixed 1K resistor), a 16:1 stepdown transformer (Mini-Circuits T16-6T-X65) to go from about 1K balanced down to about 62 ohms unbalanced, a 1:36 transformer (Mini-Circuits T36-1-X65) to go up to about 2.2 K unbalanced, and a high-impedance buffer amplifier card (BUF-E) containing a National LM6221N integrated circuit. This buffer amplifier has negligible loading (above 40K resistive, less than 15 pF capacitive) at its input. The coaxial output of each box was capacitively coupled to the buffer amplifier card 50-ohm RF output and choke-coupled to the amplifier's power rail. Each box's Vactrol control was via a separate terminal fed by wire placed along the ground next to the coaxial feeder. In the house I used a dual controller having 1K 10-turn pots between regulated 10 VDC and ground. This controller fed the two Vactrol control lines. This unit also had chokes to put 12 VDC amplifier supplies onto each of the coaxial feeders and capacitors to pass RF to, and block DC from, the RF-out terminals. The two RF-out lines were fed to a very simple phasing unit (DXP-3) ahead of the Drake R8A receiver. The Kaz antenna was positioned on an east-west axis. Coaxial and control wires ran along the ground southeast towards the house from the west end and southwest towards the house from the east end. Lengths of each feed set-up were approximately 22 m / 72' give or take a bit. The signal received from the terminator-amplifier box at the east end of the antenna exhibited variable nulls of stations to the west (NYC, Providence, etc.) as the bias on the west box VTL5C4 Vactrol was adjusted. In the same manner, when listening to the signal from the west box, nulls of eastern stations (Nova Scotia mostly) could be observed to vary as the east box Vactrol bias was adjusted. Even with each box set to a fixed 1K termination (rather than using Vactrol control), substantial differences in pick-up could be noted on the east box versus the west box. Usually a fixed 1K termination provided nulls of about 10-15 dB in a given direction (east +/- 30 degrees, west +/- 30 degrees). Vactrol adjustment could get 25 dB or so null in some instances. Things really got interesting when the two RF lines were phased. Phasing most definitely "kicked it up a notch" (as the famous TV chef says) with nulls of 40 dB or better on daytime groundwave and frequently better than 25 dB on skip at night. Big "honkin'" signals from New York stations on 660, 880, etc. could be dropped right down into the mud. This large version of the Kaz antenna with the buffer amplifiers was quite sensitive, perhaps on par with Beverages. As a point of reference, it delivered a nice fat S7-S8 noise-free signal on Turks & Caicos - 530 midday groundwave when the Kiwa Loop was just yielding marginal audio and the QX Pro barely raised the carrier over the front-end noise deck. As this was a family trip and not a DXpedition, I missed the undoubtedly "primo" sunset openings. Even so, I had a great deal of luck later at night on both medium-wave Transatlantics and Latin Americans. The phased Kaz system "boogied": I suspect that it could outdo the phased northeast and southeast slopers that were my "top gun" antenna system in previous summers at the East Harwich site. I left the two Vactrol control knob settings at positions producing known daytime nulls of midband stations (WINS-1010 to the west; CKBW-1000 to the east). Trying to adjust these on night skip probably would have been counterproductive. Anyway I had phasing for that ... and



VSB-3 - 1160 AM
Visitor Service Broadcasting
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Entertain you 7 am - Noon
Every day during your stay

baby did that work like a champ ! I'd walk up to one domestic pest after another, twist the phaser controls, and ... bam ! ... away you go: US junk to the background, foreign DX goodies to the front. The tight cardioid pattern that the phased-Kaz produced was vastly more useful than what any regular loop could offer. The DX was fun in that I had not heard much out of Latin America in months. I had not gone to Cape Cod for months either. Hardly a coincidence. At home in Billerica, conditions almost always "stink" for the LA's, but even the recent Rockport outings hadn't yielded much beyond the usual blowtorches like Carupano-1110 and Caracas-750. Oh what a pleasure to go back to East Harwich and hear booming signals from the south of the sort seldom experienced at or near home. It brought me back to the old days (1960's) when I heard booming South Americans night after night during summer stays in the Dennis - Yarmouth (Bass River) area and then I'd go back home to Arlington, MA ... 15 km / 9 miles from my present QTH ... to hear scarcely anything interesting from the tropics for many months. This time in E. Harwich I came very close to a log of Uruguay (R. Independencia, CX50, Montevideo) on 1529.55. It had a strong het and, during a lull in the combined strength of the 1530.0 Sao Tome / Vatican / WSAI jumble, some Spanish-language audio. I don't think anyone in the USA has ever logged this: so far, in recent history, there are only Newfie DXpedition loggings. If somebody lived full-time on Cape Cod or on the coast of Maine with a phased-Kaz system or Beverages, this and many other previous "US-unheards" would be swiftly bagged. Remember the early / mid-1980's when Neil Kazaross was in Ogunquit, ME (and also Narragansett, RI) or the '70s with Marc DeLorenzo & Ernie Cooper on Cape Cod, George Hakiel on Long Island, and Mike Dunn in Nova Scotia ... truly the stuff of DX legends. Having a home at a top-grade seaside location is vastly superior to having to operate out of a car during hit-or-miss openings during possibly dodgy weather to the accompaniment of conceivably unfriendly law officers and other visitors. Some of the other more interesting things noted during my trip: Barbados tentative on 790; a Cuban Rebeldé topping 810 instead of expected Colombia or Puerto Rico; R. Calendario - 1020 popping up during a fade of mighty R. Margarita (I was hoping for Nanduti but no such luck); Dominican Republic on turbulent 580 (that had Jamaica, Puerto Rico, and maybe Venezuela at other times); Colombia - 730 going head-to-head with Charleston, SC; Dominican Republic - 1040, unID Spanish with "Caribe" mentions on 850 duking it out with semi-local WEEL; a Spanish-speaker on 620.28 that may have been Central American (late reception time: 1008 UTC). There was an assortment of unID hets of apparent Latin American origin: these included 580.52, 627.5, 649, 652.5, an 812.9 to 813.3 wanderer, and 1041.22. I think a few of these have been figured out previously by Terry Krueger and some of the other south Florida guys, but I don't have the information at hand presently. European, North African, and Middle East stations were coming in well up to about 1 a.m. local / 0500 UTC. I noted some of them in the logbook, but since I'd been doing pretty well with these during Rockport, MA DXpeditions earlier this summer, I spent less time on these than on the South American and Caribbean area stations. Loudest TA's were France - 1206 and 1377 all evening and Saudi Arabia - 1521 at 0300 UTC sign-on. Nothing really rare or different noted: sunset would have been more interesting, no doubt. That's when I do best with the eastern Brazilians as well. The southeast sloper used in prior summers worked magic with these at sunset at East Harwich: sometime I'll have to see if a phased-Kaz set-up can do the same. All in all, it was a good time away from work and home, a chance to "recharge the batteries" and include a bit of useful antenna testing and DXing in the balanced mix of activities on old Cape Cod. I've done a series of comparative tests on the popular Kiwa and Quantum loops used mostly by medium-wave (500-1800 kHz) Dxers and occasionally by 160-m hams. The article entitled "Loop Shoot-Out at East Harwich" is on the Web in PDF form at http://www.qsl.net/wa1ion/loop/harwich_loop_shootout.pdf and a ZIP file including the Microsoft Word document is available for download at http://www.qsl.net/wa1ion/loop/harwich_loop_shootout.zip. If you have trouble accessing these directly, try the links on my RF Circuits page at <http://www.qsl.net/wa1ion/index.html>. [Mark Connelly, WA1ION]

PACIFIC-ASIAN LOG AVAILABLE

I'm happy to announce the introduction of the new Pacific-Asian Log. The PAL is a listing of all known medium wave broadcasting stations in South and East Asia and the Pacific. The log is about 100 pages long and lists over 3300 medium wave stations in 56 countries, from as far west as Afghanistan and as far east as Alaska. It also includes Longwave stations, plus a few weather stations and beacons operating on the edge of the band. The log contains a wealth of information, including frequencies, callsigns, station slogans/names, networks, locations, power, schedules, languages, formats, SW/MW parallels, and future plans. It can be downloaded from the following URL: <http://www.qsl.net/n7eqj> There is no cost for the log. The file is about 1 MB in .pdf format. There are two versions, one sorted by frequency and the other by location. I plan to update the Log on a regular basis, and welcome any additions, changes, and comments. It's by no means 100% complete, but it's certainly very comprehensive. [Bruce Portzer, bportzer@home.com]

EUROPEAN MW GUIDE AVAILABLE

Yep, it's that time again... here's the official announcement of the new edition of the EMWG: edition 1 September 2001. There are innumerable changes, both contentwise and layoutwise, and instead of summing them all up, I will let you discover them for yourself. Just a few hints: there are now 82 pages, PDF users, please have a look at the bookmarks (surprise, surprise), new chapter (now what could that be about), new cover (thanks to Guido Schotmans). Some technical information on the file: Please use Acrobat Reader 4.0 or higher for opening the file, and the url to go to for the download remains <http://go.to/emwg>. I would like to express my thanks to all those of you who have sent me information over the past few months. It has made the EMWG into what it is today and the result definitely makes up for all the hard work. Your comments and suggestions are of course always welcome. [Herman Boel <hb@village.uunet.be>]

STUMPER ANSWER

They are triplets, I just didn't mention the third sibling. That the parents are DX'ers is irrelevant, at least as far as the stumper is concerned. By the way, do we have any DX'ers who are twins or triplets?

Confirmed DX'er Greg Myers tmyers01@tampabay.rr.com, gmyers@floridigital.net
P. O. Box 20112
St. Petersburg, FL 33742-0112

Your successes in obtaining QSL's and other station items

600	WVOG	New Orleans LA, p/d e-mail in 2 days after an e-mail follow-up. V/s Eric Wetsenberger, VP/PD RadioWVOG@aol.com. (Myers—FL)
750	CJVR	Melfort SK, f/d letter in 5 months. V/s Bayne Opseth, CE (VE5BKO). Addr.: Box 750, Melfort, SK S0E 1A0. (Wolfish—ON)
970	KFTA	Rupert ID, prepared card in 26 days. V/s Benjamin Reed. Addr.: 120 South 300 West Rd., Rupert, ID 83350. (Martin—OR)
1050	WROS	Jacksonville FL, confirmation on report, business card in 11 days after a follow-up. V/s Elwyn Hall, Owner. (Myers—FL)
1060	KGFX	Pierre SD, letter in 12 days for a taped report. V/s Paul Rollie, PD. Addr.: 214 W. Pleasant Dr., Pierre, SD 57501. (Martin—OR)
1130	HIRL	Santo Domingo Dom. Rep., n/d e-mail in Spanish in 8 days after a written follow-up. The v/s sent the e-mail the day they got the report and stated that they would return my ppc that would be nice! V/s Edgar Cadena Brenny Abreu, Production Dept. Produccion@cdn.com.do. (Myers—FL)
1200	WINK	Pine Island FL, f/d letter, program schedule, coverage map, and station profile in 10 days. V/s Keith Stuhlmann, DoE. Mr. Stuhlmann is a very DX'er friendly engineer. He has veried reports for WNOG-1270 and WTLQ-1240 for me as well. He also would answer reports for WINK-96.9, WYPT-97.7, WARO-94.5, WTLT-93.5, WRCQ-92.5 and WINK-TV CH 11. (Myers—FL)
1230	WZNO	Pensacola FL, confirmation on report, business card and bumper sticker in 7 days. V/s Michael Glinster, President. (Myers—FL)
1490	WMBM	Miami Beach FL, n/d e-mail in 1 day after an e-mail follow-up. V/s Lucretia Harrison. LUCRETIA@wmbm.com. (Myers—FL)
1590	KMIC	Houston TX, f/d prepared QSL sheet in 9 days after 2 nd follow-up. V/s Unreadable. (Myers—FL)
1600	KLEB	Golden Meadow LA, n/d e-mail in 1 day after an e-mail follow-up. V/s Andrea Galijour. Agalijour@ragincajunradio.com. (Myers—FL)

Contributors: Patrick Martin, Seaside, OR; Greg Myers, Clearwater, FL; Neil Wolfish, Toronto, ON

How to place mail orders:

Write to NRC Publications - P. O. Box 164 - Mannsville, NY 13661-0164. Enclose check or money order, NY residents, please add state and local taxes. Please allow 3-6 weeks for shipping.

Sunrise-Sunset Maps

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

**DX'er's Notebook**

Shared tips, topics, and Internet info

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Camden Wyoming DE 19934-2132

We're going to spend some time discussing one of the most praised portable receivers around these days – the Sony ICF 2010. The following comments have been culled from various discussions on the listserv over the last few months. This will include some comparisons with the CC Radio. If you're in the market for a new receiver, maybe it will help you make up your mind. If you have experience with one of these machines, and have something to add after reading this, send it to the listserv if you're subscribed, or directly to me. Coming soon we will also be looking at various tabletop receivers.

Tony S. <WLMCBuzzed@aol.com>: Maybe I'm opening up one of those "strong parties on both sides" debates, but I've been thinking about buying myself a Sony ICF 2010....I've noticed a lot of people on this list with one...I'm not too sure on technical details, so I shall resort to this list for help. Sorry if this email is a bit unsophisticated, I'm just 'getting started' compared to most on this list. As of right now, for DXing (which for me doesn't involve much more than a radio and a Terk loop), I use any one of the following:

- *GE SR3
- *CCRadio
- *Grundig Satellit 500
- *Grundig Satellit 700

Would there be anything gained in my DXing adventures by buying a 2010, or am I pretty much covered with, say, the Satellit 700? Also, I understand the "phones out" and "line out" of the 2010 are both Mono, is this true? Aside from DX'ing, I usually use the 700 (with its Stereo tape out) for airchecking FM while on the road...Also, the Satellit 700 is limited to a mere 4khz bandwidth when in "WIDE" mode...Does the 2010 have a wider "Wide" mode?

Russ Edmunds <wb2bjh@nrcdexas.org>: Tony, from what I've both heard and read, the 2010 won't offer you much that the 700 doesn't, and that in some ways the 700 is superior. Not that there's anything bad about the 2010...

Rick Kenneally <woodlandview@yahoo.com>: Tony, Outside of my grandmother's old console set, I've never used a Grundig anything, so I can't offer any sort of comparison. I do, however, own 2 Sony 2010s and love them. Audio is not their strong point, and it is not what I use them for. I believe you are right, that the audio outputs are mono. Again, I don't use them for stereo listening.

What I do use them for is DX, and the synchronous detection/selectable sideband feature is fantastic. It is tremendously effective at improving reception in the midst of a crowded AM band. The wide filter is indeed wide - too wide to be at all useful to a DXer, and wide enough that a SWL will hear 5khz tones. But for listening to AM locals, it's fine.

I installed the Kiwa wide filter modification, and it provided slightly better selectivity than the stock narrow filter, with MUCH better audio. I also installed the narrow filter, but screwed it up so can't as yet comment on it.

There is some significant circuit noise in my older set, but the newer one is quieter. Neither is as quiet or as selective as my old Hammarlund HQ-180 when it was in top form, but the Sonys are maintenance-free while the HQ-180 took constant care and feeding.

For sheer ability to copy stations under challenging circumstances, I don't think you can beat the 2010 anywhere near its price range and portability. Stop by your local Barnes & Noble and read the reviews in either the World Radio and TV Handbook or, better yet, in Passport to World Band Radio. Those are probably your best source of independent review and comparison. Also, there is an ICF2010 user group on Yahoo. Hope this helps.

David Hochfelder <hochfeld@rci.rutgers.edu>: Hi Tony, I faced a similar decision in the fall about whether to buy the 2010. I did so at the urging of several people on this list. Of course, I didn't already have a Grundig Satellit. I think it works great, and the synchronous detection and selectivity are both wonderful. I'm able to pull in stuff adjacent to the New York City powerhouses 30 miles up the road. I've also been very happy with the Kiwa Pocket Loop antenna, although from what I've heard and read, Quantum makes a great AM DXing antenna too. The downsides to the 2010: longwave doesn't do much, although maybe that's more of an antenna and power line noise issue. I also find that the knob tuning is not great; because it's digital it doesn't have a continuous feel.

CKFH
RIGHT SIDE OF YOUR DIAL
10,000 WATTS
1430

Bruce Conti <BACONTI@aol.com>: Get the Sony ICF-2010; even better, get it with the Kiwa filter upgrade. The 2010 with Kiwa upgrade was my primary DX receiver for many years. I cut my teeth on transatlantic DXing with the 2010. It was even used at a Newfoundland DXpedition.

The rest of this information was seen on the listserv a little while after the above.

Powell E. Way III <powell@conterra.com>: I now have a Sony ICF 2010. Also at the same time got a NEW GE SR III. Got them from Grove. I drove up there to pick them up. Drat, on Friday night the BIIIG thunderstorm was making ALL 10 LED's light.

Kent Plourde <kplourde@home.com>: The Sony ICF 2010 has been a great radio for me. I have been using mine since 1989! It puzzles me why they included the aviation band. I never use it. It is amazing that this model is still in production after all these years. The sync detector is probably its best feature.

Tony S: I can't really say anything nice about my Sony ICF-2010.....As I said a few months ago, I bought one on eBay, and right out of the box I couldn't pick up the simplest and strongest of signals, like 50kw WAQI/710 here in Miami....Just yesterday, I took it to the repair shop, we'll see if they can do something about it. For now, my top DX'ing radio is my Grundig Satellit 700. And, this is a dumb question, but I honestly do not know what the sync detector is supposed to do...Can anyone explain for me?

Frederick R. Vobbe <fredv@nrcdxas.org>: From your description it sounds like the FET on the front end was damaged due to static/voltage on the AM Antenna input. That can be fixed, and then I think you will enjoy that radio.

Solution to the disappearing FET is to put a jumper on the antenna input that has (2) 1N914 diodes in opposite polarity of each other and put this across the center conductor and ground of an RG58 cable. If you are real good with small wiring, they can be installed on the mini plug, then have a 1 foot piece of cable, and whatever you want at the end to connect to for your antenna.

I blew three on my 2010s until I learned that just a small breeze across a long wire > 200 produced a differential of 300 volts at a few joules of current, but that is enough to kill the FET.

Rick Kenneally: Tony, Here is the deal with the sync feature (and those who understand this stuff better than I, have mercy :-)

An amplitude modulated radio signal, as found on the AM broadcast band, consists of a center "carrier" signal and two symmetrical, mirror image "sidebands" on either side of the carrier. I did some web searching, and couldn't locate a good picture to illustrate this. Basically the carrier defines the center frequency of the signal - say 1250 kHz. When audio is added to the signal using standard amplitude modulation, the audio is carried along side the carrier in two "sideband" signals, one above the carrier in frequency and one below. The sidebands are mirror images of each other, and each carries a complete copy of the audio.

So, you've got essentially two copies of the audio you want to hear - one above the center frequency and one below. Now, let's say I want to hear WKBR-1250, but I'm getting slop from WSHU-1260. Most of that slop is hitting the upper sideband of WKBR-1250, the lower sideband is much more readable. On a normal radio, I pretty much get both sidebands. But on the Sony, I tune my 2010 to 1250 and press sync. This locks the receiver circuitry onto the 1250 carrier and "enhances" it. I then tune down slightly from 1250, to 1249.8, and the 2010 gives me ONLY audio from the lower sideband, avoiding most of that slop from 1260.

If you want more versions of this, search the web for "exalted carrier selectable sideband", which is a feature normally found on very expensive communications receivers, and is a fancy name for what the Sony 2010 calls "sync".

There is a tiny picture of how this works in my Sony 2010 manual on page 12. If you've got a copy, it might help.

Well, that's the best I can do without drawing :-)

Rick Dau <rdau3@yahoo.com>: How timely this discussion should be. My 2010 (which I bought from Marc Marino of Chicago in June 1997) has just given up the ghost after a few solid years of reliable operation. Darn thing keeps turning itself off (even with the DC cord plugged into it) when I turn it one way or the other on my desk, and when it comes back on, the clock is automatically reset to 0:00 and the frequency reads 150 kHz. This is a problem that only used to occur when the batteries were getting low. Now it's become a regular happening, and it's driven me to the point where I am now in the market for a new receiver. And my next DX rig won't be a replacement 2010, as I saw in a receiver catalog, just this very afternoon, that a new one costs...\$359.95!!! One can buy several decent radios and even a loop for that amount, but I already have my eye on the CCRadio (made by the CCRane



folks) that I've heard advertised all over hither and yonder for about the past 12 months. Several DXers in the NRC who use the CCRadio say its performance rivals even that of the much-ballyhooed GE Superadio III, which was all the rage amongst DX circles just a few years back. Is the CCRadio the best one on the market as its radio ads say, or is it just a lot of hype? For now, I'm inclined to lean towards the former, but I want to hear what others have to say about it.

Frederick R. Vobbe: Check the battery compartment for a broken piece on AA battery post(s). That will cause that problem, especially if it has been dropped or jarred a bit. BTW, always transport a 2010 with D cells out, as vibration and a good jolt can cause the battery compartment to break.

Thomas Giella, KN4LF <kn4lf@tampabay.rr.com>: In my humble opinion, the CC Radio is the best of all "portables" for the AM broadcast band. It has good sensitivity, selectivity and dynamic range for a portable AND it sounds good too!

Pete Taylor <taytac@worldnet.att.net>: Simply from a mechanical point of view, I have had lots of problems on various Sony products relating to battery connections. The 2010 is no exception. As those of you who have one know, you can't run it on batteries if the back lid is off because the two prongs on the back have to make contact with a glob of solder on two boards. These connections were so unstable that I finally just hard wired them. Even when I'm running it on AC, which I do at home, if I grasp the bottom right hand side of the unit while I twirl the dial with my thumb, it will often cut out or then pop back on - erasing the time setting and the button memories in the process. Operationally, I am in a high intensity signal area and the unit does overload when I use the loop, but I don't have anything to compare it with. The major changes here in last five years are the arrival of KJR's new 50kw XR to jam up mid-band pretty well and the installation of a new breed of audio processors on many of the stations which has made reception of first adjacents to Seattle stations far more difficult. I do find that it picks up much more garbage (many more intermixing products) when I disconnect the loop. Tony's unit's inability to pickup even WAQI-710 is not typical. This unit has a serious defect.

Kevin Redding <amfmtdx@qwest.net>: Rick, This is something I can weigh in on. I have the CCRadio, my friend Alan Lagerfelder has the 2010. The 2010 is an exceptional radio. It is the 2nd best portable I have used. I have not used a Grundig Satelit 800 so I can't comment. The best hands down is the Drake SW-8 my friend Skip Dabelstein owns. There is no portable I have seen ever better than that but that is in a different league than any other portable.

I wrote a review for IRCA on the CCRadio. I own one. Its a great, maybe even superior radio, *IF* you do not live near transmitters or high RF areas. If you are interested, I will send you a copy of my review. All the other bands other than AM, well in my estimation, to put it bluntly, they suck. Sangean has never made a radio that could receive FM on any frequency without bazillions of images all over the place and that goes for the TV, FM and WX bands on the radio. However, it says that its a good, well at one time they said they were the best, and it is not the best, but if you live away from transmitters, it's EXCELLENT.

When its not near high RF fields. IT ALMOST IS AS GOOD AS THE 2010. The 2010 is superior because of sync detection. Without that, it may be a tad better on AM but as soon as the sync detection is on, forget it, its not even a match.

I have used both. The CCRadio is great out of town. In town the thing is so sensitive it overloads easily if you live closer than 5 miles from an antenna. If you live further away, I would buy one. However, be aware that there are "orphaned" units at CCRane and you can get a radio for about \$130, or \$20 less than full price and the radios are refurbished. There are quirky things with it but overall. If you are only going to DX MW with it, its a buy at the orphan price. Its how I bought mine. If you can't do the \$400, then the CCRadio is ok. If you have the \$400, then get another 2010.

If you want the review, I will look for it and send it to you Rick. Its real accurate and shows the good and bad. It has warts but its good. I don't think that you are going to be getting megatons of TA or TP DX with it, but I believe that if you aren't a serious, and I mean REAL serious DXer like Bruce Conti, Pat Martin, or Mark Connally, the CCRadio is doable. If you are into the ultra rare, get something else for more money.

Mike Brooker <aum108@idirect.com>: I have a similar problem with my Panasonic RFB-45, when it's running on AC. When I pick it up or turn it, it will almost always turn itself off and the "E" indicator (for low battery) will flash on the frequency/time display.

As long as the receiver sits on the table and is not touched or moved, it won't shut off and flash "E". This never happens when running on batteries, only when using the AC adapter :-).

Rick Kenneally: Rick, If you want a "DX rig", then there is no comparison. The 2010 will make more signals readable than either the CCRadio or the GE SR III. I bought the GE, tried it against the



2010 for a night, and returned the GE. The lack of digital display, inferior selectivity, and (most important) the lack of synch feature remove it from competition. I don't have experience with the CCRadio, but digital display makes a huge difference in your ability to navigate the band quickly, so that alone puts it above the GE for DXing.

I've now bagged several European splits on my 2010s - both with and without the Kiwa mods. I've received all sorts of tough, weak stations right up against my locals. Recently, as reported on this list, I had crystal clear reception of WKBR-1250-NH because they were slightly low in frequency. When the 2010 synch locked onto WKBR's lower sideband, the rest of the stations on 1250 essentially vanished. The same thing happened when WCCC-1290 drifted low in frequency. Without synch, 1290 was a hash. With synch, poof, as if by magic, classical music appeared.

Now, if you want nice audio for general listening, go for a CCR or a GE.

As for your 2010, it sounds like a problem with the AA processor battery connection. As reported on this list and on the Sony 2010 FAQ, this is a fairly common and fixable problem. Search for "icf2010 faq" and see if you find anything that helps. It sounds like your cheapest route to the best DX rig (of those you listed) is to fix the 2010.

David Hochfelder: I love the Sony ICF2010. It's going to be my main (read "only") DX rig till I win the lottery and buy a megabuck radio. I'm planning on getting the Kiwa mods as a birthday present to myself in a couple months and installing them. My only complaint/wish is that I can't get TA's at all.

Randy Stewart <jrs555t@smus.edu>: The thread about Sony 2010s vs. other rigs, 2010 problems etc. has been interesting. My main DX radio is still the Yaesu FRG-100/Sanserino 15" box loop combo, but I probably spend more time these days just dialing around on the little Sony 7600G in bed late at night before falling asleep. Seems like someone in the course of this thread mentioned the 7600G's synchronous detector and that it's INFERIOR to that on the 2010. Is it, indeed, a different, inferior, design compared to the synch circuit in the 2010? I thought they were both based on the same chip, and that... well, the Sony synch is the Sony synch, no matter which model radio it's on. Is there a difference? I've only played with a 2010 briefly in a store, so I have no real knowledge of its performance. But the synch detector on the 7600G does seem to produce blasty, distorted audio on strong but fade-y shortwave signals, and it loses synch rather too easily for my taste. Often I find myself resorting to "old-fashioned" ECSS (i.e. just switching to single-sideband/BFO mode and zero-beating the signal with the SSB fine-tuning control)... it's not as stable, perhaps, but the audio recovery is cleaner, less distorted, than in synch mode.

Bruce Conti: The Sony ICF-2010 was my main DX rig for many years. It was my first real TA-getter too, thanks to Sony's outstanding sync detect circuit and the Kiwa filter upgrade. Kiwa now has a filter upgrade for the CCRadio that should improve its DX performance. I use my CCRadio as a bedside DX receiver. If I wake up in the middle of the night, I'll tune around on the CCRadio to check conditions. The AM is selective enough to receive St. Kitts on 555 kHz on a regular basis. The five memory buttons (like the presets on a car radio) make it easy to jump across the band without having to turn on a light to see what I'm doing. Push button tuning in 10 kHz steps also makes it easy to scan, and a tuning knob allows for fine tuning in 1 kHz increments. The extremely high gain of the CCRadio can make it a powerful AM receiver as it doesn't need an external antenna, but it is apparently a curse for those close to transmitter sites. The Kiwa upgrade might help in that regard. Visit www.kiwa.com for info on the Sony ICF-2010 and CCRadio filter upgrade kits.

Rick Kenneally: Randy, The sync circuit on the 7600G is definitely different and inferior to the 2010. The 7600G requires a much stronger signal to lock, and it loses lock easily. I'm not sure, but it seems to me that the 7600G is more apt to go into "search" mode, while the 2010 seems to maintain the same frequency and phase for a while even when the signal briefly drops to undetectable levels. Thus the 2010 is still locked when the signal comes back up. I'm not sure that's how it works, but it feels like it. I do wish that Sony had used the 2010's circuitry in the 7600G (go with what works! :-)

I've got 2 2010s and a 7600G, and all 3 have their place. The 7600G with the compact Q-Stick ferrite loop from Gerry Thomas's RadioPlus+ makes a good DXing combo for air travel. I also like the audio on the 7600G - the speaker sounds pretty good for its size. I'd have to agree with the "Passport to World Band Radio" assessment that the 7600G is a lot of radio for the size/price. But it is not the DXing powerhouse that the 2010 is.

Kent Plourde: I own both the CC Radio and the Sony 2010. I like both radios, but I prefer the Sony for serious DXing. Pros of the CC Radio:



CKWA Radio
Box 2470
Slave Lake, Alberta
T0G 2A0

I like the style of the radio. It is pleasing to the eye with rounded corners, large speaker grill and large LCD readout. It is a good bedside clock radio because the LCD is continuously lit up. I also like the Weather Band with alarm feature, which can be a flashing light or audio siren. Contrary to other posts, I find the FM selectivity excellent. During FM skip con-

ditions, I have no problem hearing stations that are adjacent to my locals. On the TV Band, channels 2-6 come in better than channels 7-13. I pick up New York channels 2 and 4 regularly even though I am about 10 miles from Hartford channel 3's tower in Avon. What about the AM? Well it is very good, especially during the day hours. Which brings me to...Cons of the CC Radio:

There are problems with the AM. As mentioned in previous posts, it does overload on stations very close by. My local, WPRX 1120 (1000 watts day and 500 watts), does splash from 1090 to 1150. However, my major problem with the AM is the intrusion of the 49 meter shortwave band starting in the late afternoon through the evening. These shortwave signals are funny because they pop up in 1kHz increments. I can get Radio Espana on 675khz but nothing on 674 or 676. There is a shortwave station that regularly pops up on 870 and I can hear an utility station behind WBZ 1030. They are all over the place. I also have heard Radio Habana on 1710 as others have, but I'm sure it was their shortwave popping up on the CC Radio. Another major problem is the LCD readout. Last year I had to send the radio back to California because the LCD readout became unreadable. The diodes were all jumbled to the point that I could not make out what frequency I was on. The technician on the phone said that it was probably a loose cable connecting the LCD display. I had it repaired at no charge and it worked great until last week when the same problem appeared. I'll call CC Radio tomorrow and see what they say this time.

Bottom line with the Sony 2010: I'll stick to the Sony for serious DXing. The synch feature is great not only for reducing adjacent channel interference but also for reducing fading. The New York 50000 watt powerhouses like WFAN and WCBS are subject distortion at night due to the groundwave and skywave canceling each other out (I think I got that right, I am very low tech) from my location about 80 miles away. It is the radio I use when listening to the lowly Mets.

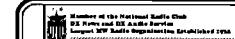
With the Select-a-tenna, the Sony is the best for me. The 10 position red LED tuning meter makes using the Select-a-tenna a snap.

We'll have more on the CC Radio, and also some details on the Kiwa filter upgrade for the 2010, next time.

It may not be perfect ...

but the **NRC AM Log** is, simply, the best there is because of your contributions. Why not make the next edition even better? Send all corrections and changes to

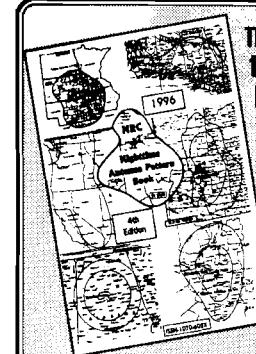
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**Professional
Sports
Networks**

Barry S. Finkel bsfinkel@ANL.gov

10314 S. Oakley
Chicago, IL 60643-2409

Network listings for team sports stations

Here is National Football League flagship information from "Sporting News Pro Football Guide" and the Internet via Ken Onyschuk. The number of network affiliates, if Ken listed it, is listed in parentheses after the announcers' names. I have little information concerning foreign language broadcasts.

I have a few network lists, which I will include in my next column. Please send me any network lists that you have. And I will always accept corrections to the information in these columns. Thanks.

Arizona Cardinals	1060	KDUS-AZ (EE)	Tom Dillon, John Mistler
	100.7	KSLX-AZ (EE)	
	1480	KPHX-AZ (SS)	Gabriel Trujillo
Atlanta Falcons	640	WGST-GA	Jeff Hullinger, Jeff Van Note (39)
Baltimore Ravens	1300	WJFK-MD	-Tom Matte, Scott Garceau
	105.7	WQSR-MD	
Buffalo Bills	96.9	WGRF-NY	-Van Miller, John Murphy
Carolina Panthers	99.7	WRFX-NC	Roman Gabriel, Bill Rosinski, Jim Szoke (39)
Chicago Bears	780	WBBM-IL	Jeff Joniak, Hub Arkush, Tom Thayer (21)
Cincinnati Bengals	1360	WCKY-KY	-Pete Arbogast, Dave Lapham
	92.5	WOFX-OH	
Cleveland Browns	105.7	WMJI-OH	-Jim Donovan, Doug Dieken, Mike Snyder, Casey Coleman
Dallas Cowboys	103.7	KVIL-TX	Brad Sham, Bob Laufenberg
Denver Broncos	850	KOA-CO	-Dave Logan, Scott Hastings
Detroit Lions	1270	WXYT-MI	Mark Champion, Jim Brandstatter, Walter Dell (40)
	950	WWJ-MI	
Green Bay Packers	620	WTMJ-WI	Wayne Larrivee, Larry McCarren (77)
Houston Texans	610	KILT-TX	
	100.3	KILT-TX	
Indianapolis Colts	1260	WNDE-IN	-Bob Lamey (16)
	94.7	WFHQ-IN	
Jacksonville Jaguars	690	WOKV-FL	-Brian Sexton, Matt Robinson
Kansas City Chiefs	99.7	KYYS-MO	-Mitch Holthus, Len Dawson, Bill Grigsby, Bob Gretz
Miami Dolphins	560	WQAM-FL (EE)	-Bill Zimpfer, Jim Mandich
Minnesota Vikings	1130	KFAN-MN	Lee Hamilton, Joe Sensor
New England Patriots	104.1	WBCN-MA	Gil Santos, Gino Cappelletti (36)
New Orleans Saints	870	WWL-LA	-Jim Henderson, Stan Brook
New York Giants	660	WFAN-NY	-Bob Papa, Dick Lynch
New York Jets	102.7	WNEW-NY	-Howard David, Dave Jennings
Oakland Raiders	1050	KTCT-CA	Sam Mateo
Philadelphia Eagles	94.1	WYSP-PA	Merrill Reese, Mike Quick (14)
Pittsburgh Steelers	102.5	WDVE-PA	Bill Hilgrove, Myron Cope, Tunch Ilkin (41)
Saint Louis Rams	1600	KATZ-MO	-Steve Savard, Jack Snow, Malcom Briggs
	103.3	KLOU-MO	
San Diego Chargers	760	KFMB-CA	-Jim Laslavic, Bill Werndl
	100.7	KFMB-CA	
San Francisco 49ers	810	KGO-CA	-Joe Starkey, Gary Plummer (39)
Seattle Seahawks	710	KIRO-WA	Steve Raible, Brian Davis, Ron Callami (34)
	770	KNWX-WA	
Tampa Bay Buccaneers	99.5	WQYK-FL	-Gene Deckerhoff, Scott Brantley, Tom Korun
Tennessee Titans	104.5	WGFX-TN	-Larry Stone, Mike Keith, Pat Ryan
Washington Redskins	106.7	WJFK-VA	-Sam Huff, Frank Herzog (45)

= = announcers from a previous season
c = Conflict station

KFDI Wichita's Radio Ranch

**College Sports
Networks**

Network listings for college team sports stations

Here are the first installments of the College Sports Networks for this year - specializing in college football right now. Thanks to Rick Dau for his information which is included here also.

ATLANTIC COAST CONFERENCE - DUKE BLUE DEVILS

(<http://goduke.fansonly.com/extras/local/dota.html>)

Bob Harris, Wes Chesson, Anthony Dilweg

590	WCAB-NC	1050	WLON-NC	1240	WJNC-NC	1590	WCSL-NC
620	WDNC-NC		WWGP-NC	1280	WSAT-NC		
630	WIRC-NC	1070	WNCT-NC	1400	WHHC-NC	96.7	WKRX-NC
730	WOHS-NC	1150	WBAG-NC	1420	WALQ-NC	100.7	WZJS-NC
740	WMBL-NC			1430	WRXO-NC	104.5	WCCG-NC
850	WRBZ-NC	1230	WMFR-NC	1440	WLXN-NC	106.1	WNMX-NC
900	WAYN-NC		WCBT-NC	1450	WGNC-NC	106.7	WLGX-NC
990	WEEB-NC	1240	WCNC-NC	1470	WWBG-NC	107.9	WNCT-NC

FLORIDA STATE SEMINOLES

(<http://seminoles.fansonly.com/ot/tv-radio/radiotv.html>)

640	WLVI-FL	1280	WIPC-FL	1420	WAOC-FL	92.1	WMMK-FL
730	WWTK-FL	1320	WAMR-FL	1430	WTMN-FL	93.5	WBGF-FL
800	WPLK-FL	1330	WEBY-FL		WLKF-FL	94.9	WTNT-FL
850	WDJA-FL	1340	KRLV-NV	1450	WSTU-FL	96.3	WXOF-FL
960	WGRO-FL	1350	WMMV-FL	1460	WZEP-FL	98.1	WQHL-FL
1040	WWBA-FL	1370	WOCA-FL	1480	WZTK-FL	100.5	WXUS-AL
1230	WMAF-FL		WCOA-FL	1530	WENG-FL		WOYS-FL
1240	WKIQ-FL	1380	WELE-FL	1570	WOKC-FL	100.9	WJAQ-FL
	WMMB-FL	1400	WFAV-FL	1580	WTCL-FL	105.1	WAKT-FL
1250	WQHL-FL		WLNU-FL	1590	WPSL-FL	107.3	WROO-FL
1270	WNLS-FL		WZHR-FL	1660	WMIB-FL		

GEORGIA TECH RAMBLIN' WRECK

(<http://ramblinwreck.fansonly.com/ot/tv-radio/radiotv.html>)

630	WNEG-GA	1230	WBLJ-GA	1370	WLOP-GA	1590	WTGA-GA
720	WGSE-GA		WXLI-GA	1420	WPEH-GA		WCSL-NC
730	WOHS-NC	1240	WGGA-GA	1440	WLXN-NC	1630	WRDW-GA
790	WQXI-GA		WWNS-GA	1450	WKEU-GA		
	WSFN-GA		WTWA-GA		WMVG-NC	92.3	WSKX-GA
850	WCUG-GA	1270	WYXC-GA	1470	WGNC-NC		WMKS-GA
860	WDMG-GA		WJJC-GA	1470	WCLA-GA	97.7	WTCQ-GA
940	WMAC-GA	1300	WMTM-GA	1480	WRDW-GA	98.1	WMAX-GA
1050	WI.ON-NC		WIMO-GA	1500	WDEN-GA	101.9	WJFL-GA
1110	WEBS-GA	1340	WGAA-GA	1550	WKTG-GA	102.3	WLKQ-GA
1130	WACQ-AL	1350	WXRB-GA	1590	WALG-GA	103.9	WDDK-GA

VIRGINIA CAVALIERS

(<http://virginiasports.fansonly.com/audio/va-vsn-affiliates.html>)

570	WTNT-MD	1070	WINA-VA	95.3	WHLF-VA	100.9	WIQO-VA
710	WFNR-VA	1140	WRVA-VA	95.5	WZXI-VA	105.5	WRAR-VA
850	WTAR-VA	1370	WHEE-VA	97.5	WWWV-VA	105.9	WLNI-VA
960	WFIR-VA			100.7	WFNR-VA		

BIG EAST

(all from http://www.bigeast.org/air-waves/radio.asp - flagships only):	BOSTON COLLEGE	RUTGERS	TEMPLE
	850 WEEI-MA	710 WOR-NY	1210 WPHT-PA
	MIAMI (FLORIDA)	1450 WCTC-NJ	VIRGINIA TECH
	560 WQAM-FL	SYRACUSE	105.3 WBRW-VA
	PITTSBURGH	1260 WNSS-NY	WEST VIRGINIA
	96.9 WRRK-PA	95.7 WAQX-NY	1440 WAJR-WV

WAKE FOREST DEACONS

(http://wakeforestsports.fansonly.com/genrel/090899aaa.html)

Stan Cotton, Ed Bradley

730	WOHS-NC	1280	WSAT-NC	1440	WLXN-NC	1590	WBHN-NC
830	WXII-NC	1300	WLNC-NC	1450	WGNC-NC		WCSL-NC
1050	WLON-NC	1410	WEKO-NC	1490	WRMT-NC		
1090	WKTE-NC	1420	WLAQ-NC		WSVM-NC	98.1	WBRF-VA

BIG 10**ILLINOIS FIGHTING ILLINI**

(http://fightingillini.fansonly.com/genrel/radio-network.html) via Rick Dau

Jim Turpin, Jim Grabowski

590	KFNS-MO	1350	WJBD-IL	1520	WHOW-IL	100.1	WJBD-IL
670	WSCR-IL	1360	WYER-IL	1550	WJIL-IL	100.5	WJVO-IL
930	WTAD-IL	1360	WGFA-IL	1570	WTAY-IL	100.7	KFNS-MO
1090	WCRA-IL	1390	WFIW-IL			101.7	WYTE-IL
1170	WLBH-IL	1400	WDWS-IL	92.9	WSEI-IL	102.1	WDNL-IL
1230	WHCO-IL	1400	WGIL-IL	94.1	WGFA-IL	102.3	WRMJ-IL
1240	WTAX-IL	1430	WCMY-IL	95.9	WHOW-IL	102.5	WHHK-IL
1270	WKBF-IL	1440	WPRS-IL	96.9	WLBB-IL	104.9	WPXN-IL
1290	WWFS-IL	1440	WROK-IL	97.5	WHMS-IL	106.1	WSMI-IL
1320	WKAN-IL	1490	WDAN-IL	97.5	WCRC-IL	106.7	WBRJ-IL
1340	WJBF-IL	1490	WZOE-IL	98.5	WACF-IL		
1340	WSOY-IL	1500	WGEN-IL				

IOWA HAWKEYES

(2001 "Voice Of The Hawkeyes" media guide) via Rick Dau

Gary Dolphin, Ed	1310	KOKX-IA	1570	KQWC-IA	95.7	KQWC-IA
Podolak, Mark Allen	1340	KROS-IA	1580	KCHA-IA	96.7	KLBA-IA
600 WMT -IA	1360	KSCJ-IA	1590	WAIK-IL	96.9	KIAQ-IA
740 KBOE-IA	1370	KDTH-IA			99.3	KWAY-IA
800 KXIC-IA	1420	WOC -IA	92.1	KCHE-IA	100.5	KDEC-IA
1040 WHO -IA	1440	KCHE-IA	94.7	KMCH-IA	103.9	KUOO-IA
1080 KOAK-IA	1470	KWAY-IA	95.1	KCZE-IA	104.9	KBOE-IA
1220 KJAN-IA	1490	KBUR-IA	95.3	KIFG-IA	105.3	KNOD-IA
1230 KFJB-IA	1490	KOSR-NE	95.3	KMAQ-IA	105.5	KILJ-IA
1240 KICD-IA	1510	KIFG-IA	95.3	KCSI-IA	106.9	KIHK-IA
1300 KGLO-IA	1530	KDSN-IA				

MICHIGAN WOLVERINES

(http://www.mgoblue.com/football/01-02/broadcasts.html) via Rick Dau

Frank Beckmann, Jim Brandstatter

580	WTCM-MI	970	WKHM-MI	1280	WFYC-MI	1400	WSAM-MI
590	WJMS-MI	1050	WTKA-MI	1300	WOOD-MI		
590	WKZO-MI	1230	WMSH-MI	1340	WMBN-MI	92.7	WQTX-MI
680	WDBC-MI	1240	WATT-MI	1380	WSCG-MI	94.9	WKZC-MI
760	WJR -MI	1240	WIAN-MI	1380	WPHM-MI	95.3	WBXX-MI
910	WFDF-MI	1270	WMKT-MI	1400	WSJM-MI	101.5	WMJZ-MI
940	WGMY-MI					104.9	WQBX-MI

BIG TWELVE**IOWA STATE CYCLONES**

(http://cyclones.fansonly.com/genrel/iast-radiostations.html)

Pete Taylor, Eric Heft	1380	KCIM-IA	92.1	KCHE-IA	102.7	KYTC-IA	
540	KWMT-IA	1390	KCLN-IA	95.7	KQWC-IA	103.5	KNEI-IA
950	KOEL-IA	1430	KASI-IA	95.9	KCHA-IA	103.7	KWMM-IA
1140	KNEI-IA	1490	WDBQ-IA	96.5	KSOM-IA	104.9	KLMJ-IA
1170	KJOC-IA		KRIB-IA	96.7	KLBA-IA	105.1	KCCQ-IA
1240	KBIZ-IA		KOSR-IA	97.9	KHBT-IA	105.5	KDLS-IA
1310	KDLS-IA	1590	KWBG-IA	KIIC-IA		106.7	KIKD-IA
1320	KMAQ-IA	1600	KLGA-IA	99.5	KKMA-IA	107.1	KDSN-IA
1350	KRNT-IA		KCRG-IA	101.1	KXIA-IA	107.3	KIOW-IA
1370	KLBA-IA			102.3	KCZQ-IA	107.7	KICD-IA

KANSAS JAYHAWKS

(http://www.kuathletics.com/audio_video/jrn.html)

730	KLOE-KS	1400	KVOE-KS	1600	KMDO-KS	99.3	KIKS-KS
790	KXXX-KS		KAYS-KS	1600	KDAK-ND	99.9	KSKZ-KS
910	KINA-KS	1440	KMAJ-KS			100.3	KDVV-KS
980	KMBZ-KS	1450	KWBW-KS	92.5	KQMA-KS	100.7	KHOK-KS
1130	KLEY-KS	1480	KQAM-	93.5	KLKC-KS	101.1	KFNF-KS
1220	KDDR-ND				KWME-KS	101.5	KKOY-KS
1270	KSCB-KS	1490	KKAN-KS	93.9	KZRD-KS	103.1	KNDY-KS
1320	KLWN-KS		KOVC-ND	96.3	KZDY-KS	104.1	KGGF-KS
1340	KSEK-KS	1540	KLKC-KS	98.5	KSAJ-KS	104.9	KRIG-OK
	KRLV-NV	1550	KKLE-KS			105.9	KLZR-KS

NEBRASKA CORNHUSKERS

(http://www.huskers.com/radio.htm) via Rick Dau

Warren Swain, Adrian	940	KVSH-NE	1340	KGFW-NE			
Fiala, Dave Weber, Gary	960	KNEB-NE	1340	KSID-NE	93.1	KKYA-SD	
Sharp	1060	KDUS-AZ	1340	KTOQ-SD	93.3	KRQC-NE	
560 KLZ -CO	1090	KYCW-WA	1350	KBRX-NE	94.1	KNEB-NE	
610 KCSR-NE	1110	KPAB-NE	1370	KAWL-NE	94.5	KLIQ-NE	
610 KNML-NM	1140	KSOO-SD	1380	KUVR-NE	94.7	KNEN-NE	
620 KMNS-IA	1230	KTNC-NE	1400	KBRB-NE	97.3	KLRB-NE	
630 WDGY-WI	1230	KLAV-NV	1400	KCOW-NE	97.7	KMTY-NE	
660 KSKY-TX	1240	KNSS-KS	1400	KLIN-NE	98.1	KFGE-NE	
790 KURM-AR	1240	KODY-NE	1430	KRGI-NE	98.3	KBBN-NE	
840 KTIC-NE	1260	KIMB-NE	1450	KWBE-NE	98.7	KSDJ-NE	
860 KTRB-CA	1260	KWYR-SD	1510	KCTE-MO	99.3	KKBZ-IA	
880 KRVN-NE	1280	KCNI-NE	1590	KTCH-NE	101.3	KLZA-NE	
940 KXTK-IA	1340	KHUB-NE	1630	KKWY-WY	102.9	KBRX-NE	
		105.5 KFMT-NE			103.5	KXNP-NE	
		105.9 KQKY-NE					

TEXAS LONGHORNS

(http://www.mackbrown-texasfootball.com/pages/broadcasts.html)

690	KHEY-TX	1260	KKSA-TX	1590	KGAS-TX		
(h t t p : / / www.mackbrown-texasfootball.com/pages/broadcasts.html)	760	KTKR-TX	1290	KWFS-TX	1600	KOGT-TX	
	790	KFYO-TX	1300	KVET-TX			
	860	KFST-TX	1370	KFRO-TX	92.3	KCUL-TX	
	930	KDET-TX	1410	KBAL-TX			
	1150	WTAW-TX	1440	KPUR-TX	92.5	KBLK-TX	
	1200	WOAI-TX	1450	KMBL-TX	92.7	KIVY-TX	
	1230	KSIX-TX	1490	KBST-TX	93.1	KSTV-TX	
	600	KTBB-TX	1240	KVLF-TX	96.9	KXYL-TX	
	610	KIIT-TX	1240	KSOX-TX	98.1	KVET-TX	
	99.3	KUEZ-TX					
	99.9	KSHN-TX					
	102.3	KDET-TX	710	KURV-TX	1450	KCTI-TX	
	103.3	KWOW-TX	740	KCMC-TX	1490	KVWC-TX	
	105.3	KYNG-TX	760	KTKR-TX	1510	KVCI-TX	
	106.3	KOES-TX	790	KFYO-TX	1330	KSWA-TX	
	107.1	KSTA-TX	950	KPRC-TX	1340	KRBA-TX	
	960	KGKL-TX	1360	KDJW-TX			
	970	KIXL-TX	1390	KULP-TX	92.1	KHOS-TX	
	1120	KJSA-TX	1400	KEBE-TX	93.5	KBHT-TX	
	1190	KTRA-TX	1410	KBAL-TX	93.9	KSEY-TX	
	1220	KMVL-TX	1430	KEES-TX	94.3	KBTS-TX	
	690	KHEY-TX	1230	KSST-TX	1440	KEYS-TX	
					94.3	KFST-TX	
						KYXX-TX	
					96.1	KAGG-TX	
						KCTX-TX	
					97.1	KBAI-TX	
					98.5	KRXT-TX	



Electrically-Short Dipole Antennas

Mark Connely, WA1ION

A dipole antenna normally is cut for approximately one half of a wavelength. The customary formula is $(468 / F)$ feet or $(142.65 / F)$ meters where F is the frequency in MHz. This works out to about 0.48 wavelength. The dipole antenna has seen little use at medium wave because of its impractically large dimensions: about 883 feet / 269 m at the low end of the broadcast band (530 kHz). Furthermore, for the antenna to perform well, it has to be a minimum of a quarter-wave above the ground if mounted horizontally. If set up vertically, its top end is a half wave (or greater) above ground and if sloped at 45 degrees, the top end is at least 0.35 wavelength high.

In a quest for a compact omnidirectional passive antenna of reasonable dimensions, I did some measurements on vertical and sloping dipoles measuring only 33 ft. / 10 m total length (16.5 ft. / 5 m each side of the center feed point). This antenna is less than 0.02 wavelength at 530 kHz and 0.06 wavelength at 1700 kHz. Obviously, in this frequency range, such an antenna is a very poor match to direct 50 ohm feed.

The way to get a reasonable amount of signal capture out of such a compact antenna, without resorting to distortion and noise producing amplification, is through the use of passive devices to improve the match. A narrowband technique (a remotely adjustable inductive - capacitive (L-C) tank at the feed point) is ultimately the best approach in terms of efficiency, but it is difficult to implement and does not lend itself to frequency-agile DXing.

Matching with a broadband balun transformer is the other approach that can be used. The ratio to be used is fairly high because an electrically-short dipole presents a much higher impedance than 50 ohms. I did tests with two transformers: one had a 36:1 impedance ratio, the other a 16:1 ratio. The high impedance winding leads went to the antenna elements and the low impedance winding to the coaxial cable. I also had 9:1, 4:1, and 1:1 transformers available for testing if results indicated the 16:1 better than the 36:1 unit. This, however, was not necessary as the 36:1 transformer gave the better results across the medium wave dial. I set up a 10 m (total length) center-fed dipole in a nearly-vertical configuration suspended by a nylon rope over a high branch on a black locust tree in the backyard at my home location in Billerica, MA (GC = 71.221 W / 42.533 N). The bottom of the antenna was about 1.5 m off the ground and the coaxial feed ran about 20 m from the balun box (at the middle of the antenna) into the house: I tried to keep the feedline close to a right angle to the dipole as much as possible. Daytime signal measurements on some groundwave locals were made using the Drake R8A in PREAMP ON mode. Across the band, the 36:1 transformer showed a 4 to 8 dB advantage over the 16:1.

Measurements with the 16:1 transformer (Mini-Circuits T16-6T-X65)

WEZE-590: S9+16 WRKO-680: S9+51 WEEI-850: S9+28 WBZ-1030: S9+27 WKOX-1200: S9+12 WWZN-1510: S9+35

Measurements with the 36:1 transformer (Mini-Circuits T36-1-X65)

WEZE-590: S9+20 WRKO-680: S9+55 WEEI-850: S9+36 WBZ-1030: S9+35 WKOX-1200: S9+20 WWZN-1510: S9+39

Homebrew transformers of various ratios may be tried in future experiments. One possible design is a 25:1 transformer consisting of a 40 turn high impedance winding on the opposite side of an FT-140-43 toroid from an 8 turn low impedance winding. The larger core than what's used in the Mini-Circuits models would tend to reduce the likelihood of harmonic and intermodulation distortion in strong-signal areas. With the Mini-Circuits transformers I used, I did notice a slight amount of WRKO-680 audio under WLYN-1360 (680 * 2). WRKO's 50 kW transmitter is about 5 km from my home location.

The short dipole picked up less local electrical noise (relative to desired signals) than an active whip. If a 1:1 isolation transformer is used at the "shack" end of the coaxial cable, noise can be reduced a bit more in some circumstances. A broadband loop (square loop at 3 m per side, coupled through 1:1 transformers on each end of the coaxial feedline) was still quieter than the dipole in terms of locally-produced TV / other electrical noise pick-up.

Signal levels produced by an efficiently-coupled short dipole are adequate for typical DXing. When more gain is needed, a good high-Q regenerative preselector amplifier will bring marginal signals up out of the mud.

The primary niche that the short dipole has is a very space-conserving antenna for small pieces of land. A broadband loop (as described above) can be located close to the dipole and the two antennas can be phased to produce a cardioid pattern. When more land is available, you can phase two vertical dipoles spaced at approximately 60 m on the desired peak-null axis.

Sloping the short dipole off true vertical only has a slight effect on directivity. An antenna of such small dimensions does not have much in the way of inherent nulls. If setting up two of these antennas

about 60 m apart for phasing, it might help to slope one the opposite way of the other to make the antennas a little "more different". Setting the antenna up in a horizontal position probably does reduce the low angle pick-up some.

If a tree or other support much taller than 10 m is available, the dipole can be scaled up in size. With a 20 m antenna length, the transformer ratio can probably be lowered to something in the 4:1 to 12:1 range. As you approach a half wavelength, the required ratio goes down to 1:1. The closer the size of the antenna gets to resonance, the greater the sensitivity. Still I was quite surprised at how much signal can be obtained from an electrically short dipole when the correct matching transformer is used.

What Does Your S-Meter Reading Mean?

(Two Receivers Compared)

Mark Connely, WA1ION

A receiver's S-meter is valuable for comparing strengths of stations and for adjusting peaks or nulls produced by loops, remote terminations, and phasing units. It is also very useful in bench-tests of homebrew RF amplifier and filter modules as well as verifying the gain and directivity of various antennas being compared at the same receiving site (or for comparing properties of different sites with a given portable antenna such as an active whip).

If the receiver can be swept under computer control, the computer's logging of frequency versus S-meter readback can make the receiver usable as a "poor man's spectrum analyzer" for bandscanning or for making intermodulation distortion product measurements in an automatic test environment. Nick Hall-Patch has applied this methodology with a good deal of success in the scientific observation of Trans-Pacific DX fade-in and fade-out times.

The more sophisticated that one's uses for the S-meter get, the more important it is to know what the readings mean in terms of standard parameters such as power measured in dBm (decibels relative to one milliwatt in a 50 ohm system) or voltage (rms or peak-to-peak).

If you have access to precision equipment, an S-meter calibration table for a given receiver can be prepared. The now-calibrated receiver can be used as a "transfer standard" with measurements that have real meaning, rather than just being somewhat-blind relative indications.

Luckily I work in the field of automatic RF test equipment and have access to metrology-lab calibrated signal sources. I brought two of my receivers, a Drake R8A and a Palstar R30, to a test-bench at work. During lunch I tested these with a Rohde & Schwarz model SMT-06 signal generator.

Drake R8A readings were taken at 2.3 kHz bandwidth, AM mode, and internal preamp ON (except as indicated in "Note 1"). Palstar R30 readings were taken at the narrow Collins filter setting (2.5 kHz width), AM mode, and no internal attenuation. Tests were done at 1 MHz. Measurements at other frequencies were also taken: these showed little variation (~ 1 dB) in sensitivity up to 30 MHz on the Drake R8A. On the Palstar, response was flat to 10 MHz, about 1 dB down in the 15-22 MHz range, and about 2 dB less sensitive at 30 MHz.

Measurements in the table below indicate the input level in dBm required to produce the S-meter reading shown.

Note 1: Reading with Drake R8A preamp OFF; Palstar R30 attenuator ON. In both cases, sensitivity decreases by about 10 dB. If the R8A's attenuator was enabled, its sensitivity would go down approximately 10 dB more.

S-meter test data:

Meter Reading	(RX input: dBm) Drake R8A	(RX input: dBm) Palstar R30	Meter Reading	(RX input: dBm) Drake R8A	(RX input: dBm) Palstar R30
<S2	-125	-114	S9 (Note 1)	-71	-63
S3	-117	-107	S9+10	-72	-56
S4	-113	-103	S9+20	-65	-41
S5	-108	-100	S9+30	-54	-34
S6	-102	-93	S9+40	-36	-27
S7	-95	-87	S9+50	-28	-21
S8	-88	-81	S9+60	-18	-16
S9	-82	-73	"peg"	-2	0

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Sloper Antenna Tests

Mark Connelly - WA1ION

There has been a lot of anecdotal reportage over the years about the value of "sloper" antennas, particularly with regards to directivity and nulling of "pest" stations from given bearings opposite to the horizontal direction one looks from the high end of the sloper to its low end. This article seeks to look into the performance of these antennas in more detail than afforded by previous accounts in the DX press. A set-up I have used at several locations is illustrated at the end of this article.

In the 1970's I set up a sloper at my parents' house in West Yarmouth, MA with the specific idea of reducing New York City stations. Broadcasters from that area form the biggest obstacle to foreign medium-wave DXing from the southern side of Cape Cod. The antenna worked very well. With WCBS-880 quite strong on a conventional ferrite or air-core loop, Canary Islands and UK stations on 882 kHz were generally just a moderate to strong heterodyne. Sometimes the old R390A could slice out the 882 audio, sometimes it couldn't. When I switched over to the sloper, WCBS dropped markedly in strength relative to the 882 Trans-Atlantics. Around local sunset, clear Canary Islands audio was more often the rule than the exception when using the sloper. Furthermore, right on 880, WCBS had a "hollow" sound because of the groundwave / skywave mix; frequently it was under attack by a co-channel Venezuelan that was barely noticeable on the Space Magnet and Radio West ferrite loops. Other New York stations up and down the dial were similarly reduced, thereby assisting in Trans-Atlantic and Latin American DX catches.

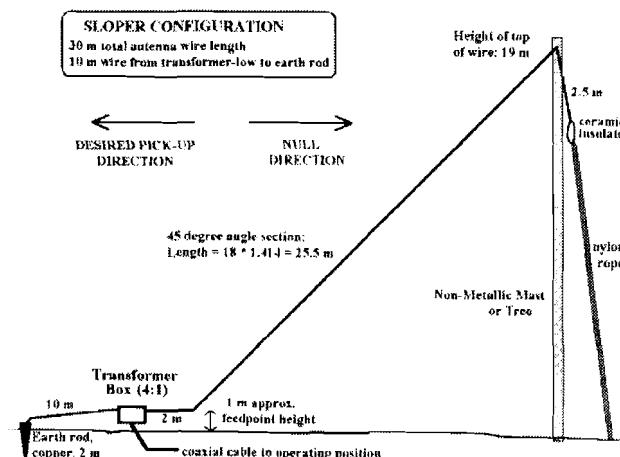
In the '90s, a sloper favoring the southeast was installed at a location in East Harwich, MA. During auroral conditions, Brazilian and deep African stations were often received in its "main beam" while Boston groundwave stations coming from the northwest were noticeably attenuated relative to how they sounded on random wires, ferrite loops, and active whips used at the same location.

For the last 22 years at my home QTH in Billerica, MA I have generally had at least one sloper in use. The one I use for general bandscanning (the "Euro-sloper") slopes downward towards the east-northeast. It puts a definite null towards Worcester, MA; Hartford, CT; New York, NY; and some other major cities on the "I-95 corridor" heading down to DC and VA. For European reception it ALWAYS beats any figure-of-8 pattern loop including the exalted Kiwa. Sometimes I set up a second sloper which gives best reception in the "pest station directions" of west and southwest. Because this second wire slopes downward from east to west, it picks up little in the way of Trans-Atlantics since it's nulling that way. The purpose of the "west-pest" antenna is for phasing against the "Euro-sloper". The level potentiometer on its phasing unit channel is adjusted downwards until a westerly station to be nulled is equal strength with its level on the "Euro-sloper". The phase adjustment for a null can then be enacted with little or no effect on the desired DX signals from the east and northeast.

Several other well-known East Coast DXers - including Bruce Conti, Al Merriman, and Ben Dangerfield - have had similarly good results over the years with the "phased opposing slopers" concept. The bountiful Trans-Atlantic DX logs from all these guys demonstrate that the method works.

Over Easter weekend 2001, it was sunny and mild and the last little patch of snow behind the house had melted away. Over the long winter months, numerous antenna test plans had entered my head and had been scribbled down in my notebook. As soon as weather permitted, I said to myself, I'm going to get some of my higher priority tests off and running. Quantifying the performance of two slopers oriented in opposite directions was a test I'd long wanted to run. How much of these antennas' stated benefits were "for real", how much was just conjecture and "folklore"? It was about time to take some daytime groundwave measurements to find out.

Each 30 m sloper ran to



one side of the high-impedance winding of a Mini-Circuits T4-6T-X65 (4:1) transformer. The other high-impedance winding was connected to a 10 m wire which ran along the ground to a 1.5 to 2 m long copper pipe earth-ground rod. The low-impedance winding was connected to the center conductor and to the shield of 50-ohm coaxial cable (length less than 30 m) going to the Drake R8A receiver inside the house.

The European (east) sloper showed a definite null on signals in the swath of bearings between 205 and 280 degrees. A sampling of receptions, with dB stated as the strength by which the west sloper signal level exceeded that on the east sloper, follows. Degrees shown are clockwise of true north, e.g. 270 = due west.

- | | |
|---|---|
| 650: WJLT-MA: 21.0 dB null: 207.6 deg. | 1310: WORC-MA: 27.8 dB null: 235.3 deg. |
| 1200: WKOX-MA: 27.0 dB null: 212.7 deg. | 1080: WTIC-CT: 19.8 dB null: 237.9 deg. |
| 1060: WBIX-MA: 30.0 dB null: 212.9 deg. | 1120: WBNW-MA: 32.0 dB null: 241.9 deg. |
| 940: WGFP-MA: 21.0 dB null: 223.9 deg. | 830: WCRN-MA: 27.0 dB null: 241.9 deg. |
| 600: WICC-CT: 16.8 dB null: 226.0 deg. | 1470: WSRO-MA: 27.6 dB null: 243.0 deg. |
| 660: WFAN-NY: 23.0 dB null: 229.8 deg. | 760: WVNB-MA: 23.2 dB null: 246.4 deg. |
| 880: WCBS-NY: 22.2 dB null: 229.8 deg. | 580: WTAG-MA: 21.0 dB null: 246.7 deg. |
| 820: WNYC-NY: 28.8 dB null: 231.5 deg. | 640: WNNZ-MA: 18.0 dB null: 253.3 deg. |
| 710: WOR-NY: 21.0 dB null: 232.0 deg. | 960: WFGL-MA: 22.0 dB null: 266.4 deg. |
| 1050: WEVD-NY: 19.8 dB null: 232.0 deg. | 1000: WCMX-MA: 21.6 dB null: 269.2 deg. |
| 1010: WINS-NY: 20.4 dB null: 232.3 deg. | 1280: WEIM-MA: 24.0 dB null: 278.3 deg. |
| 770: WABC-NY: 21.0 dB null: 232.5 deg. | 810: WGY-NY: 20.0 dB null: 278.3 deg. |
| 1440: WWTM-MA: 20.0 dB null: 234.4 deg. | |

Several weak signal Canadian Maritimes stations were only audible on the east sloper. These included CHTN-720 (PEI), CFDR-780 (NS), and CBA-1070 (NB). Going from one antenna to the other produced different dominants on several channels, for instance WJTO-ME-730 and WGAM-ME-560 on the east sloper, WACE-ME-730 and WHYN-ME-560 on the west sloper.

The western sloper had a somewhat narrower easterly null, most effective between 60 and 120 degrees. The list of stations that it reduced relative to the eastern sloper is fairly short because there aren't many daytime-receivable stations to the east of here.

- | | |
|---------------------------------------|---|
| 970: WZAN-ME: 1.2 dB null: 31.1 deg. | 1360: WLWN-MA: 15.2 dB null: 112.9 deg. |
| 730: WJTO-ME: 6.0 dB null: 36.1 deg. | 950: WROL-MA: 6.0 dB null: 119.1 deg. |
| 910: WABI-ME: 1.8 dB null: 37.7 deg. | 1430: WXKS-MA: 7.0 dB null: 139.8 deg. |
| 1230: WESX-MA: 8.0 dB null: 92.4 deg. | |

Stations "off the side" (e.g. north, south) of each sloper didn't vary much from one antenna to the other. The western sloper had a slight gain advantage a bit more often on these because its grounding was in a somewhat wetter location.

Full bandscan data for these tests may be obtained via the links below:

HTML file: <http://members.aol.com/DXerCapeCod/bscan-billerica.htm>

Zipped Microsoft Excel file: <http://members.aol.com/DXerCapeCod/bscan-billerica.zip>

I leave it to others such as Neil Kazaross to run EZNEC simulations on these slopers to see how closely the software predictions match the measured results. The foregoing study does show that, for a simple antenna, the sloper has a lot going for it. Two opposing-direction slopers fed to a phasing unit is a time-tested interference-fighting solution endorsed by a number of the hobby's better known practitioners.

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Musings

of the Members

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Times are local per Muse; submit double-spaced only.

Thoughts from NRC members ... the opinions expressed in this column are those of the individual writer and do not necessarily reflect those of the editors, publishers, or the National Radio Club, Inc.

Bruce Conti - 46 Ridgefield Drive - Nashua NH 03062

The NRC/DXAS Convention - A Broadcast History Tour

One might say that the 2001 NRC/DXAS Convention in Pittsburgh was of historic proportions. I arrived just in time Friday for the Pietro's pizza party followed by an introduction to the Pittsburgh Antique Radio Society by Ken Young and "The Conrad Project" slide show presentation by Rick Harris of the Wilkinsburg Commission. This is a group seeking to establish a national broadcast museum in Pittsburgh where KDKA is recognized as the first broadcaster. It was Frank Conrad who coined the term "broadcast" and linked the endeavor with Hamilton Music Store as the first radio advertiser and Westinghouse Vice President Harry Davis to make it a profitable venture.



The Conrad home, just days from demolition, is the site of 8XK's first broadcast in 1920. -Photo by Bruce Conti

make way for a new Wendy's restaurant. Years ago the Wilkinsburg Commission had dismantled the garage and placed it in storage with the goal of reconstructing the garage as part of a broadcast museum. That piece of broadcast history would have otherwise been simply knocked down and paved over to provide parking space for the Elks Lodge. The garage remains in storage today while the Wilkinsburg Commission looks to locate the proposed museum on the site of what was once KDKA shortwave, the next stop on our history tour.

From the Conrad home on the corner of Penn and Peebles, it was a short drive down Route 8 through Wilkinsburg to the Greensburg Pike and Forest Hills. The site of KDKA shortwave is located on the pike at Perry Street, now the Westinghouse Recreation Center. The building that housed the transmitter remains but looks nothing like the original due to additions and remodeling by the rec center. Two historical markers are the only evidence that something big occurred here in 1924. This is where the Wilkinsburg Commission hopes to locate the broadcast museum and restore Conrad's garage.

From there we continued driving down the Greensburg Pike until an historic 8-story red-brick building came into view at the bottom of the hill and end of the pike. This was our final stop, the "K Building" in the former Westinghouse East Pittsburgh manufacturing complex, now subdivided as the Keystone Industrial Park. Again only two historical markers indicated the significance of the site, where the famous Harding-Cox election broadcast emanated in 1920 from a shack and antenna on the roof, the original KDKA transmitter site with Conrad's 8XK in Wilkinsburg standing by as a back-up.

The convention concluded with an antenna phasing demonstration Sunday evening. Two approximately 230-ft wires were run in an east-northeast direction, one with noise-reduction using a 4:1 RF matching transformer and an approximately 100-ft counterpoise ground radial. There was little difference between the noise-reduced wire and the other as convention-goers reported that hotel noise could

be received on portables well outside the building, but phasing eliminated noise in most cases. One wire sloped uphill, unfortunately in the opposite direction for transatlantic reception, while the other paralleled the parking lot. It would have been better if we had an east-facing room on the top floor of Radisson Tower 3 from which dual monster slopers might have improved reception. Despite the less than optimum antenna placement and active geomagnetic conditions, at least Croatia came through weak on 1134 kHz during local sunset. At the same time, a good het was noted on 1098 kHz against WTAM Cleveland, likely Slovakia. Later St. Pierre was logged at 1375 kHz, and Allouis, France faded in nicely for a period at 162 kHz longwave. No sign of France Bleu on 1206 kHz, one I expected to hear as it's been a regular at home since going to 24-hour operation. Antenna phasing produced some interesting domestic DX; easy listening/nostalgia that MIKE LANTZ believed to be from Titusville, Florida on 1060 kHz with KYW nulled, "La Favorita" Gainesville, Georgia with Mexican music mixed with the "Fan" sports talk from either WVFN or WKHK after phase-nulling WBBR New York on 1130 kHz, and presumed Mexico under WSAI Cincinnati 1530. WAMO 860 was the worst local pest, making reception of WHAS and WWL difficult. No problem hearing WBZ and WHO in the shadow of KDKA 1020 though, on the Drake R8B receiver with a classic MWDX-5 LC-tank phasing unit. A quick scan to test the antennas prior to sunset revealed at least two to three stations on almost every domestic channel.

Of course there was much more to the convention; BEN DANGERFIELD's discussion of Pittsburgh radio in the 1930s, the banquet with guest speaker SCOTT FLYBUSH talking about the state of radio broadcasting today, the auction led by PAUL SWEARINGEN with its usual and unusual collections of T-shirts, bumper stickers, coffee mugs, KDKA memorabilia, and stuff worthy of "crap" shouts from FRANK MERRILL, JOHN BOWKER's "Travellog Live" for the DXAS, an impromptu DX Quiz by JOHN BOWKER and JOHN MALICKY, JERRY STARR's favorite Straub beer in the always open hospitality room, and Pittsburgh tourist attractions. Thanks to JOHN MALICKY for hosting a memorable convention.

Martin Wishnewitz - 35-34 84th Street - Jackson Heights, New York 11372—mmwnyc@yahoo.com

Greetings friends, just got back from another successful NRC convention hosted by JOHN MALICKY in Pittsburgh. Congrats to JOHN BOWKER and his wife for again assisting. Went to the studios of KDKA and WQED-public broadcasting. KDKA of course being the first commercial radio station in the U.S. Was able to hear along with MIKE LANTZ the end of WEVD-1050 at midnight September 1, 2001 and then hearing ESPN radio take its place—a real loss for New York radio. Was also able to hear WINS and CFRB both on 1010 well without KDKA 1020 interfering. Funny I can't get KDKA on 1020 in New York City without WINS interfering. WGY 810 came in well too at night; can't get that in New York any more. A Pittsburgh band scan was given out with a tape. So all in all, it was good seeing old friends again and hope to do it again next year. Hitch your wagon to a star—see ya soon.

G. Harley DeLeurere - P O Box 10 - Hendricks, WV 26271-0010

This is just a short MUSING concerning 2 particular stations. On 8/14 I heard "Radio Capital" from Alexandria, VA on 730. What are the correct call letters on this one? I have listed 3 sets of calls for it; they are WBZS, WKDL and WVPA. I think the WVPA call can be eliminated, but I'm not sure concerning WBZS and WKDL. Then on 8/16 I heard a loud station on 1660 at 8AM; it was playing a variety of music with no identification at all. To give you an example, at 8:15, they were playing "I Feel Like A Woman" followed by "the Hallelujah Chorus." Now, that's variety! Any help would be deeply appreciated. I am also looking for a current address for WVTS-950. Thank you.

Dave Schmidt - P O Box 3111 - Scranton, PA 18505-0111

Due to some last minute schedule changes and probably one of the worst thunderstorm sessions I had ever seen anywhere, my trip to the convention was called off. Sorry, was hoping to see a lot of others, maybe next year (I'll save the coffee cups until then, Paul!) (You'd better! -pls.). Remember, next issue kicks off our start of the new season, and we look forward to getting your reintroduction Musings together and getting them 'in the fold', sort of a custom we have carried on for a few years, and we'd like to see it continue. Radio-related and DX items are always welcomed here. We purchased a new computer system on 9/7; hopefully it will be 'on line' by the next issue! For \$250, it had all the gadgets except an operating program, which I'll have to get for it. Send in your reports; we'll look forward to hearing from you through the upcoming season!

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