

June 19, 2004 - Volume 41, Number 28 - Edition 1320 - ISSN 899-9733

EiC Notes

Welcome to IRCA: **Mike Hawkins** - Tracy, CA (SDXM only), **Leslie H. Carpenter** - Sandy, UT (S & HDXM) and **Fred McAddo** - McMinnville, OR (HDXM only). Let us know how we can serve you better!!!

IRCA Convention. Dates: July 23-25, **Hotel:** Rodeway INN, 1115 North Curtis Rd, Boise ID 83706 (1-208-376-2700 or 1-800-272-5993). **Rates:** \$59.95 plus 12% tax or \$67.14. **Starts:** Friday 9 AM, **ends:** Sunday afternoon after Bar-b-que. **Tentative tours:** KIDO/KFXD and KBOI. **Convention fee:** \$25.00, can also be paid via Paypal at: **N7SOK@aol.com**. **Auction items:** send to Frank Aden, 4096 Marcia Pl., Boise ID 83704. **E-mail inquires:** send to: **IRCA2004@aol.com**... make your plans NOW – pb.

WTFDA 2004 - Omaha, NE. The WTFDA annual convention takes a stop in Omaha, NE July 30 - Aug 1, 2004, hosted by **Matt Sittel** and **Michael Hawk**. This year's \$28 convention fee brings you a tour of skip-magnet KMTV, technical talks, the annual banquet, and on-site antenna and radio demos. The convention site is centrally located at the Park Plaza Regency Lodge. More information is available at <http://www.amfmdx.net/WTFDA2004/>, or write **Matt Sittel** at **mcsittel@cox.net** or 15013 Eureux St, Bellevue, NE 68123.

From **Frank Aden (N7sok@aol.com)**: "I can now make available the 1994 Convention (Aberdeen) and the 1995 Convention (Boise) on DVD for \$20.00 each. The WTFDA Convention 2001 (Boise) also available on DVD!" If interested, contract Frank.

From **Pat Martin**: "I just got an e mail from **Ginny Boehnke**, Chuck's wife and some IRCAers have not removed Chuck off their mailing list (**kale@juno.com**). Ginny requested if you would please remove the address. Ginny is not a DXer and has no interest in it. Thanks."

From **Larry Godwin**: "I think we have a new X-band station on 1700, a Spanish-speaker that calls itself "La Romantica, 1700-AM." I first heard it 6/13 at 0802 EDT, stronger this morning at the same hour. I believe it's in Mexico because announcers mentioned "La Republica" twice this morning, once during a PSA referring to "la ley" (the law). I'd guess it's in BCN or BCS, judging by signal strength, local sunrise, and loop bearing." Per the CorazonDX eGroup, this is XEPE-560 Tecate, BCN, who has been testing on 1700. pb

DX Test *Lynn Hollerman*

Daily 0255-0305 1220 WRIB Providence RI (Healy)

Daily, from 2:55am-3:05am EST - WRIB-1220 - Providence, RI - This test is scheduled to run indefinitely.

Reception reports (with return postage) may be sent to:

Craig Healy, NG1U
WRIB
200 Water St.
East Providence, RI 02914

OR

WWW: <http://www.wrpb.com>

(Arranged by **Craig Healy**, NG1U and AM-DX.COM.)

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WESTERN DX ROUNDUP

Nancy Johnson – 265 Waterton Wy – Billings, MT 59102-7755

E-mail: NancyJohnson@prodigy.net

WDXR DEADLINES: June 25, July 9, July 23, Aug. 6. Please use Eastern Time.

REPORTERS FOR THIS ISSUE:

- (RA) **René E. Auvray**-Henderson, NV
Grundig Yacht Boy 400, General Electric P2900A
- (MF) **Martin Foltz**-25102 Pradera Drive-Mission Viejo, CA martin.foltz@qlogic.com
HQ-180A with 1 foot air core loop, Toyota truck radio
- (GH) **Glen Hansen**-1925 Tualatin St.-St. Helens, OR 97051
skinner@columbia-center.org
Drake R8B, TMC GPR-90, Hammarlund SP-600, various wires, amplified
Sanserino & Radio Shack loops
- (PM) **Patrick Martin**-P.O. Box 843-Seaside, OR 97138-0843 mwdxer@webtv.net
Drake R8, 1500' Eastern term. Beverage, MFJ 1026 phasing unit, 40' vertical
phasing antenna
- (DN) **Doug Nyholm**-2336 Autumn Ridge Dr.-Sandy, UT 84092 dougnholm@msn.com
Radio Shack DX-398, Yaesu FRG-7000, FRG-7, loop, 1000' E-W wire
- (KR) **Kevin Redding**-Mesa, AZ amfmdx@fastq.com
Kenwood R-1000 and 60' wire
- (RW) **Robert Wien**-801 East Alostia Avenue Apt. G-1000-Azusa, CA 91702-2748
rjwmail@webtv.net
GE Superadio, Select-A-Tenna

- *****
- 550 KFYI AZ, Phoenix 5/17 0005-0006 local news in the Phoenix area, QRM from a C&W station (may have been KUZZ Bakersfield, CA). First time heard in NV. (RA-NV)
 - 560 KPQ WA, Wenatchee 5/27 0130 news, ID, then back into George Norry show. No sign of KSFO. TMC with RS loop. (GH-OR)
 - 570 KVI WA, Seattle 5/29 0337 I was finally able to get a decent null on KNRS and found that there was something underneath. Very strange, as when they went back into programming with Coast to Coast which is also carried Coast to Coast, but KVI was a full 6 seconds behind KNRS's feed. It really sounded strange. (DN-UT)
 - 580 KIDO ID, Nampa 5/15 0100 ID and news back into talk show, above & below unID. Poor signal with Drake and RS loop. (GH-OR)
 - 590 KTIE CA, San Bernardino noted for the second time in Utah 5/29 0154 with ad for Private Eye service and ID "KTIE, The Talk of the Inland Empire," then back to Coast to Coast program. (DN-UT)
 - 600 CKBD BC, Vancouver second time heard here, this time with great signal 5/29 0417 with ID's as "Unforgettable 600 AM" and then into another 6 songs in a row. (DN-UT)
 - 610 KCSP MO, Kansas City 5/31 heard this one for all of about 30 seconds. Three other stations battling on the frequency all at the same time paused, so I could hear a clear "KCSP Kansas City" ID then briefly into sports talk at 0715, immediately lost. (DN-UT)
 - KVNU UT, Logan 5/18 2300 children's ad with ABC news and call ID heard, weak with stations competing. (RA-NV)
 - 620 KTAR AZ, Phoenix only the second time heard here in Utah with very good signal. Talking about tonight's game between the Giants and D-Backs and ID as "Nerwsradio 6-20 KTAR." (DN-UT)
 - 630 KFXD ID, Boise maybe not DX, but this is the first time I have been able to null KTKK to get anything else. Tight null and moderately good signal with C&W, "Classic Country AM 630 KFXD" ID at 0021 5/22. (DN-UT)

- 650 CISL BC, Richmond 5/15 0230 oldies with several "C-Isle" ID's, fair signal 80% over KSTE. Surprisingly not often heard. (GH-OR)
+Rare here in Utah due to KMTI. Heard again 5/29 0422 in passing with Beatles, ID, etc. Very weak. (DN-UT)
- 660 CFFR AB, Calgary 5/23 0100 oldies with many "660 CFR" ID's in strong like a local. A regular but seldom this clear. TMC on E-W wire. (GH-OR)
+Another Canadian weathervane of reception. If it overpowers KTNN then it will be a good night for northern reception, which 5/29 was definitely. Noted in passing with oldies 0427. (DN-UT)
- 730 CJWW BC, Vancouver new station here as I have been trying for and finally caught it. It was fighting the Mexican 5/31 0535 but soon lost to its interference. Checked back late on and no sign. Heard with talk and then a story about the playoff hopes of the Calgary Flames. (DN-UT)
- 740 CBX AB, Edmonton first time heard here 5/29 with CBC announcements and instrumental/classical music. Weak, but KCBS almost non-existent. Conditions have changed recently as the 3 big Bay Area stations (KNBR, KCBS and KGO) have all been much weaker than usual. I have been able to hear multiple stations on all of these frequencies lately. (DN-UT)
- 750 KERR MT, Polson 5/29 0430 heard weakly with C&W behind KOAL. First time heard in Utah. (DN-UT)
- 770 KTTH WA, Seattle 5/23 2000 talk show and ID with excellent signal, all by itself. TMC and Sanserino loop. (GH-OR)
CHQR AB, Calgary another strange sounding frequency (like 570) with CHQR and KKOB mixing 50-50 both with Coast to Coast, but this time CHQR about 3 seconds behind KKOB on 5/29. (DN-UT)
- 780 KAZM AZ, Sedona totally on top 5/29 0048 with Arizona Diamondback baseball game wrap-up. I thought they said KAZL but can find no reference to this. "You're listening to Arizona Diamondback baseball on KAZM (or KAZL?) then into many local Sedona and Flagstaff ads. No interference from anyone! (DN-UT)
- 790 KJRB WA, Spokane mixing with KABC but on top for a few minutes 5/31 0545 with sports talk and ID as "This is 7-90, The Fan," soon lost in the mess, mainly KABC this night. (DN-UT)
CFCW AB, Camrose 5/24 0000 C&W music and ID with very weak signal above an almost non-existent KGMI which usually dominated. TMC with E-W wire. (GH-OR)
+I didn't think that this station would be a common occurrence in Utah, but on a good northern night, which it seems like my location enhances as I have a lot of them, CFCW is almost always present. Noted several times in passing 5/29 with C&W and "7-90 CFCW" ID's. (DN-UT)
- 810 CKJS MB, Winnipeg with CBW coming in strong this night and KGO seemingly having problems or at least a weak signal lately thought I would try for this one and there it was, 5/29 0250-0300 with religious music and ID on the hour. KGO just barely there on a different loop angle! (DN-UT)
- 830 KJJR MT, Whitefish 5/18 0000 ID as "KJJR Whitefish, Kalispell, Columbia Falls," news and ad for Midway Motors. Fair on Drake with N-S wire. (GH-OR)
CKKY AB, Wainwright 5/16 0100 C&W music strong, like local at times but trading places with KNCO & Spanish unID, Drake with Sanserino loop. (GH-OR)
- 870 KFLD WA, Pasco 5/19 0020 Fox Sports Net talk program, ID and ad for Enzyte. Fair to poor in & out of the static. Not heard since March. (GH-OR)
- 890 WLS IL, Chicago haven't heard this for years. Noted mixing with CJDC with ID and ABC news at 0359 on 5/29. No sign of St. George tonight. (DN-UT)
CJDC BC, Dawson Creek on top of WLS with Canada news on the hour 5/29 0400, then sports at 0402, nice to hear so well. (DN-UT)
- 900 CKMO BC, Victoria normally I hear CKBI dominant in the Disney splash of 910 here. Turned the loop and heard CKMO but the Disney splash on the new loop angle so horrendous CKMO was barely identifiable. This on 5/29 at 0305 and 0403. Disney stations seem to splash worse than any other type of programming. (DN-UT)
- 910 KRAK CA, Hesperia 5/25 2338-0012+ heard with Mavericks baseball game, "9-10" slogan from announcer before commercial breaks, some ads for Hesperia businesses. Fair to poor signal. KNEW faded in & out with Phil Hendrie, KECL presumed the on in & out with religious program, KGME presumed the one in & out with Fox Sports Radio slogan, and also a Spanish station presumed XEAO. Tough frequency at night. (MF-CA)
- 950 KJR WA, Seattle 5/20 0000 sports talk with ID and ad for World Series of Poker tournament. Fair to good with Drake and RS loop. (GH-OR)
- 960 KABL CA, Oakland 5/22 0048 weak with their typical elevator music under CFAC & KOVO. (DN-UT)
- 980 KFWB CA, Los Angeles 5/17 0011 news reports from FL and CA, heard "KFWB news time is 9:11," traffic update followed. Extremely weak. (RA-NV)
- 990 CBW MB, Winnipeg noted on top of the frequency several times during the night of 5/29. (DN-UT)
- 1040 WHO IA, Des Moines 5/11 0241 fair, trucking company ads and call ID. (RA-NV)
CKST BC, Vancouver 5/31 2245 sports talk and ad for Coastal Ford dealership. Many "The tem 1040" ID's with Hammarlund on E-W wire. (GH-OR)
- 1050 CJNB SK, North Battleford 5/29 0204 way on top with C&W. (DN-UT)
- 1110 KWDB WA, Oak Harbor 5/22 0050-0100 a total surprise here with a completely dominant signal at 11pm local, I show them listed a a 500 watt daytimer. Possibly a test that sounded like regular programming, but many, many ID's and a several minute "Community Calendar" for local businesses in Oak Harbor and vicinity, ID as "1110 AM KWDB." (DN-UT)
- 1130 KFAN MN, Minneapolis logged this one with its 6kw temp. system but with terrible QRM from powerhouse CKWX. Heard one slogan "The Fan" and many ESPN slogans, at regular ID time at top of the hour, signal would fade down so no real ID was possible. I sat on the frequency 0300-0500 5/25. New. I would have no trouble logging this one if it wasn't for CKWX. (PM-OR)
- 1170 KFAQ OK, Tulsa 5/17 0006 fighting through an unID Spanish station and QRM form KSL-1160 with hair growth ad. (RA-NV)
KPUG WA, Bellingham 5/30 0100 news into All Night Show ESPN format, fair signal over Mexican pest probably KLOK. SP-600 on E-W wire. (GH-OR)
- 1210 KNWX WA, Auburn 5/25 0100 ID and ad for Tacoma Art Museum. Fair signal but soon lost to unID Mexican pest. TMC & Sanserino loop. (GH-OR)
- 1230 KOY AZ, Phoenix 6/1 0515 dominating 1230 briefly with ad for KOY "Pets for People" charity "... brought to you as a public service of 1230, KOY." First time heard in So. CA, last heard in San Jose as KFLR I believe, will have to check my logs. (RW-CA)
KINO AZ, Winslow 5/31 0055 with ESPN programming while KOY was off the air. (KR-AZ)
- KSZL CA, Barstow 5/23 2130-2225 news format, CNN news on hour and half hour. Heard while driving through Barstow. (MF-CA)
- KPLY NV, Sparks 6/1 0505 briefly over KYPA and the rest with ID as "12-30 K-Play, Reno's sports authority," then ESPN radio. First time heard in southern California, KHIT-1450 also bombing at the time, so good conditions to Reno! Unneeded, fairly common in San Jose. (RW-CA)
- KOTS NM, Deming 5/31 0100 running top of the hour ID and into the news which sounded like AP news, while KOY was off the air. (KR-AZ)
- 1250 KWSU WA, Pullman 5/22 they were actually rebroadcasting the BBC with English sports, BBC ID's, interviews, etc. Really had me confused and I had to keep checking back again & again until they gave a legal ID on the hour at 0200. (DN-UT)
- 1260 KSUR CA, Beverly Hills first time noted in Utah over/under suspected KSSL. Oldies with many K-SUR 12-60 ID's. 6/3 2230 Peggy Lee, Tony Bennett songs played. (DN-UT)
?KSSL? ID, Idaho Falls suspected but no positive ID heard. KZNI used to be common here. Noted 6/3 2219 with the Jerry Doyle show and SRN news on the half hour. Also later at 2301, probably just missed an ID with "Little Known Facts" spot then back to Jerry Doyle. I will keep trying for a positive ID. (DN-UT)

1260 KOIT CA, San Francisco 5/28 very weak in a total mess at 2300 with ID and local ads. Not too common here. (DN-UT)

1270 ?KJUG? CA, Tulare 5/26 2245 heard in the truck on the other side of town with Visalia Oaks baseball game, in good. Something to watch for at home. (MF-CA)

KNWT CA, Thousand Palms 5/29 2025 sports talk, Fox Sports Radio ID's, ads, ID at 2026. (MF-CA)

CHAT AB, Medicine Hat 5/30 0120 C&W and ad for Randy's Appliance. Fair but choppy, over at least on other unID likely KTFI with Hammarlund on E-W wire. (GH-OR)

1290 KZBN CA, Santa Barbara 5/30 0030 pushing aside the Tucson station and the Mexican XEAP playing NOS and Frank Sinatra and calling itself K-Bob? Lasted about 5 minutes, long enough to hear the change between two songs and what sounded like K-Bob. New, #792. (KR-AZ)

KGVO MT, Missoula noted for first time in Utah 5/29 0331 with religious programming, multiple ID's and spot for the Mormon Church. (DN-UT)

1320 KGDC WA, Walla Walla 5/31 0200 heard faint ID sputtering in and out of the static. Really weak! SP-600 on E-W wire. (GH-OR)

1330 KWKW CA, Los Angeles 5/22 0045 good signal with sports talk in Spanish about the Dodgers. (DN-UT)

1340 KTLK CA, Santa Barbara 5/18 2103 tune in to ABC news, ID and into Savage Nation program. Fair signal, daytime local here. (MF-CA)

KTSN NV, Elko 5/14 0045 female announcer said "... Nevada's Oldies 1340," oldies format in the pileup. New! Drake with Sanserino loop. (GH-OR)

+Decent signal 6/3 2322 with "Oldies 13-40 KTSN" ID and many ads. (DN-UT)

KBBR OR, North Bend 5/31 0130 news(?) or talk show with a very faint ID out in the mix. Seldom heard. Hammarlund with Sanserino loop. (GH-OR)

1350 KTDD CA, San Bernardino 6/3 2238 with decent signal in passing, with "Real Country music is back on 13-50 The Toad." (DN-UT)

1400 KKJL CA, San Luis Obispo battling KSHP 6/3 at 2333 with Giants vs. D-Back baseball game, on Giants Network. (DN-UT)

KSHP NV, North Las Vegas noted briefly 6/3 2330 with several ID's and then into talk program, weak. (DN-UT)

KLCK WA, Goldendale 5/22 0030 ID and oldies in & out of the static, trading places with KNND at times. Fair to poor with Drake on E-W wire. (GH-OR)

1410 KWYO WY, Sheridan 6/3 2239 good signal here with pop music and "AM 14-10 KWYO" ID. (DN-UT)

1420 KUJ WA, Walla Walla first time heard in Utah 5/29 0220 with many local ads for Walla Walla. Good signal. (DN-UT)

1450 KQDI MT, Great Falls I finally DX'd a graveyarder, I hate graveyarders! Noted 5/28 2230 with Mariners baseball and ID. (DN-UT)

KFLS OR, Klamath Falls 5/27 0000 ID and news way out in the static. Really weak above at least one unID. Seldom heard. TMC and RS loop. (GH-OR)

1490 KWAC CA, Bakersfield 5/28 2325-0100 listened to this frequency for over an hour, 2 Spanish stations fighting it out, both with music programs. Heard an ID at 0058:50 using "La Nortena" slogan and call letters in English. Other Spanish station most likely KBKO. (MF-CA)

?KRKC? CA, King City 5/28 2325+ while listening I heard a country fade up for about 30 seconds, only twice during the 1½ hours. CBS news faded up for about 30 seconds at 002:45. (MF-CA)

1560 KKAJ SD, Aberdeen 5/22 heard under very dominant KNZR here. Actually first identifiable station on 1560 other than KNZR since I have been DX'ing in Utah. Poor signal with local weather report at 0205. (DN-UT)

1660 KXOL UT, Brigham City 5/16 2358 ID between two oldies, fair with QRM. First time heard in NV. (RA-NV)

UNID HELP

780 UnID In issue #27 most likely XESS Ensenada, BCN. (MF-CA)

910 KGME AZ, Phoenix is Rene's unID from #28a. Their website is www.xtra910.com (MF-CA)

910 UnID In issue #27 most likely Oakland, CA. I did a search on the internet and there is a Capitol Honda in San Jose. KNEW was heard here last night from 8:38-9:10pm PDT while listening to KRAC. (MF-CA)

1490 KRKC CA, King City most likely Rene's unID from #26. I checked the KRKC website and found out they're country and have CBS news on the hour. See my tentative above. (MF-CA)

UNIDS

610 5/31 briefly caught "6-10 Information Radio" ID at 0629. A real jumble on the frequency but the ID doesn't click with anything I remember hearing. Any ideas? (DN-UT)

910 5/17 0819 ID'ing as "Xtra Sports," into the Wall Street Journal. No 920-KBAD carryover. Which station carries Xtra Sports? (RA-NV)

980 KUSA 5/27 0000 talk program and ID fighting it out with CKNW. Probably a call letter change as I have no listing for them. Does anyone know where this station is located? Fair to poor signal with TMC and RS loop. (GH-OR)

1300 5/18 2310-2312 Station ID'ing as KROP with an FM sister station. Mentioned \$50 can be won by mentioning four songs in a row. Waited for station ID from where it was located. Found no name on AM channel. Where is this one from? (RA-NV)

1690 5/17 2357 with Radio Disney jingles, no ID. Where is this Radio Disney station located? (RA-NV)

By the looks of this column I was wrong last time; the DX season is not winding down yet. Thanks to all the reporters. Nancy 6/6 2100

CENTRAL DX ROUNDUP

John C. Johnson – 265 Waterton Wy – Billings, MT 59102-7755

E-mail: John_Johnson@prodigy.net CDXR reports ONLY: cdxr@prodigy.net

RIDING GAIN

[TMJ-IL] **Tom Jasinski**, Shorewood, IL amdxe@core.com
Drake R8A, Quantum loop.

[NJ-MT] **Nancy Johnson**, Billings, MT NancyJohnson@Prodigy.net
Drake R8B, Kiwa loop.

[JJR-WI] **John J. Rieger**, South Milwaukee, WI JohnJRieger@webtv.net
<http://DX-midAMerica.com> <http://DXMW.com>
Icom IC-R75, Kiwa loop, MFJ959B, GE Superadio III, Terk AM 1000 loop.

DOWN THE DIAL

900 CKBI SK, Prince Albert. 5-28 good this day and 5-29 with CHML nulled and mixed with slight WIBU interference. 04:00 with ID just before top of hour, "News, sports, weather, community news... Country 900 CKBI." Also heard "Serving northern and central Saskatchewan, this is ??? 900 CKBI, a ?local? (or Rosco) radio station." And on 5-29 at 04:00 and 05:00 with country music and ID's. [TMJ-IL]
{Tom, it's "Rawlco" – the owner is Rawlco Communications, Ltd. John}

1130 KFAN MN, Minneapolis. 5-28 very good with CKWX nulled. 22:58 with local spots, "When you hear Chad Hoffman, you're listening to AM 11-30 KFAN Minneapolis, St. Paul" promo and ID into ESPN programming. Thanks to Pat Martin for the tip. [NJ-MT]

1450 WLYV IN, Fort Wayne. 5-26 poor in fade up. 22:30 with legal ID by female announcer. Religious format. [JJR-WI]

25 YEARS AGO

June 16, 1979 issue of IRCA's "DX Monitor" ... **Jim Byrnes** of Rochester, NY said he was 31 and worked at Eastman Kodak ... **Mike Sapp** of Woodbridge, VA said he was 29 and a manager of a McDonald's ... **Bill Nittler** of Naturita, CO told about his moving to Naturita ... **Rick Heald** of San Francisco, CA went to Guadalajara for the Memorial Day weekend.

OPEN MIKE

It looks like the DX season is over. This column was typed 5-29-04. 73, John

EASTERN DX ROUNDUP

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

E-mail: lfreshwater@cox.net

Deadlines are: 6/26, 7/10, 7/24, 8/07

STARS OF THE WEEK

(RCE-IN)	Rick Evans	7416 Hearthstone Way, Indianapolis, IN 46227
(RW-KY)	R.C. Watts	4109 Graf Dr., Louisville, KY 40220 CC Radio, RS Loop
(IEN-GA)	Ira Elbert New	Watkinsville, GA AIWA CSD-FD89, 1996 Isuzu Rodeo, Premium Audio sys. 8200
(HN-GA)	Herb Newberry	107 Trojan Road, Milledgeville, GA 31061 Kenwood R-5000, Quan Loop, 700' L.W.
(PR-PE)	Phil Rafuse	5 Stewart Avenue. Stratford PE C1B 1B1 HQ-129X, Kenwood R-1000, Quantum QX Loop Antenna

LOGGINGS

540	PA	WWCS	Canonsburg, 5/14 2315-2350 fair but mostly poor w/Radio Disney, u/WRRD. (RCE-IN)
	NL	CBT	Grand Falls, 6/10 0112 commentary about upcoming Federal Elections. Strong on HQ129 w/loop. (relay of CBN – CBC Radio One St. Johns. (PR-PE)
560	MN	WEBC	Duluth, 5/15 0305-0312 w/Fox Sports over & mixing with WIND. (RCE-IN)
570	NL	CFCB	Corner Brook, 6/10 0117 ID as "VOCM / CFCB all Newfoundland Radio Network" Fair on HQ129. (PR-PE)
590	NE	KOMJ	Omaha, 5/15 0-200-0248 fair to poor at times w/Magic ID, MYL type music u/even with CJCL/WKZO/WVLK. (RCE-IN)
	ON	CJCL	Toronto, 5/15 0200-0248 fair with sports mixing w/WKZO/WVLK/ KOMJ. (RCE-IN)
	NL	VOCM	St. Johns, 6/10 0127 ID same as CFCB's Strong on HQ129. (PR-PE)
610	QC	CHNC	New Carlisle, 6/10 0135 C&W music and ID in French. (PR-PE)
640	TN	WCRV	Collierville, 5/31 2050 "In Touch" relig. pgm; TOH ID was "WCRV Collierville/Memphis". (IEN-GA)
	NL	CBN	St. Johns, 6/10 0206 ID as "CBC Radio One"; wx; Good on HQ129 with minimal splatter while nulling 630 CFCY PE. Fair on R-1000 with heavy splatter even with nulling CFCY. (PR-PE)
690	AL	WJOX	Birmingham, 6/03 2045 Atlanta Braves BB; Weak and buried in bleed from 680 The Fan. "You're listening o Atlanta Braves on 690 AM WJOX". (IEN-GA)
	VA	WZAP	Bristol, 5/23 2029 Full Legal ID at BOH "owned by Ram Communications of Bristol, VA" then power change at 2030. (HN-GA)
780	NC	WWOL	Forest City, 5/27 1945 GSPL MX; weak, "this is WWOL Forest City North Carolina". (IEN-GA)
810	AL	WNSI	Jacksonville, 6/03 2050 Red Foley song; Decent signal with long deep fades. "Playing real American C&W, Alabama 810". (IEN-GA)
	MO	WHB	Kansas City, 5/28 2115 Decent but not real strong with Royals baseball in WGY null. (RCE-IN)
830	MO	KOTC	Kennett, 5/15 2115-2130 With "Cotton Country" music, good in WCCO null. (RCE-IN)
			+6/02 2207 John Denver songs with long deep fades. "Your listening to Cotton Country, on AM 830: Also hrd on 6/1 at 1945 with a local like signal. (IEN-GA)

840	SC	WCEO	Columbia, 5/27 1950 Replay of Neil Bortz; Strong; "AM 840, WCEO". (IEN-GA)
850	NC	WRBZ	Raleigh, 5/15 1300 Local promo "The Buzz" Also hrd ESPN Network ID's. Poor, new. (HN-GA)
860	GA	WDMG	Douglas 6/03 2105 Atlanta Braves BB. Good signal with bleed from WWL on 870. "WDMG, AM 860, The Game" (IEN-GA)
900	VA	WKDW	Staunton, 5/23 0021 "Your Home for the Hits and Stars that made Country Music on Classic Hit Country, WKDW", into C&W mx. Good for 127 watts. (HN-GA)
910	OH	WLTP	Marietta, 5/29 0200 w/brief ID and what sounded like talk show, poor, ID said Marietta-Parkersburg. (RCE-IN)
	TN	WEPG	South Pittsburgh, 5/28 Off and on all night, noted with some religion. (RCE-IN)
			+5/27 2040 Classic C&W ; "Your listening to "Swap & Shop on WEPG South Pittsburgh, TN". (IEN-GA)
940	MI	WGMV	South Haven, 5/29 0629 strong for a couple of minutes with oldies, then under WMIX. (RCE-IN)
950	GA	WGOV	Valdosta, 6/03 2115 Urban/Hip Hop fare; Stong clean signal with long deep fades. "WGOV, Magic 950 AM. (IEN-GA)
990	TN	WNOX	Knoxville, 5/26 2233 Savage Nation. Strong sig, but faded. "NewTalk 990 WNOX". (IEN-GA)
1070	IN	WIBC	Indianapolis 6/05 2300 Financial pgm into national news. Decent signal mixed with WFLT. "Radio Indiana- WIBC". (IEN-GA)
1090	TN	WHGG	Kingsport, 5/22 0640-0655 ending with news, coming our of 12 songs in a row, contemporary Christian music. (RCE-IN)
1150	IL	WGGH	Marion, 5/29 0450 fair with gospel music. (RCE-IN)
	TN	WGOW	Chattanooga, 5/26 2243 Jim Bohannon Show; Strong w/ slight fading. (IEN-GA)
1220	TN	WCPH	Etowah, 5/26 2250 Music of Your Life; Good sig. (IEN-GA)
1250	AL	WZOB	Fort Payne, 5/26 2300 C&W mx; TOH CNN News; Decent sig but deep fades. "A service of Central Broadcasting WZOB." (IEN-GA)
1280	SC	WANS	Anderson, 5/23 1945 Local promos, over WLCG. (HN-GA)
1290	GA	WCHK	Canton, 5/30 0630 C&W mx; and "The New WCHK". (RCW-KY)
			+5/30 1955 "The New WCHK 1290"; into C&W mx. (HN-GA)
	KY	WCBL	Benton, 5/14 0710 w/news fair. (RCE-IN)
1300	TN	WNQM	Nashville, 5/23 2029 TOH ID; into USA News. New. (HN-GA)
1320	TN	WMSR	Manchester, 5/31 2110 Oldies mx; "Coffey Counties Red Raider station WMSR" and "Groovin 1320" (IEN-GA)
1350	AL	WGAD	Gadsden, 5/21 0705-0710 fair over/even with WLOU with news/ weather/report. (RCE-IN)
1360	WI	WTAQ	Green Bay, 5/14 0638 w/ID, very poor under WCKY. (RCE-IN)
1520	OK	KOMA	Oklahoma City, 6/03 2145 Neal Boortz promo Weak signal competing with WLAC 1510 and WSAI 1530. "Newstalk 1520 KOMA". (IEN-GA)
1550	MO	KAPE	Cape Girardeau, 5/14 0253 fair with oldies. (RCE-IN)
1554	ON	CHIN	Toronto, 5/22 2225 Alternating SS/EE talk. Local phone # new. (HN-GA)

73's and all the best... We welcome new member Phil Rafuse this week with some loggings. Hope to hear from you often Phil!!!! Also thanks to Ira this week..... FRESH 06/13 0930

DX WORLDWIDE - EAST

Brandon Jordan – 4920 Park Ave. – Memphis, TN 38117

E-mail: bjordan@bcdx.org

all times UTC

Another group of fantastic logs from Mark Connelly for this issue.

***** TRANS-ATLANTIC DX *****

531 **ALGERIA** Chaîne 1, Ain-El-Beida, MAY 20 0133 - // 549 with Arabic music; poor, over co-channel Spain and RVC-530 slop. [Connelly*rw-MA]

- 549 **ALGERIA** Chaîne 1, Les Trembles, MAY 20 0132 - // 890.98 with Arabic orchestra and male vocal; HUGE. [Connelly*rw-MA]
- 558 **SPAIN** RNE R.5 synchros, MAY 20 0131 - // 585 with Spanish news by woman; to good peak over WGAN slop. [Connelly*rw-MA]
- 567 **IRELAND** RTE R.1, Tullamore, MAY 20 0130 - // 252 with discussion about Irish immigrants in the USA; slightly over Spain & an unid station. [Connelly*rw-MA]
- 585 **SPAIN** RNE R.1, Madrid, MAY 6 0150 - // 684 with talk; poor. [Connelly*R-MA] + MAY 20 0128 - // 774 with woman in Spanish; good. [Connelly*rw-MA]
- 603 **FRANCE** France Bleu, Lyon, MAY 20 0127 - // 1377 with rock music; poor, over 2 others. [Connelly*rw-MA]
- 612 **MOROCCO** RTM A, Sebaa-Aioun, MAY 20 0125 - Arabic vocal, strings; fair. [Connelly*rw-MA]
- 621 **CANARY ISLANDS // SPAIN** RNE R.1 synchros, Santa Cruz de Tenerife et al., MAY 6 0149 - // 639 with Spanish talk; fair. [Connelly*R-MA]
- 639 **SPAIN** RNE R.1, La Coruna, MAY 6 0149 - // 621 with talk; poor. [Connelly*R-MA]
- 684 **SPAIN** RNE R.1, Sevilla, MAY 6 0148 - man & woman in Spanish; poor to fair. [Connelly*R-MA]
- 756 **GERMANY** DeutschlandRadio, Braunschweig & Ravensburg, MAY 20 0050 - classical piano music; good. [Connelly*rw-MA]
- SPAIN** R. Euskadi, Bilbao, MAY 6 0057 - SP talk; over Germany. [Connelly*R-MA]
- 765 **SWITZERLAND** RSR, Sottens, MAY 20 0046 - "Like a Rolling Stone" by Bob Dylan from '65; to good peak. [Connelly*rw-MA]
- 774 **SPAIN** RNE R.1 synchros, MAY 6 0124 - // 1152 with discussion; poor. [Connelly*R-MA]
- 792 **FRANCE** Limoges, MAY 20 0048 - // 1377 with Aretha Franklin vocal; under Spain. [Connelly*rw-MA]
- SPAIN** SER, Seville, MAY 20 0047 - SER SP news; over France. [Connelly*rw-MA]
- 819 **EGYPT** ERTU, Batra, MAY 6 0145 - Arabic music not parallel to Morocco-612. [Connelly*R-MA]
- 837 **AZORES** Centro Regional da RDP, Pico da Barrosa, MAY 6 0146 - Portuguese talk; in jumble with French, Spanish, and Arabic-sounding stations. [Connelly*R-MA]
- CANARY ISLANDS // SPAIN** COPE synchros, MAY 20 0043 - Spanish teletalk; atop pile. [Connelly*rw-MA]
- 855 **SPAIN** RNE R.1 synchros, MAY 6 0142 - // 1152 with talk; good. [Connelly*R-MA]
- 864 **EGYPT** Holy Koran R., Santah, MAY 20 0035 - Arabic vocal; blowing France away. [Connelly*rw-MA]
- FRANCE** Paris, MAY 6 0142 - French and American pop-rock; dominant. [Connelly*R-MA]
- 873 **SPAIN** SER synchros, MAY 6 0141 - // 1044 with teletalk; fair. [Connelly*R-MA]
- 882 **CANARY ISLANDS // SPAIN** COPE synchros, MAY 6 0140 - Spanish talk; slightly atop the pile. [Connelly*R-MA]
- 890.98 **ALGERIA** Chaîne 1, Algiers, MAY 6 0140 - violin music, Arabic talk by woman (muffled audio); monster S9+25 carrier. [Connelly*R-MA]
- 909 **UNITED KINGDOM** BBC R.5 synchros, MAY 6 0138 - man & woman in English; poor. [Connelly*R-MA]
- 918 **SPAIN** R. Intercontinental, Madrid, MAY 6 0138 - Spanish teletalk; fair over CJCH slop. [Connelly*R-MA]
- 945 **FRANCE** Toulouse, MAY 6 0137 - // 1206 with mellow George Benson type jazz; good. [Connelly*R-MA]
- + MAY 20 0038 - // 1206 with "Man On the Moon" by R.E.M.; good. [Connelly*rw-MA]
- 954 **SPAIN** Onda Cero, Madrid, MAY 6 0137 - SP talk, interview; fair. [Connelly*R-MA]
- 972 **LIBYA** Libyan Jamahiriya BC, Sirte, MAY 20 0038 - Arabic vocal; through Spain and tough WZAN slop. [Connelly*rw-MA]
- 981 **ALGERIA** RTVA Chaîne 2, Algiers, MAY 5 2356 - plaintive female ballad that was almost Celtic-sounding, then into Arabic talk by man; excellent. [Connelly*R-MA]
- 999 **MOROCCO(t)** RTM A, Tanger, MAY 20 0040 - likely this with female, then male, Arabic vocals; under massive COPE-Spain signal. [Connelly*rw-MA]
- SPAIN** COPE, Madrid, MAY 5 2358 - fast Spanish talk & teletalk; very good. [Connelly*R-MA]
- 1008 **CANARY ISLANDS** Onda Cero, Las Palmas, MAY 6 0136 - Spanish talk, teletalk; good, over SER station. [Connelly*R-MA]
- 1044 **MOROCCO** Sebaa-Aioun, MAY 5 2334 - blues-influenced Berber group vocal; at light audio level on good carrier. [Connelly*R-MA]
- + MAY 19 2351 - Koranic vocal; over Spain. [Connelly*rw-MA]
- SPAIN** SER synchros, MAY 6 0118 - // 1287 with Spanish teletalk; very good. [Connelly*R-MA]
- 1071 **SPAIN** Euskadi Irratia, Bilbao, MAY 6 0127 - // 1197 with rock music; good, over CBA slop. [Connelly*R-MA]
- 1098 **SPAIN** RNE R.5 synchros, MAY 6 0116 - // 1305 with Spanish talk with synchro delay echo; good. [Connelly*R-MA]
- 1107 **SPAIN** RNE R.5 synchros, MAY 6 0125 - // 1152 with very echoey Spanish talk by two men; over unID that sounded Arabic (Egypt?). [Connelly*R-MA]
- + MAY 20 0118 - echoey talk // 774, 1152; fair, over Arabic station. [Connelly*rw-MA]
- 1116 **SPAIN** SER synchros, MAY 6 0125 - // 1044 with Spanish teletalk (female presenter), then a piano music interlude; fair to good. [Connelly*R-MA]
- 1125 **SPAIN** RNE R.5 synchros, MAY 20 0118 - // 774, 1152 with Spanish panel discussion; fair, over unID station. [Connelly*rw-MA]
- 1134 **CROATIA** Hrvatski R., Zadar, MAY 5 2336 - soul-style female vocal; over/under Spain. [Connelly*R-MA]
- + MAY 19 2355 - mellow US soul vocal; over Spain. [Connelly*rw-MA]
- SPAIN** COPE synchros, MAY 5 2336 - woman in Spanish; evenly mixed with Croatia. [Connelly*R-MA]
- 1143 **SPAIN** COPE synchros, MAY 6 0124 - // 1224 with Spanish talk; to fair peak over mess. [Connelly*R-MA]
- + MAY 19 2356 - talk; loud. [Connelly*rw-MA]
- 1152 **SPAIN** RNE R.5 synchros, MAY 6 0124 - // 774 with Spanish discussion; good. [Connelly*R-MA]
- + MAY 19 2357 - Spanish talk with a half-second synchro echo delay; good. [Connelly*rw-MA]
- 1161 **SPAIN** Euskadi Irratia, San Sebastian, MAY 20 0113 - bits of Spanish talk; in slop. [Connelly*rw-MA]
- 1170 **unID** MAY 20 0112 - a real mystery here with "Sawa type" pop Arabic music; mixing with nulled WWVA. It soon faded. [Connelly*rw-MA] *See comments below
- 1179 **CANARY ISLANDS // SPAIN** SER synchros, MAY 5 2335 - SER news; to good peak. [Connelly*R-MA]
- 1197 **SPAIN** Euskadi Irratia, Vitoria, MAY 6 0127 - // 1071 with rock music; fair. [Connelly*R-MA]
- 1206 **FRANCE** Bordeaux, MAY 5 2330 - // 1557 with synth-type dance music, then woman in French; good. [Connelly*R-MA]
- + MAY 6 0142 - "Behind Blue Eyes" by the Who; local-like! [Connelly*R-MA]
- 1215 **SPAIN** COPE synchros, MAY 6 0121 - // 1224 with man & woman in Spanish; under UK. [Connelly*R-MA]
- UNITED KINGDOM** Virgin R. synchros, MAY 6 0121 - Coldplay or similar vocal, English talk giving telephone number; slightly over Spain. [Connelly*R-MA]
- 1224 **SPAIN** COPE synchros, MAY 6 0117 - talk // 1296; to good peak. [Connelly*R-MA]
- 1242 **FRANCE** Marseille, MAY 6 0119 - // 1206 with classical music, then woman in French; poor. [Connelly*R-MA]
- 1251 **LIBYA** Libyan Jamahiriya, Tripoli, MAY 5 2328 - man in Arabic; poor to fair. [Connelly*R-MA]
- + MAY 6 0130 - now HUGE with Arabic newstalk. [Connelly*R-MA]
- 1287 **SPAIN** SER synchros, MAY 6 0118 - // 1044 with teletalk; poor to fair. [Connelly*R-MA]
- 1296 **SPAIN** COPE, Valencia, MAY 6 0117 - // 1224 with Spanish talk; fair over rumble. [Connelly*R-MA]
- 1305 **SPAIN** RNE R.5 synchros, MAY 6 0116 - // 1098 with Spanish talk with echo; fair. [Connelly*R-MA]
- 1314 **NORWAY** NRK, Kvitsoy, MAY 20 0108 - man & woman in Norwegian; good. [Connelly*rw-MA]

- 1314 **SPAIN** RNE R.5 synchros, MAY 6 0115 - SP talk; over Norway. [Connelly*R-MA]
 1332 **ITALY** RAI R. Uno synchros, MAY 6 0114 - classical music; fair. [Connelly*R-MA]
 1359 **SPAIN** Arganda, MAY 6 0131 - Spanish talk; in slop. [Connelly*R-MA]
 + MAY 20 0000 - pips, Radio Nacional Espana ID. [Connelly*rw-MA]
 1377 **FRANCE** Lille, MAY 6 0058 - // 1206 with jazz, woman in French; through WMYF slop. [Connelly*R-MA]
 1404 **FRANCE** synchros, MAY 6 0112 - // 1206 with light orchestral music; poor through WIDE-1400 slop. [Connelly*R-MA]
 1413 **SPAIN** RNE R.5 synchros, MAY 6 0057 - echoey Spanish talk. [Connelly*R-MA]
 1422 **ALGERIA** Algiers, MAY 6 0056 - dance-rap music, French talk; dominant. [Connelly*R-MA]
 + MAY 6 0100 - man in French gave timecheck "deux heures", then sign-off with march / anthem; good. [Connelly*R-MA]
 + MAY 20 0049 - Mideast dance club music; way over Germany. [Connelly*rw-MA]
GERMANY DeutschlandRadio, Heusweiler, MAY 6 0111 - classical music piano; fair, now in the clear after Algeria sign-off. [Connelly*R-MA]
 1431 **DJIBOUTI** R. Sawa, Arta, MAY 5 2324 - woman in Arabic; through slop. [Connelly*R-MA]
 + MAY 6 0002 - "Cry Me a River" by Justin Timberlake, then Sawa mentions including Web URL. [Connelly*R-MA]
 + MAY 6 0104 - booming in with "Macarena". Are the Radio Disney programmers involved with Sawa? [Connelly*R-MA]
 + MAY 20 0005 - good with pop dance music. [Connelly*rw-MA]
 1485 **SPAIN** SER synchros, MAY 6 0109 - SP talk; under WBAE slop. [Connelly*R-MA]
 1494 **FRANCE** synchros, MAY 6 0109 - // 1206 with orchestral music; to good peak. [Connelly*R-MA]
 + MAY 20 0105 - // 1377 with FR talk; poor. [Connelly*rw-MA]
 1503 **IRAN** IRIB, Bushehr, MAY 20 0052 - Koranic vocal; breaking over Spain. [Connelly*rw-MA]
SPAIN RNE R.5 synchros, MAY 6 0104 - Spanish news; loud. [Connelly*R-MA]
 + MAY 20 0008 - R. Nacional Espana ID, musical interlude. [Connelly*rw-MA]
 + MAY 20 0033 - // 774 with live version of "Song Sung Blue" by Neil Diamond; good. [Connelly*rw-MA]
 1512 **SAUDI ARABIA** BSKSA, Jeddah, MAY 6 0108 - man in Arabic; good, getting by WWZN. [Connelly*R-MA]
 + MAY 20 0032 - Arabic vocal; over other station. [Connelly*rw-MA]
 1521 **SPAIN** SER, Castellon, MAY 20 0052 - // 1116 with speech, then discussion program. [Connelly*rw-MA]
 1548 **KUWAIT** R. Sawa, Kabd - Kuwait City, MAY 20 0025 - Arabic talk by woman, into Arabic vocal, then Sawa ID & Web URL; good. [Connelly*rw-MA]
 1550 **ALGERIA** RASD Clandestine, Tindouf, MAY 5 2319 - // 7460 with Arabic speech, then loud music interlude; atop WNTN's Haitian Creole. [Connelly*R-MA]
 1557 **FRANCE** Nice, MAY 5 2316 - French light rock with male vocal; good. [Connelly*R-MA]
 + MAY 20 0012 - // 1206 with modern synthesizer-based dance music. [Connelly*rw-MA]
 + MAY 20 0021 - now HUGE; demolishing WQEW. [Connelly*rw-MA]
 1575 **ITALY** RAI R. Uno synchros, MAY 20 0018 - IT talk; atop Spain. [Connelly*rw-MA]
KUWAIT (CLANDESTINE) Al Mustaqbal, MAY 20 0055 - Arabic rock vocal; over Italy, Spain, and something else on this "graveyard-like" channel. [Connelly*rw-MA]
SPAIN SER synchros, MAY 5 2317 - fast SER news w/ slight echo. [Connelly*R-MA]
 1584 **CEUTA** RadiOle, MAY 5 2317 - Spanish vocal & folk guitar; over others. [Connelly*R-MA]
 + MAY 20 0015 - RadiOle mention, then Arabic-influenced Spanish vocal with guitar; over/under SER teletalk. [Connelly*rw-MA]
 1593 **KUWAIT** VOA, MAY 20 0019 - VOA English talk program; poor. [Connelly*rw-MA]
 1602 **SPAIN** R. Vitoria, Vitoria, MAY 20 0020 - teen pop vocal; to good peak. [Connelly*rw-MA]

*** TRANS-ATLANTIC DX ***

- 555 **ST. KITTS & NEVIS** R. ZIZ, Basseterre, MAY 6 0151 - reggae & Afro-pop music, Caribbean-accented male announcer; fair to good. [Connelly*R-MA]
 895 **ST. KITTS & NEVIS** V. of Nevis, Bath Village, MAY 6 0139 - mention of a special program for Mother's Day; good. [Connelly*R-MA]
 1390.34 **unID** MAY 20 0106 - high-side het, possibly of domestic origin. [Connelly*rw-MA]
 1620 **US VIRGIN ISLANDS** WDHP, Fredriksted, St. Croix, MAY 6 0032 - Caribbean - accented local talkshow with man & woman; over Boston Haitian Creole pirate. [Connelly*R-MA]
 + MAY 20 0020 - Carib-accented talkshow mentioned the "VI budget"; loud. [Connelly*rw-MA]

*** CONTRIBUTOR ***

Mark Connolly - MarkWA1ION@aol.com

[Connelly*rw-MA] = Rowley, MA (GC= 70.829 W / 42.745 N) (Stackyard Road / Parker River - Nelson Island wildlife refuge: salt-marsh)
 Antenna system: Beverage-on-Ground (BOG) 152 m / 500 ft. (beamed east), active whip. Receiver: Drake R8A, Superphaser-2 phasing unit.
 [Connelly*R-MA] = Rockport, MA (GC= 70.622 W / 42.667 N) (Granite Pier)
 Antenna system: 2 m x 2 m square broadband loop, 1.8 m active whip. Receiver: Drake R8A, Superphaser-2 phasing unit.

Mark speaks: "Some further information about unID on 1170:

Bengt Ericson <bengt.ericson@telia.com> in Sweden writes:
"Hi Mark, I saw your logging on 1170 kHz with Sawa-sound. It is Radio Farda broadcasting for Iran from UAE. Power was mentioned to be 150 kw, but the station is very strong late at nite here in southern Sweden. Iran has also started a 750 kW station on the same freq o disturb Farda, but they only talk and play Iranian music."

It sounds reasonable since all three Kuwait stations (1548, 1575, and 1593) were propagating in at the time."

That's all for this issue. Good DX everyone! 73, Brandon.

EASTERN DX FORUM

Richard C. Evans - 7416 Hearthstone Wy - Indianapolis IN 46227-7923

E-mail: REvans5435@aol.com

DEADLINES: Sundays

Harry Schools K3HS, 1606 South Kewkirk Street, Philadelphia, Pennsylvania 19145

In response to Doug Nyholm's questions about EKKO stamps in the Western DX Forum last issue, very little information exists on radio verification stamps, except for two articles which have appeared in Popular Communications Magazine (April, 1986 and March, 1995) and a cover story which appeared in the June 4, 1997 issue of Antique Radio Classified. As it turns out, I am in the process of conducting initial research into the area of radio verification stamps with the hope of eventually authoring a book on the subject. Briefly, an article entitled "The New Radio Stamp Fad" appeared in the February, 1925 issue of Radio News Magazine. The classic magazine cover of that particular issue pictured a broadcast band listener donning a set of head phones listening to DX, while at the same time placing EKKO stamps in his album. Two months later, the EKKO Company of Chicago, Illinois ran an ad in the April, 1925 issue depicting their special radio stamp album which could be purchased for \$1.75 (\$2.50 in Canada). It is estimated that over 700 stations in the U.S., Canada, Cuba and Mexico were represented on stamps printed by the American Banknote Company for use by EKKO. However, there were stations that did not participate in the EKKO program and issued their own stamps. Some of these stations included WHAS, WSM, WSB, WJKS, WTIC and KFI. Another lesser known Chicago company which produced verification stamps complete with an album was P.M. Bryant. Unfortunately, very little information exists on their venture into the radio DX field, but I am working on it. In addition to the postage-like stamps issued by EKKO and Bryant, other stations such as KMOX and KGO utilized embossed, gold-colored, gum-back circular foil. In addition to verification stamps, I am also looking into

the various stations which have issued special QSL cards and membership cards to DX'ers such as the KDYL "Night Owls Club", the WDAF "Nighthawks -the Enemies of Sleep", and the CKMO "Midnight Prowlers". If any IRCA member has examples of these types of items I would love to hear from them. The subject of the early days of AM BCB DX is a fascinating one. Unfortunately, much of the paper ephemera related to the subject such as QSL cards, applause cards, postcards, membership cards and verification stamps are gone forever. After eighty years, I suppose most of these items wound up in land fills, were incinerated or were eaten by insects while buried in a dirty attic or basement. I am always searching for these long forgotten items, especially from the time period of 1920 through 1940 when AM BCB DXing was a popular hobby. Once I can gather a sufficient amount of accurate historical information and examples of such items, I will be that much closer to putting a book together for all to enjoy. Good DX....73.

Richard C. Evans, 7416 Hearthstone Way, Indianapolis, Indiana 4627-7923

I found the above to be quite interesting. I remember getting an EKKO stamp back in the middle 1960s from a station in North Dakota and wondering about it. As far as I know, I still have it but have the time right now to dig it out. I know where all those veries are at so it isn't a problem. That was in my early days of DXing and verifying stations while I was still living in Kalamazoo, Mich. Harry, my actual DX days go back to about 1960, but I was fortunate enough back in 1966 to get a collection of DX News (National Radio Club) going back to 1943. They are in boxes out in the garage at the moment, waiting for me to sort thru them and start to scan them into the computer. I also have all of IRCA's bulletins back to the first one in 1964. I joined both clubs during the first half of 1965. I wonder if it would be possible for you to dig up, somehow, the early issues of the NNRC (Newark News Radio Club). I realize the Newark News is out of business, but it is possible the library in Newark would have copies of the paper on microfilm or microfiche for you to go thru. If I remember correctly (and this is something I may have heard decades ago), the early information put out by the NNRC was actually published in the newspaper itself, not in the bulletins that we are familiar with thru IRCA and NRC. One other suggestion might be to visit antique stores and see what might be lingering there. I have run across some old magazines, dating back to right after the big war, dealing with radio programs, plus I do pick up old papers for that collection in the antique places as well. Also, there was a big push perhaps 20 years ago for DX'ers to get stickers thru a NRC member to put on their files so that their radio records and veries would go to a place up in New England which was interested in archiving them. I am pretty sure who it was but I don't want to put his name here without his permission. On the home front, I am now up to 277 heard here from Indy. A lot of thunderstorms here lately, plus the usual weakening of DX conditions has me looking forward to next fall. I have been going thru my records from other locations, checking them out and putting them into the databases. I found out that not all of the Gary stuff has been entered into the computer. I still have the written records so I just have to get the ambition to type some 200 stations into the database. Speaking of that, does anyone know of a website I can use to determine mileages based on latitude/longitude? I am looking for mileages as the radio signal travels, not road miles which we would drive which can be way off sometimes. Somewhere, I have an old disc for PC Atlas but it is DOS-based so I expect I would have trouble running it on the Windows XP (home) I now use. Thanks for any help you can pass along on that. I have the coordinates that I need for the stations. It's just the next step which is missing right now. I can be reached at both REvans5435@aol.com or IRCAEDXF@aol.com. Next column deadline should be 6/27. 73.

IRCA TECHNICAL COLUMN

Nick Hall-Patch – 1538 Amphion St – Victoria, BC, Canada V8R 4Z6
E-mail: nhp@ieee.org

An Evaluation of Commercially Available Signal Splitters by Bill Bowers and John Bryant - May 2004

In recent years, increasing numbers of radio hobbyists have wished to attach multiple receivers to the same antenna. This need may stem from a group wishing to share a single antenna on a DXpedition to a remote site, or it may be a single hobbyist wishing to operate

two or more receivers simultaneously. In any case, many of us have found out that simply using a stub of wire to hook the antenna ports of two or more receivers to the same antenna is an invitation to all sorts of problems. One of the funnier problems can occur if one of several receivers hooked together presents significantly lower impedance to the antenna than pbythebeverage antenna, Kirk and John spent a frustrating half-night wondering why Mitch's old receiver was so much superior to their more modern gear: they eventually realized that Mitch's old receiver was literally sucking up all of their DX! A second common occurrence when hooking multiple receivers together is that spurious radiations/local oscillator signals from one receiver can use the common antenna lead as a pathway to enter the other receivers sharing the antenna; this can cause serious but difficult to recognize interference or partial loss of signal. For all of these reasons and more, if you wish to operate two or more receivers, simultaneously, you will need to use a device called variously, an antenna splitter, a signal splitter or a power splitter: when referring to a receiving antenna device, most people use these three terms interchangeably.

Most signal splitters are based on a fundamental building block which is a transformer-like device that accepts a single signal stream and splits it into two identical parts that are each (by the laws of physics) diminished in strength by about 3 dB, minimum. Usually, these transformer-like devices consist of a ferrite core and windings of fine wire and this building block may be diagrammed as an upside-down capital letter "Y." Antenna splitters that offer four output ports are usually simply three "building blocks" arranged in a cascade fashion, where the first unit splits the signal into two halves, which are then fed into a second rank of two splitters; those second rank splitters divide the half signals into halves again, creating four identical signals of further diminished strength. Since each transformation/splitting incurs about 3 dB of loss, it is easy to see why most splitters of four output ports or more also include RF amplification.

The first antenna splitters that many of us saw were rather expensive and complex devices built with vacuum tube technology. These devices, usually purchased used from government surplus property outlets, often support 8 or 16 receivers simultaneously and contained sophisticated RF amplifiers, as well. In more recent times, smaller-scale solid-state splitters have become available commercially, intended for both the professional and serious hobbyist markets. The most commonly available splitters are 2-port, unamplified units. However, 4-port units, either with or without internal amplification are also currently available and two of the three splitter manufacturers produce a bewildering array of splitters suited for many professional communications uses.

To our knowledge no technical comparisons of these rather costly devices have been published. Since both of us were interested in either purchasing splitters or building them from scratch, we recently undertook to evaluate what was available on the market. Happily, Bill Bowers owns a highly sophisticated array of test equipment and possesses the professional knowledge to operate it. John Bryant served as cheerleader and scribe of the project.

THE SPLITTERS

Ideally, we would all be using antennas that have 50 ohms impedance, which would couple to feed lines having 50 ohm impedance that would, in turn, match the 50 ohm input impedance of our receivers. We recently published a study similar to this one which outlined tests of the impedance transformers necessary to match several forms of wire antennas (often from 200 to 2000 ohm impedance according to type and size) to feed lines that are nominally at 50 ohm impedance. All of the splitters evaluated in this study are meant to be used within 50-ohm antenna systems.

Since the internal circuitry of most large splitter units are simply multiple two-port circuits which are cascaded to make, 4, 8 or 16 port units, we chose to concentrate our effort on three commercially available two-port units. We also included one home-built two-port unit that was based on a design originally received from Sam Dellitt in Australia that has been published rather widely in the hobby press. In the initial testing, Bill also included one passive four-port splitter (Mini-Circuits Model ZSC-4-3B) and one six-port splitter, Model MCL, which appears to actually be a Mini-Circuits Model ZFSC-6-110. These latter two were obtained in used condition from an on-line auction.



Stridsberg MC-102

Model MC-102 was purchased directly from Stridsberg Engineering, 345 Albert Avenue, Shreveport, LA 71105, (318) 861-0660, FAX: (318) 861-7068 (www.stridsberg.com). The current retail price (2004) is \$65 plus S&H. Frequency coverage, as listed by the manufacturer is 100 kHz to 500 MHz. The Stridsberg unit is exceptionally well finished and is the largest of the three commercial splitters, measuring about 5"W x3"D x1.5"H, counting the ports. The company welcomes telephone orders, for even a single unit, and does ship overseas.



RF SYSTEMS SP-1

The RF Systems Model SP-1 is available from several hobby sources around the world. Our test unit was purchased for \$89.95 plus S&H from our friends at Universal Radio in Reynoldsberg, OH. They accept web orders at <http://www.universal-radio.com/catalog/preamps.html> or sell to hobbyists by phone at 1-800-431-3939 (Orders & Prices Only) and also ship overseas. RF Systems lists frequency coverage as 50 kHz to 30 MHz. As you will note from the photograph, the SP-1 comes with SO-239 ports, so adapters were used to fit the unit to Bill's BNC-equipped test gear. The box itself is about 1" square and 4" long. However, with adapters to BNC fittings, it occupies about 4"x 4"x1" of space.



Mini-Circuits ZSC-2-2

The Mini-Circuits Model ZSC-2-2 was purchased directly from the Mini-Circuit sales office in Missouri (phone: 718-934-4500, fax: 718-332-4661) for \$52.95 plus shipping and handling. Mini-Circuits lists frequency coverage as 2 kHz to 60 MHz. Despite being the largest of the three organizations and being primarily committed to the governmental and commercial markets, they specifically welcome small orders from hobbyists. They do ship overseas. They also provide excellent technical information about their products, but no ordering capability, at www.minicircuits.com. The Mini-Circuits splitter is the most compact of the three, measuring 2.25"W x 1.5"D x 1.6"D, including the ports.

THE TESTS

The following characteristics were measured over a range of frequencies¹ from 150 kHz to 13 MHz.

ANTENNA IMPEDANCE MATCH: This is the impedance that will terminate the coax lead in cable from the antenna. The RG-58 has a characteristic impedance of 50 Ohms and if the antenna port of the splitter has an impedance other than 50 Ohms, part of the signal will be reflected back to the antenna. The greater the impedance of the antenna port differs from 50 Ohms, the greater will be the signal loss. The amount of loss is rather complex and the total

loss also depends on the length and attenuation of the coax. This impedance was measured at the antenna port with all receiver ports terminated in 50 ohms, resistive. *The ideal splitter would present 50 Ohms at the antenna port.*

Antenna Impedance Match

	MC-102	SP-1	ZSC-2-2	ZSC-4-3B	ZFSC-6	Home brew
F	Z	Z	Z	Z	Z	Z
MHz	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.15	25.02	24.97	55.22	43.83	37.85	57.05
0.25	25.01	24.97	54.73	45.87	42.50	57.28
0.5	25.02	24.98	54.77	46.97	44.89	57.79
1.0	25.04	25.00	54.86	47.43	45.76	58.99
1.5	25.05	25.01	54.97	47.92	46.25	60.23
2.0	25.06	25.01	55.08	48.22	46.61	61.45
2.5	25.06	25.01	55.19	48.43	46.88	62.71
3.0	25.06	25.00	55.28	48.57	47.07	64.03
5.0	25.01	24.95	55.58	48.83	47.44	70.28
10.0	24.72	24.65	55.63	48.44	47.27	91.37
13.0	24.40	24.33	55.23	47.88	46.80	107.0

RECEIVER IMPEDANCE MATCH: *This impedance, in an ideal splitter, should also be 50 Ohms to match the 50 Ohm impedance of the receiver antenna terminal.* The mismatch here is not quite as important as there is usually a very short cable between the splitter and the receiver. This measurement was made at a receiver port when the other receiver port and the antenna port terminated in 50 Ohms, resistive.

Receiver Impedance Match

	MC-102	SP-1	ZSC-2-2	ZSC-4-3B	ZFSC=6	Home brew
F	Z	Z	Z	Z	Z	Z
MHz	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.15	71.45	70.33	48.52	39.15	25.35	44.74
0.25	80.42	81.20	48.52	42.44	32.71	44.84
0.5	85.53	90.31	48.54	44.24	38.66	48.24
1.0	89.03	94.43	48.60	45.05	40.82	45.73
1.5	91.12	95.69	48.65	45.57	41.73	46.37
2.0	92.35	96.18	48.17	45.97	42.42	46.98
2.5	93.11	96.43	48.75	46.27	42.95	47.60
3.0	93.57	96.58	48.80	46.46	43.36	48.24
5.0	94.20	96.69	48.92	46.78	44.15	51.17
10.0	93.34	95.41	48.78	46.34	44.10	60.35
13.0	92.46	93.94	48.42	45.71	43.59	66.36

SIGNAL ATTENUATION: The attenuation of a signal, from a 50 Ohm source, as it passes from the antenna port to one of the splitter receiver ports. The other receiver port(s) are terminated in 50 Ohms, resistive. *The attenuation of a signal, when it is split 2 ways, in an ideal splitter would be 3db, when split 4 ways is 6 db, etc.*

Signal Attenuation

	MC-102	SP-1	ZSC-2-2	ZSC-4-3B	ZFSC-6	Home brew
F	α	α	α	α	α	α
MHz	-db	-db	-db	-db	-db	-db
0.15	3.52	3.52	3.10	6.39	8.76	3.10
0.25	3.51	3.53	3.10	6.31	8.41	3.11
0.5	3.52	3.53	3.10	6.29	8.26	3.14
1.0	3.52	3.53	3.11	6.27	8.22	3.23
1.5	3.52	3.53	3.12	6.25	8.18	3.31

¹ Bill's test instrumentation covered the frequency ranges, 150 kHz to 13 MHz, so our 11 test points fell within that range. We believe that it is safe to extrapolate the results up to 15 or 20 MHz, to cover most of the bands of interest to our readers. The equipment: HP-4192A, HP-11048C, AG-04192-61001, HP-3456A, and a Fluke-8922A. Test voltage = 0.10Volt.

2.0	3.53	3.53	3.13	6.22	8.15	3.39
2.5	3.53	3.54	3.14	6.21	8.13	3.46
3.0	3.53	3.54	3.15	6.20	8.11	3.53
5.0	3.54	3.55	3.18	6.19	8.08	3.86
10.0	3.55	3.57	3.24	6.18	8.07	4.88
13.0	3.56	3.58	3.27	6.18	8.07	5.58

SIGNAL ISOLATION: The local oscillator of a receiver radiates back out the antenna connection and thus into the splitter. To prevent one receiver's oscillator from interfering with the signal going into the other receiver connected to the splitter, it is desirable to have as much signal isolation as possible. *The larger the signal isolation the better.* For this test, the attenuation, from a 50 Ohm source connected to a receiver port, was measured at another receiver port. All receiver ports and the antenna port were terminated in 50 Ohms, resistive.

Signal Isolation

	MC-102	SP-1	ZSC-2-2	ZSC-4-3B	ZFSC=6	Home brew
F	α	α	α	α	α	α
MHz	-db	-db	-db	-db	-db	-db
0.15	11.58	11.29	39.85	53.90	20.26	32.43
0.25	15.06	14.55	39.89	57.44	22.09	33.75
0.5	18.93	19.40	39.89	60.71	26.25	32.75
1.0	22.01	24.46	39.56	60.54	29.73	29.55
1.5	24.10	27.38	39.15	58.90	30.96	27.25
2.0	25.64	29.37	38.62	57.38	31.75	25.50
2.5	26.85	30.85	38.02	56.03	32.33	24.09
3.0	27.85	32.01	37.42	54.83	32.85	22.88
5.0	30.25	35.24	35.13	51.28	34.20	19.47
10.0	32.09	37.55	31.05	46.00	35.19	15.10
13.0	32.05	36.43	29.40	43.96	35.32	13.72

IMPEDANCE ISOLATION: The antenna input impedance of a receiver with a "coax connection" is nominally 50 ohms when it is tuned to the incoming signal. Some receivers show an impedance as low as 10 ohms at frequencies other than the one to which the receiver is tuned. This 10 Ohm load at one receiver port of the splitter can upset the impedance seen at the other port. *Here again the ideal splitter would continue to present 50 Ohms impedance even when the other port is loaded with 10 Ohms.* This measurement was made at one receiver port as the impedance at one of the other receiver ports was reduced from 50 to 10 Ohms, resistive.

Impedance Isolation

	MC-102	SP-1	ZSC-2-2	ZSC-4-3B	ZFSC-6	Home brew
F	Z	Z	Z	Z	Z	Z
MHz	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.15	73.88	72.89	48.51	39.10	25.17	44.96
0.25	81.58	83.18	48.51	42.48	32.66	47.86
0.5	85.76	91.98	48.53	44.25	38.66	45.28
1.0	89.12	94.83	48.58	45.05	40.81	45.93
1.5	91.19	95.83	48.64	45.58	41.71	46.58
2.0	92.39	96.25	48.70	45.98	42.41	47.22
2.5	93.12	96.47	48.75	46.28	42.94	47.85
3.0	93.56	96.60	48.80	46.46	43.34	45.51
5.0	94.17	96.69	48.92	46.78	44.14	51.44
10.0	93.28	95.35	48.82	46.33	44.09	59.68
13.0	91.99	93.89	48.49	45.70	43.57	64.56

TOTAL LOSS: This is the total loss of signal as it passes from the antenna through 100 feet of RG-58A/U coax and a signal splitter. A measured signal, (-20dbm) is fed into the coax at the antenna end and the strength of the signal at the receiver end was measured with a Fluke

8922A RF voltmeter. *This is a comparison of the quality of the splitters under typical conditions.*

Total Loss (6)

	MC-102	SP-1	ZSC-2-2	Home brew
F	Loss	Loss	Loss	Loss
MHz	-db	-db	-db	-db
0.15	3.55	3.53	3.35	3.29
0.25	3.58	3.59	3.32	3.37
0.5	3.84	3.74	3.40	3.50
1.0	4.09	4.10	3.50	3.68
1.5	4.27	4.27	3.59	3.78
2.0	4.23	4.23	3.70	3.91
2.5	4.13	4.14	3.79	4.13
3.0	4.14	4.17	3.88	4.34
5.0	4.56	4.60	4.14	4.68
10.0	5.06	5.08	4.62	6.11
13.0	5.26	5.29	4.88	6.92

DISCUSSION²

One area of some concern was noted in the Signal Isolation tests: the relatively poor performance of the Stridsberg and RF Systems units at the lower end of medium and long wave frequencies. While this would be of little concern to shortwave DXers and most radio amateurs, people with interests in the regions below 1 MHz. should take note. We were both surprised at the impedance mismatches exhibited by both the MC-102 and the SP-1 in tests 1, 2, and 5. In some cases, these mismatches reached 100%. However, *the measured signal losses of all three units are very nearly equal*, reminding us again how forgiving receiving-only devices are of mismatches.

The last test, Total Loss, is really the bottom line. It indicates that, for most uses, there is really no significant difference between the three commercial products and that a selection could be made based on price and availability. However, for the "extreme DXer" who may be unwilling to give up even half a decibel of signal, or for some technical applications, the Mini-Circuits ZSC-2-2 was clearly the best in all measured characteristics. The home-brew splitter was the second best in most tests below 5 MHz. Its performance encourages us to undertake a second project, in the very near future, to develop further the homebrew design.

VERIFICATION SIGNERS

Stephen S. Howe – 9 Warner Drive – St. Albans, VT 05478-1575
E-mail: showe@csc.albany.edu

My deadline is the last Monday of the month.

CONTRIBUTORS

PM **Patrick Martin**, P O Box 843, Seaside OR 97138-0843; mwdxer@webtv.net
DN **Doug Nyholm**, 2336 Autumn Ridge Dr, Sandy UT 84092; dougnholm@msn.com
MS **Mike Sanburn**, P O Box 1256, Bellflower CA 90707-1256; mikesanburn@hotmail.com
RCW **R C Watts**; Louisville, KY; coloneldx@webtv.net

² The measured values of Z were actually complex, not purely resistive. The impedance phase angles were, however, very small in most cases, and we feel that including those angles would have been more confusing than helpful. For instance, the largest impedance phase angle for the Mini-Circuit ZSC-2-2 was less than 2 degrees over the entire frequency range. For all practical purposes, the tabulated values of Z can be considered resistive.

FREQ	CALL	NAME, TITLE; ADDRESS; WHAT; WHEN; WHO
610	CKYL	Jody Broome, Administration; Bag 300, Peace River AB T8S 1T5; LB+; 30; DN
730	KBSU	[None]; Boise State Radio, 1910 University Dr, Boise ID 83725-1915; B+; 30; DN
830	KXME	Kent Kramer, DirEng; 15301 Ventura Blvd, Suite 210, Sherman Oaks CA 91403; LBbc; 60; DN
1188	JOKP*	[None]; Kitami, Japan; Q; 14; DN
1220	KSFB	[None]; 39138 Fremont Blvd, 3 rd Floor, Fremont CA 94538; L; 50; DN
1240	KEVA	Michael J. Richard, QSL/DX Test Coord; P O Box 190, 568 Airport Rd, Evanston WY 82930; Q; 45; PM
1240	KEVA	Michael J. Richard, QSL/DX Test Coord; P O Box 190, 568 Airport Rd, Evanston WY 82930; Q; 32; MS
1300	KKOL**	Richard Harris, Contract Eng; Salem Radio Seattle, 2815 Second Ave, Seattle WA 98121; LM; 31; PM
1360	KPXQ	[None]; 2425 E Camelback Rd, Suite 570, Phoenix AZ 85016; MB; 55; DN
1470	KIID	[Illegible]; 8842 Quail Lane, Granite Bay CA 95746; MB; 25; DN
1490	WFKY	David Blankenship [KE4UKG], News and Public Affairs Dir; 115 West Main St, Frankfort KY 40601; Q; 5; RCW
1590	KLFE**	Richard B Harris, Corporate Projects Eng; Inspiration Media, Inc., 2815 Second Ave, Suite 550, Seattle WA 98121; LM; 25; DN
1650	KCNZ	Janelle Rench, OffMgr; 721 Shirley St, Cedar Falls IA 50613-0768; LM; 45; DN

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

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

NOTES: * [For this column] = See comment below; ** [For this column] = See comment below

Doug's reception report for JOKP-1188 was sent to the NHK address in the WRTH, and that office forwarded it to NHK Kitami; the return address was entirely in Japanese. Patrick received his second verification from KKOL-1300, this one confirming reception of their broadcast from their ship. This signer is the same for Doug's verie from KLFE-1590, as well as for KGNW-820, KKMO-1360, and KTFH-1680. This column was prepared on 5/31/04. 73, SSH.

SPORTS ON RADIO

Compiled by: **O Howit Hertz**

E-mail: artngwen@calweb.com

DUKE UNIVERSITY

590 WCAB Rutherfordton, NC	1260 WZBO Edenton, NC
620 WDNC Durham, NC (Flagship)	1350 WWRN Black Mountain, NC (?)
730 WOHS Shelby, NC	1440 WLXN Lexington, NC
850 WRBZ Raleigh, NC	1450 WGNC Gastonia, NC
900 WAYN Rockingham, NC	1490 WSTP Salisbury, NC
910 WWWW Roanoke, VA	1580 WZKY Albemarle, NC
990 WEEB Southern Pines, NC	1590 WCSL Cherryville, NC
990 WNRV Narrows-Pearisburg, VA	96.7 WKRX Roxboro, NC
1050 WBRG Lynchburg, VA	100.7 WZJS Banner Elk, NC
1050 WLON Lincolnton, NC	104.5 WCCG Hope Mills, NC
1150 WBAG Burlington-Graham, NC	106.1 WNMX Waxhaw, NC
1240 WCNC Elizabeth City, NC	107.9 WNCT Greenville, NC

MIAMI OF OHIO

1330 WFIN Findlay, OH
1360 WCKY Cincinnati, OH
1450 WMOH Hamilton, OH (Flagship)
1580 WVKO Columbus, OH

OHIO UNIVERSITY

630 WJAW St. Marys, WV
850 WKNR Cleveland, OH
910 WLTP Parkersburg, WV (?)
1340 WCMI Ashland, KY
1370 WVLY Moundsville, WV

SYRACUSE UNIVERSITY

540 WLIE Islip, NY (Night Football Only)
620 WVMT Burlington, VT
810 WGY Schenectady, NY
950 WIBX Utica, NY
1050 WYBG Massena, NY
1180 WHAM Rochester, NY
1240 WGVA Geneva, NY
1250 WMTR Morristown, NJ (Football Only)
1260 WNSS Syracuse, NY (Flagship)
1290 WNBK Binghamton, NY

UNIVERSITY OF NEW HAMPSHIRE

1270 WTSN Dover, NH (Flagship)
1370 WFEA Manchester, NH
1480 WNBX Springfield, VT

UNIVERSITY OF VERMONT CATAMOUNT

620 WVMT Burlington, VT

DA PRO FOOTBALL

ATLANTA FALCONS

ANNOUNCERS: Jeff Hullinger, Jeff Van Note, Chuck Smith, & Dave Archer (Pre game and post game shows)

540 WDAK Columbus, GA
550 WDUN Gainesville, GA
720 WVCC Hogansville, GA
790 WSNB Brunswick, GA
940 WMAC Macon, GA
960 WRFC Athens, GA
1240 WGGA Gainesville, GA
1250 WSRA Albany, GA
1290 WTKS Savannah, GA
1330 WJJC Commerce, GA
1340 WINZ Augusta, GA
1350 WFNS Blackshear, GA
1350 WNNP Warner Robins, GA
1370 WLOP Jesup, GA
1400 WKDY Spartanburg, SC
1420 WPEH Louisville, GA
1450 WFFX Meridian, MS
1450 WMVG Milledgeville, GA

88.5 WMUB Oxford, OH (Hawk Tawk only)
96.7 WBVI Fostoria, OH
101.3 WFMG Richmond, IN

92.1 WYVK Middleport, OH
96.7 WKOV Wellston, OH
100.9 WJAW McConnellsville, OH
103.1 WRAC West Union, OH
105.5 WXTQ Athens, OH

1400 WSLB Ogdensburg, NY
1410 WELM Elmira, NY
1420 WACK Newark, NY
1590 WAUB Auburn, NY

95.7 WAQX Manlius, NY
99.9 WIII Cortland, NY
103.1 WTOJ Carthage, NY
107.7 WLLK Wethersfield Township, NY (?)

99.7 WNTK New London, NH
107.7 WTPL Hillsboro, NH

1230 WJOY Burlington, VT

1450 WVLD Valdosta, GA
1490 WSNT Sandersville, GA
1590 WTGA Thomaston, GA

92.1 WPEH Louisville, GA
92.9 WZGC Atlanta, GA (Flagship)
94.1 WQBT Savannah, GA
94.9 WHKN Millen, GA
97.7 WKCX Rome, GA
98.1 WMGP La Grange, GA
99.9 WSNT Sandersville, GA
100.1 WNSY Talking Rock, GA
101.1 WTGA Thomaston, GA
101.7 WYUM Mount Vernon, GA
104.3 WKHC Dahlonga, GA
104.9 WCCP Clemson, SC
105.5 WIFO Jesup, GA
107.3 WCLA Claxton, GA



CAROLINA PANTHERS

ANNOUNCERS: Bill Rosinski, Eugene Robinson, Jim Szoke, and David Langton

560 WVOC Columbia, SC
 570 WWNC Asheville, NC
 590 WCAB Rutherfordton, NC
 630 WMFD Wilmington, NC
 730 WOHS Shelby, NC
 850 WRBZ Raleigh, NC
 920 WYMB Manning, SC
 960 WRNS Kinston, NC
 1010 WSPC Albemarle, NC
 1050 WIQB Conway, SC
 1050 WLON Lincolnton, NC
 1200 WXIT Blowing Rock, NC
 1230 WNNC Newton, NC
 1240 WJNC Jacksonville, NC
 1250 WGHB Farmville, NC
 1250 WKDX Hamlet, NC
 1260 WKXR Asheboro, NC
 1270 WTJZ Newport News, VA
 1340 WQSC Charleston, SC
 1400 WCOS Columbia, SC
 1400 WKDY Spartanburg, SC
 1400 WSIC Statesville, NC
 1410 WPCC Clinton, SC

1430 WKEX Blacksburg, VA
 1450 WGNC Gastonia, NC
 1450 WHKP Hendersonville, NC
 1450 WHSC Hartsville, SC
 1500 WEAC Gaffney, SC
 1590 WCSL Cherryville, NC
 1600 WFIS Fountain Inn, SC

93.7 WXJY Georgetown, SC
 93.9 WJXY Conway, SC
 99.7 WRFX Kannapolis, NC
 100.1 WWFN Lake City, SC
 100.3 WVBZ High Point, NC
 102.3 WECR Beech Mountain, NC
 102.7 WPUB Camden, SC
 103.3 WKVS Lenoir, NC
 104.9 WCCP Clemson, SC
 105.1 KPEL Abbeville, LA
 107.1 WRHM Lancaster, SC
 107.3 WTKF Atlantic, NC
 107.3 WVSZ Chesterfield, SC
 107.7 WUKS Saint Pauls, NC

CLEVELAND BROWNS

ANNOUNCERS: Jim Donovan & Doug Dieken

570 WKBN Youngstown, OH
 630 WJAW Marietta, OH
 630 WLAP Lexington, KY
 790 WHTH Heath, OH
 930 WEOL Elyria, OH
 970 WATH Athens, OH
 970 WFUN Ashtabula, OH
 980 WONE Dayton, OH
 1040 WYSL Avon, NY
 1100 WTAM Cleveland, OH
 1240 WHIZ Zanesville, OH
 1260 WNXT Portsmouth, OH
 1300 WMVO Mount Vernon, OH
 1340 WNCO Ashland, OH
 1350 WCHI Chillicothe, OH
 1370 WWCB Corry, PA
 1400 WJET Erie, PA
 1400 WMAN Mansfield, OH
 1430 WFOB Fostoria, OH
 1450 WJER Dover-New Philadelphia, OH

1450 WLEC Sandusky, OH
 1460 WBKC Painesville, OH
 1480 WHBC Canton, OH
 1480 WLEA Hornell, NY
 1490 WMRN Marion, OH
 1590 WAKR Akron, OH

92.7 WQEL Bucyrus, OH
 93.3 WNCB Youngstown, OH
 94.3 WKKI Celina, OH
 98.1 WDFM Defiance, OH
 99.3 WNXT Portsmouth, OH
 100.7 WMMS Cleveland, OH (Flagship)
 100.9 WJAW McConnelsville, OH
 100.9 WMJK Clyde, OH
 104.5 WQKT Wooster, OH
 104.7 WIOT Toledo, OH
 105.7 WFJX Hilliard, OH
 106.3 WBUK Ottawa, OH
 106.7 WCDK Cadiz, OH

DALLAS COWBOYS

ANNOUNCERS: Brad Sham, Babe Laufenberg, and Kristi Scales

550 KTSA San Antonio, TX
 560 KLVI Beaumont, TX
 600 KROD El Paso, TX
 600 KTBB Tyler, TX
 610 KNML Albuquerque, NM
 640 WWLS Moore, OK
 690 KPET Lamesa, TX
 710 KGNC Amarillo, TX

710 KURV Edinburg, TX
 850 KPAN Hereford, TX
 910 KNAF Fredricksburg, TX
 950 KJTV Lubbock, TX
 1230 KERV Kerrville, TX
 1230 KSST Sulphur Springs, TX
 1240 KASO Minden, LA
 1240 KVSO Ardmore, OK

1240 KXOX Sweetwater, OK
 1260 KKSA San Angelo, TX
 1290 KWFS Wichita Falls, TX
 1300 KSYB Shreveport, LA (?)
 1300 KVET Austin, TX
 1380 KBWD Brownwood, TX
 1400 KVOU Uvalde, TX
 1400 KVRP Haskell, TX
 1430 KEES Longview, TX
 1430 KTBZ Tulsa, OK
 1440 KEYS Corpus Christi, TX
 1450 KCTI Gonzales, TX
 1450 KMBL Junction, TX
 1510 KSTV Stephenville, TX
 1550 KCOM Comanche, TX
 1580 KRZI Waco, TX
 1620 WTAW College Station, TX
 1660 KRZX Waco, TX

88.1 KHOY Laredo, TX
 92.1 KHOS Sonora, TX
 92.3 KCUL Marshall, TX

92.5 KBey Burnet, TX
 94.3 KYXX Ozona, TX
 94.9 KBIM Roswell, NM
 95.3 KNEL Brady, TX
 95.7 KBST Big Spring, TX
 96.7 KXOX Sweetwater, OK
 97.1 KVRP Haskell, TX
 97.7 KATX Eastland, TX
 98.3 KPTX Pecos, TX
 98.7 KLUV Dallas, TX (Flagship)
 99.1 KHKX Odessa, TX
 101.9 KWFR San Angelo, TX
 102.3 KWFS Wichita Falls, TX
 102.7 KHXS Merkel, TX
 104.3 KGAS Carthage, TX
 104.5 KKFG Bloomfield, TX
 104.9 KRIG Nowata, OK
 106.1 KBAL San Saba, TX
 106.3 KPAN Hereford, TX
 107.7 KTBQ Nacogdoches, TX

HOUSTON TEXANS

ANNOUNCERS: Mark Vandermeer & Andre Ware

610 KILT Houston, TX (Flagship)
 910 KNAF Fredricksburg, TX
 760 KTKR San Antonio, TX
 800 KDFO Bakersfield, CA
 930 KDET Center, TX
 940 KTFS Texarkana, TX
 960 KGKL San Angelo, TX
 1150 KZNE College Station, TX
 1240 KSXO Raymondville, TX
 1240 KVLV Alpine, TX
 1280 KWHI Brenham, TX
 1300 KSET Silsbee, TX
 1310 KEZM Sulphur, LA
 1340 KBey Burnet, TX (?)
 1370 KJCE Rollingwood, TX
 1400 KTEM Temple, TX
 1420 KGNB New Braunfels, TX
 1440 KPUR Amarillo, TX
 1450 KIKR Beaumont, TX
 1450 KMHT Marshall, TX

1490 KWUD Woodville, TX
 1590 KGAS Carthage, TX
 1600 KOGT Orange, TX
 1600 KZNE College Station, TX

93.5 KBHT Crockett, TX
 94.1 KAJI Point Comfort, TX
 94.3 KBTS Big Spring, TX
 95.3 KFRO Gilmer, TX
 96.9 KMCM Odessa, TX
 98.3 KULM Columbus, TX
 99.9 KSHN Liberty, TX
 100.1 KUEZ Lufkin, TX
 100.3 KILT Houston, TX (Flagship)
 100.3 KXAL Tatum, TX
 100.5 KQBB Center, TX
 101.3 KNCN Sinton, TX
 103.1 KDVE Pittsburg, TX
 106.1 KBAL San Saba, TX

NEW ENGLAND PATRIOTS

ANNOUNCERS: Gil Santos & Gino Cappelletti

610 WGIR Manchester, NH
 790 WSKO Providence, RI
 960 WDEV Waterbury, VT
 1220 WZBK Keene, NH
 1350 WINY Putnam, CT
 1400 WEZW Augusta, ME (?)
 1400 WTSL Hanover, NH
 1400 WVAE Biddeford, ME
 1420 WBEC Pittsfield, MA
 1450 WKXL Concord, NH
 1480 WSAR Fall River, MA

92.1 WMOO Derby Center, VT
 92.7 WKVT Brattleboro, VT
 93.9 WMXR Woodstock, VT
 95.1 WXTK West Yarmouth, MA
 97.7 WINQ Winchendon, MA
 98.5 WEBB Waterville, ME
 99.7 WNSX Winter Harbor, ME
 99.7 WSKO Wakefield-Peacedale
 99.9 WNYN Athol, MA (?)
 100.1 WWFX Southbridge, MA
 100.2 WKKB Middletown, RI
 101.3 WCPV Essex, NY

101.5 WBHG Meredith, NH
101.5 WEXP Brandon, VT
101.7 WVRR Newport, NH
101.9 WOZI Presque Isle, ME
102.1 WAQY Springfield, MA
102.1 WSAK Hampton, NH

NEW ORLEANS SAINTS

ANNOUNCERS: Jim Henderson, Hokie Gajan, Kenny Wilkerson, & Larry Matson.
SPANISH LANGUAGE ANNOUNCERS: Marco Garcia & Hector Pineda

540 KNOE Monroe, LA
620 WJDX Jackson, MS
640 KTIB Thibodaux, LA
830 WFNO Norco, LA (Spanish)
870 WWL New Orleans, LA (Flagship)
920 WBOX Bogalusa, LA
1120 WNWF Destin, FL (?)
1130 KWKH Shreveport, LA
1150 WJBO Baton Rouge, LA
1240 KANE New Iberia, LA
1250 WHNY McComb, MS
1290 KJEF Jennings, LA
1340 WFSH Niceville, FL
1420 WQBC Vicksburg, MS
1450 WCJU Columbia, MS

PHILADELPHIA EAGLES

ANNOUNCERS: Merrill Reese & Mike Quick

830 WEEU Reading, PA
1150 WDEL Wilmington, DE
1360 WPPA Pottsville, PA
1490 WBCB Levittown, PA

94.1 WYSP Philadelphia, PA (Flagship)

PITTSBURGH STEELERS

ANNOUNCERS: Bill Hargrove, Myron Cope, and Tunch Ilkin

560 WFRB Frostburg, PA
630 WJAW St. Marys, WV
680 WISR Butler, PA
800 WCHA Chambersburg, PA
970 WBGG Pittsburgh, PA (Flagship)
1170 WWVA Wheeling, WV
1230 WBVP Beaver Falls, PA
1230 WTIV Titusville, PA
1290 WFBG Altoona, PA
1330 WFNN Erie, PA
1340 WOYL Oil City, PA
1400 WWGE Loretto, PA
1420 WCED Du Bois, PA
1430 WEIR Weirton, WV
1450 WFRA Franklin, PA
1450 WHNK Parkersburg, WV (?)
1450 WJPA Washington, PA
1450 WMAJ State College, PA
1450 WTBO Cumberland, PA
1460 WMBA Ambridge, PA
1480 WCNS Latrobe, PA

102.9 WBLM Portland, ME
102.9 WCRQ Dennysville, ME
104.1 WBCN Boston, MA (Flagship)
104.7 WMOS Montauk, NY
105.3 WSHK Kittery, ME
106.9 WCCC Hartford, CT

1470 KLCL Lake Charles, LA
92.1 KLIL Moreauville, LA
92.2 WBOX Varnado, LA
95.3 KQKI Bayou Vista, LA
96.5 WXHB Richton, MS
97.3 KMDL Kaplan, LA
97.3 WKSO Natchez, MS (?)
98.3 WJDR Prentiss, MS
103.3 WZKR Decatur, MS
104.3 KEZP Bunkie, LA
105.1 KTGTV Jonesville, LA (?)
105.5 WNSP Bay Minette, AL
107.1 WKNZ Collins, MS
107.5 KCIL Houma, LA

96.1 WCTO Easton, PA
97.9 WBSX Hazelton, PA
103.7 WMGM Atlantic City, NJ
107.3 WEGH Northumberland, PA

1490 WESB Bradford, PA
1490 WMGW Meadville, PA
1580 WANB Waynesburg, PA
92.1 WJST Ellwood City, PA
92.5 WQMU Indiana, PA
92.7 WCCR Clarion, PA
93.3 WNCD Youngstown, PA
95.1 WWGY Grove City, PA (?)
95.3 WJPA Washington, PA
96.5 WMTZ Johnstown, PA
98.9 WQKY Emporium, PA
99.3 WZXR South Williamsport, PA
100.9 WAYC Bedford, PA
100.9 WZST Westover, WV
102.1 WOWQ Du Bois, PA
102.5 WDVE Pittsburgh, PA (Flagship)
103.7 WCXR Lewisburg, PA
103.9 WLSW Scottsdale, PA
104.1 WPXZ Punxsutawney, PA
104.3 WKNB Clarendon, PA

SAN DIEGO CHARGERS

ANNOUNCERS: Dan Rowe & Hank Bauer. SPANISH ANNOUNCERS: Jorge Villanueva, Efrén Dominguez, & Victor Duarte

630 KPTT Reno, NV (Selected Games Only)
760 KFMB San Diego, CA (Flagship)
970 KNWZ Coachella, CA
1230 KXO El Centro, CA

SAN FRANCISCO 49ers

ANNOUNCERS: Joe Starkey & Gary Plummer

550 KMVI Wailuku, HI
570 KCFJ Alturas, CA
580 KMJ Fresno, CA
670 KPUA Hilo, HI
780 KKOHO Reno, NV
800 KDFO Bakersfield, CA
810 KGO San Francisco, CA (Flagship)
830 KNCO Grass Valley, CA
950 KAHJ Auburn, CA
970 KESP Modesto, CA
1230 KPRL Paso Robles, CA
1280 KUYL Stockton, CA
1360 KUIK Hillsboro, OR
1400 KKJL San Luis Obispo, CA

SEATTLE SEAHAWKS

ANNOUNCERS: Brian Davis & Steve Raible

550 KTZN Anchorage, AK
560 KPQ Wenatchee, WA
580 KRSA Petersburg, AK
610 KONA Kennewick, WA
710 KIRO Seattle, WA (Flagship)
750 KXL Portland, OR
800 KINY Juneau, AK
840 KMAX Colfax, WA
920 KXLY Spokane, WA
1030 KMAS Shelton, WA
1040 CKST Vancouver, BC
1080 KVNI Coeur d'Alene, ID
1170 KPUG Bellingham, WA
1230 KLAV Las Vegas, NV
1240 KCVL Colville, WA
1240 KGY Olympia, WA
1240 KXLE Ellensburg, WA
1280 KIT Yakima, WA
1310 KZXR Prosser, WA
1370 KAST Astoria, OR

TENNESSEE TITANS

ANNOUNCERS: Mike Keith, Pat Ryan, & Larry Stone

570 WKYX Paducah, KY
640 WGOC Blountville, TN
690 WJOX Birmingham, AL
740 WRWB Harrogate, TN
860 WSON Henderson, KY
870 WMTL Leitchfield, KY
930 WJBY Rainbow City, AL
930 WSEV Sevierville, TN

1420 XEXX Tijuana, BCN (Spanish)
1540 KMPC Los Angeles, CA

99.7 KXTY Morro Bay, CA (?)
101.3 KATY Idyllwild, CA

1420 KKEA Honolulu, HI
1450 KVML Sonora, CA
1480 KENO Las Vegas, NV
1480 KGOE Eureka, CA
1490 KBLF Red Bluff, CA
1560 KIQS Willows, CA

93.3 KJDX Susanville, CA
93.7 KTMT Medford, OR
95.3 KOZT Mendocino, CA (?)
96.9 KSEG Sacramento, CA
100.7 KTHU Corning, CA
102.1 KRKC King City, CA
103.1 KKCX Colusa, CA

1380 KRKO Everett, WA
1400 KEDO Longview, WA
1420 KUJ Walla Walla, WA
1430 KBRC Mount Vernon, WA
1430 KCLK Asotin, WA
1430 KYKN Keizer, OR
1450 KGRZ Missoula, MT
1450 KLAM Cordova, AK
1450 KONP Port Angeles, WA
1490 KVAC Forks, WA
1490 KWOK Hoquiam, WA
1580 KGAL Lebanon, OR
1600 KEED Eugene, OR

92.7 KNCW Omak, WA
94.9 K235AC (KRSA) Sitka, AK
94.9 K235AD (KRSA) Wrangell, AK
94.9 K235AJ (KRSA) Haines, AK
98.5 KEYG Grand Coulee, WA
102.9 KMNT Centralia, WA

950 WAKM Franklin, TN
1000 WMUF Paris, TN
1050 WWIC Scottsboro, AL
1070 WEKT Elkton, KY
1110 WKRA Holly Springs, MS
1150 WCRK Morristown, TN
1150 WJBY Chattanooga, TN
1220 WAXO Lewisburg, TN

1220 WFML Camden, TN
1230 WMLR Hohenwald, TN
1240 KWAK Stuttgart, AR
1240 WPBQ Flowood, MS
1260 WDKN Dickson, TN
1260 WGVM Greenville, MS
1280 WMCP Columbia, TN
1320 WMSR Manchester, TN
1320 WNGO Mayfield, KY
1340 WCDT Winchester, TN
1340 WFEB Sylacauga, AL
1340 WFMH Cullman, AL
1340 WNBS Murray, KY
1370 WDXE Lawrenceburg, TN
1400 WBIP Booneville, MS
1400 WIEL Elizabethtown, KY
1400 WZNG Shelbyville, TN
1410 WCMT Martin, TN
1440 WHDM McKenzie, TN
1450 WTCO Campbellsville, KY
1450 WTRO Dyersburg, TN
1490 WOMI Owensboro, KY
1560 WPAD Paducah, KY
1570 WCLE Cleveland, TN
1570 WONA Winona, MS
1580 WPKY Princeton, KY

92.3 WYNU Milan, TN
92.7 WAFN Arab, AL
93.5 WKBQ Covington, TN
93.5 WKWX Savannah, TN
93.7 WBXE Baxter, TN

WNBA ON RADIO

Charlotte Sting – 106.1 WNMX Waxhaw, NC
Connecticut Sun – (?)
Detroit Shock – 1310 WDXD Dearborn, MI
Houston Comets – 610 KILT Houston, TX
Indiana Fever – 1070 WIBC Indianapolis, IN
Los Angeles Sparks – (?)
Minnesota Lynx – 1400 KLBB St. Paul, MN
1470 KLBP Brooklyn Park, MN
New York Liberty – 1600 WWRL New York, NY
Phoenix Mercury – 860 KMVP Phoenix, AZ
Sacramento Monarchs – 1140 KHTK Sacramento, CA
San Antonio Silver Stars – 810 KSJL Somerset, TX
92.5 KSJL Devine, TX
Seattle Storm – 950 KJR Seattle, WA
Washington Mystics – 1260 WWRC Washington, DC

WEB SITES FOR AM DX STUFF

Compiled by: Rich Toebe

E-mail: richtoebe@jps.net

Regional Radio Sites

The **Capital Gold Dial Guide** covers stations in the area around Albany. Along with lists of stations and accompanying links, there is information on towers and transmitters, radio and

95.1 WRTT Huntsville, AL
95.7 WCKK Calvert, KY
96.7 WNKX Centerville, TN
97.3 WKJQ Parsons, TN
97.5 WZZP Hopkinsville, TN
97.7 WHRZ Providence, KY
98.3 WKSJ Pulaski, TN
98.9 WANT Lebanon, TN
99.3 WPBX Crossville, TN
100.3 WOKI Oak Ridge, TN
100.7 WDMS Greenville, MS
100.9 WKBB West Point, MS
101.7 WCMT Martin, TN (CP 101.3 South
Fulton, TN?)
102.1 WLCT La Fayette, TN
102.3 WGOW Soddy-Daisy, TN
103.3 WKDF Nashville, TN (Flagship)
103.7 WPTQ Cave City, KY
103.9 WTRZ McMinnville, TN
104.1 WCLE Calhoun, TN
104.7 WMUF Henry, TN
104.9 WKHG Leitchfield, KY
104.9 WQLA La Follette, TN
104.9 WYVY Union City, TN
105.5 KWAK Stuttgart, AR
105.5 WSEV Gatlinburg, TN
105.5 WYTM Fayetteville, TN
105.7 WWSR Rockwood, TN
105.9 WGKX Memphis, TN
107.3 WQLT Florence, AL

TV memorabilia, and more. There's even a section called "DX Monitor". Find this site at <http://www.capitalgold.org>.

Someone in the Philadelphia area loves talk radio... enough to create a web site tracking all of the talk shows in the Philly area and surrounding. It's called **Philly Talk Radio Online**; check it out at <http://www.phillytalkradioonline.com/index.html>.

There's more than AM radio here, but a great site to follow the goings on in **Virginia Broadcasting** is VARTV.com. Find it at (what else) www.vartv.com.

If you are looking for radio news out of Utah, and especially Salt Lake City, then this site is for you... **SaltLakeRadio.com** and **UtahRadioNews.com** have merged. There are lots of current news stories about the radio industry, station guides and links to articles in the local newspapers, including the "Radio Dial" column by Lynn Arave from the *Deseret News*. Have a look-see at <http://www.utahradionews.com/>.

RadioEmporium.net bills itself as "The Southwest's #1 Radio Site"—it covers AZ, NM, NV, UT, CO, TX and OK. Call sign histories can be found here, as well as logos, news stories, forums, and other features. It's located at <http://radioemporium.net/>.

<http://www.sdradio.net/> is the site to look to for **San Diego radio news** and information, and is kept current; the March 11 2003 news begins with the story that KSDO-1130 is changing formats from News-talk to Spanish Christian "Radio Nueva Vida", and many comments about the Mighty 1090's debut.

BenMac.com is the source to go to for information on the media in Birmingham, Alabama... there are lists of stations (and links) and news articles featured, and links to radio articles from the Post-Herald, Birmingham's newspaper. There's a lot of material on advertising, complimenting radio industry news. Go to <http://www.benmac.com/bmcl>.

Interested in following news of the radio industry? Here's a site that lists the industry news without requiring subscription or registration. Just a quick glance at **Radio Daily News** showed that CNBC Business News Radio is just beginning on a number of stations, and that it was discovered that Swaziland's state-run radio's Iraq correspondent was not actually reporting from the scene, but "broadcasting from a broom closet". There are many links to radio columnists and other radio sites as well. Check it out at <http://www.radiodailynews.com/>.

Radio Publications

New Radio Star website is a radio news oriented site, as the name implies. Find it at <http://www.newradiostar.com/>. It covers the industry as well as radio personalities.

Radio Ink has a listing of what the magazine considers to be the "**50 Best Radio Web Sites**". The #1 site is an AM station: WGNRadio.com. To read the rest of the list, point your browser to <http://www.radioink.com/thisyear50best.asp>. (Update: link broken 3/15/04 RT)

Eric Floden contributed this link: "for anyone interested in reading about (& linking to broadcasts of) **Park Radio (Canadian Rockies -- Banff & area)**, you can visit <http://www.friendsofbanff.com/radio.htm> from this site, here is their Mission:"

Park Radio will tell the story of Banff National Park to the visiting public: from the rise of the Canadian Rockies, to the plants and animals who came to inhabit the mountains from the evidence of pre-historic life 11,500 years ago, to the modern adventurers who explore the mountains today of our quest to understand the mountain landscape and our place in it. Park Radio will also provide basic information to help visitors better enjoy their stay: weather and trail reports, where to get information, public safety messages and information about park events and facilities. Park Radio will use a variety of programming to enlighten and entertain visitors: Stories, interviews, quizzes, documentaries, trivia, music, sound effects and on-location stories and their motto is: The Official Radio Station of Banff National Park

Other Radio Sites

El Dorado for LA DXers is a web page that is devoted to Latin American DX. Acting as a repository of information from various sources about Central and South American stations, the site contains lists of stations and verification signers and also has useful information about national holidays. Click on: <http://members.chello.se/mwm/eldorado/index.html>.

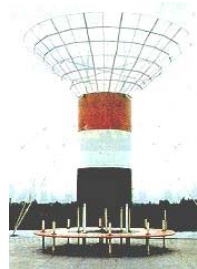
St. Pierre et Miquelon is probably the most exotic location in North America. A small archipelago, just off the southwestern coast of Newfoundland, and part of France. You can check out RFO's (Réseau France Outre-mer) website at http://www.rfo.fr/st_pierre_et_miquelon_ie15m.php; click on "Qui Sommes Nous?" for information about the station. Clicking on "Notre Radio" brings up "Journal" webcasts for all of the RFO stations. The site is in French, and if you can decipher it, there's a wealth of information, with pictures, about the islands, their history, and the stations.

Zona Latina "is the site for media and marketing in Latin America." There's a section devoted to radio, heavily comprised of links to stations throughout Central and South America, the Caribbean and Mexico. Regional and national networks are noted here. There are also links to other sites covering information of interest to the listener or observer of the radio scene "south of the border", as well as Spanish and Portuguese language stations and networks in the USA. Go to <http://www.zonalatina.com/Radio.htm>.

At **RFO's** home page, there's a world map; roll your mouse over the territory's name, and see the dots on the map, showing their locations, change to yellow. A free geography lesson, courtesy of http://www.rfo.fr/index_ie15m.php.

Bruce Portzer found "The Tick", now that Clear Channel has taken over WWV (hi). You have to hear it at <http://www.mindspring.com/~lownoise/www.html> (Update: you'll be directed to <http://www.grantassoc.net/www.html> now 3/15/04 RT)

Ray Bauernhuber alerted us to the IEEE's History Center website, which features a List of Milestones in the history of electronics. A lot of radio history is detailed here, including Marconi's early wireless experiments, the first reception of Transatlantic radio signals, the first directional antennas, KDKA, and more. Benjamin Franklin's work in London between 1757 and 1775 is also on the list. Check it out at http://www.ieee.org/organizations/history_center/milestones_list.html.



There's been some discussion about **Cross Field antennas** recently. They are being tried out in Egypt, Australia and the Isle of Man, and in the US by WK4XVQ – 1520 as an experimental license held by WKVQ-1520 Eatonton GA for daytime use. There is an article posted on AntenneX's website dealing with the subject. Read about it at <http://www.antennex.com/preview/cfa/cfa.htm>.

Another article on CFA's, called "Is This Antenna For Real?" by veteran radio engineer Cris Alexander can be accessed by logging on to <http://www.hbci.com/~wenonah/cfa/>.


Mike Hardester writes: *If you happen to hear a station mention an area code and prefix, you can enter that information, and the site indicates the city/state to which that area code and prefix are assigned. It isn't a reverse phone number look up, and it may already be known, but if not, it's a handy little site to use to narrow down a station's area:* <http://www.primetis.com/fonfind/>.

Nick Hall-Patch clued me in on a site for **DX Tuners**. According to the Swedish-based site, "DX-Tuners provide access to a truly **global network** of remotely controlled shortwave and VHF/UHF receivers for radio enthusiasts across the world all from the comfort of your own home via the Internet." There is even a MW Beverage antenna in Hylteberga, Sweden, 430 meters long (just over 1410 feet) and aimed at a bearing of 270 degrees, linked to the site.

There are other projects there, including a Icom PCR-1000 modified to receive DRM digital transmissions. Go to <http://www.dxtuners.com/> and have fun!

Looking for a listing of Radio Disney stations? If you go to the Radio Disney website, you can only get them by location, one at a time. **Patrick Griffith** put together a list from their site and keeps it up to date as a service to DX'ers. Find it at <http://community-2.webtv.net/NONNK/RADIODISNEY/index.html>





The NRC Nighttime Antenna Pattern Book, 5th Edition
is the perfect mate to the NRC AM Log, as the NPB provides DX'ers with up-to-date maps of all (except Class IV) stations with nighttime operations. Convenient to use: 3-hole punched for standard binders. Still only \$16.95 to U. S. and Canadian IRCA/NRC members; \$22.95 to U. S. and Canadian non-members. Airmail to members in Europe (except Italy): \$29.00. All others, please contact us for exact pricing. Order from: NRC Publications - Box 164 - Mannsville, NY 13661 (NY residents, please add sales tax)

The IRCA is a non-profit organization devoted to the hobby of hearing distant stations on the Broadcast Band (510-1720 kHz). **DX Monitor**, the official publication of the IRCA, is published in "soft" form 35 times a year (weekly from November through March, twice monthly from April to November) and in printed form 30 times a year (weekly November through March, monthly April to November). **DX Monitor** contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists. IRCA is a member of ANARC, the Association of North American Radio Clubs.



CLUB OFFICERS AND CONTACT INFORMATION

President: Nick Hall-Patch – 1538 Amphion St., Victoria, BC V8R4Z6 CANADA

e-mail: nhp@ieee.org (proposals/gripes)

Secretary-Treasurer: Lynn Hollerman, P.O. Box 60241, Lafayette LA 70596

e-mail: lynn@eatel.net or ircamember@ircaonline.org (dues, address changes, IRCA mailing list sign-ups)

Board of Directors: Karl Zuk (chairman) karlzuk@hotmail.com

Phil Bytheway phil_tekno@yahoo.com, Patrick Martin mwdxer@webtv.net

Mike Sanburn mikesanburn@hotmail.com, Pete Taylor ptdx@comcast.net,

John C. Johnson John_Johnson@prodigy.net and Tim Noonan DXing2@aol.com

Editor-in-Chief: Phil Bytheway, 9705 Mary Ave NW, Seattle WA 98117-2334

e-mail: phil_dxm@yahoo.com (all material for publication goes here)

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Australia/NZ/Japan (group 4)	\$10	\$51	\$56
Rest of world (group 5)	\$10	\$48	\$53

TRIAL MEMBERSHIP (10 issues) TO USA-CANADA-MEXICO only: \$10 DXM, \$12 DXM / SDXM Installment Rate: 2 payments a year of one-half dues plus \$1.

Make checks and Money Orders in US funds payable to IRCA.

All dues and address changes go to: **IRCA, PO Box 60241, Lafayette LA 70596**

Pay electronically with PayPal—add \$1 to all prices above. Go to www.paypal.com, then send your dues to ircamember@ircaonline.org—contact Lynn Hollerman for more information.

Sample copies of DX Monitor are available. Along with your request, please include first class postage of: **37c** for USA addresses. **60c** for Canada and Mexico or **2-International Reply Coupons** each, for other countries. Send to: **IRCA—3410 Marion St. SE, Albany, OR 97322-3871.**

For information on **subscribing to the IRCA E-group** at Hard-Core-DX, a group e-mail service, contact the moderator, Lynn Hollerman at lynn@eatel.net or ircamember@ircaonline.org.

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THE INTERNATIONAL RADIO CLUB OF AMERICA
P.O. Box 60241, Lafayette LA 70596
<http://www.ircaonline.org>