

March 12, 2011 – Volume 48, Number 24 – Edition 1532 – ISSN 899-9733

# Happy Anniversary, IRCA!

FROM THE EDITOR-IN-CHIEF

It's that time of year again; time to celebrate IRCA's anniversary! It won't be long before IRCA celebrates its golden anniversary! Time flies when you're involved in this hobby. I joined in 1994, and have had a great experience as an IRCA member. Over the years, one thing remains constant: it's YOU, the members of IRCA, that make this club what it is now. Keep reporting your DX to your editors, and if there are any changes going on in your locale, feel free to let Lee Freshwater know! This issue features an article on the Ferrite Sleeve antenna, as well as the Geomagnetic Indices for February and the Verification Signers column. And if you're preparing to go to Colorado Springs for this year's IRCA Convention...it's a little more than three months away! Let Bob know you are coming! **HAPPY ANNIVERSARY, INTERNATIONAL RADIO CLUB OF AMERICA!**

## DX TESTS

### WYTH, 1250 kHz, 1 KW, Madison, GA

WYTH will test on March 19, 2011 from 2:00-2:30 AM Eastern Daylight Saving Time. Test will include Morse code IDs, voice IDs, special music, and sweep tones. Reception reports may be sent to [starstation@bellsouth.net](mailto:starstation@bellsouth.net) which will be acknowledged with an eQSL or snail mail reports to WYTH Radio, Attn: DX Test, P.O. Box 3965, Eatonton, GA 31024-3965 which will be acknowledged with a traditional QSL card. During the test, phone calls will also be accepted at 706-485-8792. Special thanks to Chief Engineer Craig Baker, for making this test possible. (Arranged by Jim Pogue; information via Phil Bytheway)

### 2011 IRCA Convention – Colorado Springs, CO

The convention will be held June 23-25, 2011 at the Airport Value Inn (<http://www.airportvalueinn.com>) located on the east side of Colorado Springs at 6875 Space Village Avenue, Colorado Springs 80915. IRCA has set aside a special block of rooms with a special reservation rate of \$69.99/night (regularly \$79.99/night during the summer months), please call the hotel directly at (719) 596-5588 or toll-free (800) 596-5588 to book the special rate (the special rate is only available over the phone), views of the rooms can be seen on their website. The Colorado Springs Airport is located about 5 miles south of the hotel and is a relatively easy drive from the airport to the hotel (taxis are available at the airport, the hotel doesn't have a shuttle). Convention registration is \$30, please send registrations to: Robert Wien 2910 North Powers Boulevard, #106, Colorado Springs, CO 80922. If you wish to donate items for the auction, they can also be sent to this address as well, all AM radio-related donations are welcome. The convention will include radio station tours (specifics to be announced later), an AM transmitter tour around the city, DX quiz with prizes, business meeting, banquet, and the traditional Saturday night auction. The banquet will be held at the Golden Corral Buffet located on 1970 Waynoka Road (near Powers/Palmer Park Blvd., about 4 miles NW of the hotel) Saturday night 6/25/11 at 6 PM (we will have a room reserved at the Golden Corral, it is a 'pay-your-own-way' all-you-can-eat-buffet, cost is approximately \$10/person (NOTE: COST OF BANQUET IS SEPARATE FROM CONVENTION REGISTRATION FEE), beverage extra, to see the menu, go to <http://www.goldencorral.net>, with the auction to occur in the hotel meeting room after the banquet at approximately 8 PM. (Thanks to Mike Sanburn, KG6LJU, for the information.)

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## BROADCASTING INFORMATION

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### CALL LETTER CHANGES

FREQ	OLD CALL	CITY	NEW CALL
680	WDRD	Newburg, KY	WHBE
1240	KMZK	Billings, MT	KJCR
1420	WVNG	Toccoa, GA	WLET
1550	WDZK	Bloomfield, CT	WSDK
1590	KCNN	East Grand Forks, MN	KGFK

### FORMAT CHANGES

FREQ	CALL	CITY	OLD INFO	NEW INFO
990	KTHH	Albany, OR	Classic Country	Comedy
1210	WMPS	Bartlett, TN	Standards	Talk // WPGF-LP 87.7
1240	KDOK	Kilgore, TX	Oldies	R&B
1260	KTRP	Weiser, ID	Spanish Sports	Classic Country
1310	WPBC	Decatur, AL	Progressive Talk	Reported Silent
1340	KSSR	Rosa, NM	Spanish	Reported Silent
1390	WAJD	Gainesville, FL	Silent	R&B Oldies
1400	WJQS	Jackson, MS	Adult Standards	Oldies
1430	KMBQ	Wasilla, AK	Country	Reported Silent
1440	WLXN	Lexington, NC	Talk / Sports	Oldies
1450	WCTC	New Brunswick, NJ	Oldies	Talk
1490	WKYW	Frankfort, KY	Talk	Smooth AC
1510	WLGN	Logan, OH	Adult Standards	Oldies
1520	WDSL	Mocksville, NC	Talk	Black Gospel / Classic C&W
1530	KXTD	Wagoner, OK	Regional Mexican	Spanish Religion
1560	WINT	Melbourne, FL	Sports	Silent
1580	WIOL	Columbus, GA	Sports	Reported Silent

### SLOGAN / IMAGE CHANGES

FREQ	CALL	CITY	NEW INFO
990	KTHH	Albany, OR	"Comedy 990"
1210	WMPS	Bartlett, TN	"The Point"
1240	KDOK	Kilgore, TX	"1240 The Beat"
1440	WLXN	Lexington, NC	"Kool 99.9"
1490	WKYW	Frankfort, KY	"Timeless Cool"

### FACILITY AND PARAMETER GRANTS

540	WASG	Daphne, AL	License to cover 2.5 K / 19 W NDA at 30-44-44 / 88-05-40
590	KXSP	Omaha, NE	Correct co-ordinates to 41-15-55 / 95-59-52
640	NEW	Terre Haute, IN	250/250 DA-N at 39-29-21 / 87-25-08
760	WCPS	Tarboro, NC	CP for 1 KW DAY NDA at 35-55-44 / 77-34-13
770	WEW	St. Louis, MO	Has CP for 10 K / 1 K DA-2. This grant is to shorten tower height to comply with local zoning requirements
810	KLVZ	Brighton, CO	Modify license to 2.2 K / 430 DA-2 at 40-01-41 / 104-49-21
860	WTZK	Sparta, TN	CP for 950 / 10 NDA at new site 35-57-16 / 85-28-37
940	WGRP	Greenville, PA	Modify license for 1 K / 2 W DA-N at 41-23-07 / 80-24-33
	KDIL	Jerome, ID	License to cover for 1 K / 250 DA-2 at 42-43-36 / 114-37-37
1010	KIQI	San Francisco, CA	CP for 35 K / 15 K DA-2 from 10 K / 500 DA-2 New site at 37-49-34 / 122-18-41
1180	NEW	Jacksonville, OR	50 K / 1.3 K DA-N at 42-17-44 / 122-48-15
1200	WGRK	Jeffersontown, KY	CP for 2.5 K Day from 1 k. New site at 38-11-04 / 85-29-57
			Change city of License from Greensburg, KY
1290	WRRR	Frederiksted, VI	License surrendered by licensee. Call letters deleted
1310	WKZD	Priceville, AL	CP for 1 K / 33 NDA New site at 34-32-25 / 86-54-15
1340	KTSN	Elko, NV	License to cover for 1 K / 1 K at 40-52-08 / 115-43-09
1410	KCAL	Redlands, CA	CP to move DAY site next to night Site, cancelled
1470	WLOA	Farrell, PA	Modify license for 1 K / 500 DA-N at 41-11-58 / 80-31-22
1480	WYZE	Atlanta, GA	CP to raise day power from 5 K to 10 K NDA at 33-43-25 / 84-22-08 Night power remains 44 watts
1510	KSFN	Piedmont, CA	License to cover 8 K / 2.4 K DA-2 at 37-49-02 / 122-17-10
	KGA	Spokane, WA	License to cover 50 K / 15 K DA-2 at 47-30-08 / 117-23-06
1520	NEW	Fultondale, AL	CP for 6 K / 250 DA-2 at 33-39-35 / 86-47-39

LISTINGS COURTESY OF [THERADIOJOURNAL.COM](http://THERADIOJOURNAL.COM), [100000WATTS.COM](http://100000WATTS.COM), [F.C.C. DAILY DIGEST](http://F.C.C.DAILYDIGEST.COM), [AMLOGBOOK dot COM](http://AMLOGBOOK.COM)

INDIVIDUAL MEMBER AND CONTRIBUTOR LISTINGS:



**FROM SHEBOYGANPRESS DOT COM** Radio listeners who have tuned into 950 AM lately noticed a change in programming. WCLB 950 AM, a sport talk radio station based in Sheboygan, has changed its affiliation from ESPN to Fox Sports Radio. The changes went into effect Feb. 1. "Aligning with Fox Sports Radio puts our company under the same umbrella as Fox Sports TV where most Wisconsin sports fans watch Packers football, the Brewers and Bucks on a regular basis. That will allow us better access to covering the local teams in our state," said program director Wade Bates. Gone are ESPN shows like Mike & Mike in the Morning and Colin Cowherd, and in are shows by Dan Patrick and Jim Rome, among others. In a statement, Mountain Dog Media, which owns the station, said "contract changes and requirements on ESPN were preventing us from fully realizing our strategy of providing unique sports programming with a local emphasis." According to several published reports, ESPN Radio has dramatically raised its prices for affiliates.

**FROM: RADIO INFO DOT COM** Radio Disney continues its sell off of medium-market stations: Tulsa's KMUS/1380 Disney took the station off the air in March 2010, saying it was negotiating with "a small broadcaster who is still working out financing." That deal was never consummated, and on November 18, Disney filed to extend its Special Temporary Authority for KMUS, Sperry, Oklahoma to remain silent. It also said "the prior negotiations were unsuccessful." Now it files to sell KMUS to a different small business. That is Antonio Perez' Radio Las Americas LLC, and the price is \$300,000 cash. KMUS is licensed for 7,000 watts daytime and 250 watts at night, both directional. The broker identified in the filing is William Schutz. Other recent Radio Disney sell offs have included AMs in Jacksonville and Hartford.

**FROM: CHICOER DOT COM** Nationally syndicated radio host brings show to Chico. A man who usually chats with somewhere between 2.5 million and 3 million people a day was in Chico Friday conducting those conversations from a subterranean room in a downtown hotel. Usually Lars Larson spends his weekdays at KXL radio in Portland, Ore., but Friday he was doing a remote broadcast in a basement room in the Hotel Diamond. Among about 150 other places, Larson is heard on Chico's KPAY radio. At least part of the reason he chose to make the local visit was because KPAY's News and Program Director Matt Ray was once his intern. Larson was also in Butte County to speak at Friday night's sold-out Republican Party Lincoln-Reagan Dinner in Oroville. The conservative broadcaster, who tags his national show "right on the left coast," began in radio at age 16 for a station in Tillamook, Ore., and has been nationally syndicated for just under eight years. He got his introduction to national syndication as an occasional fill-in for Michael Savage, a San Francisco-based conservative talk show host, who Larson described as "mercurial and hard to work with." In an interview with this newspaper, Larson said at one point he was scheduled to fill in for Savage with just seven minutes' notice. Larson described Savage as "crazy." Friday, Larson laughed about the "glamorous" life of a nationally syndicated radio personality, as he set up the three different computers he used to do his remote. He said that on some trips he has a staff person with him, but in Chico he was flying solo. Even though Friday's show originated hundreds of miles from Portland, Larson was still connected electronically, by way of the Internet and cell phone, to his home studio. His producer in Oregon fed him information and collected data for his ongoing show. Jokingly he told his audience he was in Chico because he wanted to be 800 miles away from Portland Friday while President Barack Obama was taking his "dog and pony show" through the high-tech industry in that area. Having said that, Larson made a point of listening to the president's speech before going on the air. While talking to callers, the unabashedly conservative broadcaster gestured and walked around as far as his headphones/mic allowed.

**FROM: CHICOER DOT COM** Local sports radio making move to AM stations only Area sports fans who like listening on the radio will once more have to steer clear of bridges and tunnels to keep their signal. That aside, the impact of ESPN Radio's move on local stations — away from the 101.7 FM frequency and back exclusively to 1340 and 1290 AM — doesn't appear to be too drastic. Listeners who had become accustomed to tuning into San Francisco Giants games, Butte College football on Saturdays and Chico State sports will simply have to find ESPN on the other two AM channels, while 101.7 FM will become KCKS or "Kiss FM," an adult contemporary music station. The decision, brought on by Deer Creek Broadcasting's new majority owner Peak Media out of Fresno and Boise, Idaho, was based on Peak's experience in carrying its sports coverage on its news talk stations. For the past three years, 101.7 FM and 1340 AM have served as local ESPN Radio affiliates, but with an opportunity to take advantage of a better FM signal with the music station, sports will now shift strictly to the AM side. "As our company reviewed format opportunities in the marketplace and things of that nature, how to grow our business and expand, we found an opening in the radio world of a 'hot' adult contemporary," said Deer Creek general manager Dino Corbin. "We felt that a better use for the FM frequency would be to fill this 'hot A.C.' format void." In addition, KPAY 1290 will serve as the flagship station for Chico State athletics, with some pre-determined games featured on 1340. The Giants remain on 1340, with some Giants day games simulcast on KPAY. The station's popularity since it arrived locally had grown steadily; in the three years Deer Creek has aired ESPN on the FM frequency, ratings have nearly tripled, said station sports director Mike Baca, drawing ratings in the 3 and 4 range as compared to an average national rating of about 1.5. "This station went from the typical sports talk radio format that didn't even show up on the rating books to one of the top-10 stations in the market," Baca said. "It was the most-listened to station during 7 p.m. and 12 a.m. This has nothing to do with people not listening to the station, it was just something that was out of our control." Baca said the general reception he got from listeners of the FM station was an indication that the change could be jarring at first. "I feel bad for the people that have come to depend on it 24/7, because I know a lot of people just left it on that station and never changed it," Baca said. "They found it fun to listen to, and I feel for those people. But we're doing what we can with what we've been dealt." Even with the station's growing fandom, though, Deer Creek was without a station of the specific format it is implementing with 101.7 FM, a need Corbin said could be filled by moving the sports program off the FM frequency.

**Contributors:**

**Dale Park, Honolulu HI**  
03/5/11 0800. 73's. fresh

**WESTERN DX ROUNDUP**

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**WDXR DEADLINES:** March 18, April 1, April 15, April 29, May 13. Please use Eastern Time.

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Kenwood R-1000 with a four foot box loop
- \*\*\*\*\*
- 590 KTIE [CA](#), San Bernardino 2/12 0859 KTIE ID & news at 0900, poor with others. (AB-ID)
- 610 KNML [NM](#), Albuquerque 2/13 0129 KNML ID then quickly covered by KEAR. (AB-ID)
- 620 KJOL [CO](#), Grand Junction 2/14 1937 "KJOL 620 and 1400." (AB-ID)
- 650 CKOM [SK](#), Saskatoon 2/22 2348 "Newstalk 650 CKOM." (AB-ID)
- 660 KWVE [CA](#), Oildale 2/14 1949 religious programming, KWVE ID at 1954, and again just after 2000. (AB-ID)
- 680 KKGR [MT](#), East Helena 2/18 1932 few ads and KKGR ID, 670 KBOI slop. (AB-ID)
- 690 CBU [BC](#), Vancouver 2/12 1904 a lady with "BC Weather Report." (AB-ID)
- 700 KALL [UT](#), North Salt Lake City 2/19 2045 college basketball Utah at New Mexico. Good with KXLX QRM. (AB-ID)
- 750 KXL [OR](#), Portland 2/12 1930 "Newsradio KXL Portland." (AB-ID)
- 760 KGU [HI](#), Honolulu 1/31 as expected, flipped to business talk today per Honolulu Star-Advertiser. Previous format of Protestant talk-teaching and praise music shifted to FM 99.5 ("rechristened" KGU-FM) after simulcasting beginning 12/26. KGU now carries programming from Bloomberg, CNBC in-house Wall Street Radio Network (similar to KDOW-1220 and KKOL-1300), plus newscasts from co-owned Salem Radio and AP. (5P-HI)
- 800 CHAB [SK](#), Moose Jaw 2/16 1941 "Greatest Hits of All Time 800 CHAB," song "You're my Best Friend" sung by Queen. (AB-ID)
- 830 KNCO [CA](#), Grass Valley 2/7 0000 news & ads for local businesses. Fair, becoming poor and soon lost, on Drake with Kiwa. (GH-OR)
- KLAA [CA](#), Orange 2/14 1024 KLAA ID, local sports show with talk about an NBA lockout. (AB-ID)
- 870 KJNP [CO](#), Pierce 2/14 2201 "NHL Tonight" program. (AB-ID)
- 940 KPSZ [IA](#), Des Moines 3/2 2007-2020 HS girl's basketball game with Martinsville St. Mary's and West Hancock. In and out with Mexican. "940 KPSZ" heard at 2011. (BN-NM)
- 970 KNUU [NV](#), Paradise 2/18 2035 "970 AM KNUU." (AB-ID)
- 980 KBBO [WA](#), Selah 2/15 2104 "Talk 980 K-USA." (AB-ID)
- 1000 KOMO [WA](#), Seattle 2/13 2154 "KOMO 1000 News Radio" into traffic and weather. (AB-ID)
- 1020 KCKN [NM](#), Roswell 2/23 2014 ad block, musical ID "KCKN Country Music" at 2018. (AB-ID)
- 1090 KPTK [WA](#), Seattle 2/24 0059 YL with ad, Obama soundbite and ID "KPTK Seattle," into AP Radio news, faded to almost nothing after 3 minutes. Poor, lightning storm QRM. (5P-HI)
- 1120 KZSJ [CA](#), San Martin 2/14 1005 woman with talk in Vietnamese, mentioned Vietnam several times. (AB-ID)
- 1150 KDEF [NM](#), Albuquerque 2/19 1000 KDEF ID and news, poor under CKFR. New. Oooh! (AB-ID)
- 1200 KYAA [CA](#), Soquel 2/15 1004 area weather, KYAA ID, and after a fade down a second ID at 1006. New. (AB-ID)
- CJRW [BC](#), Vancouver 2/21 0000 foreign language vocal music. Fair with deep slow fades on Drake with 100' wire. (GH-OR1)
- 1220 KPJC [OR](#), Salem 2/24 1855 ad block, 1859 "AM 1220 KPJC," SRN news at 1900. (AB-ID)
- 1240 KCVL [WA](#), Colville 2/24 2039 "KCVL" ID, last heard 11/9/08. (AB-ID)

- 1250 KNEU UT, Roosevelt 2/25 2359 C&W song ended then heard "KNEU, Basin Real Country" followed by the news. Interference as noted below. (GS-CA)  
 KWSU WA, Pullman 2/25 2320 talk program broke then heard a Medtronic ad followed by weather and station ID "KUSU.org" and mention of NPR. Strong signal at times with light QRM & interference from KNEU Roosevelt, UT and KZER in Santa Barbara, CA. (GS-CA)
- 1280 KQLL NV, Henderson 3/3 0934 with rock oldies "This is the music of our generation, turn it on, turn it up and tell a friend. Cool 102," with Las Vegas ads. (BN-NM)
- 1290 KUMA OR, Pendleton 2/21 2100 "Newstalk 12-90 KUMA," CFRW QRM. (AB-ID)  
 CFRW MB, Winnipeg 2/24 2056 "Sports Radio 1290," into ESPN programming. (AB-ID)
- 1300 KLER ID, Orofino 2/21 2049 KLER ID then covered by KKOL. (AB-ID)
- 1310 KMKY CA, Oakland 2/9 0000 music and many "Radio Disney" ID's. Surprisingly weak and distorted in the mix on Drake with Kiwa. (GH-OR)
- 1320 KGDC WA, Walla Walla 2/16 0802 few ads, KGDC ID at 0803. (AB-ID)
- 1330 CJYM SK, Rosetown 2/24 2330 ID, playing 60's type oldies. Fair to poor with female announcer, on TMC with SW wire. (GH-OR1)
- 1350 KSRO CA, Santa Rosa 2/20 2300 ID and Coast to Coast show. Choppy and weak on Drake with 100' wire. (GH-OR1)
- 1360 KLSO CA, San Diego 2/16 0903 "XTRA Sports 13-60," 1350 KTIK slop. (AB-ID)
- 1380 KRKO WA, Everett 2/19 2330 ESPN sports talk. Fair signal with shallow sort fades on Drake with 200' wire on the ground. (GH-OR1)
- 1400 KESQ CA, Indio 2/19 1445 Spanish music followed by clear ID of KWSQ and ad for El Magic Coachella Music Festival. Very strong signal at times with light QRM and interference from KCYK in Yuma. (GS-CA)
- 1610 RSAG\* CA, Running Springs 3/3 2301 I have finally identified the very weak religious programming in English on 1610. RSAG stands for Running Springs Assembly of God and the station goes by AM 1610 Christian Radio. Running Springs is in the San Bernardino mountains about 120 miles from me as the crow flies. Don't know the power, but I'm sure it isn't much. I will e-mail them and see if they will verify my reception. (GS-CA)
- 1660 KTIQ CA, Merced 2/16 1000 KTIQ ID then lost. Last heard 12/12/07. (AB-ID)

Thanks to our reporters this time. Happy Anniversary IRCA! Nancy 2/4 2100

### CENTRAL DX ROUNDUP

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### RIDING GAIN

- [EB-MO] **Eric Bueneman**, Hazelwood, MO **N0UIHEric@aol.com**  
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- [KDF-IL] **Karl D. Forth**, Chicago, IL **koolmotor@comcast.net**  
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- [RW-CO] **Robert Wien**, Colorado Springs, CO **wienbob@aol.com**  
 C Crane 2, Select-A-Tenna, Ford Focus car radio.

### DOWN THE DIAL

- 680 CJOB MB, Winnipeg. 2-21 good over KNBR with WSCR 670 in analog. 01:58 noted with C2C AM, local spots. "The Super Station 6-80 CJOB Winnipeg" legal ID into local news. [EB-MO]  
 +2-23 good. 18:45 "CJOB 68" ID, spots, financial program. [KDF-IL]  
 MO, St. Louis. 2-23 also in while WSCR-670 IBOC was off. 18:49 with ID, spot, UWM Griffons basketball. [KDF-IL]
- 690 KTSM TX, El Paso. 2-26 fair to poor in KSTL null. 22:34 with "KTSM the talk station" ID into talk program. [EB-MO]
- 770 WVNN AL, Athens. 2-13 good. 23:18 with spot, talk format. [POB-IN]
- 990 KWAM TN, Memphis. 2-18 fair. 23:34 with spot, "Ben Ferguson Show." [POB-IN]
- 1010 WCSI IN, Columbus. 2-28 good. 19:06 with flood report news and weather, Rush Limbaugh program. [POB-IN]
- WSPT WI, Stevens Point. 2-20 fair, interference. 01:10 with Bojo talk program. [POB-IN]
- 1060 WLNO LA, New Orleans. 2-28 poor. 23:00 with news, spots, "You're listening to New Orleans Radio" slogan. [POB-IN]
- 1110 WBT NC, Charlotte. 3-1 fair signal, alone with KMOX 1120 in analog. 18:06 with traffic report, weather forecast, "News talk 11-10 WBT" ID into talk program. [EB-MO]

- 1150 WGOW TN, Chattanooga. 2-26 poor. 00:34 with spot, news, sports. [POB-IN]
- 1160 WYLL IL, Chicago. 2-27 good. 00:25 with a 30 minute commercial paid program [POB-IN]
- 1170 WWVA WV Wheeling. 2-26 fair. 01:01 with Fox News, "Voice of Wheeling the Big One" slogan. [POB-IN]
- 1180 WGAB IN, Newburgh. 2-25 fair. 15:00 with religious programming. [POB-IN]
- 1290 WBNF NY, Binghamton. 3-1 fair. 23:20 with spots, mention of Motown Week. [POB-IN]
- 1310 WKZD AL, Priceville. 3-3 good to poor signal mixing with WIBA, WDXI. 21:50 with oldies, legal ID with mention of FM translator W287AD. [EB-MO]
- 1320 WBRT KY, Bardstow. 2-21 fair. 15:55 with McCoy party line program. [POB-IN]
- 1350 WGAD AL, Gadsden. 2-21 good to fair over KRNT. 01:27 noted with oldies format. "More music WGAD" ID. The WGAD calls are now back on 1350. They were on 930 Rainbow City, AL. [EB-MO]
- 1480 KQAM KS, Wichita. 2-21 fair to poor mixing with WLMV. 00:31 noted with Fox News update, "The Big Talker, 14-80 KQAM" ID in promo, weather forecast. [EB-MO]
- 1500 WBRI IN, Indianapolis. 3-1 good over KSTP. 17:59 noted with "Covenant Living," "Radio that changes lives, AM 15-hundred WBRI" ID, promo, legal ID. [EB-MO]
- 1560 WCNW OH, Fairfield. 2-24 poor. 14:33 with religious talk. [POB-IN]
- 1570 WGCI IN, Bloomington. 2-25 fair. 14:35 with David Ramsey show. [POB-IN]
- WTRB TN, Ripley. 2-23 poor. 01:00 with news, weather, call letters. [POB-IN]
- 1580 WVOK AL, Oxford. 2-16 poor. 01:05 with True Oldies. [POB-IN]
- 1620 WNRP FL, Gulf Breeze. 2-23 good. 23:38 with spot, McGraw interview. [POB-IN]
- 1640 WTNI MS, Gulfport. 2-24 good. 00:39 with sports talk, spots. [POB-IN]
- 1660 KXTR KS, Kansas City. 2-23 fair. 22:54 with classical music. [POB-IN]
- 1690 WPTX MD, Lexington park. 2-13 fair. 00:34 with spot, weather, sports. [POB-IN]
- WVON IL, Chicago. 2-13 fair. 00:36 with "Talk of Chicago" call in show. [POB-IN]

### unID

- 1590 unID 2-23 unID with tone, coming in fairly well under KVGB and Lubbock, TX. Tone stopped about 23:58 briefly, then started again. This may be WZRZ Jackson, MS, but can anyone confirm this is actually them? [RW-CO]

### 25 YEARS AGO

March 15, 1986 issue of IRCA's "DX Monitor" ... We were informed about KTNN 660 Window Rock, AZ coming on the air, loud ... Ric Heald of Sacramento, CA first noted KTNN on March 1<sup>st</sup> with a very solid signal.

### OPEN MIKE

Happy Anniversary, IRCA! We always look forward to this huge issue when we get to catch up on all the members in their Forum reports. Both Eric and Karl spent time on 680 with WSCR-670 having IBOC off. Karl mentioned years ago DXers waited for silent periods to catch DX, now they wait for periods where station's IBOC is turned off. This column was typed 3-5-11. 73, John

### EASTERN DX ROUNDUP

**Lee J Freshwater – 414 SE 3rd St – Ocala FL 34471**  
**E-mail: EDXR-at-AMLOGBOOK-dot-COM**

Deadlines: Saturdays 8 AM!!

- |         |                 |  |
|---------|-----------------|--|
|         |                 | <b>STARS OF THE WEEK</b>                                       |
| (KK-VA) | Kraig Krist     | Manassas, VA.<br>NRD-545 rx w/134' multiband antenna NW to SE. |
| (WM-MD) | William McGuire | 2412 59th Place, Cheverly MD<br>DX-398                         |

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### LOGGINGS

- 610 OH WTVN Columbus 2/21 1732 Mixing with IBOC hash. Talking about route "2-70" and the weather conditions. "6-10 WTVN dot com" into ad. (KK-VA)
- 620 PA WKHB Irwin 2/21 1736 Mixing with other talk. "KHB" jingle. Into weather. OM "That's the forecast from the KHB weather center... serving the tri-state area" "KHB" jingle. (KK-VA)
- 640 OH WHLO Akron 2/22 1714 Mixing with Radio Disney, other talk and IBOC hash. OM talking about the federal deficit on the "Sean Hannity Show". OM "News talk 6-40 WHLO". (KK-VA)
- 680 MD WCBM Baltimore 2/22 1757 Mixing with WPTF. Baltimore traffic. "Talk radio 6-80 WCBM". (KK-VA)
- NC WPTF Raleigh 2/22 1757 Mixing with WCBM. "WPTF news, traffic, weather". (KK-VA)
- 690 FL WOKV Jacksonville 2/22 1759 News. "Talk radio WOKV". Report on the federal budget impasse. "WOKV news time 6 oh 5". (KK-VA)

700 MD WDMV Walkersville 3/3 1757 Spanish singing. "Esto es WDMV Walkersville Maryland Virginia" (KK-VA)

720 NC WGCR Pisgah Forest 3/3 1803 Mixing with talk (probably WGN). WGCR with religious singing. Talking about "getting close to our goal of \$12,000. Call 828 577 4096...". Area code 828 = North Carolina. This must be WGCR. 1844 National Anthem and off the air. (KK-VA)

NC WGCR Pisgah Forest 2/16 1810-1815 Southern Gospel mx; ID; s/off with SSB(WM-MD)

790 VA WNIS Norfolk 2/23 1800 Mixing with talk and R. Reloj. "You're listening to Fox news radio. Fair and balanced. AM 7-90 WNIS". (KK-VA)

800 QC CJAD Montreal 2/15 1859 ID heard in mess. (WM-MD)

ON CKLW Windsor 2/15 1900 ID; TC; "AM 800 News" (WM-MD)

950 PA WPEN Philadelphia 2/17 2100 "The Fanatic" "ESPN 950"; ID (WM-MD)

1130 GA WLBA Gainesville 2/16 1750-1800 Spanish Music heard (WM-MD)

1230 PA WBVP Beaver Falls 2/27 1835 Mixing with jazz, singing and oldies. WBVP with talk. "14-60 WMBA". WMBA is // 1230 WBVP. (KK-VA)

VA WFVA Fredericksburg 2/20 1714 Mix w/ mx. Talk. "News talk 12-30 WFVA". (KK-VA)

1280 SC WANS Anderson 2/17 1906 ID; Jingle then gone (WM-MD)

1340 DC WYCB Washington 2/20 1700 Mixing with WEPM. Endless Gospel singing. Finally, "WYCB 13-40". (KK-VA)

WV WEPM Martinsburg 2/20 1700 Mixing with WYCB. Typical ESPN radio programming. YL talking about NBA All Star game. "... WEPM Martinsburg...". (KK-VA)

1570 NY WGGO Salamanca 2/24 1803 Mixing with WAKR, other talk, singing, religious and Spanish. WGGO with ESPN radio. Talking about NBA. "Mike & Mike Show". "The sports leader 15-90 WGGO, WGGO Salamanca". (KK-VA)

OH WAKR Akron 2/24 1803 Mixing with WGGO, other talk, singing, religious and Spanish. WAKR with oldies "WAKR Akron". (KK-VA)

PA WISP Dolyestown 2/17 1900 Local mentions Area code 215 Poor. (WM-MD)

1630 GA WRDW Augusta 2/26 0526 Mixing with KCJJ and NVCC TIS. "Sporting News Radio" interview with pitcher Jamie Moyer about his kids camp foundation. Ad for Augusta Symphony. Promo for "Sean Hannity Show on new talk 16-30 WRDW". (KK-VA)

1690 GA WMLB Avondale Estates 2/28 1748 Mixing with talk. WMLB with singing. "WMLB Atlanta "The Voice of the Arts" into CBS news. (KK-VA)

\*\*\*\*\*  
 Took a day off Thursday and toured the Ocala/Gainesville Radio market with Scott Fybus. Enjoyed the day with Scott and seeing some of my former co workers and stations. Let's hope one of them ends up on the calendar. fresh 3-5 1500

## DX WORLDWIDE – EAST

Brandon Jordan – 3443 S. Perkins Rd – Memphis TN 38118  
 E-mail: bdjorda@gmail.com all times UTC

Welcome to another edition of DXWW-East. Many thanks to Mark and Tom.

### \*\*\* TRANSATLANTIC DX \*\*\*

153 **ALGERIA** Chaîne 1, Bechar, FEB 22 2245 - // 549 with vocal and drumming; good carrier strength, light audio. [Connelly\*Y-MA]

162 **FRANCE** France-Inter, Allouis, FEB 22 2245 - man & woman in French; good. [Connelly\*Y-MA]

171 **MOROCCO** R. Mediterranee Internationale, Nador, FEB 22 2246 - blues-influenced music; to fair peak. [Connelly\*Y-MA]

177 **GERMANY** Deutschlandfunk, Oranienburg, FEB 22 2245 - German talk by man; through local noise. [Connelly\*Y-MA]

183 **GERMANY** Europe No. 1, Felsberg, FEB 22 2245 - French teletalk with woman and man; very good. [Connelly\*Y-MA]

189 **ICELAND** Ríkissutvarpid, Gufuskalar, FEB 22 2245 - female pop vocal; good. [Connelly\*Y-MA]

198 **UNITED KINGDOM** BBC R.4, Droitwich et al., FEB 22 2245 - English talk by man; poor. [Connelly\*Y-MA]

207 **GERMANY** Deutschlandfunk, Aholming, FEB 22 2246 - light music, apparent German talk; over weak MJ and CL beacons on USB (that was used to avoid QI on LSB). [Connelly\*Y-MA]

216 **FRANCE** Radio Monte Carlo, Roumoules, FEB 22 2245 - fast French talk by several men; over CLB beacon. [Connelly\*Y-MA]

225 **POLAND** Polskie Radio, Konstancin, FEB 22 2245 - Slavic-sounding talk by man & woman; poor, over QM beacon. [Connelly\*Y-MA]

234 **LUXEMBOURG** RTL, Junglinster, FEB 22 2245 - female pop/lounge vocal in English; good. [Connelly\*Y-MA]

243 **unID** ?, FEB 22 2245 - weak talk mixed with YVB beacon. [Connelly\*Y-MA]

252 **ALGERIA** Radiodif. Algerienne, Tipaza, FEB 22 2245 - woman in French; dominant. [Connelly\*Y-MA]

252 **IRELAND** RTE R.1, Clarkestown, FEB 22 2245 - bits of English talk; under Algeria. [Connelly\*Y-MA]

261 unID ?, FEB 22 2245 - bits of music in mix with ESG & UFX beacons. [Connelly\*Y-MA]

270 **CZECH REPUBLIC** Ceský Rozhlas, Uherske-Hradiste, FEB 22 2245 - "Fireflies" by Owl City; fair. [Connelly\*Y-MA]

531 **ALGERIA** Chaîne 1, Ain-El-Beida, FEB 22 2244 - drumming // 153; fair over unID talker (probably Spain). [Connelly\*Y-MA]

549 **ALGERIA** Alger Chaîne 1, Les Trembles, FEB 22 2245 - rhythmic modern Arabic music with male vocal & strong percussion; good. [Connelly\*Y-MA]

585 **SPAIN** RNE R.1, Madrid, FEB 22 2245 - fast Spanish talk by man; in WEZE slop. [Connelly\*Y-MA]

603 **FRANCE** France Info, Lyon-Tramoyes, FEB 22 2259 - woman in French; over Spain. [Connelly\*Y-MA]

612 **MOROCCO** RTM A, Sebaâ-Aioun, FEB 22 2259 - Arabic a cappella male vocal, then talk by woman; fair. [Connelly\*Y-MA]

621 **CANARY ISLANDS** // **SPAIN** RNE R.1 synchros, FEB 22 2301 - Spanish news; in heavy slop. [Connelly\*Y-MA]

639 **SPAIN** RNE R.1, La Coruna et al., FEB 22 2301 - news by man in Spanish; fair. [Connelly\*Y-MA]

684 **SPAIN** RNE R.1, Sevilla, FEB 22 2301 - bits of Spanish news; in bad WRKO slop. [Connelly\*Y-MA]

693 **UNITED KINGDOM** BBC R. 5, Droitwich et al., FEB 22 2300 - BBC news; slightly over a pile of others. [Connelly\*Y-MA]

747 **CANARY ISLANDS** RNE R.5 synchros, FEB 22 2300 - pips, Radio Nacional de España ID; poor. [Connelly\*Y-MA]

756 **GERMANY** Deutschlandfunk, Braunschweig & Ravensburg, FEB 22 2300 - electronic music, Deutschlandfunk ID, pips, news by man in woman; fair. [Connelly\*Y-MA]

774 **SPAIN** RNE R.1 synchros, FEB 22 2301 - woman with Spanish news; fair. [Connelly\*Y-MA]

837 **CANARY ISLANDS** // **SPAIN** COPE synchros, FEB 22 2301 - fast-talk Spanish news by man; fair. [Connelly\*Y-MA]

855 **SPAIN** RNE R.1 synchros, FEB 22 2301 - // 774 with news by woman in Spanish; poor in WEEL slop. [Connelly\*Y-MA]

864 **FRANCE** France Bleu, Villebon-sur-Yvette, FEB 22 2259 - soul / jazz female vocal, then woman in French; fair. [Connelly\*Y-MA]

882 **CANARY ISLANDS** // **SPAIN** COPE synchros, FEB 22 2301 - bits of Spanish talk; fair. [Connelly\*Y-MA]

909 **UNITED KINGDOM** BBC R.5 synchros, FEB 22 2300 - // 693 with Five Live mention, news about New Zealand earthquake; fair. [Connelly\*Y-MA]

917 **NIGERIA** R. Gotel, Yola, FEB 22 2200 - bits of talk by man, mostly just a big het against 918. [Connelly\*Y-MA]

918 **SPAIN** R. Intercontinental, Madrid, FEB 22 2230 - Spanish teletalk; poor. Then Gershwin-style orchestral music was noted but that might have been Slovenia mixing. [Connelly\*Y-MA]

945 **FRANCE** France Info, Toulouse, FEB 22 2208 - man & woman in French, bits of interspersed music; fair over WROL slop. [Connelly\*Y-MA]

981 **ALGERIA** RTVA Chaîne 2, Algiers, FEB 22 2208 - woman in French; fair. [Connelly\*Y-MA]

999 **SPAIN** COPE synchros, FEB 22 2231 - fast Spanish talk by man; fair. [Connelly\*Y-MA]

1008 **CANARY ISLANDS** Punto Radio, Las Palmas, FEB 22 2208 - Spanish talker not // SER (1116); poor to fair. [Connelly\*Y-MA]

1053 **UNITED KINGDOM** TalkSport synchros, FEB 22 2209 - man in English with sportstalk mentioning America; fair over unID station with female vocal. [Connelly\*Y-MA]

1089 **UNITED KINGDOM** TalkSport synchros, FEB 22 2214 - two men with sportstalk; mixed with apparent Russian. [Connelly\*Y-MA]

1098 **SPAIN** RNE R.5 synchros, FEB 22 2229 - man in Spanish; over others. [Connelly\*Y-MA]

1107 **SPAIN** RNE R.5 synchros, FEB 22 2229 - Spanish // 1098; fair. [Connelly\*Y-MA]

1116 **SPAIN** SER synchros, FEB 22 2215 - man & woman in Spanish; fair. [Connelly\*Y-MA]

1125 **BELGIUM** RTBF VivaCité, Houdeng, FEB 22 2208 - Celine Dion song "My Heart Will Go

- On"; under Spain. [Connelly\*Y-MA]  
 1125 **SPAIN** RNE R.5 synchros, FEB 22 2208 - two men in Spanish; multiple echoes, mixed with Belgium. [Connelly\*Y-MA]  
 1134 **CROATIA** Glas Hrvatske, Zadar, FEB 22 2208 - Croatian newstalk by man mentioned Sudan, then into classical piano music; very good, way over Spain. [Connelly\*Y-MA]  
 1152 **SPAIN** RNE R.5 synchros, FEB 22 2208 - man in Spanish; fair. [Connelly\*Y-MA]  
 1179 **CANARY ISLANDS // SPAIN** SER synchros, FEB 22 2208 - // 1116 with fast Spanish talk by man; poor. [Connelly\*Y-MA]  
 1206 **FRANCE** France Info, Bordeaux, FEB 22 2208 - man & woman in French, France Info mention, interval music; good. [Connelly\*Y-MA]  
 1215 **RUSSIA (KALININGRAD)** VOR, Bolshakovo, FEB 22 2215 - panel discussion about natural gas use in Europe, production in the Ukraine; over UK.  
 + FEB 22 2300 - light classical music, then woman said "This is the Voice of Russia World Service"; to good peak over UK and Spain. [Connelly\*Y-MA]  
 1215 **UNITED KINGDOM** Absolute R. synchros, FEB 22 2208 - Green Day song; fair over others.  
 + FEB 22 2231 - to good peak with rock music, Absolute Radio ID. [Connelly\*Y-MA]  
 1305 **SPAIN** RNE R.5 synchros, FEB 22 2208 - echoey Spanish talk; poor. [Connelly\*Y-MA]  
 1314 **unID** ?, FEB 22 2208 - "Killing Me Softly" by the Fugees; not // any RNE Spain outlets. [Connelly\*Y-MA]  
 1323 **GERMANY** VOR, Wachenbrunn, FEB 22 2214 - man in Russian; fair. [Connelly\*Y-MA]  
 1377 **FRANCE** France Info, Lille, FEB 22 2208 - woman in French; to fair peak. [Connelly\*Y-MA]  
 1413 **SPAIN** RNE R.5 synchros, FEB 22 2208 - Spanish talk by man, possibly sport-related; fair. [Connelly\*Y-MA]  
 1431 **DJIBOUTI** R. Sawa, Arta, FEB 22 2229 - Arabic talk by man; peaking over slop. [Connelly\*Y-MA]  
 1467 **FRANCE** TWR, Roumoules, FEB 22 2228 - talk by woman; poor. [Connelly\*Y-MA]  
 1476 **SPAIN** Euskadi Irratia, San Sebastian, FEB 22 2207 - man in Spanish; poor to fair. [Connelly\*Y-MA]  
 1485 **SPAIN** SER synchros, FEB 22 2208 - fast Spanish talk by woman; fair. [Connelly\*Y-MA]  
 1503 **IRAN** IRIB 1, Bushehr, FEB 22 2229 - female a cappella chant; fair. [Connelly\*Y-MA]  
 1521 **SAUDI ARABIA** BSKSA, Duba, FEB 22 2207 - Arabic talk by woman then by man, over light music breaks; good to excellent. [Connelly\*Y-MA]  
 1557 **FRANCE** France Info, Fontbonne, FEB 22 2207 - woman in French; to good peak. [Connelly\*Y-MA]

\*\*\* **PAN-AMERICAN DX** \*\*\*

- 570 **CUBA** CMDC Radio Reloj, Santa Clara, MAR 3 0500 - time tick, with RR in code a few seconds after minute mark. Normally very weak, was very strong with intense ticks and code. I expected to hear SS talk mixed with the code as I have in years past but heard nothing but a few weak domestics? [Jasinski-IL]  
 600 **CUBA** CMKV Radio Rebelde, Urbano Noris, MAR 3 0511 - good signal over WMT during good southern CX, SS female talk with music in background, giving a list of names, addresses and phone numbers. [Jasinski-IL]  
 670 **CUBA** CMBA, Radio Rebelde, Arroyo Arenas, FEB 26 0705 - tuned in to find WSCR 670 completely off (repairing their IBOC). Heard them all alone with solid signal until 12:06UTC. There was a mix of lively Carib/Cuban music, program La Hora Musica Cubana mentioned, also a mix of EE music, one selection was "When a Man Loves a Woman" . At top of each hour brief Notica news and a Revelde Havana slogan. [Jasinski-IL]

\*\*\* **CONTRIBUTORS** \*\*\*

**Mark Connolly, WA1ION** MarkWA1ION@aol.com  
 [Connelly\*Y-MA] = South Yarmouth, Cape Cod, MA, USA (GC= 41.6933 N / 70.1912 W)  
 Receiver: Microtelem Perseus  
 Antenna: west-null SuperLoop, 9 m vertical by 22 m horizontal, base height 1 m.

**Tom Jasinski** amdxe@core.com  
 [Jasinski-IL] = Joliet, IL  
 Receiver: Drake R8A  
 Antenna: Quantum Loop

73, Brandon.



**DX FORUM**

**Richard C Evans – 3908 Grand Oak Ave Apt 4 – Indianapolis IN 46237**  
**E-mail: REvans5435@yahoo.com DEADLINES: Sundays**

Deadlines: 3/20 4/3 4/17 5/1 5/15 5/29 6/12 6/26 7/10 7/24 8/20

**Robert Wien, (KG6RJW) 1659 Woodpark Drive, Colorado Springs, CO 80951-2754**

Email: wienbob@aol.com

Happy Anniversary, IRCA! Just a reintroduction: I'm 50, been DX'ing for 36 years now, and a member of IRCA for 35 years, though haven't been actively DX'ing for a year or two. I've been on the BoD so long I forgot when I started. Receivers used: GE Superadio 2, C Crane portable, Select-A-Tenna. I'm hosting the 2011 IRCA convention here in Colorado Springs (convention co-host Mike Sanburn) on Thursday June 23rd through Sunday June 26th at the Airport Value Inn located on the east side of Colorado Springs, about 5 miles north of the Colorado Springs airport, the hotel is located just north of Peterson AFB and about 2 miles southwest of my house. A lot of things have firmed up more since the initial announcement in the IRCA bulletin. I have 2 tours already confirmed, both for Friday June 24th, one for 11:30 AM with KCMN-1530/KCBB-1040 (their studios are a few miles west of the hotel), and a 2 PM station tour with the Citadel Communications Group (KVOR-740/KCSF-1300/KATC-95.1 FM/KKFM-98.1 FM/KKMG-98.9 FM/KKPK 92.9 FM). After the tour, we plan on having a steak dinner at a TBD location here at town, possibly Texas T-bone on North Academy Blvd. or else Texas Roadhouse on South Carefree/Powers a few miles NW of the hotel. Friday night the 24th we plan on having a DX quiz with trivia on Colorado Springs, Colorado and AM radio, winner will receive a TBD prize. I am attempting to set up a guest speaker still; there is a Staff member at KVOR-740 who is interested but I'm still coordinating with him. Saturday morning the 25th at 11 AM I'll lead a tour of AM radio transmitters around town, plan on seeing at least 5 and possibly 6. In the afternoon at about 3 PM, we'll have the business meeting (and TVA/RHA award announcements). At 6 PM, we'll have the IRCA banquet at the Golden Corral restaurant on Powers/Palmer Park Blvd. It's an all-you-can-eat-for-one-price buffet. We had the banquet at the Golden Corral in Albuquerque during the convention Mike and I hosted there in 2009. We'll head back to the hotel after that and at 8 PM, we'll have the IRCA Auction. I am ACTIVELY looking for any radio-related auction items (or even non-radio related if they'll sell!), so far only myself and Mike Sanburn have sent me any items, and we're less than 4 months to the convention, so I'd really appreciate any items you can send. You can send them to: Robert Wien 2910 North Powers Blvd., #106, Colorado Springs, CO 80922-2751. Any donations of stickers, coverage maps, or any other radio station paraphernalia is also most welcome! The hotel has a special block of rooms set off for the convention with a special price, but you need to call the hotel directly. Registration for the convention is \$30, the cost of the banquet is separate, you pay that yourself at the restaurant depending on what you order. Right now, Thursday June 23rd and Sunday June 26th are still open. Depending on how many people are at the convention Thursday night, perhaps we may go see a movie or something, that's TBD. The hotel has a meeting room on the 2nd floor, and right across from it is the breakfast area where you get free breakfast each morning. There's a 7-11 type convenience store next door to the hotel (with a gas station), a breakfast place across the street, and a Dairy Queen and taco restaurant within walking distance. There is a diner-type place on the other side of Highway 24 off Peterson Road. Most of the 'good' restaurants are along the Powers Blvd. corridor NW of the hotel. We'll have our own key to the meeting room so I can open and close it as needed. I'll be staying at the hotel Friday night the 24th to coordinate the xmtr tour in the morning. I'll be at the hotel most of the time though coordinating things as needed. I've already arranged to have visitor's guides to the area at the meeting room 'goodie table' (where we'll have a variety of radio station stickers, and other items free for the taking), and each convention participant will also get a packet of information including agenda, local station details, and other information. I am also having items made with the official convention logo for the auction, you'll get to see those at the auction itself when you come! As further details develop, I'll keep everyone abreast, feel free to Email me if you have any questions. We've never had one in the area and this area is definitely a tourist mecca. Looking forward to a large turnout for the convention!

**Eric Bueneman (NØUIH), 631 Coachway Lane, Hazelwood, Missouri 63042-1347**

First off, I'd like to wish IRCA a very Happy Anniversary. It's clear that a re-introduction is in order, so here it goes. I'm 44 years old now, retired from the broadcast industry since July 2009 after getting laid off at WSIE 88.7, still single, and presently helping my father take care of my mother, who's been suffering from a slower-progressing form of Lou Gehrig's Disease since May 1997. I joined IRCA in the spring of 1994 after 12 years in NRC, served as editor of "Hearing It Through The Grapevine", publisher of DX Monitor, and since August 2010, as your Editor-in-Chief. The most difficult part of putting DX Monitor together at first was putting out the soft copy edition, but I've managed to learn the ropes, first sending it as an E-mail message, then as a Rich Text Format file. I must admit my style is a bit different from my predecessor, Phil Bytheway. At any rate, I've been a DXer since October 1981, DXing from a different QTH in Hazelwood, followed by three years in Woodstock, GA (1988-1991)

and one year (1991-1992) in Marietta before moving to my present location at the end of June 1992. I've DXed the AM, FM, shortwave, longwave, and even the NOAA Weather Radio bands. At this writing, I have 1,201 AM stations in the logbook from my present location, along with 1,079 FMs, 551 analog TV stations, 123 digital TV stations, 26 longwave beacons, 88 NOAA Weather Radio stations and countless shortwave stations. I've also been licensed as an Amateur Radio Operator since October 1992, when I got my Technician Class ticket. I upgraded to General Class in June 2007, and now working on upgrading to Extra. I'm the second generation of my family to be a Ham; when I was growing up, I occasionally visited a second cousin (on my mother's side) who has been licensed since the mid-1960s, and operated from Rogersville and Hollister, MO. I've been mainly active on the VHF bands, but added an HF station in January 2010. This hobby influenced my decision to get into broadcasting. I started in the radio industry at KCFV 89.5 Ferguson, MO, where I learned the ropes in radio during the latter part of 1985 and much of 1986, before becoming a full-fledged DJ in August 1986. I also read news, sports and even did some play-by-play while I was there. While I was in Georgia, I spent one month at WRFG 89.3 Atlanta, before being lured away to WFTD 1080 Marietta. I even spent two tours of duty at crosstown WGHR 102.5, one of the worst-run radio stations I've ever seen, apart from the corporate stations. Why the taxpayers of Georgia would want to waste money on WGHR was way beyond me; thank God they're off the air now. I even explored the possibility of getting a group together to buy KXEN 1010 in 1989-90! At that time, as is the case today, the industry just didn't want to invest in the industry's future. When I returned to St. Louis in 1992, I returned to KCFV, where I stayed another three years. After taking a year off from radio to work two part-time jobs, I filled in as a board operator at WGNU 920 Granite City, IL, when it was owned by the late Chuck Norman, during late 1996 and the first few days of 1997. I worked out of the studios, which was then in The Senate apartment building on Union Boulevard in St. Louis' Central West End. That led to a job as a board operator and staff announcer at WFUN-FM 95.5 Bethalto, IL, which I took in August 1997. There, I took care of local engineering duties for sports coverage, as well as being local producer for Aahs World Radio's morning show, "The All-American Alarm Clock", and running various Christian programs and the Fox Kids Countdown. The station had two studios; I worked out of the Missouri studio in St. Ann. Another studio was set up for local sports coverage at the old transmitter site near Bethalto. That job ended when the station was taken over by Radio One in June 1999. I started at WSIE 88.7 as a summer replacement DJ in May 2000, becoming a regular DJ in April 2001. I also dabbled into news, served as Public Service director, coordinated the station's coverage of St. Louis Blues hockey during the 2003-2004 and 2005-2006 seasons, when WSIE was the St. Louis Metro East affiliate for the Blues' radio network. I even ran WSIE's Internet-only sister station, Web Radio. The loss of WSIE's grants from the Corporation for Public Broadcasting in the spring of 2007 led to the ouster of all local professional talent by the end of 2009. I decided, before 9/11, that WSIE would be my last radio gig. Besides IRCA, I'm also a member of WTFDA, NASWA, ARRL and two local radio clubs, the St. Louis and Suburban Radio Club and the Lewis and Clark Radio Club. If it hadn't been for this hobby, who knows where I would be now? Here's to many more years for IRCA! 73.

#### **Nancy Johnson, 265 Waterton Way, Billings, Montana 59102**

It's time for my annual Anniversary Issue re-intro Forum. I'm married to CDXR editor John, who I met through IRCA 40 years ago. I've been a Roundup editor for 39 years, beginning with EDXR in 1972, and WDXR after moving west. I have two children, and two grandchildren. I'm still employed part-time at OfficeMax here in Billings. In addition to DX'ing, other hobbies include genealogy and camping. My favorite is DX'ing while camping in Yellowstone or Grand Teton Nat. Park. In 1969 I began DX'ing from Fredonia, NY and joined IRCA 40 years ago (1971). From my three DX locations (Fredonia, NY, Aberdeen, WA and Billings, MT) I've heard a total of 2576 stations (some duplicates). I'm a domestic DX'er and spend most of my DX time on the graveyard channels. I would like to thank all the members who make IRCA the great DX club that it is today. There are many people who donate hours of work, both behind the scenes and those whose names are visible in each issue of the bulletin. Also, thank you to all the members who take the time to report to the various editors, as without you there would be no bulletin at all. Hope to see you in June at the convention in Colorado Springs! Happy Anniversary IRCA.

#### **Bill Nittler, 108 El Mundo Road, Belen, New Mexico 87002**

Nittlers@crisp.com My DXing has dropped off the past two seasons, partly due to health and travel. I was in Kentucky when the news of Marv Robbins' death was sent out. I first met him at the NRC convention in Cedar Rapids, IA in 1955 right after he got out of the army. We had a lot of great times in Nebraska. I moved to the Denver area in 1957 and he followed a few years later. In Feb. 1964, six DXers met at the Little Banquet Restaurant in Denver to form the IRCA! Larry Godwin and I are the only ones left in the IRCA. Marv served as our beginning president of the club. He also designed the IRCA emblem. He decided to return to Omaha around 1965 and lost interest in DXing. I also lost contact with him. I was the original publisher in Denver and transferred the job to Don Erickson and Bill Lipis in California after a couple years. Soo...the club is now 47 years old...where did the time go? I

still have a great deal of interest in DX but just not the time and then the changes in conditions, etc. have slowed it down. I have attended the last 3 conventions and intend to be in Colorado Springs in June. My DXing began in Geneva, NE in 1950 when I was in high school and was introduced to the hobby by my older brother, Francis, who died in a car accident on the way to the NRC convention in 1962. Marv Robbins was the only survivor. I DXed from Denver, McCook, NE, Nucla, CO, Rawlins, WY, Kemmerer, WY, Meeker, CO and Mancos, CO. We moved to Belen in 2004 when I retired from 50 years in banking. Our big interest has been traveling (visiting our 7 children scattered from MT to KY). My QSL total from all locations has grown to 3740. My Belen heard log stands at 674. I wish everyone a happy anniversary and great DX!

#### **Mike Hardester, 3118 Gaitway Court, Jacksonville, North Carolina 28546**

DX4EVR@Earthlink.Net Happy Anniversary IRCA. As is traditional, a re-introduction is in order. I'm 61, born in Modesto, California, and I'm married to Caroline. We have a daughter and 2 grandchildren about 2 hours from us and we get to visit often. DX has been VERY slim the past couple of years, though the interest is still there. I routinely DX during early morning trips and sunset drives home. Receivers are 2 ICOMs, R-70 and R-75, and a SONY 2010; a Radio West 22 inch ferrite loop with the standard 2-FETs rounds out the shack. The R-75 was a Christmas gift from my brother, Dan Sheedy, out in California. Thanks, Bro! Officially, I began DXing in 1968, and joined the IRCA about the same time. Though, as a wee lad of 8 or 9 years, I routinely tuned the dials of the family radio. Exact DXing totals are unknown as my computer crashed several months ago. Data is on a back-up disc, but no \$\$\$ to replace said computer. Known totals are 49/50, 5/6 and no idea on country totals. As a Navy Hospital Corpsman, now retired, I had the opportunity to be stationed in a variety of locations in the USA and two tours of duty on Okinawa, Japan. Outstanding DX QTH. About it for now. Very 73 and Best of DX to Mike.

#### **John C. Johnson, 265 Waterton Way, Billings, Montana 59102-7755**

john@johninmontana.com - www.johninmontana.com

It's time for all of us to send in our DX Forum reports to celebrate IRCA's anniversary. Happy Anniversary, IRCA! As you no doubt know, I am a Charter Member of the club, joining when the club formed in 1964. I've seen many changes over the years, but the friendship of fellow members has always been foremost when considering everything about the IRCA. I'm married to Nancy, your WDXR editor. Nancy and I have known each other for 40 years. I have been editing the CDXR column for almost 25 years now and currently serve on the IRCA Board of Directors. I work for KTVQ column 2 here in Billings. May 8th marks my 39th anniversary with KTVQ. It was KOOK-TV when I started back in 1972. There have been many changes over the years from film to computer files. In addition to being master control for KTVQ 2.1 and CW 2.2 I am also technical director for two nightly newscasts. My DX'ing started in 1962 from Sheridan, WY. Back then I used various old receivers including a Hallicrafters SX-16. Now I use my 26 year old Icom IC-R75A or Nancy's much newer Drake R8B with a Kiwa loop, or the great little Sony SRF-59. Other hobbies include computer video and audio editing, web site design, genealogy, TV DX, and collections of all kinds including TV Guide magazines dating back to the late '50s, old radio station music surveys (yes, I still collect these), bumper stickers, sports pocket schedules, Coke-A-Cola items and even The Three Stooges items. Nancy and I plan on attending the Colorado Springs IRCA convention this June and are looking forward to seeing everyone again. Both Nancy and I can be found on Facebook. It is great that the IRCA is still going strong after all these years. Happy Anniversary! 73, John.

#### **Larry Godwin, 2390 Clydes Dale Lane, Missoula, Montana 59804 lbg@mtwi.net**

Greetings and Happy Anniversary, IRCA! I'm 68 now and began DXing at age 16 in 1958 from Amarillo, TX. I've also DXed from Boulder, CO, where I attended the Univ. of Colorado; Berkeley, CA, while I was in graduate school; Corvallis, OR, while I taught at Oregon State; Durango, CO, 1979-1980; and later Missoula, where I'm retired from teaching at the Univ. of Montana. I was one of the founders of the IRCA along with Bill Nittler, Marvin Robbins, John Johnson, John Tracy, and Dallas John (I hope I didn't leave anyone out). We published the DX Monitor on a brand-new mimeograph machine at Marv's apartment in Broomfield, CO, midway between Denver and Boulder. I've been less active this season but have logged two new catches. Thanks to Eric Bueneman for publishing our bulletin and to the officers, editors, and membership for keeping our club healthy and our DXM filled with timely, interesting news. 73, Larry

#### **Richard Evans, 3908 Grand Oak Avenue, Apt. 4, Indianapolis, Indiana 46237-4694**

Another year, another anniversary column, hi. Like others here, I haven't done much listening in the past few years. I was looking forward to being in an apartment and not having to worry about doing things around the house and yard, then discovered the QRM level here is higher than I expected. Getting into the tax return preparation business didn't help any, either but the money is nice to have. I have listened in 7 different locations in 5 states, but the best spot was in northwest Indiana from 1966 to 1978 with some added since then so that I have five different decades showing up in that log. I will have to get up there in the next couple of years to get this decade added to that record. If my

memory is correct, Francis Nittler was in that accident on his way to the NRC convention here in Indianapolis. I joined IRCA when it was 11 months old back in 1965. I have done a few things around the club, mostly editing EDXF before it became just the plain DXF, but also a couple of stints editing CDXR back in the 1970s--back in the last century as I put it. My working background was the trucking industry where I had 38 years before my job essentially became obsolete. I need to get this off to Eric before going to work in just a few minutes. 73.

## VERIFICATION SIGNERS

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

My deadline is the last Monday of the month at 1500 ELT.

### CONTRIBUTOR

IRCA **IRCA ListServ**  
TMJ **Tom Jasinski**, Joliet IL; amdxe@core.com

### FREQ CALL NAME, TITLE; ADDRESS; WHAT; WHEN; WHO

570	CKGL	Pete Travers, PD, <a href="mailto:Pete.Travers@RCI.rogers.com">Pete.Travers@RCI.rogers.com</a> ; Kitchener ON; E; 14; TMJ
783		Radio Damascus, Syrian Arab Republic Broadcasting Service; Q; 79; IRCA
1510	WLRB*	Gary Glaenzer, CE; <a href="mailto:Glaenzer@frontier.com">Glaenzer@frontier.com</a> ; Macomb IL; E; 5; TMJ

**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] = Tip previously reported in December but adds signer's e-mail address

This column was prepared on 2/28/11. 73, SSH.

## IRCA TECHNICAL COLUMN

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

(Editor's note: This unconventional approach to ferrite loop design was just published in MW News, and the article is reprinted verbatim here with permission of the author and of MW Circle. As the author suggests, please use it as a jumping off point for experimentation. The UltralightDX Yahoo group has had some very interesting discussions about "how it works", and a couple of these loops are already in use in North America)

### The FS Loop Antenna by Graham Maynard

*The spin-field Ferrite Sleeve inductor as a receiving 'FS Loop' antenna; (The best compact AM antenna in the world - ever!)*

The performance of this new and extremely simple inductor was examined by connecting its terminals to a variable capacitor for use as a resonantly tuned AM loop antenna, whereupon it was immediately recognised as being a significant step forwards when compared to all previously known tuned long, medium and short wave antenna designs.

Simultaneously, there was a cognitive realisation that this development had, as of its first 7th January 2011 testing date, immediately rendered all prior work, constructions and publications (including my own) relating to resonant ferrite and 'air-core' loop based medium wave antenna designs throughout our history of radio reception - "obsolete".

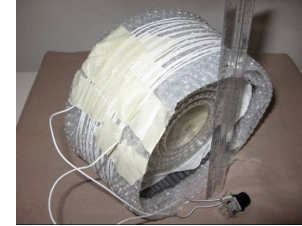
Two MW and one SW example of the compact new form of resonant electromagnetic radiation transducing inductor described below offered more than ten times an increase in sensitivity (20dB) when compared to any equal diameter construction previously available, hence this development cannot be seen as anything other than being very important. Renewed joined together thinking had led to the design of a novel antenna applicable not only to portable and table top AM radio reception anywhere in the World, but additionally via scaling and adjustment for frequencies spanning ULF to 49 metre band and beyond at HF, also for processes relating to alternating field generation within or

beyond its ferrite sleeve, pulsed field technology applications, and possibly the development of compact directional MF transmitting antennas.

### An 8.5cm Medium Wave FS Loop

My first inductor was:

1. a thin layer of foam rubber over a 10cm length of cardboard tube (from the inside of a used kitchen roll);
2. twenty 100mm long by 10mm diameter ferrite rods taped in place as they bedded into the foam;
3. two turns of single layer small bubble-wrap wound on top of the rods bound with tape to create a 5mm gap between the rods and the coil;
4. a 34 turn over-wind of plastic insulated 16x0.2mm (3A) equipment wire, bifilar wound spaced with string such that the outer turns came to within about 1.5cms of the rod ends;
5. winding ends left about 20cm long and connected to a



tuning capacitor out of an old transistor radio, likely having about 200pF of range when the trimmers were set to minimum value.

That was it - less than £10 worth of parts and fewer than 30 minutes between starting and testing.

Well this was daytime, and Radio Lancashire 1557kHz is not normally receivable here North of Belfast on my Tecsun PL-380, yet with this little radio standing its full 8.5cm high against the new slightly less high coil, there it was in full clarity as soon as I adjusted the tuning capacitor, and I have to tell you this, I was gob-smacked.



After 50 years of tuning medium wave stations this little antenna had me astounded, for here it was receiving signals as if it were a full sized box loop and yet it could fit on any bedside cabinet. It was the same with my Sangean ATS-803A too, for this little antenna could remain unseen behind that radio and again provide the type of DXing capabilities I cannot begin to make any reader appreciate without them first seeing and hearing it for themselves. Actually, this was when I became annoyed too, because I realised that this design might have been imagineered some 60 or 70 years ago, but for the conceptual barrier raised against such ingenuity by the thoughtless perpetuation of erroneous concepts related to magnetism and 'transverse wave' theory.

### A 21.5cm Medium Wave FS Loop

That first test had already proved the accuracy of my concepts in relation to electromagnetic radiation photons being transduced via a tuned winding, with the new Ferrite Sleeve behaving exactly as expected. Next I needed to see how an eight inch diameter version would perform; at this point, my wife lost the top 9cm deep plastic section of her 19cm diameter vegetable steamer. It was overlaid with sixty-four 100mm long by 10mm diameter ferrite rods and these taped in place. Again two layers of small bubble-wrap were over-wound to create about 5mm of gap for 24 spaced turns of ordinary insulated 16x0.2mm spread out to cover the rods to within about 1.5cms from the rod ends.

This too was just a typical 'Blue Peter' testing lash-up - but wow - did it work. Only 8.5 inches in outside diameter and providing a genuine 30dB of signal improvement when compared to a single 100mm rod antenna, as was demonstrated by taking an apparently clear channel (determined by the complete lack of BFO beat on my Sangean) to full listening signal strength with any portable radio, including a most basic £5 Matsui radio from Argos.

The increase in received signal strength suggested that dividing the number of rods used by 2, gives a fair indication of what might be expected; e.g. 20 rods gave approximately ten times gain, and 64 rods about thirty times gain. I also judged the performance of the 8.5" diameter construction to be equivalent of that from an eight to nine foot diameter 'air core' loop, suggesting performances where 1 inch of outside diameter for a finished Ferrite Sleeve Loop antenna, is equivalent to 1 foot of outside dimension for an 'air cored' construction. Actually, I thought the larger FS Loop antenna so powerful it might realise a 'portable crystal set' by merely adding a germanium diode and high impedance phones connected in series.

Many years ago I built little regenerative transistor radios, now this FS Loop antenna makes me think it would be possible to build a one-transistor loudspeaker radio project. Also, connecting say a twenty rod FS Loop antenna in place of the first RF coil and having it on a swivel inside an old tube radio or radiogram where space is not limited - would provide amazing MW sensitivity and make an old fashioned "wireless" set really live up to its name!

At night that larger coil provided so much gain that care became essential when positioning a receiver, also when tuning it due to radio input stage overload and induced intermodulation effects being noted. This was not a problem once the new loop was tuned to sidebands farther away from powerhouse signals. Any portable radio need only be brought close to a FS Loop antenna for its amplified magnetic field to become inductively coupled with the radio antenna. When a radio is very close to, or touching an FS Loop, then its internal rod antenna becomes completely controlled by the field generated by the sleeve, which is not a bad thing because the resonantly tuned thermal noise of a radio antenna is then overcome with slight but clearly audible improvement in the wanted signal to noise ratio.

#### High 'Q'.

I tried this larger antenna on LW, beacon and top band frequencies where it performed every bit as powerfully, however I lost my dinner for two days whilst trying it, so it no longer exists. The most significant and instantly recognisable aspect of all these antennas, even with the larger dimension, was their very high 'Q', for even at the high frequency end of the MW band they could be peaked over one sideband. The 'Q' is so high that it is like tuning after regeneration has been applied to a box loop, and yet without any electronic circuitry or additional power source being involved. This had me thinking about electron spin orbits within the ferrite yet again, for something I have not come across before could be happening inside the sleeve to provide that notably high degree of longitudinal field amplification. (?)

Now I am no expert on ferrite, and I do not have any equipment suitable for testing same, but do I feel that electron spin orbits within the rods making up the sleeve are more than simplistically resonantly oscillating about their axes. I cannot imagine the unbonded electron spin axes fully rotating around their molecular centres within the ferrite, yet they might be spin precessing like little gyroscopes due to resonantly alternating energy oscillating between the charge on the tuning capacitor plates acting upon electron motion, and thus their orbital alignment, via the tuned winding induced alternating magnetic field, acting as gravity does upon the spinning mass of a gyroscope, attempting to topple electron orbit spins within the ferrite, first one way and then the other. Thus I could imagine the axes of electrons spin precessing within the ferrite sleeve instead of linearly oscillating like a pendulum would though zero, with the electron orbits gyroscopically storing plus returning more energy, and the gyroscopic electron orbit precession possibly becoming an alternating magnetic wave. This could explain the very high degree of resonant magnetic field amplification quite literally generated around these Ferrite Sleeve Loops.

Given that there really is such high 'Q' and so great a field multiplication, it might prove useful to over-wind an additional single wire turn, and then connect its ends to a potentiometer in order to form a 'Q' damping control, or, split the winding into two halves and connect a low resistance potentiometer at their central ends. Either method will maintain loop balance and thus its inherent figure-of-eight reception pattern, whereas a potentiometer inserted in series with just one winding end would not. If an FS Loop were to be made with end covers over the rod ends, or around the end of an empty plastic food or paint container etc., there could be 'panel' space for mounting a tuning capacitor with some kind of plastic dial, a 'Q' control, and maybe even a range changing switch. Obviously hand capacitance effects can be a problem with circuits having very high 'Q', so mount the tuning capacitor away from hand movement, and use as large an insulated knob as possible. In the past I have overcome this problem by using a twin gang 500pF component with the winding ends connected to one set of fixed vanes each; this makes the maximum value swing just 250pF, but then hand capacitance is common to the centre spindle only, and cannot affect tuning.

I also need to comment about dimensions in relation to the external fields generated by these inductors, because you could tune one about 6" in diameter or larger, in one room, and couple with it through a dividing wall to a radio in an adjacent room. Also, when my larger FS Loop was tuned and then moved towards anything metal (or anything metal moved towards the loop) it would start going off tune beyond a distance of about 60 cm - 2ft! Even the silvering and metal frame of a sliding mirror-robe door also affected tuning beyond 60cm, whilst mattress springs had me wondering where the previously amazing performance had gone to when I set one on a bed for some quick listening checks. Thus the FS Loop antenna works best well away from any metallic objects, including wires embedded in walls etc.

#### Large field

Where above I wrote about the toroidal (doughnut) shaped field lines, once you construct one of these antennas you will be able to understand these by tracing the figure of eight antenna field using a small radio. When the radio is tuned to a station it cannot otherwise receive on its own, you will appreciate the magnetic field lines turning from being lengthways-on beside the winding, becoming 90 degrees rotated either side of each end, and then rotated another ninety degrees in line with rod ends. The centrally extending vortex of weak coupling does not resolve until a radio is positioned fully inside the coherent field and close to the rods inside the sleeve.

Also regions or angles of reception null at some 2 to 20cms distance can be noted where directly received signal tuned by the radio becomes cancelled out by the field generated by the loop. Occasionally this effect can be put to good use for nulling powerful stations so that weaker co-channel ones may be heard; the loop needs to be tuned to the weaker signal, and the radio must not be so close that it becomes fully mutually coupled with the loop.

Antenna 'Q' related AM signal demodulation is another aspect to be considered here, for there are two ways of enhancing AM listening quality. One method (technical within the receiver itself) relates to 'switching' the demodulator synchronously in perfect time with the received carrier so that even during ionospherically induced fading the de-modulation cannot lose carrier related coherence. Very few receivers come provided with synchronous demodulators, and yet this is a system where two different stations on the same channel may be received entirely separately! The other way of enhancing poor signal reception is by having a high 'Q' antenna capable of peak tuning on the wanted carrier frequency such that the antenna becomes synchronised with its carrier, and the signal entering the radio enhances the radio's standard envelope demodulation capabilities. This is where the FS Loop provides a 'gyroscopic' advantage when used with ordinary radios, and especially for weaker signal reception in the presence of random electric noise fields.

#### Parts and larger size

Another notable aspect relates to how exceedingly quiet these antennas are. They have lower winding resistance plus small, totally isolated and floating balanced windings so much smaller than conventional 'air core' loops, and therefore they pick up much less voltage field interference (sometimes called the vertical effect). They certainly pick up much less noise than my Tecsun PL-380 does on its own, for this little radio can sometimes 'hear' radar like swooshes (likely switch-mode power supplies cycling without load) which other radios do not because the interference is not predominately within the MW band.

I would expect a Ferrite Sleeve antenna made out of as few as ten rods to perform very well, and I even tried one of twenty 6" long by 5/16" diameter rods inside a glass jar with the coil wound over the outside, this being truly excellent too; so everyone should feel free to try whatever they might have to hand. Unfortunately ferrite rods have become much more expensive recently, though Rapid Electronics [Rapid Electronics Limited, Severalls Lane, Colchester, Essex CO4 5JS UK] have been selling them at a very competitive price –

<http://www.rapidonline.com/1/1/4790-ferrite-rod.html>

<http://www.rapidonline.com/Electronic-Components/Capacitors/Variable/Miniature-tuning-capacitor-100V/61811/kw/tuning+capacitor>

Having already tried two sizes already, I would recommend a good size to make the FS Loop antenna would be one utilising between thirty and fifty 100mm long by 10mm diameter ferrite rods, for a completed antenna of between four and six inches outside diameter, and capable of performing as well as a conventional tuned four to six foot 'air core' tuned loop. However even the twenty rod version worked astoundingly well whilst remaining very portable, and thus it represented a very useful night-time TA capable complement for modern Ultra-Light receivers.

From observations I would expect a 200 rod version to have a diameter of about 60cm, with a likely 40dB sensitivity gain over bareback portable MW receiver performance, and thus be approaching Beverage antenna performance via loop reception. This would be so sensitive it would overload almost any receiver unless used in quiet (remote) locations. It would also generate a massive RF field around itself, so if taken to a DX-pedition site ought not be used in the same part of a house where other receivers are connected to Beverage antennas. I could however see a Ferrite Sleeve Loop antenna being useful if tuned and rotated near an incoming Beverage feeder to null out some undesired signal masking wanted reception.

#### The 11cm Shortwave FS Loop

Thinking it likely that this kind of antenna would work very well at tropical 120 metre band frequencies, and maybe even 90 metres too by adapting antenna turns and tuning capacitor value, I thought I would try making an FS Loop specifically for these frequencies.





This one was around the card inner tube from inside a standard roll of 5cm wide masking / parcel tape; with thirty 100mm by 10mm diameter ferrite rods taped in place over it; then a poly-foam protective wrap to create a 5mm gap; this then over-wound with 12 turns of (string spaced) 24x0.2mm standard insulated wire.

Portable radios tuning between the 180 and 49 metre bands do not usually use a ferrite rod (frequencies 1.7 to 6.2MHz), but do come with a telescopic antenna that can sometimes leave small radios a little deaf below 4MHz. Clearly there was no chance of mutual FS Loop field coupling here, and so I was wondering how an FS Loop might be connected to a portable because small portables don't come with sockets through which say, an additional single turn wound over the main 12 turn winding on an FS Loop could be feeder connected.

Then I remembered that my original aim for these inductors was for them to couple with or to generate electromagnetic fields in the 'free' space surrounding them, and now, because their resonantly energised electron spin fields do exactly that;- via the natural impedance of electron spin coupled surrounding space, all I would need to do is connect one coil end to a collapsed telescopic rod to provide tuned lower MHz SW reception. Thus the resonant, photon generated voltage developed by the inductor, would effectively be in series with the natural impedance of surrounding electro-magnetic space for simple coupling to any portable via a single connection.

Once again the reception provided by an FS Loop had me sitting there in a daze of incredulity, for it works brilliantly! Never before have I heard such clean 75 metre band reception because no telescopic or outdoor wire can work like this. At 10cm long via 11cm diameter this FS Loop antenna was just like having an ATU with an outdoor long wire antenna plus feeder, only better, because it could be rotated to reduce either local TV time-base-computer PSU interferences, or null the communications type buzzes so prevalent on lower frequency short waves. Those nulls were almost figure of eight on both 120 and 90 metre bands as well, though less well defined on 75metres, yet still helpful as high as 49 metre frequencies where the direct connection of the receiver was clearly having a much greater unbalancing effect upon loop characteristics.

Yet again, here was a compact 'bedside table' sized SW antenna capable of competently and most conveniently feeding a portable without either any need to raise its interference collecting telescopic antenna, or any need to bring outdoor feeder cables into living spaces. Long Live AM!

#### Other Notes

Another use I could imagine for this kind of inductor is as the field coil for a metal detector. One of these coils would definitely not be lightweight, but its spin-field would be many times more sensitive to small metal objects in line with the edge of the sleeve.

Given the efficiency of a Ferrite Sleeve inductor at resonance, this type of component could make either a high efficiency tuned RF inductor or transformer; be used as part of a compact directional transmitting antenna; for at the end driving of Tesla coils; be used in pulsed field applications; f or radio therapy treatments; or for inducing fields in say a liquid close to the sleeve.

#### Summarising the Ferrite Sleeve Loop antenna

An incident radio frequency photon stream energises alternating electron motion through the metal atoms within the coil winding.

A tuning capacitor connected across the coil forms a resonant circuit where charge voltage developed across the capacitor becomes phase shifted with respect to electron flow through the coil.

The coil induces a homogenous alternating magnetic field through most of the Ferrite Sleeve; this in turn causes electron spins within the ferrite to align axially near the winding.

Resonant energy alternations between charge in the tuning capacitor and electron orbit spin alignments within the ferrite, magnify the amplitude of oscillation for both the photon induced voltage developed across the tuned winding, and the external magnetic field generated by electron orbits within the Ferrite Sleeve.

This cannot happen with long and/or thick ferrite loop-stick antennas, because photon-energised field-induced electron-spin orbits within those solid rods are -

- not energised directly by electromagnetic radiation; and
- when energised by a relatively small coil, are not homogeneously coherent and co-axial throughout the entire rod length and diameter.

It is essential that the magnetisation of ferrite be imagined as electron spins within the material being mutually aligned via external field lines of a coil or a magnet. Also, coils are coils no matter what; so going to a large diameter with respect to coil length increases winding 'C' and 'R', which reduces 'Q' because the increase in 'L' with diameter cannot compensate.

#### Further thoughts

- When it comes to an FS Loop it is likely that the thickness of ferrite in a sleeve could have a significant bearing upon coil diameter range with respect to length. All of my tests with a mean sleeve diameter of between 0.5x and 2.0x rod length have proved successful, with the coil then wound over a 5mm insulation gap.
- I have not checked for optimum dimensions of Ferrite Sleeve thickness, or length versus diameter, these aspects still need to be empirically verified; however the ordinary insulated cable winding length ratios of 0.7x Ferrite Sleeve length tested for MW (7cm of winding on a 10cm rod) and 0.8x for SW have already worked well.
- I would expect any increase of FS Loop diameter for any given length of ferrite rod or coil to also increase the overall sensitivity, though with 'Q' falling from its inherently very high starting point. As an antenna having too high a 'Q' can impair program listenability, Litz wire is definitely not necessary when constructing the FS Loop.
- With tuning capacitor vanes fully open, I would adjust the number of turns wound on an FS Loop to resonate at the highest required reception frequency, i.e. 1700kHz for MW, and then ensure that the variable capacitor has sufficient swing to tune the lowest desired frequency, say 520kHz. Additional switched tuning capacitor padding can easily make a MW FS Loop tune beacon frequencies; a LF beacon FS Loop tune LW broadcasts; or a Tropical Bands FS Loop.
- Also, I would not recommend using any varicap tuning arrangements due to the high RF voltages developed by the winding then also appearing across the semiconductor itself. Hence Ferrite Sleeve antennas should not be directly connected to radios utilising varicap diodes, as with the modern Ultra-light receivers.

(Inductive mutual field coupling between an FS Loop and portables/ Ultra-lights is already more than adequate anyway.) Why not have a go at replicating my work and then let everyone know your results. I can be contacted at [graham.maynard1@virgin.net](mailto:graham.maynard1@virgin.net)

(You can find the ultralightDX group at [www.groups.yahoo.com](http://www.groups.yahoo.com), and a more detailed write up about Graham's work with this antenna is at: <http://www.gmweb2.net/The%20FS%20Loop.htm>)

### GEOMAGNETIC INDICES

Compiled by: Phil Bytheway

E-mail: [phil\\_tekno@yahoo.com](mailto:phil_tekno@yahoo.com)

#### Geomagnetic Summary February 1 2011 through February 28 2011

Tabulated from email status daily.

Date	Flux	A	K	Space Wx					
2/ 1	80	10	2	no storms	15	113	5	2	strong
2	79	6	1	no storms	16	114	2	0	minor
3	80	2	0	no storms	17	111	2	2	no storms
4	82	15	5	minor	18	125	17	2	moderate
5	81	15	2	no storms	19	109	6	1	no storms
6	80	14	2	no storms	20	105	8	2	no storms
7	82	4	1	no storms	21	97	9	1	no storms
8	90	5	1	no storms	22	91	2	1	no storms
9	89	2	0	minor	23	89	3	0	no storms
10	91	4	1	no storms	24	89	2	0	no storms
11	91	3	2	no storms	25	88	2	1	no storms
12	96	3	0	no storms	26	90	5	2	no storms
13	107	2	0	moderate	27	90	2	0	no storms
14	113	8	3	minor	2/28	96	2	1	minor

#### NRC AM Radio Log, 31st Edition

The **NRC AM Radio Log** is unbound and three-hole punched for standard binders. Media Rate: \$19.95 to US IRCA/NRC members; \$25.95 to US non-members; to Canadian members, \$24.00 (\$28.95 to non-members); add \$3.50 for Priority Mail. Airmail to all outside of USA/Canada: \$33.00. Canadian orders: PayPal or postal MO only. Order from: NRC Publications – PO Box 473251, Aurora CO 80047-3251, or via [www.nrcdxas.org](http://www.nrcdxas.org). (CO residents, please add 3.5% sales tax.) Please state your IRCA membership affiliation when you order.

#### The NRC AM Antenna Pattern Book

The Pattern Book now includes daytime and "Graveyard" frequency patterns for the first time. For those stations which operate with 50 kW (and higher in Mexico) non-directional (designated U1 in the AM Log), the day 'pattern' is shown to approximately the predicted 0.5 mV 1M coverage limits, while

the night pattern is illustrated approximately 1.5 times larger. Stations in Alaska and Hawaii are listed on separate pages at the end of the book. The basic list of U.S. and Canadian stations comes from the 26th Edition of the National Radio Club's AM Radio Log. Mexican stations in the states bordering the United States plus those stations elsewhere which are easily heard in the U.S. and Canada are also included. All data is up-to-date as of November 1, 2005.

Prices: \$16.95 to USA/Canada IRCA/NRC members, \$22.95 USA non-members, \$25.95, Canada non-members/all overseas orders. Order from: NRC Publications – PO Box 473251 – Aurora CO 80047-3251 (CO residents, please add 3.5% sales tax). Please state your IRCA membership affiliation when you order.

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#### An Introduction to Broadcast Band DXing

This tri-folded brochure is ideal for explaining the Broadcast Band DXing hobby and the IRCA. It can be included with reception reports and given to other interested folks. Sub topics include: What is DXing?, Broadcasting's early years, The first DXers, Clubs helped listeners share, Our hobby today and DX clubs still unite listeners. It is two color printed on heavy stock. Price is \$0.35/brochure (US and Canada), \$1.00 (rest of the world). Minimum order is 10.

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#### IRCA Reprints

The IRCA maintains a large file of articles that have appeared in past issues of **DX Monitor**. These articles cover a wide variety of topics, including: antenna theory and construction, tips for the foreign BCB DXer, how to improve your DXing skills, history of DXing and broadcasting, lists of stations by subject, construction projects and receiver modification, receiver reviews, medium wave propagation, and more. Copies are available for a nominal charge. Price for the complete list is \$1.00.

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**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.



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