

DXN News

• Serving DX'ers since 1933 •

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Station Test Calendar

KLAA	CA	830	Dec. 15	0400-0500
KQMS	CA	1400	Dec. 16	0300-0400

From the Publisher ... Looking for your own Christmas gift wish list? Just leave a copy of this DXN open to page twelve, with relevant items underlined, and your significant other should get the hint ...

From the Listserv, [NRC-AM] ...

Seeking Portable Antenna Suggestions

"I just acquired an Eton E1XM and am thus far quite impressed with it. However, since it does not have an internal ferrite rod antenna like my venerable ICF-2010, I need to find a compact, outboard, rotatable antenna for portable use on the BCB (and also on the NDB/LW band too, if such a critter exists). I'd appreciate hearing anyone's experiences, observations and advice along these lines. Has anyone used the Select-A-Tenna products? If so, which of the three models would you suggest for use with my Eton? Thanks much in advance." - Jim Pogue, Memphis TN

"The S-A-T and other similar loops work by inductive coupling (placing it near in proximity) to the ferrite inside the radio...which the E1 doesn't have. You might check the Quantum loop which you could connect to the external antenna input of your E1. At least one of the S-A-T models has a jack in it, but I did not find that it performed very well by direct connecting to various radios I have." -Russ Johnson

"Greg at Kiwa still has his portable loop on his website. A little pricey but might be worth a look <http://www.kiwa.com/>" Wayne Heinen N0POH, Aurora, CO.

"Right--the "POCKET Loop"... if you thought they'd starting making their BIG air-core loop again, unfortunately not." -Randy Stewart, Springfield MO

"I tried the AOR LA380 loop a while back. It works OK at MW but doesn't have much gain (but the noise level is quite low). On LW it is not particularly sensitive. It does do well above 2 mhz. Overall an OK choice for general purpose use but very expensive. I've also tried the older Quantum QX Pro and that definitely does well on the MW band and respectably well on LW too. I don't know how the newer V2.0 version works in relation to the older one but I would expect performance to be

similar if not better. It's also more flexible with the various antenna heads for the LW/MW/Tropical Bands." -Dave, Southeastern CT

"The Select antenna isn't bad for what it is. I find it to be on par with the RS loop that I have used in the past. FYI, the Select antenna is available in two models, the one of which Russ described in detail. The other model is the "M" version, which provides a "mini" jack that allows for a direct connection to a receiver's antenna input jack. <http://www.universal-radio.com/catalog/mwant/4316.html> This link provides additional info on both models." -Gary Wilt- W2GJW Wood Ridge, NJ

"You want it for NDB also, I think. Honestly just get a Quantum Loop and be done with it." "KAZ" -Neil Kazaross, IL.

"I've had good results from Quantum products, including the QX and QX Pro loops. The Q-Stick works great with my Sony ICF-2010; I Velcro it to the top of the 2010. For travel I use a Radio Shack DX398 and Radio Shack loop, with the '398 Velcro'd inside the loop. Hope this helps" -Dave Hochfelder.

Unfilled positions ... We're still in need of volunteers for the following positions, as described in detail in V73, #27, the June '06 DXN: A person proficient with phpBB to maintain the e-DXN site; one or more additional moderators for e-DXN; one or more persons to edit future NRC publications; a "DX Targets" editor; several editors to take over languished columns, especially "DX'er's Notebook"; finally, a DXN publisher, by June 2008.

DX Time Machine

From the pages of DX News

50 years ago ... from the December 6, 1957 DXN: The DX Calendar listed nine special programs for the NRC between 0300 and 0500 on 12/16, while two more were listed for the Newark News Radio Club, including CFAR-590, Flin Flon, Man.; Editor Ernie Cooper anticipated sore wrists from flicking the dials back and forth.

25 years ago ... from the December 13, 1982 DXN: Matt Stutterheim, Roosevelt Island, NY reported that George Hakiel visited and brought both his DX'ing skill and R7-A to bag LRA-1 on his R7-A.

10 years ago: ... from the December 8, 1997 DXN: Bill Hale took over the duties of CPC Chairman ... 1650 seemed to be the next X-band frequency to watch, as Pat Griffith, Federal Heights, CO heard them with a "great" signal on 11/21.



AM Switch

Bill Hale w_r_hale@sbcglobal.net
6124 Roaring Springs Drive
North Richland Hills, TX 76180-5552



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

CALL LETTER CHANGES

	<u>Old Call</u>		<u>New Call</u>
820	WAIT	IL Willow Springs	WCPT
		['Chicago's Progressive Talk']	
850	WCPT	IL Crystal Lake	WAIT
1290	WQMC	SC Sumter	WWHM



CPs ON THE AIR

720 KFIR OR Sweet Home - CP for U1 10000/184 is on the air.

ACTIONS

1440 WGLD PA Manchester Township - CP granted for U1 730/53, moving from Red Lion.
1600 NEW TX Dalhart - CP granted for U2 3000/250 from two towers at N36-03-31 W102-29-52.

APPLICATIONS

580 WLES VA Bon Air - Applies to move to 590 kHz with U1 600/58.
590 WLVA VA Lynchburg - Applies to move to 580 kHz with U1 250/150 and diplex into the WBRG-1050 tower.

[The two preceding applications are being filed jointly with the intent to reduce interference on the two frequencies in their coverage areas.]

1250 KHIL AZ Willcox - Applies to move to 1260 kHz with D3 10000/0 and change CoL to Kearny, Arizona.

APPLICATIONS REINSTATED

1090 WCAR MI Livonia - Application for U4 1000/800.

APPLICATIONS FOR REINSTATEMENT

1550 WCSJ IL Morris - Applies to move to 670 kHz with D1 250/0, along with a change in CoL to Amado, Arizona.

APPLICATIONS DISMISSED

540 WGOP MD Pocomoke City - Applied to move to Damascus, Maryland with U4 1000/1000.
1220 NEW AZ Many Farms - Applied for U7 2500/300/ CH 300.

APPLICATIONS FOR NEW STATIONS

1010 HI NEW Honokaa - Applies for U1 50000/10000.

LICENSE RENEWALS GRANTED

1000 WLNL NY Horseheads

LICENSE CANCELLATIONS/CALL LETTERS DELETED

980 WKLF AL Clanton - Application for renewal reinstatement denied.
1520 WHHQ TN Elizabethton

OTHER STUFF

630 CKOV BC Kelowna - Left the air permanently on November 17 as the 90-day transition period with their new FM has ended.

HEAR AND THAR

- FINES: Issued a \$1,500 Notice of Apparent Liability for Forfeiture for Station WLNL-1000 Horseheads, New York for failure to file their renewal application in a timely manner.
- Returning to the air: WYRE-810 Annapolis, Maryland // WKHZ-1590 Ocean City, Maryland;

KIYU-910 Galena, Alaska; WOMN-1110 Franklinton, Louisiana // WUUU-FM; WXYM - 1600 Saltville, Virginia;

□ Thanks to Shawn Axelrod, Bill Dvorak, Wayne Heinen, and Ernie Wesolowski.

G Y D X A U P D A T E

+ record held by a DXer in USA/Canada where a Canadian/USA record exceeds that mileage

1230 kHz

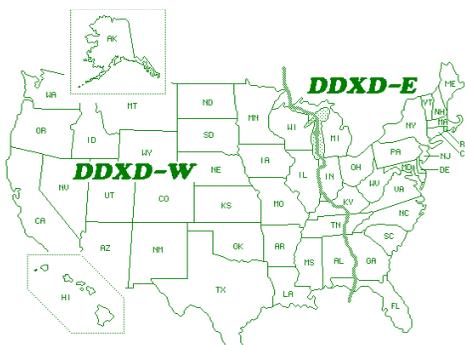
Station	City	DXer	DX Location	Miles	
WRJX	AL	Jackson	Ron Bailey	Shelby, NC	+ 444
WBLJ	GA	Dalton	Ron Bailey	Shelby, NC	+ 194
WJBC	IL	Bloomington	Ron Bailey	Shelby, NC	+ 543
WHCO	IL	Sparta	Ron Bailey	Shelby, NC	+ 494
WJOB	IN	Hammond	Ron Bailey	Shelby, NC	+ 544
WHOP	KY	Hopkinsville	Ron Bailey	Shelby, NC	+ 351
WCMC	NJ	Wildwood	Ron Bailey	Shelby, NC	+ 456
WIRO	OH	Ironton	Ron Bailey	Shelby, NC	+ 238
WFVA	VA	Fredericksburg	Ron Bailey	Shelby, NC	+ 313

Remember, all the current GYDXA records are at: <http://www.nrcdxas.org/GYDXA/>

Domestic DX Digest

West: Bill Dvorak westlogs@aol.com (Division line is between East and Central time zones)
3358 Ridgeway Ave. - Madison, WI 53704-4327

East: Mike Brooker aum108@idirect.com
99 Wychcrest Ave - Toronto, Ontario M6G 3X8 CANADA



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

DDXD-West

FROM THE VAST WESTLAND

- ▲ A lot of good news in the DDXD-W mailbox this week, all of it from DXers named John! **John Rieger** informs us that he logged his 2200th new station on 11/13, and then followed it up two days later with #2201 (see "Regular Loggings" 1370 and 1480 below). Congratulations, John! **John Tucker** reports: "There were some excellent conditions Saturday night 11/17 into Sunday morning 11/18, with stations to my north booming in here in Arizona. I was surprised to hear them long after sunrise Sunday." You can see what stations John was hearing below, and how late he was hearing them. And as a follow-up to what he reported last week, **John Wilkins** tells me that Denver's KHOW 630 and KLDC 1220 still have their IBOC off. May that continue for a very long while!
- ▲ The final edit of this column is being done on what is increasingly being called "Black Friday." This is a misnomer, if I ever heard one. My "Black Friday" comes after Christmas when I get the credit card statement. In order to keep this year's Christmas spending to a controllable limit, I have decided not to give an HD radio to anyone. Nor am I asking for one. **73 Bill**

Reporters

- DP-HI** Dale Park, Honolulu. Sangean ATS-818CS, Terk AM1000 loop.
- DP-HI1** Dale Park, DXing in East Honolulu. Honda car radio.
- GH-IL** Greg Harris, Park Forest. Icom R75 / Quantum Loop.
- JJR-WI** John J. Rieger, South Milwaukee. Icom IC-R75, Kiwa loop, MFJ-959B tuner-preamp.
- JT-AZ** John Tucker KG7RS, Mesa. Drake R8B, 4' varactor-tuned box loop, 10/50/10' EWE pointing North, DX Engineering NCC-1 Phaser.
- JW-CO** John Wilkins, Wheat Ridge. Drake R-8, 4-foot box loop.
- WH-CO** Wayne Heinen, Aurora. Drake R8B, N/S Flag, E/W Flag, Modified 4 foot NRC Altazimuth loop, 15 foot vertical whip, Dual TG-1 Termination Gizmo w/2 BUF-F amplifiers, Mini-DXP5, DX Engineering RPA-1.
- Ed.-WI** Your editor, Madison. Drake R8B, Quantum QX Pro loop.

Station News

1490 KTOP KS **Topeka. 11/23.** In an exchange of e-mails with **Paul Swearingen**, I learned that within the last three weeks or so this station changed format to ESPN sports, ex-Music of your Life nostalgia. Slogan is "Sportsradio 1490 KTOP." (Ed.-WI) (Just what Topeka needs - 3/3 AM stations broadcasting sports and incessant, banal talk! -pls.)

Presumed, Tentative, UnID

630 CHEDt AB **Edmonton. 11/22 0011.** Ad mentioning "*Journal*," ad for Safeway supermarkets, back to sportstalk. Poor; over/under KIDD CA and an SS station. (DP-HI1)

800 KQCVp OK **Oklahoma City. 11/14 1925.** Presumed with program from Family Radio just ending, followed by mentions of the Bott radio network. Poor in QRM. (JW-CO)

1270 KBZZt NV **Sparks. 11/5 0122.** Man decrying a possible Hillary Clinton administration. Poor; lost when KNDI came back on at 0124 after being off for at least an hour due to an electrical storm. (Other stations that went down were KHVH 830, KHBZ 990 [open carrier only], KWAJ 1080, KKEA 1420 (to 0117), KHRA 1460, and KREA 1540.) (DP-HI)

1540 UNID **11/5 0120.** Faint announcements in EE. KREA off. Lightning QRN. (DP-HI)

Regular DX Loggings (times in ELT)

590 CKRS QC **Saguenay. 11/12 0605.** Poor, steady in WKZO and KXSP null. Many "Quebec" mentions in FF. Rare. (JJR-WI)

670 KBOI ID **Boise. 11/18 1021.** Booming in like a local with call-in home improvement show with local callers. Nice to hear this one as it's not common at night here. (JT-AZ)

740 CHWO ON **Toronto. 11/17 0103.** "All Night Juke-box" program with a mixture of oldies and standards, several "AM 740 Toronto" IDs and an ad for Sleep Country Canada. This is not exotic DX here; I was listening to take advantage of the latest in a series of special QSL opportunities, this time for the station's 51st anniversary. Good with some fade; very light QRM from WRPQ, a semi-local but with low night power. (Ed.-WI)

790 KSPD ID **Boise. 11/15 1930.** Gal's voice wafting over the pileup saying "...wherever you are, tune in to AM KSPD, Solid Talk Radio..." and soon submerged into the pile. (JW-CO)

980 CFPL ON **London. 11/13 0645.** Very poor with calls heard (not usual slogan), web info with ".ca" at end. (JJR-WI)

1000 KKIM NM **Albuquerque. 11/22 0857.** Ad for Chuck Swindoll cruise, followed by program notes; legal ID by male voice at 0858:50 "KKIM-AM 1000 Albuquerque, and KKIM-FM 94.7 Santa Fe" and into another religious program. Good signal. (JW-CO)

1030 KTWO WY **Casper. 11/18 1040.** Strong signal this late in the morning with "Crook and Chase Countdown" country music show. (JT-AZ)

1090 KPTK WA **Seattle. 11/5 0355.** Randi Rhodes replay; homeless PSA, slogan "Seattle's Progressive Talk, AM 10-90 KPTK Seattle"; AP Radio news. Very poor to fair; unID way underneath, KWAJ-1080 QRM from 0400 when it came back on. (DP-HI)

1140 KCLE TX **Cleburne. 11/6 0102.** Out of Southern Gospel music. "KCLE 1140 the Light, Cleburne" straight to more music. (WH-CO)

1140 CHRAB AB **High River. 11/21 2357.** Charles Morse plugging DVDs and CDs from "Haven Today" Bible show, mentioned phone number 1-800-543-2836, man with show times (e.g. 9:35 am after "Tradio"); slogan "Southern Alberta's Community Radio Station, AM 11-40" (missed callsign); Everly Brothers' "Dream" into PSA. Poor to fair; over/under KHTK CA and mess. (DP-HI1)

1150 KWKY IA **Des Moines. 11/12 0620.** Poor but over others with several Iowa ads following religious show, then into "Stations of the Cross" Rosary. (JJR-WI)

1180 KOFI MT **Kalispell. 11/12 2300.** Out of spot to KOFI jingle. "From Kalispell KOFI AM 1180, News Talk Oldies" to ABC news. (WH-CO)

1180 KOFI MT **Kalispell. 11/18 1052.** Mostly oldies: "Surfin' USA," "Wooly Bully." Musical "KOFI" announcement. Strong signal in the clear. Never heard this late in the morning! (JT-AZ)

- 1180 KYDZ NE **Bellevue. 11/13 0002.** Out of SS music. "KYDZ 1180 AM Omaha, La Preciosa" to more music. (WH-CO)
- 1210 KHAT WY **Laramie. 11/15 2104.** "ESPN Sports Radio in Southeast Wyoming, 1210 KHAT Laramie" to ESPN programming. This one seems to be more regular down here these days. (WH-CO)
- 1210 KGYN OK **Guymon. 11/15 2200.** Out of C&W Music with jingle "1210 Guymon KGYN" to "the entertainment station for the High Plains Guymon" to ABC news. (WH-CO)
- 1220 CJRB MB **Boissevain. 11/17 0000.** End of the program "Songs of the British Isles." Time check in Central time. "Good evening, this is CJRB news" to local news. KLDC phased. (WH-CO)
- 1220 KDDR ND **Oakes. 11/17 0300.** Out of C&W music. "This is Dakota Country Radio 1490 KOVC Valley City, 1220 KDDR Oakes and 1600 KDAK Carrington." Taped in the phase null of KLDC. (WH-CO)
- 1230 WJOB IN **Hammond. 11/18 1845.** The following announcement given on WJOB by a male announcer (suspect possibly an engineer, but this is a guess): "This is WJOB 1230. We're experiencing technical difficulties, obviously. At 7 o'clock we'll be ready to go." They then went off the air and the undersigned was trying madly for WJBC in Bloomington IL (no joy...they might've been in the QRM but I didn't pull them out if they were). At 2000 (7 PM local) WJOB was back. (GH-IL)
- 1240 KODY NE **North Platte. 11/18 2300.** Muffled "Newstalk 1240 KODY North Platte" in the mix. (WH-CO)
- 1240 KDGO CO **Durango. 11/19 0905.** Ending ABC news. "NewsTalk 1240 KDGO Durango" ID and local weather. Fair. (WH-CO)
- 1240 KFBC WY **Cheyenne. 11/19 0959.** Laser sounder to "AM 1240 KFBC Cheyenne." Under KRDO. (WH-CO)
- 1280 CFMB QC **Montreal. 11/12 0623.** Poor over others. Several "Quebec" mentions in EE/FF, ads with area code. (JJR-WI)
- 1300 KBRL NE **McCook. 11/9 1531.** Out of Ovaltine spot. "AM 1300 KBRL" up briefly. (WH-CO)
- 1310 KXAM AZ **Mesa. 11/8 2200.** Up briefly with "NewsTalk KXAM" to CNN news. (WH-CO)
- 1310 KLIX ID **Twin Falls. 11/9 0200.** "News and Talk on the Radio, this is NewsRadio 1310 KLIX Twin Falls, Idaho" to Fox news. (WH-CO)
- 1310 KEIN MT **Great Falls. 11/9 1500.** Out of nostalgia. "...on 1310 KEIN Great Falls" to CBS news. (WH-CO)
- 1310 WDOD TN **Chattanooga. 11/13 0640.** Poor in WIBA null. Calls, nostalgia format. (JJR-WI)
- 1310 CHLW AB **Saint Paul. 11/21 2351.** Promo "...ANW and 13-10 CHLW" for Employee of the Day contest, ad, promo for sports play-by-play "all season long, live on 13-10 CHLW," slogan "Your country music leader, CHLW," woman with country song. My most northerly Canadian ever. Poor to fair; over/under KMKY CA. (DP-HI1)
- 1360 WSAI OH **Cincinnati. 11/15 0639.** Very poor with traffic report, "ESPN 1360" slogan. (JJR-WI)
- 1370 WFDR GA **Manchester. 11/13 0632.** Poor, but with a very brief LOUD fade up. Local PSAs, college info, web addresses, "here in Manchester" by a female announcer. NEW! #2200. (JJR-WI)
- 1450 KBBS WY **Buffalo. 11/19 2100.** Out of football game. "AM 1450 KBBS Buffalo, Wyoming." (WH-CO)
- 1480 WGFY NC **Charlotte. 11/15 0615.** In very poor over/under others. Ads, Disney. Only Disney on 1480, thus NEW! (JJR-WI)
- 1490 KXRE CO **Manitou Springs. 11/10 2200.** Faded up with SS music and multi-station ID for Radio Qué Bueno. Unusual at this time. (WH-CO)
- 1550 KKJY NM **Albuquerque. 11/21 0800.** ID by female voice: "Joy AM 1550, the home of New Mexico's soft favorites, is KKJY Albuquerque, a New Mexico-owned...??... station." Fair signal. (JW-CO)
- 1650 KWHN AR **Fort Smith. 11/18 1905.** "Newstalk 1650 KWHN" by a male announcer. Weak QRM from KCNZ and others. (GH-IL)

DDXD-East

REPORTERS

- GMC-MD** **Gerry Conkling, Greenbelt** - Grundig Millennium 800 with Radio Shack loop antenna
BC-NH **Bruce Conti, Nashua** - SDR IQ, WR-CMC-30, MWDX-5, 50 x 75-ft SuperLoop antennas east with remote variable termination and south 1150-Ω terminated.
HF-MI **Harold Frodge, Midland** – Drake R8B + 215' center-fed RW, 85' end-fed RW, 125' bow-tie
HJH-PA **Harry Hayes, Wilkes-Barre** - Grundig S350, Eton S350DL, Kiwa Pocket Loop
DL-MD **Dave Larrabee, Columbia** - RF Space SDR-14, Quantum Phaser with a pair of DX Engineering active verticals spaced at 200 feet.
DP-HI **Dale Park, Honolulu** – station news
DS-PA **Dave Schmidt, New Freedom** - Superadio II, R390A w/ phased short long-wires
MKB-ON **Mike Brooker, Toronto** – Grundig YB-400PE, Panasonic RF-2200

STATION NEWS

- 1280 CFBN ON Toronto** – the former Pearson Airport TIS CFYZ that re-launched as all-business CFBN noted off since at least 11/14. Broadcasting that classic format of open carrier. **(MKB-ON)**
1450 WKIP NY Poughkeepsie – Adds “Coast to Coast AM” per program 11/01. Station website says WKIP airs one to two hours of highlights of the previous weeknight’s show before the program airs at 0107. **(DP-HI)**
1500 WWWT DC Washington - Adds Stephanie Miller 11/05 per station’s website. Unfortunately the show airs on delay at 1906-2100, so is subject to pre-emption by sports play-by-play. **(DP-HI)**

FCC PART 15

- 1620 PA Ligonier** – “The Valley” a 100 milliwatt flame thrower located in Ligonier, PA, FULL SERVICE and even ads! Format is standards and oldies. Info and streaming available at www.ligonierradio.com. Something for our Pittsburgh members to look for! **(DS-PA)**

LOGGINGS

- 530 CIAO ON Brampton** – 11/17 1650 - GG program to EE Multicultural Radio ID @ToH & into possible Hungarian program (mentioned Budapest). Fair and fighting with HAR heard near St. Johns MI. **(HF-MI)**
550 WIOZ NC Pinehurst – 11/13 2033 – Weak to fair level w/ ad to advertise on radio. Promo, “The Captain Show, mornings” into 4 Lads song. **(HJH-PA)**
 +++ - 11/19 2000 - Fair; nostalgia, “It’s 8 o’clock, time for the news on WIOZ AM Pinehurst,” into AP network news. New log! **(BC-NH)**
560 WFRB MD Frostburg - 11/20 1800 - Fair, over *R. Rebelde* Cuba; Dennis Miller Show on Westwood One, “Talk Radio 560... on WFRB AM Frostburg,” and CNN news. **(BC-NH)**
600 WMT IA Cedar Rapids - 11/19 2200 - Fair, over *R.Rebelde* Cuba with 603 Spain nulled out; “Serving eastern Iowa for more than 80 years... This is Newsradio 600 WMT Cedar Rapids,” and Fox news. New log! Uploaded to dxclipjoint.com. **(BC-NH)**
WFST ME Caribou - 11/19 1900 - Fair; “Family Radio WFST Caribou” into SRN news. **(BC-NH)**
620 WSNR NJ Jersey City - 11/19 2200 - Good; disclaimer for paid programming, “This is AM 620 WSNR Jersey City,” into news from Israel. **(BC-NH)**
640 CBN NL St. John’s - 11/19 2100 - Good; “You’re tuned to CBC Radio One, 90.3 FM in Marystown,” and CBC news. **(BC-NH)**
660 WLFJ SC Greenville - 11/22 0800 - Clear ID at top of hour “WLFJ, Greenville, Spartansburg, Anderson.” Religious programming mixing equally with WFAN-NY. This is my first station heard from South Carolina. **(GMC-MD)**
670 WWFE FL Miami - 11/20 1901 - Fair, over *R. Rebelde* Cuba; “WWFE 670 Miami...” and Poderosa jingle. **(BC-NH)**
690 WELD WV Fisher - 11/20 2000 - Good; “All the original hits, Oldies Radio AM 690 WELD Fisher,” and ABC news. **(BC-NH)**
740 CHCM NL Marystown - 11/20 2000 - Good; talk with phone number 1-888-590-VOCM,

local break from VOCM network, "Shop the value store with the CHCM logo on the door," locations in Marystown Mall. **(BC-NH)**

- 790 WSGW MI Saginaw - 11/17 1059 - "WSGW is the only station in the Saginaw Valley with a live person in the studio every minute, every hour, every day." Xlnt **(HF-MI)**
- WNIS VA Norfolk - 11/20 1900 - Fair, over R. *Reloj* Cuba; "Hampton Roads' news and information station is Newsradio 790 WNIS Norfolk," into Fox news. **(BC-NH)**
- 800 CJAD QC Montreal - 11/22 2147 - Good with CKLW nulled out; promo for CJAD Irish Show podcast. **(BC-NH)**
- 920 CJCH NS Sydney - 11/19 1800 - Good; "This is 92 CJCH, all oldies all the time" and news from the "National Newsroom of the Canadian Press." **(BC-NH)**
- 990 WLGZ NY Rochester - 11/17 1700 - Callsign ID heard in Spanish only, "...WLGZ 990 AM, la voz de latina," and tropical music. Paid programming per website schedule. **(BC-NH)**
- 1110 WGNZ OH Fairborn - 11/18 0741 - over WBT/WJML with country-gospel songs, ID as "1110 WGNZ Dayton, playing a better variety of your southern gospel favorites, we're 1110 WGNZ". **(MKB-ON)**
- 1220 WZBK NH Keene - 11/16 2120 - Observed this station all evening with WKHW nulled. WZBK provided a surprisingly consistent signal much of the evening with frequent identification snippets such as "You've got it at WZBK". The NOS designation seemed about right for the 60s format. **(DL-MD)** "NOS" (*nostalgia*) actually refers to formats such as *Music of Your Life*, from the 1940s and the pre-rock and roll era rather than the 60s. Mike.
- 1290 WHKY NC Hickory - 11/18 1715 - Good signal with NASCAR coverage on MRN Network. ID given. Mostly alone. **(HJH-PA)**
- 1440 WDRJ MI Inkster - 11/21 1759 - gospel programs fighting WHKZ's gospel and CHKT-1430 slop, ToH ID as "AM 1440 WDRJ Detroit-Inkster". **(MKB-ON)**
- 1460 WEMR PA Tunkhannock - 11/19 1629 - over CJOY with local weather, "Gem 107.7" slogan into Stevie Wonder's "You are the Sunshine of my Life". Per radio-stationworld.com, they're //107.7. **(MKB-ON)**
- 1550 WAZX GA Smyrna - 11/19 1700 - Ranchera & nortena music; several different SS slogans; finally "Que Buena" @1747 & 1753. All in SS. One of 2 or 3 in/out between CBE Windsor peaks (which was vacillating between arm-chair and zilch). WAZX was not part of the mix before 1700. No IBOC. **(HF-MI)**
- 1690 CHTO ON Toronto - 11/19 1812 - Greek pop & folk tunes. No announcer till 1830; brief announcement by man then commentary by woman, mentioned Danforth address, Toronto, Westin Prince Hotel. All in Greek. In/out w/WVON & WPTW, w/peaks on top--1st time for that! No IBOC. ON #75. **(HF-MI)**
- 1710 NY Brooklyn - 11/19 1801 - Radio Moshiaach & Redemption, with preaching in Hebrew; cantor @1808. Man in Hebrew at 1810 mentioned Moshiaach. Mainly poor with decent peak now and then. Haven't had audio from this in quite a while. **(HF-MI)**



NRC AM Radio Log, 28th Edition



The NRC AM Radio Log is unbound and three-hole punched for standard binders. \$19.95 to U. S. NRC members; \$25.95 to U. S. non-members; to Canadian members, \$23.00 (\$27.95 to non-members). Airmail to all outside of USA/Canada: \$31.45. Order from: NRC Publications - P.O. Box 473251, Aurora CO - 80047-3251. (CO residents, please add 3.5% sales tax.)

International DX Digest

Bruce Conti nrcidxd@aol.com
46 Ridgefield Drive
Nashua, NH 03062-1174

Foreign DX Catches. All times are UTC

Transatlantic DX

- 531 **ALGERIA** *Chaîne 1*, El Ain Beida (35°49'N 7°19'E) NOV 18 2214 - Good; talk parallel 153 kHz. [Conti-NH]
- 549 **ALGERIA** *Chaîne 1*, Les Trembles (35°17'N 0°34'W) NOV 18 2210 - Excellent; talk parallel 153 kHz. [Conti-NH]
- 585 **SPAIN** *RNE1* Madrid (40°28'N 3°52'W) NOV 20 0000 - Good; fanfare, "Radio Nacional de España, Informativos," with Spain and Canaries time checks into news. [Conti-NH]
- 594 **SAUDI ARABIA** *BSKSA* Duba NOV 20 0158 - Solid s9+10 pre-0300 sign-on open carrier. 0247 noted with test tone, 0250 tone cut, then talk in Arabic parallel 1521 kHz. [Conti-NH]
- 603 **SPAIN** *RNE5* synchros NOV 20 0000 - Fair; "Informativos" parallel 585 kHz. [Conti-NH]
- 621 **CANARY ISLANDS // SPAIN** *RNE1* synchros, Santa Cruz de Tenerife et al. NOV 20 0200 - Good; "Informativos" news by a man and woman parallel 585 kHz. [Conti-NH]
- 657 **ITALY** *Rai Radiouno* synchros NOV 18 0325 - In fair to good with flute music parallel 1062 kHz. New log. [Barstow-MA]
- 693 **UNITED KINGDOM** *BBC Radio 5*, Droitwich et al. NOV 17 0300 - Good; talk host mentioned 909693 phone number, "This is Five Live" into news, synchro echo. [Conti-NH]
- 711 **FRANCE** *France Info*, Rennes (47°51'N 1°30'W) NOV 17 0300 - Good; fanfare, *France Info* ID with time check, and news. [Conti-NH]
- 738 **SPAIN** *RNE1* Barcelona (41°23'N 2°12'E) NOV 20 2358 - Fair; bumper music not parallel *RNE5*, then "Informativos" parallel *RNE5*. [Conti-NH]
- 747 **CANARY ISLANDS // SPAIN** *RNE5* synchros NOV 20 2358 - Fair; talk by a man and woman not parallel *RNE1*, then joined *RNE1* with bumper music and "Informativos." [Conti-NH]
- 765 **SWITZERLAND** *RSR Option Musique*, Sottens (46°39'N 6°44'E) NOV 23 0242 - Good; Option Musique jingle, French vocal. [Conti-NH]
- 846 **ITALY** *Rai 1/Rai 3*, Roma NOV 18 0331 - In weak but flute music heard parallel 657-1062. Using phaser with amp and Boston with talk made it easier. New log. [Barstow-MA]
- 909 **UNITED KINGDOM** *BBC Radio 5 Live* synchros NOV 17 0225 - Fair; telephone talk, 2330 news with lead item about nuclear weapons falling into the wrong hands. The SDR IQ allows for an easy yet tight squeeze between local 900 WGHM Nashua splatter and 910 WABI Bangor with a 1.9 kHz 'brick-wall' IF. [Conti-NH]

Pan-American DX

- 550 **VENEZUELA** YVKE Caracas (10°32'N 66°55'W) NOV 20 0300 - Fair; "Mundial YVKE" and sports ad/promo. [Conti-NH]
- 560 **CUBA** *R.Rebelde*, Moa (20°40'N 74°56'W) NOV 20 0300 - Rebelde sounder through CFOS. [Conti-NH]
- 600 **CUBA** CMKV *R.Rebelde*, Urbano Noris (20°35'N 76°08'W) NOV 20 0300 - Rebelde sounder through WMT Iowa. [Conti-NH]
- 631.27 **VENEZUELA** YVKA RNV Caracas NOV 23 0549 - Loud and clear ID, "Radio Nacional de Venezuela," noted on 631.27 kHz; presumed to be YVKA Caracas off of nominal frequency of 630 kHz. News in Spanish. [DeLorenzo-MA] NOV 5 0240 - Logged as *R.Progreso* Cuba, but defer to Marc with the better vantage point for Latin American DX. While I received the same carrier measured at 631.276 kHz, the audio heard must have been sideband splatter from 630 Cuba. [Conti-NH]
- 640 **CUBA** *R.Progreso*, multiple sites NOV 17 0330 - Good; radionovela. NOV 20 0225 - Good; "Noticiero RP" news. [Conti-NH]
- 670 **CUBA** CMQR *R.Rebelde*, Arroyo Arenas (23°00'N 82°30'W) NOV 17 0330 - Excellent; "Rebelde, la Habana, emisora de la revolución," and a romantic vocal in the style of Roberto Carlos. [Conti-NH]
- 720 **VENEZUELA** YVQE *Oriente 720*, Porlamar (10°56'N 64°12'W) NOV 20 2340 - Fair; Oriente ID with time check, rustic music. [Conti-NH]
- 730 **MEXICO** XEX *Estadio W*, Colonia el Vergel, México (19°19'N 99°05'W) NOV 21 0103 - Good; multiple station ID including XEX *Estadio W* and what



- sounded like XEHM, sports talk. [Conti-NH]
- 750 **VENEZUELA** YVKS RCR Caracas (10°29'N 67°00'W) NOV 20 2335 - Fair, over occasional Cuban wobbler; baseball coverage. [Conti-NH]
- 760 **COLOMBIA** HJAJ RCN Barranquilla (10°53'N 74°49'W) NOV 21 0100 - Good; Colombia vs. Argentina fútbol coverage. [Conti-NH]
- 780 **BRITISH VIRGIN ISLANDS** ZBVI Tortola NOV 21 0200 - Faded up nice; signing off with instrumental "God Save the Queen." [Conti-NH]
- 780 **MEXICO** XEMF *R.Nostalgia*, Monclova (26°56'N 101°27'W) NOV 21 0100-0204 - In a pileup consisting of Spanish rock oldies ("G-L-O-R-I-A Gloria" with Spanish lyrics, among other covers), Spanish religion, Mexican banda/ranchera music, Andean flute music, and occasional WBBM fade ins; heard Mission Impossible theme music at the top and bottom of the hour from XEMF. Geomagnetic conditions active to minor storm earlier with K-index in the red zone. [Conti-NH]
- 780 **PARAGUAY** ZP70 Asunción NOV 21 0100 and 0134 - Very tentative; in Latin American pile up with Paraguay, Ascunción, and equipo Paraguay mentions during repeated ad/promo. Could've been a generic reference to Chile vs. Paraguay fútbol match kicking off selections for 2010 World Cup on any station. [Conti-NH]
- 780 **VENEZUELA** YVMN *R.Coro*, Coro (11°23'N 69°40'W) NOV 21 0129 - Surfaced in Latin American stew; "En Coro" mentions in ad string. [Conti-NH]
- 790 **CUBA** CMAQ *R.Rejoj*, Pinar del Río (22°25'N 83°43'W) NOV 21 0100 - This and delayed unID *R.Rejoj* creating double minute marker and code ID through WNIS. [Conti-NH]
- 800 **NETHERLANDS ANTILLES** PJB *TransWorld Radio*, Bonaire (12°06'N 68°17'W) NOV 23 0300 - Good; sign off with instrumental Bonaire local anthem. [Conti-NH]
- 860 **CUBA** CMDB *R.Rejoj*, Baracoa (20°21'N 74°29'W) NOV 18 2250 - Fair through unIDs with CJBC nulled out; in Sunday mode with minute marker, no RR code. 2300 RR code resumed. [Conti-NH]
- 950 **CUBA** *R.Rejoj*, La Habana and Mayarí Arriba NOV 17 0400 - Both received with one delayed creating double minute markers and code IDs heard through WIBX. [Conti-NH]
- 1090 **MEXICO** XEPRS *Double X*, Rancho del Mar-Rosarita BCN (32°24'N 117°05'W) OCT 23 0545 - Simulcast of KUSI-TV Ch. 51 coverage of the southern California fires; at 0600 ID, "KUSI-TV...," at 0606 Spanish ID, "XEPRS... Baja California, México," announcement in English, "You're listening to KUSI's live coverage on Double X Sports Radio." Fair to good, 1100 KFAX interference. [Park-CA]

Transpacific DX

- 1575 **THAILAND** *R.Thailand* via VOA, Ayutthaya (14°24'N 100°47'E) NOV 21 1121 - As is often the case Thailand (assumed) comes in when conditions are the worst. Fair carrier noted on 1575 1121 to 1145 UTC. It might pay off to check this tomorrow at the same time. And maybe not, as they are totally unpredictable. Past years of 35 total receptions of this station with threshold or better audio, 25 were between DEC 1 and JAN 31. Otherwise this morning only three weak carriers on 738, 576 and 558 just before LSR at 1151. [Moore-FL]

Contributors

- Roy Barstow, Teaticket MA; R-75, DXP-5B Phaser, dual-fed Flag at 63°, 75-ft mini-BOG.
- Bruce Conti, Nashua NH; SDR IQ, WR-CMC-30, MWDX-5, 15 x 23-m SuperLoop antennas east with remote variable termination and south 1150-Ω terminated.
- Marc DeLorenzo, South Dennis MA; JRC NRD-525, Mini DXP-3 phasing unit, 35 x 40-ft east/west dual feedline SuperLoop with remote control termination, 350-ft north/south longwire, 35-ft vertical.
- Ray Moore, Ft. Myers FL; R8, homebrew receiver, modified LIL-3 phaser, 35-inch spiral loop, 30x10-ft inverted L or 6-ft whip sensor.
- Dale Park, San Mateo CA; Sangean ATS-818CS, Terk AM1000 loop.
- 73 and Good DX!



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International DX Achievements

Paul Swearingen plsBCBDXER@aol.com
2840 SE Illinois Avenue
Topeka, KS 66605-1427

International DX veries/taped totals listed by continents

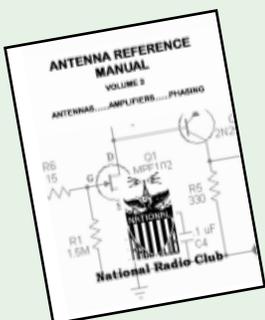
Year Started	DX'er	Location	Last Update	Af	Total Ctries	Total Veries	Asia	Forgn	NA	SA	Eur	Oc
1958	Dangerfield, Ben	PA	2005	35	130	436	13	337	85	45	152	8
1933	Gearry, Kermit	PA	2001	28	115	6554	2	1106	571	291	152	62
1938	Anderson, Roger A.	VA/NY/PA	1993	28	105	1448	5	514	227	78	128	48
1946	Moore, Ray	MA/FL	2005	24	107	253	7	252	95	52	59	11
1958	Merriman, Alan	VA	1994	14	93	1615	4	368	212	47	88	3
1940	Morss, Stan	MA	1993	14	84	3922	3	424	218	65	221	1
1986	Axelrod, Shawn	So Man	2007	12	?	2487	10	338	192	38	57	29
1950	Krejny, Edward	OH	1996	10	76	2733	0	441	208	126	91	6
1952	Schiller, Ron B.	NJ	1999	8	86	2103	3	254	136	34	72	1
1973	Sgrulletta, John	NY	2007	7	76	92	5	92	40	6	34	0
1964	Whatmough, Dave	ON	1999	6	13	1014	0	15	6	1	3	0
1965	Sampson, John	NJ	1965	3	54	445	1	72	23	6	38	1
1962	Musco, Ron	CT	2003	3	50	1392	1	54	40	5	10	0
1957	Callarman, John	?	1970	3	50	740	6	138	72	20	17	20
1976	Renfrew, Jim	NY	2003	1	56	540	1	91	59	10	19	0
1965	Neff, James R.	NY	1971	1	29	30	1	87	70	4	10	1
1958	Wesolowski, Ernie	NE	2006	1	26	1944	1	70	55	6	0	7
1958	Phillips, Dan	TN/AL	1974	1	26	567	0	40	21	9	5	3
1964	Fela, Joseph	NJ	1965	1	24	738	0	35	19	4	11	0
1962	Edmunds, R. J. (taped)	NJ	1998	0	43	897	1	56	50	37	14	0
1959	Dabelstein, Carl	NE	1959	0	40	2310	0	207	25	1	1	3
1965	Long, John	CT	1968	0	29	101	0	0	0	0	0	0
1992	Taylor, Pete	CA	1993	0	26	375	19	58	22	4	0	13
1976	Froemming, Gary	AZ	2004	0	24	624	1	131	157	25	0	9
1969	Karchevski, Bob	MA/CA	1975	0	24	204	0	141	112	0	0	6
1947	Luton, Relfe	NC	1973	0	23	1049	0	142	102	4	3	33
1975	Swearingen, Paul (taped)	KS	2007	0	23	889	0	126	62	17	0	0
1966	Bruner, Jesse R.	KY	1966	0	23	132	0	27	17	3	5	2
1969	Falconer, Jeff	ON	2000	0	22	1091	0	20	14	2	2	2
1931	Holland, George B., Jr.	NY	2006	0	22	885	1	58	46	5	5	2
1967	Floden, Eric	ONT	1970	0	16	93	0	65	61	3	0	0
1975	Heinen, Wayne	CO	2006	0	14	1582	2	115	109	1	0	3
1964	Heinen, Wayne	NY	2006	0	14	472	0	21	14	2	5	0
1968	White, Thomas	VA	2005	0	12	255	1	12	11	1	0	0
1962	Davison, Tim	OH	1962	0	11	474	0	38	21	1	0	0
1977	Wolfish, Niel	ON	1977	0	11	397	0	20	14	4	2	0
1968	Bytheway, Phil	WA	1982	0	9	457	0	20	0	0	0	0
1962	Edmunds, R. J. (paper)	NJ	1998	0	7	266	0	13	10	3	0	0
1973	Mount, Paul	NJ	1995	0	6	230	0	25	22	2	0	0
1964	Edmunds, R. J	NY	1999	0	3	76	0	1	1	0	0	0
1975	Bartek, Daniel, Jr.	NE	1976	0	2	23	0	0	0	0	0	0

This IDXA is tabulated by African veries/tapes, with total countries as the tie-breaker. Thanks to John Sgrulletta for sending in his updated totals. Although non-renewing members are routinely deleted from this list, if you've rejoined and don't see YOUR name in the listing above, send in your totals so we see YOU here next time!

Feel free to send in your updated totals in time for the next IDXA; you probably have a month or more. Remember, only taped or paper veries are counted, and mainland U. S. and Canadian catches should not be included in NA totals for either U. S. or Canadian DX'ers. Include your best catch from each continent and all other totals when reporting. And please update only from what you see above. Our next column will feature European totals.

Antenna Reference Manual, Volume 3

A compilation of 17 articles on antennas, phasing impedance matching, and RF amplification for medium wave DX'ers, some of the articles were published in *DX News* between 1999 and 2004. 8 1/2" X 11" bound book format. NRC member price: \$11.95; non-member price \$16.95; overseas customers, please contact us for exact price. Order from NRC Publications - P.O. Box 473251, Aurora CO - 80047-3251. (CO residents, please add 3.5% sales tax.)



From the BoD

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News from the NRC Board of Directors

National Radio Club Fiscal Report for Fiscal Year 2006-2007

Prepared by NRC Treasurer Dick Truax

Income Statement

Member Dues	\$13564.00
AM Log.....	9222.30
Pattern Book.....	1301.30
Antenna Book.....	756.45
Receiver Book.....	77.60
Reprints	1424.20
Beverage Book	150.20
Loop Book	204.95
DX Audio Service.....	1919.00
FM Book	2140.00
e-DXN	1340.00
Convention.....	528.00
Miscellaneous	69.00
Total Income.....	30,797.00

Expense Statement

Printing

DX News	11335.42
AM Log.....	4746.53
Antenna Book.....	290.44
Pattern Book.....	448.50
Receiver Book.....	103.10
Reprints	201.93
.....	17125.92

Postage

DX News	6886.33
Sales.....	1781.04
Administrative.....	236.01
.....	8903.38

Administrative

Telephone	12.81
Info purchase	309.35
Supplies	1581.46
Miscellaneous	2284.40
Convention.....	495.38
.....	4683.40
Total Expenses	30712.40

Statement of Income

Income, all sources.....	30797.00
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DX News / Publishing Costs

Beginning Inventory.....	1509.98
Printing.....	17125.92
Postage.....	8903.38
Less ending inventory	-1402.49
Net costs	26136.79
Profit.....	4660.21
Administrative Expense.....	46783.40
Net loss	23.19

Assets

Inventory	1402.49
Cash.....	22220.76
.....	23623.25

Liabilities

Deferred dues	-7166.30
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Net Worth.....	\$16456.95
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Expiring? Time to renew? Not sure when? Need to call or e-mail someone or join e-DXN or DXAS? Check the back page - it's all there!

NRC AM Radio Log, 28th Edition



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National Radio Club

2008 Reprints Catalog

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ANTENNAS

Many articles formerly in this section are in the Loop and Beverage Manuals.

- A2 A ZERO SHARPENING DEVICE FOR A BCB LOOP.** T. Holmes. If you're having trouble obtaining sharp nulls with a standard loop, this simple device may help. (1)
- A3 A VERSATILE LONGWIRE ANTENNA COUPLER.** R. Foxworth. How to get the maximum amount of signal from your longwire. (3)
- A9 DOWN TO EARTH GROUNDS.** G.P. Nelson. How to make low resistance ground connections for terminating a Beverage (2)
- A10 A CALIFORNIA BEVERAGE.** Fr. Jack Pejza. Results obtained at this Beverage site. (2)
- A12 THE VERTICAL PICKUP PATTERN OF THE MW LOOP ANTENNA.** G.P. Nelson. Information for those doing horizon blockage experiments with a loop antenna. (4)
- A13 USING TWO ANTENNAS TO GENERATE ASYMMETRICAL RECEIVING PATTERN.** M. Levintow. Shows a simple way to skew your loop's pattern to effect a null that will permit reception of a station impossible to receive on a figure-8 loop antenna by itself. Reprints A5 and A6 are a requirement for understanding this technique. (3)
- A14A NEW MEDICAL BREAKTHROUGH FOR LONGWAVE TA'S.** C. Clayton. Instructions on how to build an inexpensive loop antenna for LW. (1)
- A15 REVIEW OF THE DYMEK DA-3 ANTENNA.** Pete Taylor, with notes by R. J. Edmunds. Evaluation of this MW antenna. (4)
- A16 MORE ON BEVERAGE ANTENNAS.** Wes Boyd. Beverage antenna theory and application. (2)
- A17 MORE FERRITE LOOP ANTENNA INFO.** Dallas Lankford. Inconsistencies in ferrite-core loop antenna theory. (3)
- A19 NEBE: THE NEBRASKA BEVERAGE.** D. Fischer, C. Dabelstein, R. Mitchell. Results at the Nebraska Beverage site. (7)
- A20 THE LSCA-1.** Ron Schatz. Construction plans for the Loop Sense Cardioid Array. Should yield a unidirectional receiving pattern when operated properly. (10)
- A25 A NOVEL APPROACH TO BUILDING YOUR OWN BCB LOOP.** M. Maloney. Ideas for improvements in operation and sturdiness of loop antennas. (4)
- A27 SEVEN PASSIVE TUNERS.** Mark Connelly. This article will introduce you to many different tuner designs and how they are used (10)
- A29 REMOTELY-CONTROLLED ANTENNA TUNER RT-1.** Mark Connelly. An introduction to the design of remote tuning for loop or wire antennas from distances of 50 feet or more. Use w/ A43 (7)
- A30 REMOTELY TUNED DIRECTIONAL LOOP ANTENNA.** E.L. Cummins. Loops ideas for building where interior mounted loops will not work. (11)
- A31 SIMPLE CHEAP AND EFFECTIVE PRESELECTOR LONGWIRE TUNER-AMPLIFIER.** B. Sherwood. Schematic and brief instructions are given. (3)
- A33 ANTENNAS FOR AM BROADCASTING.** Steve Kennedy. A brief history of early and current station antenna systems. (4)
- A34 SOME ANTENNA EXPERIMENTS - PART 1.** W.R. McIntosh. Ever heard of a Helical longwire? This article deals with compact antennas for use where space is limited. (3)
- A35 THE PHASE ONE - A Delay Line Phasing Unit.** Gerry Thomas. Description of an improved phasing unit design that can be built or is available in kit form. (3)
- A36 LOOP-LONGWIRE COMBINED ANTENNA.** P. Swain. "Sensing" antennas for DXing and direction finding. (3)
- A38 EXTREMELY LINEAR ELECTRICALLY TUNABLE ACTIVE RECEIVING ANTENNA.** Hopf and Lindenmeier. Technical discussion of an antenna system that is the optimum solution towards allowing undisturbed reception near transmitters. (5)
- A39 SIMPLE PASSIVE LONGWIRE TUNER.** Mark Connelly. A basic tuner that can eliminate mixing spurs caused by strong locals. (2)
- A40 AMPLIFIED PHASED SHORTWIRES.** Mark Connelly. Construction article. Utilizing an SM-2,

- phasing unit and short wire antenna. (8)
- A41 THE KOWALSKI LOOP.** Neal Perdue with comments from Paul Kowalski. A first-hand account of this ferrite core loop antenna. A non-technical review, with comparisons to the SM-2. (2)
- A42 THE MWT-1 FAMILY OF ANTENNA TUNERS.** Mark Connelly. Construction plans for the MWT-1, Mini MWT-1A, 1B and 1C antenna tuners (28)
- A43 RT-1 REMOTELY-TUNED ANTENNA TUNER.** Mark Connelly. Description and construction plans. (10)
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- A47 TEST OF THE MITCHELL LEE LOOP AMPLIFIER.** Mark Connelly. A new low impedance input, 3-transistor amplifier used with series tuned loops is detailed, along with improvement ideas. (6)
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- A55 HOTRODDING THE MINI-MWDX-3 PHASING UNIT.** Mark Connelly. Technical article. More on the Mini-MWDX-3. Requires reprint A44. (3)
- A57 MICRO-MWDX-4A LOOP VS WIRE PHASER.** Mark Connelly. Connelly. Technical Construction Article. (11)
- A59 LIL-1.** Dallas Lankford. Construction plans for a new circuit for combining a loop and inverted L antenna to generate a cardioid pattern. (3)
- A60 MEDIUM WAVE, A PRACTICAL APPROACH.** Graham Maynard. This is a consolidation of articles that were first published by the Medium Wave Circle of England. It outlines the authors construction of his MW DX receiving set-up. (12)
- A61 MWDX-5 PHASING UNIT.** Mark Connelly. The latest the series of Phasing Units. Construction article. (11)
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- A81 ONE CHIP ACTIVE ANTENNAS** by Mark Connelly (3)
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- A98 TEST REPORT - THE JPS ANC-4 ANTENNA NOISE CANCELLER** by Mark Connelly(3)
- A99 LOOP SHOWDOWN KIWA VS RSM-105** by Mark Connelly(4)
- A102 DXP-1 DXPEDITION PHASING UNIT** Mark Connelly Construction Details and use. (9)
- A103 EXPERIMENTS WITH REMOTE ANTENNA TERMINATION** Mark Connelly Construction Details and use. (2)
- A104 DCP-2 DUAL CONTROLLER PHASER** Mark Connelly Construction Details and use. (11)
- A105 THE KIWA POCKET LOOP ANTENNA** by Guy Adkins Review of this portable antenna (1)
- A106 The Wellbrook K9AY Antenna: A User's Review** by John Bryant. A review of this general use antenna. (5)
- A108 Coupling an external loop antenna to the DX-390 receiver** by Hans K. Schellenberg (1)
- A109 Is your coaxial lead-in actually an antenna?** by John H. Bryant with Bill Bowers. (5)
- A110 A Beverage on the Beach:** by Rick Cenneally (3)
- A111 Testing Two (KAZ) Squashed Delta Antennas:** by John Bryant A comparison of the (KAZ), the (Super KAZ), and the (K9AY) Antennas.(5)
- A112 Pennant and KAZ Antennas Tests** by Mark Connelly More comparative testing. (4)
- A113 Pennant Antenna Review and Impressions** by Ken Alexander An independent test from Ontario. (3)
- A115 DXP-2 DXpedition Phasing Unit** by Mark Connelly (7)
- A116 DX'ing over your shoulder** by John H. Bryant. Placement and use of Beverage Antennas as bi-directional Dxing aids (4)
- A117 Pre-Amp Peregrinations** by John H. Bryant and Mark Connelly, Adventures with RF Pre-Amps by Advanced Receiver Research and DX Engineering. Review and modifications. (4)
- A118 Rolling Your Own** by John H Bryant and Bill Bowers. Building antenna splitters that perform better than most commercial units. (7)

DOMESTIC DX

- D2 IT TAKES TWO TO VERIFY, PLUS HELPFUL HINTS.** J. Murley and R. Schiller respectively. Article on the station's attitude toward reception reports and veteran DX'er Schiller's tips on increasing your returns. (4)
- D3 THE DX TEST FROM A STATION'S VIEWPOINT.** Bill Croghan. Hints from a broadcaster arranging DX tests and obtaining more verifications. (1)
- D4 WHAT IS A PRE-SUNRISE AUTHORIZATION ?** R. J. Edmunds. An Explanation of psra's. (3)
- D5 LONG DISTANCE RECEPTION OF DX TESTS.** F. Dailey. Proven techniques. (1)
- D6 MAKING THE BEST OUT OF PREPARED-CARD VERIES.** Kelly Andrews. The verie collector's last resort, with numerous samples. (3)
- D9 THE NSP SITUATION.** J. Starr. A look at this problem from the broadcaster's side of the fence. (2)
- D10 DX FROM THE TWILIGHT ZONE.** P. Sullivan. Sunrise and Sunset Skip explained (4)
- D11 GRAVEYARD DX,** R. Foxworth, with additions by M. Levintow. DX'ing the local channels with results. (15)
- D12 CANADIAN FAMILY LIFE...IT'S TWINS.** J. Oldfield. Explains station "families" in Canada. List of Station groupings as of 1980 (3)

- D13 THE POST-SUNSET AUTHORITY, A DAYTIMER'S DILEMMA** Jerry Starr. A discussion on "PSSA's". (4)
- D16 SUNRISE SKIP.** R. Kramer. Practical how to info. includes pre-sunrise authorities (psra), station allocations on clear channels and auroral effects. (7)
- D17 THE WORLDS HIGHEST-POWERED STATIONS.** Mike Burden. From Radio Luxembourg's 1933 150KW transmitter to the mega-watters of today, includes WLW, Doc Brinkley, and more. (3)
- D18 QSL'ING THE LOCALS.** Skip Arey. Extracting veries from your local stations. (1)
- D19 HOW TO "UP" YOUR TOTALS!** John J. Rieger. An antidote to "DX burnout" and proof that there is DX after the first 1000 catches! (3)
- D20 WHO'S ON FIRST?** Bruce Conti. Who was the first broadcasting station in history... ? (4)
- D21 WHAT MAKES FOR A DX TEST?** Wayne Heinen. A look at what happens at a radio station during a DX test (1)
- D22 FORMAT FUTURES.** Chris Cuomo. What radio formats may look like in the 1990s. (2)
- D23 SATELLITE PROGRAMMING.** Ed Ryan. A look at how it works. (2)
- D25 A SEVENTEEN-POINT PLAN FOR AN IMPROVEMENT.** Doug Smith. A fix to the AM broadcasting service as we know it? (3)
- D26 ONCE UPON A TIME.** Ben Dangerfield. What hap-pened years ago in DX, the NRC, and the world! 1963 was an amazing year. (3)
- D27 THE STEVENSON LOG.** Gene Martin. The Broadcast Band in February 1926. (1)
- D28 SUNSET DXING FROM THE WEST COAST.** Guy Kudlemyer. Becoming a pro at catching stations at sunset.(6)
- D29 DXing Tips Using Satellite Services.** D. Schmidt (2)
- D30 TRAVELERS INFORMATION STATIONS.** Rules and Regulations governing these numerous low-power broadcasters. (2)
- D32 U. S. A. DIGITAL RADIO (IN-BAND, ON-CHANNEL).** Official descriptions. (6)
- D33 BAD WEATHER! USE IT TO YOUR ADVANTAGE.** by Dave Schmidt. (2)
- D34 PIRACY ON THE MEDIUM OR HIGH FREQUEN-SEAS (AND NOT WALK THE PLANK)** by John D. Bowker. (5)
- D35 DXing the Graveyard Channels,** by Les Rayburn N1LF. This is an excellent article for both novices and experienced DX'ers for DXing the crowded Local Channels "Graveyard Channels" 1230, 1240, 1340, 1400, 1450 and 1490. Les delves into the many techniques that various DX'ers use in trying to improve their DX on these crowded channels in this day and age. (13)
- D36 QSL'ing from the Other Side** by Les Rayburn N1LF. Les details the problems and pitfalls that are experienced by the personnel who answer the variety of reports submitted to stations. Written about the WDAB DX Test, the information is pertains to everyone who wished to collect radio station verifications. (4)

FOREIGN DX

- F1 DXING CENTRAL, SOUTH AMERICA AND THE CARIBBEAN.** Mark Connelly. Listings, by frequency, of the best bets from these areas, along with the original Connelly, DeLorenzo, Kazaross article DXing Latin America and the Caribbean. (9)
- F2 TA TIPS FOR BEGINNER.** Dave Yocis. Your first Trans-Atlantic receptions ! (2)
- F3 PORTUGUESE FOR DX'ERS.** R.Schatz. Describes the important features of this language. (2)
- F4 TA DX'ERS GUIDE TO SUNRISE-SUNSET TIMES.** Mark Connelly. Reference to SRS-SSS times with extensive tables for many locations. (4)
- F5 HUNTING LATINS BY MUSIC.** R.Schatz. Describes types of LA music from various countries and how to ID stations using this information.(5)
- F6 ZONAL-ANALYSIS APPROACH TO TA DX.** Mark Connelly. A systematic method of grouping TA countries to help the DX'er recognize different types of openings and improve TA reception. (4)
- F7 ZONAL-ANALYSIS APPROACH TO PAN-AMERICAN DX.** Mark Connelly. Similar to F6, with the emphasis on the Eastern U.S. loggings of LA and South American stations. (5)
- F8 STATION IDENTIFICATION.** Tips on how to ID stations in nearly 50 languages! (2)
- F9 SOME EASY TA'S.** Dallas Lankford. (2)
- F10 ID'ING JAPANESE BROADCAST STATIONS.** Charles Taylor. Hints to help, without actually knowing the language! (2)
- F12 COMMON SENSE TA DX STRATEGY.** Mark Connelly. Practical hints are given for hearing Trans-Atlantic stations. (2)
- F13 THE ODDS ON EVEN TA'S.** Mark Connelly. The possibility of hearing TA's on channels shared with domestic stations. (10)
- F14 YOUR FIRST 30 COUNTRIES IN ENGLISH.** Mark Connelly. Listed by country. (3)
- F15 CARIBBEAN MW DX GUIDE.** Mark Connelly. Listed by country. (4)

HOBBY REFERENCE LISTS

Some reprints formerly in this section are found in *Station Location Mapbook* (SLM)

- HRL1** National Radio Club Common Abbreviations List (6)
HRL2 Cuban Medium-Wave Broadcast Stations (List revised 11 / 2005) (3)
HRL3 U.S. Postal Service 3 digit ZIP codes (2)
HRL4 North American Time Zones to UTC Conversion Chart. (1)
HRL5 Frequency and Power Relationship Chart. Shows average coverage radius for various powers at BCB frequencies. (1)
HRL8 NRC Countries List edited by Al Merriman (2)

MISCELLANEOUS ARTICLES

- M1 LOCAL SIDEBAND SPLASH: HOW MUCH IS TOO MUCH?** G.P. Nelson. This article describes FCC regulations on sideband radiation on the Medium Wave band and types of station-originated spurious radiation. (1)
M2 MODULATION ARCING J. Starr. Describes a frequent but rarely discussed cause of medium wave interference originating at the station. (1)
M3 SUNRISE-SUNSET TABLES. G.P. Nelson. These charts allow determination of accurate time of sunset and sunrise at any point in the world on any date. (9)
M4 RF INTERFERENCE AND THE HOME COMPUTER. Bill Krause, ANARC. Home computers will cause interference on your DX rig unless precaution are taken; solutions are discussed. (2)
M5 UNRESTRICTED RADIATION. G.P. Nelson. Discussion of carrier current stations and how to hear them. (3)
M6 RF POLLUTION. G. Hauser. General discussion of the radio interference problem and steps necessary to control it. (2)
M7 PATTERNS, PARTS I, IIA, IIB. P. Hart. These articles explain in detail what patterns mean and understanding their relationship to DX'ing! (34)
M9 MORE ON HOW DIRECTIONAL ANTENNA PATTERNS ARE PRODUCED. Wes Boyd. Supplementary information to the articles contained in the 1980 edition of the *NRC Night Pattern Book*. (1)
M10 SUPERMODULATION AND EFFECTS ON DX'ING. Steve Kennedy. Discussion on the problem and its affect on DX'ing. (3)
M11 TERRAIN CHARTS FOR PROPAGATION PREDICATIONS. M. Connelly. This article details how to prepare a chart of a DX'ers surrounding terrain which can help enhance or diminish reception. (3)
M12 NOISE LEVELS AND USABLE RECEIVER SENSITIVITY. C. Hutton. Technical Discussion of the effect of noise on receiver sensitivity. (5)
M13 GREAT CIRCLE CALCULATIONS REVISITED. Mike Tuggle, with an addendum by R.N. Allen. An explanation, how to figure distance and direction of stations mathematically, with a computer program to figure the Great Circle paths. (4)
M17 SOME THOUGHTS ON INTERFERENCE. Skip Arey. A simple modification to eliminate noise from light dimmers.(1)
M18 MANMADE INTERFERENCE ON THE BCB. Dallas Lankford. A systematic approach for evaluating a current or future DXing location in terms of man-made noise levels. (3)
M20 THE LOG BOOK. John J. Rieger. Organizing your log book . (3)
M23 WBBM RADIO: YESTERDAY AND TODAY. Chuck Schaden. A book review (1)
M25 MUSIC IN THE AIR, by Philip K. Eberly. Reviewed by Armand DiFilippo. (1)
M30 THE GOLDEN AGE OF DX'ING. John Clements. Were the years 1969 thru 1975 the Golden Age of DX'ing? You decide. (4)
M31 ALL ABOUT WAVELENGTH. John D. Bowker. Wavelength versus frequency. An explanation. (2)
M32 STANDARDS TIME AND FREQUENCY. via Pete Kemp. Time and frequency stations located on longwave. List by frequency. (3)
M33 AM RADIO IN HIGH FIDELITY. John D. Bowker. Find out the reason why AM sounds so bad and what can be done to fix it. (1)
M34 MYSTIQUE OF THE THREE-LETTER CALL. Thomas White, via CompuServe, via Pete Kemp. The Historic Roll Call and Current Status. (12)
M37 NOISE Some Causes and Some Cures. Wayne Heinen (4)
M39 FOUR SOFTWARE PIECES FOR MW DX'ers G. Kudlemeyer. Review of programs for Macintosh Computer Owners. (6)
M40 PIONEER BROADCASTING STATIONS IN THE US. Thomas White A comprehensive history

- of U. S. Radio including the oldest 127 stations still in operation with starting dates. (12)
- M41 RFI FROM HOUSEHOLD ELECTRONICS** by Perry Crabill, Jr (2)
- M42 AN INTRODUCTION TO LONGWAVE DXING** by Shawn Axelrod (3)
- M43 HOBBY AUDIO RECORDING IN THE 21ST CENTURY** by R. Charles Rippel Discussion of modern recording methods (3)
- M44 A useful little timer for DX'ing** by Rick Kenneally (1)
- M45 An Audio Switching network** by John Bryant (3)
- M46 A Dummy's Guide to Working with Wall Warts.** Adapting by John H. Bryant, with Bill Bowers wall wart AC to DX transformers to DX'ing accessory needs (8)

PROPAGATION

- P1 MEDIUM WAVE SIGNAL PATHS, PARTS I, II, III, AND IV.** G. P. Nelson. Discusses Great Circle paths, seasonal absorption patterns, auroral effects and the Mid-Winter Anomaly. (29)
- P2 SOLAR CONTROL OF DAWN E-BLANKETING ON THE MW BCB.** G. P. Nelson. Explains how the position of the sun controls the fadeout time of TA's and TP's. (3)
- P3 EAST-WEST SYMMETRY AND THE FADE-IN PROBLEM.** G. P. Nelson. Explains how the sun controls the fade-in times for MW stations. (2)
- P4 SUMMER RECEPTION ON THE BROADCAST BAND.** G. P. Nelson. First article describing the seasonal patterns in solar terminator location which makes summer MW reception from deep South America and Africa possible. (3)
- P5 METEOROLOGICAL EFFECTS ON MW GROUNDWAVE RECEPTION.** R. J. Edmunds. Short term variations in groundwave propagation at MW frequencies and their relationship to weather conditions. (7)
- P6 AURORAL EFFECTS AND THE 1969 TRANS-ATLANTIC LISTENING TEST.** G. P. Nelson. A description of how the geomagnetic and auroral phenomena control TA reception from various stations. An introduction to auroral effects. (5)
- P7 THE AURORA OF NOVEMBER 6-9, 1970.** G. P. Nelson. Traces a classic auroral attack from its origin on the sun to its effect on MW reception. (3)
- P8 COMPARATIVE MEASUREMENTS OF GEOMAGNETIC INDICES.** R. J. Edmunds. A three month comparison of A-index measurements as reported by several major observatories as they relate to each other. (3)
- P9 SKYWAVE OR GROUNDWAVE RECEPTION?** G. P. Nelson. How to tell whether the signal from a station is arriving via ground wave, skywave, or both. (3)
- P10 A BEGINNER'S GUIDE TO THE IONOSPHERE.** Fr. Jack Pejza. This article explains the processes which change the ionosphere and the effects of these changes on radio wave propagation. (10)
- P11 THE LIMITS OF MIDDAY MW DX.** G. P. Nelson. Comprehensive article describing the factors which influence radio wave propagation and reception during the late morning and early afternoon hours. (16)
- P12 LIMITATION ON THE USE OF THE A-INDEX.** G. P. Nelson. An explanation of the A-index as a DX'ers tool. (3)
- P13 BCB RECEPTION DURING PERIODS OF HIGH AURORAL ACTIVITY.** G. P. Nelson. Describes research into the effects of the aurora on MW propagation. (8)
- P14 SKYLINE BLOCKAGE** Fr. Jack Pejza. Mathematical derivation of the formulas needed to calculate the effect which terrain has on signals. (10)
- P15 SKYLINE BLOCKAGE, SOURCES OF UNCERTAINTY.** G. P. Nelson. Takes into account the possibility of signal propagation by some less common modes which are subject to blocking by the horizon. (9)
- P16 HORIZON BLOCKAGE: CAN FRESNEL DIFFRACTION BE IGNORED?** G. P. Nelson. This article shows how signals that should be blocked by the horizon can sometimes be heard. (10)
- P17 TRANSPOLAR DX RECEPTION.** R. J. Edmunds. This technical article relates to the trans-polar reception of central and eastern Asiatic stations at sunset in North America. (27)
- P18 OBSERVATIONS OF TRANS-ATLANTIC MW RADIO SIGNALS.** C. W. Bailey. The results of a lengthy survey of TA receptions made over a one-year period. (3)
- P19 PROPAGATION AT MW FREQUENCIES.** P. Sullivan. Discusses some aspects of the factors which control signal reception on the BCB. (6)
- P20 FACTORS OF MW PROPAGATION.** F. Dinning. Discussion of the nature of MW propagation. (6)
- P21 DOMESTIC PROPAGATION-ANSWERS TO FREQUENTLY ASKED QUESTIONS.** R. J. Edmunds. A discussion on some of the propagational factors that affect domestic reception. (1)
- P22 REVIEW OF SOLAR ACTIVITY FOR THE MW DX'ER.** R. J. Edmunds. An explanation of the

Fredericksburg A-index as well as its use in the hobby. (2)

- P23 MEDIUM WAVE IONOSPHERIC PROPAGATION PLUS THE SEQUEL TO R.Schatz.** These articles take a different approach to propagation and presents new terms and theory. (11)
- P24 TERMINATOR TRANSIT MECHANIX.** R.Schatz. Parts I, II, III, IV AND IV-A of a series which the author states features practical techniques to hear new stations; techniques never before available. (33)
- P25 SUNSPOT CYCLE 21 - THE PEAK - HOW MUCH AND WHEN.** O. Oklehen, H. R. REPORT. This article, through careful predictions, shows how the next peak in solar activity will be one of the most severe in recent history: Includes additional comments by R. J. Edmunds. (3)
- P26 ATMOSPHERIC AND GALACTIC NOISE ON THE BCB.** Dallas Lankford. A discussion on the amounts of various types of noise, Compared to receiver sensitivity (3)
- P27 ON THE NATURE OF SCIENCE AND THEORIES OF BCB PROPAGATION.** Dallas Lankford. Discussion of several theories, concentrating on the controversy concerning the degree of the arrival angle of signals propagated over long distances. (3)
- P28 DXING THE 1984 SOLAR ECLIPSE.** Gerry Thomas. One DX'er's experiences during this rare DXing opportunity. (3)
- P29 ON OBLIQUE PROPAGATION.** Dallas Lankford. Very technical discussion on the theory of oblique incidence nighttime ionosphere at BCB frequencies. (12)
- P30 MEDIUM-WAVE OBLIQUE PROPAGATION - ANOTHER VIEW.** Randall J. Seaver. Some different interpretations are presented on this subject, as well as examples of MW propagation analysis using the Knight Wave-Hop method. (9)
- P32 RELATIONSHIPS BETWEEN SOLAR ACTIVITY, THE EARTH'S MAGNETIC FIELD, AND MW DXING.** Randy Seaver . General characteristics of geophysical phenomena are addressed, in order to understand relationships between the sun, the geomagnetic field, and high-latitude DX. (15)
- P33 SEA GAIN.** Randy Seaver A discussion of the propagation phenomena. (11)
- P36 M.F. PROPAGATION: A WAVE-HOP METHOD FOR IONOSPHERIC FIELD STRENGTH PREDICTION.** P. Knight. A method for calculating the strength of medium-wave frequency sky-wave signals at night. (9)
- P37 BEAMIAC-A -DELUXE+ GREAT CIRCLE BEARING DISTANCE COMPUTER PROGRAM.** Mark Connelly. A "basic" computer program. (6)
- P38 THE EFFECTS OF WEATHER ON THE IONOSPHERE.** Jack Woods. A discussion on weather and MW propagation. (2)
- P39 GROUND WAVE, SKY WAVE.** John D. Bowker. A simple explanation of these term. (1)
- P40 TRACKING THE 1994 SOLAR ECLIPSE BY RADIO** by Ken Chatterton (3)
- P41 Web Site for U. S. Station Signal Strengths. A Valuable Resource** By Mark Connelly, Initial research on Sea gain from Coastal DX'ing Sites. (3)
- P42 Sea Gain: The Numbers Don't Lie** by Mark Connelly. The amazing affect of DX on the shoreline vs. inland (4)

RECEIVING EQUIPMENT AND TECHNIQUES

Some articles previously in this section are available in "The Challenging Crystal Set"

- R1 SPURIOUS SIGNALS & SPURIOUS SIGNALS REVISITED.** R. J. Edmunds and G. P. Nelson. Many DX'ers hear stations on frequencies where they don't belong. Article describes causes and cures of spurious MW signals. (10)
- R2 SINGLE SIDEBAND RECEPTION ON THE BCB WITH MECHANICAL FILTERS.** G. P. Nelson. Few commercial receivers covering the MW band have adequate selectivity to cope with MW interference--particularly in the presence of powerful local stations. Explains how to add mechanical filters to an existing receiver for the ultimate in adjacent channel rejection. (21)
- R3 SUBAUDIBLE HETERODYNES ON THE MW BCB.** G. P. Nelson. Details on a technique to permit the MW DX'er to detect and characterize signals too weak to hear at the time; allows the DX'er to count the number of stations on a channel--even if no programming is audible and permits direction-finding on channels with several stations present. (6)
- R5 THE TRACKING PROBLEM AND HOW TO CURE IT.** G. P. Nelson and T. Holmes. Many excellent receivers are poorly designed for MW DX operation. This article describes one of the most common design faults and how to cure it. (4)
- R6 ELECTRONIC VERNIER TUNING.** R. Moore. Detailed instructions on how to fit a varactor to a MW receiver to provide fine bandsread. (4)
- R9 RECEIVER/ ACCESSORY INTERFACES MADE SIMPLE AND CHEAP.** R.J. Edmunds. A discussion of methods of interconnecting DX equipment. (7)
- R10 UP THE CARRIER.** W. Bailey. Dig the weak DX out of the mud with this form of exalted carrier

- reception. (1)
- R11 PRECISION FREQUENCY MEASUREMENT.** R. Schatz. How to use the frequency counter. (3)
- R13 SINGLE SIDEBAND RECEIVING ADAPTERS.** T. Sundstrom. How to sharpen your receiver's IF bandpass using a B&W 370 receiving adapter. (2)
- R14 REVIEW OF THE AUTEK Q-BOX.** T. Sundstrom. Describes the uses of this noise filtering device and its applications in MWDX. (3)
- R17 BUILD YOUR OWN AUDIO FILTERS.** P. Sullivan. A technical theory and construction article on inexpensive homebrew audio filters. (7)
- R19 A BRIEF REVIEW OF THE AUTEK QF-1 AUDIO FILTER.** C. Hutton. A non-technical review of this noise and interference filter. (2)
- R20 A FREQUENCY COUNTER FOR RECEIVER TUNING.** R. Foxworth. A very thorough paper on digital readouts and what to look for in various models. Discusses technical theory and provides circuitry to enable the Experimenter to build a counter for use as a "digital dial". (13)
- R22 THE LYNODYNE CRYSTAL WIRELESS RECEIVER.** R.W. Tuggle. The concepts of vintage crystal radio are incorporated in these construction plans for a simple receiver, offered as a sporting alternative to modern receivers; yet it has the potential for real DX. (4)
- R23 DIVERSITY RECEPTION.** C. Hutton. Using more than one antenna and receiver in an effort to reduce fading and interference on one frequency. (1)
- R24 TIPS ON REMOTE TAPING.** R. J. Edmunds. This article explains several methods you can use to turn your receiver and recorder on while you are otherwise occupied. (2)
- R25 STRONG SIGNAL HANDLING.** C. Hutton. This technical article explains that sensitivity and selectivity are not the only, nor the most important, considerations in a receiver. (6)
- R26 RECORDING JACKS FOR RECEIVERS.** Dave Arbogast. A simple step-by-step procedure is outlined for adding a tape jack to almost any receiver. (1)
- R27 TAPE RECORDING HINTS.** Mark Connelly. A complete method of radio-to-tape interfacing for portable radios is detailed, complete with schematics and parts lists for construction. (4)
- R28 CONVERTING THE R-390A POWER SUPPLY TO SOLID STATE.** Charles Taylor. A conversion process to change the older high voltage tubes to solid state diodes is described step-by-step. (7)
- R29 R-390A ALIGNMENT CHART.** Charles Taylor. A step-by-step procedure for aligning the R-390A. (5)
- R30 MCKAY-DYMEK DP-40 PRESELECTOR.** R. Foxworth. A non-technical description of this useful filter accessory plus some modifications to improve its performance. (2)
- R31 THE SUPER HQ-180.** Dallas Lankford. Add a Collins mechanical filter to your "180". While not a "how-to" article, problems and results are discussed. (4)
- R32 HQ-180A ALIGNMENT WITHOUT A 60 KHZ SOURCE.** Dallas Lankford. Although most RF signal generators do not tune below 100 KHz., the HQ-180A's 60 KHz IF can be aligned with a 455 KHz RF source. (4)
- R33 R-390A/URR PTO ALIGNMENT.** Dallas Lankford. The alignment procedure to achieve exact end-point alignment in the R-390A PTO tuning is detailed. See R34, (3)
- R34 INSIDE THE R390A PTO.** Dallas Lankford. An in-depth article that explores the PTO tuning in the R-390A and shows how to improve its performance up to specifications. See R33. (4)
- R36 THE BBA-1 BROADCAST AMPLIFIER.** Mark Connelly. A simple and other antenna. Complete construction details. (11)
- R37 THE GENERIC HQ-180 IF ALIGNMENT.** William Marvin. A non-technical procedure that requires no test equipment. (4)
- R38 VARACTOR DIODE APPLICATIONS FOR DX'ERS.** Mark Connelly. Discussion of the Advantages and disadvantages of substituting the varactor diode for the variable capacitor in various DX projects. (10)
- R39 A "KNOCK-YOUR-SOCKS-OFF" REGENERATIVE PREAMP.** Ray Cole. A simple-to-build preamp that promises to nearly double your receiver's ability to dig weak signals out of the noise. (1)
- R42 NOISE AND SIGNAL LEVELS ON THE BCB.** Marc Bergman. How much sensitivity does a receiver need? A practical view of signal level vs. BCB noise levels (15)
- R43 CERAMIC FILTERS.** Marc Bergman. A listing and description of the most commonly available ceramic filters, with data from tests. (9)
- R44 THE HQ-180 SERIES RECEIVERS SENSITIVITY TEST.** Dallas Lankford. A simple diagnostic test. (2)
- R46 SURPLUS MECHANICAL FILTERS.** Marc Bergman. Test results of several reasonably-priced and available mechanical filters. (3)
- R47 ADD A TUNING METER TO YOUR RECEIVER.** Ray Cole. Shows how to add a meter to your

- radio for accurate tuning. (1)
- R50 R71A SPEAKER MODIFICATION.** Herman Plew. Throw that sound in the right direction with this modification. No technical knowledge needed! (1)
- R51 SELECTIVITY VS. FIDELITY FOR THE DOMESTIC BCB DX'ER.** Neal A. Perdue. What is selectivity? What is fidelity? Why do you need both? (1)
- R52 YET ANOTHER USE FOR THE AUTEK RESEARCH QF-1A ACTIVE AUDIO FILTER.** Neal A. Perdue. Clean up your DX catch tapes, even old records with these techniques. (1)
- R53 THE RBL AND THE R-392/URR, A SYMBIOTIC RELATIONSHIP OR NEW USES FOR TEST POINT E203.** John H. Rose III. Technical article using these receivers in a series of experiments. (3)
- R54 COLLINS 51J4 REVIEW.** Dallas Lankford. A detailed review. (3)
- R55 COLLINS 51J4 TECHNICAL NOTES.** Dallas Lankford. A comprehensive technical review. (10)
- R56 MORE COLLINS 51J4 TECHNICAL NOTES.** Dallas Lankford. A continuation of Reprints R 54 and R 55 (4)
- R57 COLLINS R390A, THE WORLD'S BEST RECEIVER?** G.S. Mayard. This review gets into the details of another fine DX receiver. Technical. (6)
- R58 A SIMPLE HIGH-PASS AF FILTER.** Gerry Thomas. Hear those "in-the-mud" stations better on that speaker. (1)
- R59 R-5000 MODIFICATIONS.** Eric Roskos via Peter Kemp . (3)
- R60 COMMENTS ON G. MAYNARD'S SYNCHRONOUS DETECT.** Wayne Heinen. This reprint should be used in conjunction with reprint R-57. (1)
- R61 ADD A Q-MULTIPLIER & A SB-620 TO THE R390A.** Wayne Heinen. (1)
- R62 PHASING UNIT DESIGNS: SIMPLE TO COMPLEX.** Mark Connelly. (5)
- R63 HQ-180 AGC MOD.** Dallas Lankford. AGC overshoot on the HQ-180 can be cured. (1)
- R64 51J/R-388 BAND 1 MOD AND AGC MOD.** Dallas Lankford. Increases MW sensitivity. (1)
- R66 R390A AGC/BFO MODS.** Dallas Lankford. Technical article. (4)
- R67 R390A KHZ FILTERS FOR THE HQ-180.** Dallas Lankford. How to use Collins DB filters in your HQ-180 receiver. (2)
- R68 R-390A AUDIO OUTPUT IMPEDANCE MATCHING.** Dallas Lankford. Improve the audio quality of your R-390A. (2)
- R69 COLLINS R390A - THE ORIGINAL "WORLD'S BEST".** Graham Maynard. More tips and modifications. (7)
- R70 NRD-525 AGC Mod. & AGC Mod 2** Dallas Lankford (6)
- R71 DRAKE R-8 MW ATTENUATOR MOD.** Dallas Lankford. (1)
- R72 MODIFICATIONS FOR THE NRD-525.** John R. Tow (5)
- R73 HOTRODDING THE RADIO SHACK 12-625.** Ray Cole (1)
- R74 COLLINS TORSION MECHANICAL FILTER FOR THE R-390A.** D. Lankford (7)
- R75 DRAKE R-8 TYPE B SPURS ELIMINATION.** D. Lankford (3)
- R76 DRAKE R-8 INCREASED DYNAMIC RANGE.** D. Lankford (4)
- R77 MODIFICATIONS FOR THE SANGEAN ATS-803A.** G. Maynard (3)
- R78 IMPROVEMENTS TO REGENERATIVE RECEIVER DESIGN** by Mark Connelly (2)
- R79 R-390A WON'T TURN OFF AGAIN (?)** by Dallas Lankford (2)
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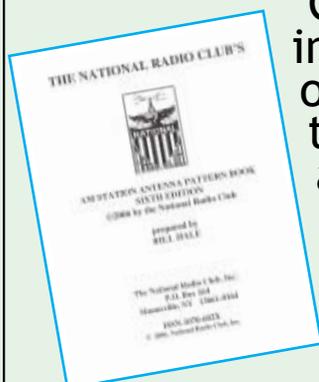
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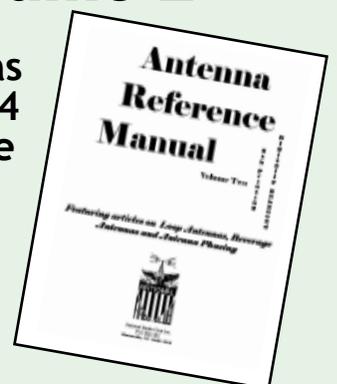
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A64	9	___	D2	4	___	HRL3	4	___	P11	16	___	R24	2	___	R75	3	___	RR42	1	___
A66	2	___	D3	1	___	HRL4	1	___	P12	3	___	R25	6	___	R76	4	___	RR43	8	___
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