



DX MONITOR

The official publication of the
International Radio Club of America

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Welcome to 2015!! DX and report often. Seattle deadline Monday 6 PM PLT.

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IRCA ELECTIONS – Nick Hall-Patch – 1538 Amphion St – Victoria BC V8R 4Z6
E-mail: nhp@ieeee.org

Nominations for the IRCA 2015 Elections

IRCA members, it is time to think about who you would like to represent you as the next club President, Secretary-Treasurer and Board of Directors. Their terms will start on September 15th, 2015 per the IRCA Constitution, Article III, Section 5, Part 2. Nominations will be open for President, Secretary-Treasurer, and seven members of the Board of Directors from December 1st, 2014 through January 15th, 2015. Only one nomination each for President, Secretary-Treasurer, and only seven nominations for the Board, shall be allowed each IRCA member. An eligible member may nominate his or herself. All nominations must be submitted in written (e-mail) form to the ECC by January 15th, 2015. IRCA's Election Committee Chairman (ECC) is Nick Hall-Patch, who can be contacted via email at: nhp@ieeee.org

Nominations Are Open for the TVA and RHA for 2014-2015

Ted Vasilopoulos Award (TVA)

Ted Vasilopoulos was a charter member of IRCA who died in 1965, and was known for his high DX standards and contributions to the club. This award in his honor is presented to the IRCA member who has contributed the most to IRCA and the DX hobby during the past several years. The following persons have won the TVA in the last five years and are ineligible this year: **Nick Hall-Patch, Lee Freshwater, Richard Evans, Phil Bytheway and Bill Block.**

Ric Heald Award (RHA)

Ric Heald was an enthusiastic IRCA volunteer and contributor. In 1995, after his passing, the RHA was created to recognize the IRCA member who most benefited the club in a particularly noteworthy way during the previous year. The following persons have won the RHA in the last three years and are ineligible this year: **Mark Connelly, Kraig Krist and Mike Sanburn.**

All nominations, including a brief statement supporting the nomination, should be sent to Nick Hall-Patch, at nhp@ieeee.org

All nominations must be received no later than February 15 2015.

AT&T AND THE RADIO NETWORKS

Hi Phil. I wanted you to know the free e-book: "Connecting the Continent" was published in August in its final revision, incorporating great feedback from readers and adding a wealth of information turned up in the months following the initial release. It's also been reformatted for more-logical reading.

This free book was written in the spirit of 'sharing and learning.' You can gather a good amount of information about the revised contents by screening the first few pages.

"Connecting the Continent: A revised view of AT&T and the radio networks" is available free at www-dot-durenberger-dot-com in both a clean revised model... and a 'red-lined' version for previous readers who want to look at what's changed.

Mark Durenberger, CPBE

IRCA Slogans List

Kraig Krist has agreed to take on the IRCA Slogan's List. Plan is to publish a new list early next year. Please send all updates to him at kg4lac@gmail.com.



WESTERN DX ROUNDUP – Nancy Johnson – 2922 S Olivewood – Mesa AZ 85212-2923
E-mail: NancyJohnson@prodigy.net

WDXR DEADLINES: Jan 2, Jan 9, Jan 16, Jan 23, Jan 30, Feb 6, Feb 13, Feb 20, March 6, March 20 and April 3. Please use Eastern Time.

REPORTERS FOR THIS ISSUE:

- (RB) **Rick Barton**-Box 1804-El Mirage AZ 85335 desertmoon_dxshack@inbox.com
GMC Sonoma dashboard factory radio, Radio Shack 20-629
- (BB) **Bill Block**-Prescott Valley AZ billblock@cableone.net
Drake RB
- (JCJ) **John Johnson**-2922 S Olivewood, Mesa AZ 85212 John_Johnson@prodigy.net
Icom IC-R71A, Kiwa loop
- (MS) **Mike Sanburn**-PO Box 1256-Bellflower CA 90707

- 600 KROD **TX**, El Paso 12/23 2030 "ESPN 6-hundred, El Paso" up out of the rumble. In & out after a few minutes, then gone. KOGO came on the channel while I was waiting for a return of KROD. New log. (RB-AZ)
- 740 KVOR **CO**, Colorado Springs 12/19 1932 "KVOR." (BB-AZ)
- KRMG **OK**, Tulsa 12/19 1937 with "KRMG FM 102.3." (BB-AZ)
- 750 KHWG **NV**, Fallon 12/20 1910 with "KHWG, The Hog." (BB-AZ)
- 790 KSPD **ID**, Boise 12/20 2000 with "Boise's Solid Talk KSPD Boise." (BB-AZ)
- 960 KGKL **TX**, San Angelo 12/22 0846 with "KGKL." (BB-AZ)
- 980 KMIN **NM**, Grants 12/23 1100 with "This is AM 980 KMIN Grants" legal ID. "K-mine Country" and "K-mine 980" slogans. (JCJ-AZ)
- 1120 KZSJ **CA**, San Martin 12/25 1940 monologue by male in South East Asian language (likely Vietnamese or Hmong). Heard on a null of KANN Utah with strong, strong signal. Thanks to Dennis Gibson (CA) for heads up that this station may be a "cheater" with day power at night. (RB-AZ)
- 1130 KWKH **LA**, Shreveport 12/24 0045 sports talk program to "We are Fox Sports" and update at ToH "1130 – The Tiger." On Radio Shack 20-629 with internal bar oriented for E-W reception. (RB-AZ)
- 1170 KYET **AZ**, Golden Valley 12/23 0825 with "KYET AM 1170." (BB-AZ)
- 1210 KPRZ **CA**, San Marcos 12/26 1058 out of "Focus on the Family" with a "1210 KPRZ" jingle. Mention of kprz.com web site. (JCJ-AZ)
- 1230 KEXO **CO**, Grand Junction 12/19 1900 with "KEXO Grand Junction, The Sports Leader." (BB-AZ)
- KKPC **CO**, Pueblo 12/21 1959 "KKPC." (BB-AZ)
- KYVA **NM**, Gallup 12/21 at 0847 with "KYVA Rockin Oldies." (BB-AZ)
- 1260 KBSZ **AZ**, Apache Junction 12/23 1901 with "KBSZ Apache Junction." (BB-AZ)

1350 KTIK ID, Nampa 12/21 1904 "93.1 The Ticket" then weather report at 1905. (BB-AZ)
1470 KVSL AZ, Show Low 12/20 weak, fading in and out under XERCN, 0043 with "Right here on KVSL" during promo. (JCJ-AZ)
1490 KOWL CA, South Lake Tahoe 12/25 0707 rising above the mess with jingle singing call sign and city. (MS-CA)

It looks like the busy holiday season has taken a toll on the amount of time people have to DX. Happy New Year everyone! – Nancy 8/25 2100

EASTERN DX ROUNDUP – Eric Bueneman (NØUIH) – 631 Coachway Lane – Hazelwood MO 63042-1347
E-mail: n0uiheric@aol.com DEADLINES: Thursday 2000 ELT

TUNING THE DIALS THIS ISSUE:

(JJR-MI) John J Rieger, L'Anse MI
Grundig Satellit 750, stock antenna

ACROSS THE DIAL

- 1230 KGHS MN, International Falls – 12/11 0832 noted with mention of "...at Super Foods, Highway 11 in International Falls". A poor signal was noted in the mess. (JJR-MI)
- 1230 KDIX ND, Dickinson – 12/12 0800 noted with "A Taste of Honey" by Herb Alpert and The Tijuana Brass, legal ID into CBS News. A poor signal was noted atop the mess. (JJR-MI)
- 1240 WJON MN, Saint Cloud – 12/13 0814 noted with an ad for Kia of Saint Cloud. A poor signal was noted, mixing with two other stations. (JJR-MI)
- 1240 WJMC WI, Rice Lake – 12/13 0850 noted with forecast for "rain on Monday" and "AM 1240 WJMC" ID. A poor signal was noted; lost to WIAN. (JJR-MI)
- 1380 KAGE MN, Winona – 12/13 (no time) noted with mention of "in downtown Winona" and "high today 42". A poor signal was noted in a tight null. (JJR-MI)
- 1460 KLTC ND, Dickinson – 12/12 0810 noted with programming from the Dakota News Network, a long detailed weather forecast, mention of "a balmy 35 in Dickinson", followed by an ad for Seier Oil Services. A poor signal was noted with no sign of KXNO. (JJR-MI)
- 1490 KOVC ND, Valley City – 12/12 0808 noted with Dakota News Network programming, ad for a car repair business and an insurance agency, mentioning a toll-free number of (877) 219-8779. A poor signal was noted, although atop the frequency. (JJR-MI)
- 1590 WCGO IL, Evanston – 12/11 1814 noted with mention of "Saturday 8:00 to 11:00 on 1590 WCGO" ID into the Illinois News Network in a fade-up. A poor signal was noted. (JJR-MI)
- 1600 KDAK ND, Carrington – 12/12 0805 noted with mention of "at Central and Main in Valley City" into Dakota News Network programming. A poor signal was noted, although atop the frequency; still in at 0828. (JJR-MI)

EDITOR'S NOTES

Thanks to John for his report for the final EDXR of 2014! Although he submitted some logs in his report with times in CLT (Central Local Time), I had no problem converting the times to ELT, since CLT is one hour earlier than ELT. Here's a reminder: submit your reports with time in ELT. Best of DX to you in 2015!
73 and good DX from NØUIH

DX WORLDWIDE – WEST – Patrick Martin – PO Box 843 – Seaside OR 97138
E-mail: mwdxer@webtv.net all times UTC

Deadline Monday's noon PLT. Please note the order of things when reporting, country, city, estado, slogan/network, time before date. All times UTC/GMT.

PAN AMERICAN DX ROUNDUP

- 720 NICARAGUA. 0431 12/24, last few bars of a national anthem, vaguely familiar, then off. With WGN weakened and nulled. I bet it's YNA3RC, Radio Católica – yes, then looked up in WRTH 2015 and it's one of the stations still listed with a schedule, odd sign-off time of 0430, and a YouTube of the NA matches well enough: https://www.youtube.com/watch?v=W_oppAIORos. (GH-OK)
- 1060 MEXICO, XERDO, Reynosa, Tama. @ 1182 km/735 mi. Heard at 1204 12/23 with musica grupo and frequent "Radio Raza" ID with an occasional "XERDO". Faded out under CKMX after 1313. (RA-OK)
- 1170 MEXICO, XERT, Reynosa, Tama. 0136 12/23, hoarse Spanish gospel huxter conversing with a better-voiced one, surprisingly dominant N/S with KFAQ Tulsa E/W easily nulled, except for a SAH of 112/minute = 1.87 Hz. Must be XERT, supposedly a 5 kW daytimer. I am also getting Spanish on 1190, and from the San Juan/McAllen station on 1210. Conditions rather auroral. At 0142, 1170 talkers say they are "ubicado a 1868 Norte Raúl Longoria, aquí en San Juan, Texas" [not Tejas, where there are no 1170s at all]. San Juan is the closest trans-riverian town to Reynosa. Plug special Wed service at 7 pm (Xmas eve), more info from 956-702-3211. (GH-OK)
- 1190 Unid MEXICO. 0144 12/23, Spanish discussion of navidad and niños, while I am getting 1170 XERT and 1210 KUBR; dominant N/S but with fast SAH. Could be Contacto 1190, Monterrey, previously logged, or XEWK Guadalajara; Tampico, or Orizaba, but my first choice would be cultural XEXQ San Luis Potosí which once upon a time was on SW 6045. (GH-OK)
- 1220 MEXICO, XEB, Mexico, DF. 0146 12/23, Spanish from N/S, Woman chatter mentions Antena Radio, ie an IMER station so I check 1570 XERF for //, and so it is, except XERF is running about a semisecond behind, satellite feed delay. So 1220 of course is XEB, allegedly 100 kW. (GH-OK)

THANKS TO THESE REPORTERS

GH-OK GLENN HAUSER, Enid OK
Mostly DX-398 with internal antenna only or Sony SRF-59
RA-OK RICHARD ALLEN, near Perry OK
Barefoot Sony SRF-T615

TROPICAL BAND DX (2300-5060 kHz) – Patrick Martin – PO Box 843 – Seaside OR 97138
E-mail: mwdxer@webtv.net all times UTC

Deadline noon PLT. All times UTC/GMT.

- 2850 DPR KOREA, KCBS. 1330 12/21. Somber woman in Korean to symphonic sounding music and military choir singing patriotic music. This irregular one is on again today. Good. (RB-AZ)
- 3320 DPR KOREA, Pyongyang. 1355 12/19. Patriotic music on thru the ToH to woman presenter. Fair/Good. (RB-AZ)
- 3480 REP KOREA, Voice of the People. 1355 12/19. Impassioned speech by woman in Korean over top of jammer. Good. (RB-AZ)
- 3945 JAPAN, Radio Nikkei 2. 1225 12/15. Program with "classic" rock n roll, including the infamously overplayed "Smoke on the Water". Good. Male announcer with English lang. ID at 1240. (RB-AZ)
- 4835 AUSTRALIA, Alice Springs, ABC/NTS. 1355 12/15. Dialogue with 2 men in English to fanfare music, news re: hostage situation in Sydney. Fair/Good. (RB-AZ)
- 4940 CHINA, Voice of the Strait. 1325 12/16. Female vocal music; Good. (RB-AZ)

THANKS TO THIS REPORTER

RB-AZ RICK BARTON, El Mirage AZ
Drake R8, Grundig Satellit 750, HQ-140X & HQ-180A, outdoor Slinky, outdoor random wire, 1 indoor wire

"DX Monitor" on DVD

IRCA's regular bulletin "DX Monitor" Volumes 1 through 49 in .pdf format on 2 DVDs. Re-live the days gone by and re-introduce yourself to the former members who helped make the IRCA great!! NOTE: You will NEED a DVD reader to open the .pdf files. These files were TOO LARGE to use regular CD's.

Prices: IRCA/NRC members – \$15.00 (US), \$16.00 (Canada) \$16.50 (México), \$17.50 (rest of the world). Non-IRCA/NRC members – add \$2.00.
To order from the IRCA Goodie Factory, send the correct amount (in US funds payable to IRCA) to: IRCA GOODIE FACTORY, 9705 MARY NW, SEATTLE WA 98117-2334. Or, order through PayPal [add \$1.00] to email: phil_tekno@yahoo.com (Phil Bytheway). Please state club affiliation when ordering.

ASIA AND PACIFIC

CHINA: 1062 Zhujang Broadcasting, Guangzhou, is no longer running 24 hour operation – its monitored operating hours are from 2200utc to 1600utc – possibly its relay transmitters on 927 and 801 run the same hours, and I suspect on Sunday the hours are 2200utc to 1500utc. They still run 24 hours on their parallel FM frequency in Guangzhou. Its 927 outlet located about halfway between Guangzhou and Zhouhai near Macau puts out a very good groundwave signal. I believe I saw the antenna system when was travelling between Zhouhai and Guangzhou on a high-speed train. (Tony Magon (4/12-2014) mediumwave.info)

HAWAII: KEWE-1240, Kahului is on the air with Gospel music "The Spirit of Maui". CP for 5KW, but currently running 1 KW, according a Scandinavian DXer I got an e mail from. I tried tonight, but not heard as yet here on the coast. PO Box 1437 Wailuku HI 96793. They also have an FM and a website. The first Graveyarder Hawaii has had since the 60s when KTOH moved from 1490 to 1350 kHz. This should be a good challenge for even the DXer on the West Coast. But once they boost to 5KW, it should be easier when conditions are decent. The station was logged by a DXer from Finland already. It came on Nov 22nd. (Patrick Martin, IRCA e-group) Website is <http://kewe1240.com/>. (Chuck Hutton)

INDIA: AIR Nangli (Delhi A) is now on simulcast mode on 819 kHz analog + 828 kHz DRM. Schedule: 5.55 am – 9.00 am IST, 10.00 am – 3.30 pm IST, 5.00 pm – 12.00 am IST (Alokesh Gupta, dx_india)

JAPAN: NHK2 local IDs no longer heard at 1320Z. The NHK2 format seems to have been changed. Regional news on NHK1 remain as listed in WRTH 2014. (Jorma Mäntylä, Arctic) The change was first noted here in September. Not sure when it first took place. NHK2 stations still ID at signoff. (Portzer)

MACAO: No sign of Radio Vila Verde on 738 kHz. The two FM freqs of TDM in Portuguese and Cantonese as reported in WRTH are operational. I checked 738 again from Hong Kong airport just over a week ago when leaving for Sydney and still no sign of it on 738. The new Hong Kong airport is just across the water from Macau, so if it was on the air, it should have been loud and clear. Was at the airport from 1630 to 2330 local time. (Tony Magon, visiting Macao in early November via ADXN)

PAKISTAN: Radio Pakistan Islamabad has formally inaugurated its new 500 kW MW transmitter at 585 kHz on 5-12-2014. I monitored the broadcast for two days ie 6th and 7th December 2014. The signal was strong in the morning and daytime. But in the evening from 6 pm to 10 pm (Pakistan Standard Time [= UT +5]) it experienced strong interference from co-channel All India Radio Nagpur station which operates on the same frequency.

From 9 pm (Pakistan Standard Time) onwards All India Radio broadcasts Indian classic Music on its national hook-up. Indian classical music is not very pleasant to listen. The strong interference heard at my location makes it difficult to listen the broadcast from Islamabad. Radio Pakistan Islamabad concludes its transmission at 10:15 PM PST, whereas in the past it used to broadcast till 12 pm.

We could hear Radio Pakistan Islamabad clearly when All India Radio Nagpur signed off. Previously Nagpur Station was using a transmitter of 100 kW but it has been up-graded to 300 kW. In the given situation where the co-channel All India Radio Nagpur upgraded the strength of transmitter from 100 to 300 kW, the new transmitter of Islamabad is facing strong interference from Nagpur.

The programmer content of Radio Pakistan Islamabad is not very good at the moment. In the presence of separate News and Current Affairs Channel which is being broadcast on new 100 kW transmitters country-wide, I do not know why they are relaying the same on Radio Pakistan Islamabad from 7 to 9 pm. Just a duplication. They might improve the program content in coming days. Warm Regards. (Aslam Javaid, Lahore Pakistan, Dec 8, DX LISTENING DIGEST)

THAILAND: Radio Saranrom is operated by Thailand's Ministry of Foreign Affairs using a one megawatt mediumwave transmitter. Programming is mainly in Thai but they also air a weekly show 'News & Views' presented in English (Monday 1100-1130 UT). The broadcaster has a Thai/English website at saranrom.mfa.go.th with live streaming, an extensive on-demand audio archive and programmer details. The station was observed at 2230 UT on 30 November 2014 signing-on their broadcast day at 2230 UT on 1575 kHz (with poor reception via Global Tuners Hong Kong remote receiver) and on their online stream. (David Kernick, DXLD, 1 Dec)

EUROPE, AFRICA, AND THE MIDDLE EAST

ALBANIA: Odd frequencies of mediumwave transmitters in Flake:

2000-2030 on 1394.9 FKE 500 kW / 330 deg to Eu Polish TWR Europe

2000-2100 on 1457.7 FKE 500 kW / 004 deg to Eu Hungarian China Radio Inter (Ivo Ivanov, HCDX)

And the actual carrier frequency of the nominal 1215 Flaka outlet lies around 1215.3 kHz. On 1458 the het against the Broomans Park signal results here in Germany in a really bad howl, like the one heard in the video but here obliterating any program audio. The Chinese are burning their money by using this outlet for Polish and Czech. Even for Hungary I would not expect a satisfactory result. Here are some photos, of which the indoor ones show, contrary to the inscription, the Flaka mediumwave equipment: <http://www.flickr.com/photos/robertomberna/sets/72157624871189803/>.

Some more are included here: <http://www.wdxc.de/albanien/hoererreise.html>.

These Chinese transmitters are obviously clones of the Soviet Buran model. I think the site had originally three ones, of which they used to combine two to a 1000 kW block on 1395 until the third transmitter had been shut down and cannibalized if I recall correct. (Kai Ludwig, DXLD, 3 Dec)

ALGERIA: RTA Algerian longwave 252 kHz refurbished in past months, a new solid state LW unit of TranRadio/former Telefunken Berlin Germany unit and rebuilt also LW antenna by Ampegon Schifferstadt Germany. <http://www.transradio.de/index.php/fr/actualites/154-tda-tipaza>. (Wolfgang Bueschel, MWDX 17 Oct)

FRANCE: Radio France management announced today that the station is facing a 20 million euro deficit. This means that some of the less important programs, such as FIP and "Le Mouv", may be scrapped in the near future but the most likely measure will be the closure of all AM transmitters (MW & LW). No date has been announced but as things stand no one knows if the transmitters will still be on the air on the 1st of January. (Rémy Friess via mwcircle 12.12.2014)

Regarding French MW stations, most of us DXers here in France think that they are doomed. It appears that Radio France has contracts with TDF, who owns the transmitters, which run until 2018 for some of them. Others expire earlier. I was told that the contracts for the channels that were closed recently (792, 837 & 945 kHz) had expired. With that we can come to the logical conclusion that the others will follow suit as soon as those expire, including the LW station on 162 kHz. (Rémy Friess 16.12.2014)

IRELAND: Energy Power AM in Dublin is back on their original frequency of 1395 kHz broadcasting over the weekends. Probably they will make tests on 1476 kHz during one of the coming weekends as some station is causing problems. In Dublin 1476 kHz seems very clear. I will be informed by the station CE. (Email from CE John Power via Bengt Ericson, ARC 26 Nov)

The RTÉ longwave service is to be extended until at least 2017. Chair of the Oireachtas Transport and Communications Committee John O'Mahoney said he was delighted at the decision of the RTÉ board to retain the service.

RTÉ Radio 1 LW will operate a full service in 2015, with reduced hours in 2016 before working towards a full shutdown in 2017. The service was due to end early next year after RTÉ postponed a decision to close the transmitter until 19 January. RTÉ had previously announced that it would be ceasing its Longwave 252 service from the Clarkstown longwave transmitter on 27 October and migrating its Radio One service to digital platforms.

In a statement, the broadcaster said that in slowing the pace of the longwave shutdown, it has considered contact from listeners and submissions from a range of groups who highlighted that more time was needed to "understand and enable the migration to digital platforms for all listeners".

Head of RTE Radio 1 Tom McGuire said: "We've listened particularly to the concerns raised by and on behalf of the elderly Irish in the UK. "Cost-reduction remains a key priority for RTÉ and we remain convinced that, in the longer term, Longwave has had its day. Nonetheless and despite the mid-term cost impact, RTÉ believes it is necessary to take a collaborative approach and slow this transition."

The Department of Foreign Affairs and Trade has announced it is prepared to work with RTÉ to commission specific research to better understand the community in the UK who listen to the longwave service. The research will be conducted next year, will be funded by the department and will include perspectives from community groups representing the Irish elderly in the UK. <http://www.rte.ie/news/2014/12/19/667931-rte-longwave/>. (Mike Terry, DXLD, 1 December)

GERMANY: The German national public broadcasters Deutschlandfunk and Deutschlandradio Kultur will disappear from longwave at the end of this year. Wasteful channels are going off the air due to cost considerations. The money saved will be invested in digital terrestrial radio (DAB+). At the end of 2015 the mediumwave transmitters of Deutschlandfunk will also close.

Deutschlandfunk currently still broadcasts through longwave 153 and 207 kHz and seven mediumwave frequencies including 1269 and 549 kHz. Deutschlandradio Kultur broadcasts by means of the longwave frequency 177 kHz. The mediumwave frequency 990 kHz went off last year. Keeping these transmitters on the air costs Deutschlandfunk and Deutschlandradio Kultur millions of euros a year in electricity costs. All these stations transmit with a fairly high power. The three longwave transmitters are each 500 kW, and the mediumwave transmitters range between 100 and 400 kW.

Meanwhile Deutschlandfunk and Deutschlandradio Kultur can be received on FM and DAB+ in large parts of the country. Further expansion of this network is proceeding rapidly. Earlier this year Deutschlandradio Kultur switched from the obsolete MP2 DAB standard to the modern DAB+, which is also used in the Netherlands.

In 2010 it was agreed that the public broadcasters will only get funding for the rollout of DAB+ if they cut down on other distribution methods. It therefore simply means that the medium- and longwave transmitters must be switched off. Meanwhile, several regional broadcasters have already turned off their AM stations. For example, MDR did so in March 2013. In the Netherlands, the NPO will scrap the broadcast of Radio 5 via mediumwave in September 2015. Again listeners are advised to switch to DAB+.

(Radio.NL translated by Andy Sennitt via Facebook, via Mike Terry DXLD 1 Dec)
NDR is to close its four mediumwave transmitters on 13 January 2015, original report in German: <http://www.radioszene.de/75141/letztes-weihnachten-fuer-ndr-mittelwellen.html> and in English but not well translated – sorry: https://translate.google.com/translate?sl=auto&tl=en&js=y&prev=_t&hl=en&ie=UTF-8&u=http%3A%2F%2Fwww.radioszene.de%2F75141%2Fletztes-weihnachten-fuer-ndr-mittelwellen.html&edit-text=&act=url The frequencies affected are: Hamburg-Moorfleet (972 kHz), Flensburg (702 kHz), Lingen (792 kHz), and Hanover (828 kHz). (James Robinson (15/12-2014) mediumwave.info)

According to the above news from radioszene.de WDR, SR and BR also have plans about closing down their MW transmitters. (Ydun Ritz, mediumwave.info)
DLR Kulture on 177 kHz is now broadcasting a recorded message at one minute to the hour explaining that the service is leaving that frequency on 31 December. The message details where you can continue listening. The message immediately precedes the news each hour. Received with weak but audible signal in North West England. When 183 kHz is on air, this station is inaudible here. 183 goes off air at 0003 UTC nightly. (James Robinson 14 Dec mediumwave.info)

ITALY: the Italian independent station Radio Media Veneta (Pieve di Sacco, Padova province, Veneto region) is transmitting on 1017 kHz, testing in parallel on new 1035 kHz. On the air also now, 17 November at 2300 UTC, with nonstop music and a few IDs. mediavenetabroadcast@libero.it 73 Fabrizio Magrone (Italy), mwdx yg (18/11-2014), via mediumwave.info)

From Oct. 27 new 5 minute local programs on RAI Radio 1 at 1730 UTC. (Stefano Valianti, mwc 22 Oct)

KALININGRAD (RUSSIA): 1215 Bolshakovo is off. It's indeed gone; when just checking I found only the remaining fainter mess with a howl from the Absolute Radio synchros hitting against the off-channel Flaka transmitter. Looks as if they terminated it effective Dec 1. I suspect Bolshakovo could be hereby off for good. (A-DX via Kai Ludwig, Dec 6, dxldyg via WORLD OF RADIO 1751, DXLD)

MACEDONIA: Radio Macedonia, the external service of Macedonian Radio & TV, is now available on a live audio stream accessible from their website at mrt.com.mk (note the new URL). The stream link is labelled 'MP CAT' at the very top of the page, although the service no longer identifies as the "satelitski programski servis" on air. Schedule observed this evening was as given in the referenced DXLD, if an hour is subtracted for summer timings. Programming was in parallel with their MW transmitter on 810 kHz – this was observed via a Global Tuners receivers in Italy, although it's a powerful transmitter useful reception here in the UK is impossible due to co-channel BBC Radio Scotland. (David Kernick, DXLD, 20 Oct)

POLAND: It appeared that the information in the international DX press that the Polish Radio is going to switch off its longwave transmitter is wrong. It appeared first on the EuroRadio forum and later was passed to many DX circles and mailing lists, but there's no such information on the "Jedynka" website, nor in its Facebook page.

Dominique from Poland got interested in the issue and contacted Roman Czejarek, Polish Radio employee and active participant in the construction of the Solec Kujawski transmitter site. Here is the answer: "I do not know anything about such a plan. No one has given such information, at least here in Poland."

He also gave some interesting facts: The longwave transmitter is 40-50% cheaper for the Polish Radio than the network of FM transmitters. That's because the transmitter site in Solec Kujawski is wholly-owned by the Polish Radio and the FM transmitters are leased from a private company.

Three months ago marked the 15th anniversary of the PR1 longwave transmitter site. On the event, the general director of the Polish Radio said that more than 40% of the PR1 audience is listening to the station via longwave radio. He also said that they receive many listeners' letters from Poland and all over Europe.

In 2012, a new campaign for switching off the longwave transmitter began, but soon the station started to receive many letters of complaint which were then read on the air and it was finally decided that the campaign should be terminated. (Dmitry Mezin/via open_dx mailing list via mwdx)

RUSSIA: List of MW stations active in my area (St Petersburg and Leningradskaya oblast).

684 1700-2100 UT Radio Radonezh St Petersburg/Sosnovka 10 kW
828 2200-0200 UT Radiogazeta Slovo (=Radio Newspaper "Word"), St Petersburg/Sosnovka 10 Kw
828 0200-0600 UT Pravoslavnoye Radio Sankt-Peterburga, St Petersburg Orthodox Radio
828 0600-1400 UT Radiogazeta Slovo <http://tunein.com/radio/Radiogazeta-Word-828-s104491/>
828 1400-1800 UT Pravoslavnoye Radio Sankt-Peterburga
828 1800-2200 UT Radiogazeta Slovo
873 0200-2200 UT Radio Rossii St Petersburg/Olgino 75 kW
1053 0500-2100 UT Radio Maria, St Petersburg/Olgino 10 kW
1089 0515-1400 UT Radio Teos (Monday to Friday, except holidays), Leningradskaya oblast/Krasny Bor 20 kW?

Radio Radonezh belongs to Russian Orthodox Church.

Radiogazeta Slovo – to the Communist Party of Russian Federation.
Pravoslavnoye Radio Sankt-Peterburga – to a local Orthodox community.

Radio Rossii is the state-owned station (Moscow programmer relay).

Radio Maria is a catholic station.

Radio Teos is a protestant one. (Alexander-RUS, via Italian Play-DX Nov 29 via WWDXC)

SPAIN: 1224 COPE Albacete will close its medium wave frequency on 31 January 2015. Broadcasts will continue on FM. This information from Enrique Sánchez Tornero in an email to Jan Edh. (Arctic)

UKRAINE: 1431 R Ukraine International (RUI) has started transmissions on December 1st with 800 kW from probably Mykolayiv in the southwestern part of the country. The transmissions are beamed to the northeast, Russian 1500-1700, Ukrainian 1700-1900. Excellent signal in Växjö. (Information from Ukrainian sources via Mauno Ritola, WRTH via BE, Arctic)

UNITED KINGDOM: Eagle's AM license on 1566 is now broadcasting the programs of Premier Christian Radio after a sale was agreed on Friday. The move follows the successful Format change request by owner UKRD to drop all local programs from the Surrey and Hampshire local station. Premier has now added the license to their portfolio of stations, adding extra analogue coverage to their three AM frequencies of 1305, 1332, and 1413. (Mike Terry, MWDX)

The BBC has started medium wave closure trials again for a few of their local radio stations. The text from the press release states: "We are undertaking a trial of switching-off some BBC local radio medium wave transmitters. The BBC is required to make savings and one potential way to do this, and maintain value for money, is to switch off medium wave transmitters in those places where FM or digital radio coverage is also available." The first two phases took place in early December. A list of the BBC's local radio stations can be found at <http://www.bbc.co.uk/radio/stations>. The page announcing the changes is here <http://www.bbc.co.uk/reception/news/item31>. (James Robinson, mediumwave.info, 17 Nov)

WESTERN SAHARA: National Radio of the Saharan Arab Democratic Republic has a new website and URL at www.rasdradio.info. The Algerian-registered site is in Arabic and does not offer live audio streaming, but has the latest news bulletin available on demand. (David Kernick, Online DXLD 27 Oct)

WESTERN HEMISPHERE

ARGENTINA: Two new stations on the AM band in Argentina:

1580 kHz Radio La Cueva, 25 de Mayo, Provincia de Misiones
1550 kHz Radio La Amistad, José C Paz, Provincia de Buenos Aires.

More here <https://gruporadioescuchaargentino.wordpress.com/>. (Marcelo A. Cornachioni, condiglist yg (25/11-2014) via mediumwave.info)

BERMUDA: The Emergency Broadcasting Station is now only on FM 100.1 MHz during emergency situations in Bermuda. The old 1610 kHz is no longer operational. (Stig Hartvig Nielsen, World Radio TV Handbook FB group (21/11-2014) via mediumwave.info)

COLOMBIA: 830 HJDM Q'Hubo Radio, Medellín ex Radio Reloj
1110 HJEW Q'Hubo Radio, Cali ex Oxígeno
1120 HJGH Q'Hubo Radio, Bucaramanga ex Oxígeno
1390 HJFY Oxígeno, Espinal ID: "Oxígeno Radio Avenida" (Henrik Klemetz, Arctic)

FALKLAND ISLANDS: The Falkland Islands Government has advised that following storm damage earlier in the year to the Medium Wave Radio system, the Medium Wave radio service transmitted from Mount William has been repaired and is now back on air on 530 kHz, broadcasting Falkland Islands Radio Service (FIRS) and BBC World Service when FIRS is not on air. However, British Forces Broadcasting Service (BFBS) has advised that the BFBS Radio 2 channel previously transmitted on 550MHz from the BFBS Bush Rincon site will no longer be available as the equipment is beyond economic repair. (J Brook, Falkland Islands News Network 20 Oct, via Ydun's mediumwave.info)

I questioned (a local resident) about 530 kHz, and was told that the transmitter is beyond repair and will unlikely return to the air (contrary to the government website). They were most definitely NOT on the air during our stay. (Walt Salminaw, visiting the Falklands on 5 Nov)

GREENLAND: 650 KNR is back on the air, reported heard as early as 25.11.2014 (Stefan Wikander, Arctic) Bjarne Hauthorner has got info on more exact planned start dates for the MW stations: Qeqertarsuaq 650 kHz (5 kW) on December 1, 2014, Nuuk 570 kHz (5 kW) on March 1, 2015, Simiutaq, Qaqortoq 740 kHz on June 1 2015. (Mauno Ritola, WRTH Facebook group 19 Oct)

GRENADA: 540 Grenada has left Medium Wave. In April 2014 transmission on 540 kHz was terminated and 'Klassic AM' was renamed 'K105' – broadcasting on FM 105.5 and 105.9 only. (Stig Hartvig Nielsen, WRTH Facebook Group 21.11.2014)

MARTINIQUE: 1310 Martinique Première is inactive on 1310 kHz – and broadcasting on FM only. It is undecided if 1310 will be reactivated. (Stig Hartvig Nielsen, WRTH Facebook Group 21.11.2014)

ST KITTS & NEVIS: 555 Radio ZIZ has ceased broadcasting on Medium Wave. It has been "eliminated" as stated by the station itself. ZIZ is on FM only now. (Stig Hartvig Nielsen, WRTH Facebook Group 21.11.2014) 820 R Paradise is due back on the air on 820 kHz (50 kW) early 2015. Has been off air since mid-2013. The problems connected to a transfer of ownership from Trinity Broadcasting Network to Flowing Streams Church have been resolved now according to the new owner. (Stig Hartvig Nielsen, WRTH Facebook Group 21.11.2014)

ST VINCENT: NBC Radio ceased regular operations on 700 kHz (10 kW) in 2011, but kept the transmitter operational as a backup and reactivated for disaster purposes only. Now NBC Radio no longer maintains the Medium Wave transmitter for disaster purposes. (Stig Hartvig Nielsen, WRTH Facebook Group 21 Nov)

VENEZUELA: Radio Nacional de Venezuela was noted in Barinas on 580 kHz with "Con Gaitas y Tradición" at 0230 UTC on 15 November 2014. This used to be the frequency of Radio La Voz de la Fe in Maracaibo, Zulia. It would appear that in addition to the previously known frequencies of RNV we can now add 650 kHz (previously Aragüeña 650, Maracay, Estado Aragua) and 1510 kHz (previously La Voz del Centro, Güigüe, Estado Carabobo). These three frequencies are not listed on the RNV web page. The 580 kHz frequency provided very strong night-time reception in Barinas which is 270 kilometers from Maracaibo.

650 RNV, see 580 kHz above

1340 YVKE Mundial, Caracas, new frequency. Strong local signal. I suppose this is a new relay station in the Western Llanos area for this governmental radio station. The frequency is not listed on the station's web page.

1510 RNV, see 580 kHz above. (All above info from Venezuela from Henrik Klemetz and Santiago San Gil G via WRTH Facebook Group via Mauno Ritola, Arctic)

1560 YVLZ Radiodifusora Andina "Exitos 1560", which ceased broadcasting on 1560 kHz a few years ago, has apparently been taken over by Radio Nacional de Venezuela. Has been noted with RNV programming in Venezuela. (Santiago San Gil G/Henrik Klemetz, ARC)

AFRICAN BANDSCAN

(Loggings by Australian DXer David Foster, traveling around Africa, via Australian DX News, Nov 2014)

Reception on medium wave has been roughly similar in terms of stations heard across southern Africa. Of course there are some differences in strengths because we've visited seven countries. After Australia's almost complete occupation of channels, it's so refreshing to DX where there are only a few locals. South African MW DXers are so spoilt. The Grundig YB400 is not exactly a hungry DX machine but is quite OK for quick checks of the closer stations.

Medium wave listening locations during September & October –

15/9 Johannesburg, South Africa

17/9 Nata, Botswana

18/9 Livingstone, Zambia

8/10 Kruger National Park, South Africa

9/10 Hlane Royal National Park, Swaziland

9 & 10/10 Hluhluwe-Imfolozi National Park, KwaZulu Natal, South Africa

13 & 14/10 Royal Natal National Park, KwaZulu Natal, South Africa

16 & 17/10 Malealea, Lesotho

18/10 near Bloemfontein, South Africa

531 Radio Botswana, Maun. 1935 15/9 //621

540 MBC Radio 1, Mangochi (Malawi). 1803 18/9 //675 1422

558 Radio Botswana, Muchenje. 1935 15/9 //621

567 Cape Talk, Cape Town. 2010 17/9 English

576 Radio Veritas, Meyerton (Johannesburg). 0555 15/9 ID

594 MBC Radio 1, Lilongwe (Malawi). 1940 15/9 //756

621 Radio Botswana, Selebi-Phikwe. 1935 15/9

639 Radio Lesotho, Maseru. 0555 15/9

657 Radio Pulpit, Meyerton (Johannesburg). 0555 15/9 religion

675 MBC Radio 1, Ekwendeni (Malawi). 1803 18/9 //540 1422

693 Radio Botswana, Shakawe. 1935 15/9 //621

729 Cape Pulpit, Cape Town. Not listed in the WRTH South Africa section but is in the Europe/Africa list in the back. Regular as at 1935 15/9

738 Radio Moçambique, Maputo. 2005 17/9. Provincial stations often take relays from this central station. All Mozambique outlets were on air the night of 15/16

October with election result analysis

756 MBC Radio 1, Blantyre. 1940 15/9 //594

765 EP de Nampula, Nampula. 1805 18/9 Portuguese

765 Voice of the Islamic Republic of Iran, Chababhar. 2325 14/10 Arabic FS //1224

810 EP de Gaza, Xai-Xai. 2010 17/9 //873

846 SABC, Komga. Umhlobo Wenene FM service. 0220 8/10 African language

855 Radio Romania Actualitati, Tancabesti. Romanian chat //1152 at 2030 18/10

873 Radio Botswana, Gantsi. 1945 15/9 under Mozambique

873 EP de Sofala, Beira. 1945 15/9 Portuguese

891 Radio Lesotho, Maseru. 0530 15/9 but gone 0555. Also 2010 17/9. Quite irregular

909 VOA Selebi-Phikwe. 0545 15/9 and again at 1945

945 Radio Botswana, Mmathethe. 1910 13/10. English //621

963 EP de Tete, Tete. 1945 15/9 //1008

990 Radio Sawa, Cape Greco. 2000 15/9 Middle Eastern music

1008 EP de Maputo, Maputo. 1945 15/9

1026 EP de Manica, Chimoio. 1945 15/9 //1008

1071 Radio Botswana, Jwaneng. 1945 15/9 //621

1152 Radio Romania Actualitati, Cluj. Romanian chat //855 at 2030 18/10

1170 TWR, Manzini. 1945 15/9 English

1179 EP de Zambesia, Quelimane. 1945 15/9 //1008

1197 The Ultimate Radio (Radio Lesotho), Maseru. 0530 15/9 chat & ads

1206 EP de Inhambane, Inhambane. 1950 15/9 //1008

1215 Radio Botswana, Mahalapye. 1950 15/9 //621

1224 EP de Cabo Delgado, Pemba. 1950 15/9 //1008

1224 Voice of the Islamic Republic of Iran, Kish Island. 2325 14/10 Arabic FS //765

1233 TWR Europe, Cape Greco. 2025 17/9 Arabic

1260 EP do Niassa, Lichinga. 1950 15/9 //1008
 1269 Arrowline Chinese Radio, Edenvale (Johannesburg). Missing for a month while we've been in Africa but finally back 16/10 at 1625 in Chinese
 1287 SABC, Welgedacht. Ligwalagwala FM service. 0600 15/9, also 2000, African language
 1296 Sudan Radio & TV Corp, Reiba. 1950 15/9 Arabic
 1323 BBC, Zyyi. 1810 18/9 World Service
 1350 Radio Botswana, Tshabong. 1950 15/9 //621
 1370 Radio Iguatemi, Sao Paulo. 0323 17/10, sensational signal and great ID. Other Brazilians noted on 920, 940, 1040, 1100, 1150, 1220 & 1430. Other Latins (maybe Brazil, maybe not) on 800, 810, 860, 980, 1130, 1330, 1400 & 1470 in the period 0310-0335, all pretty much f/out by 0345 (5.45 a.m. in Lesotho)
 1422 Hellenic Radio, Bedfordview. 0600 15/9 Greek
 1422 MBC Radio 1, Matiya (Malawi). 1803 18/9 //540 675. Only heard it while in Livingstone, Zambia; elsewhere Hellenic Radio Dominated
 1431 Radio Sawa, Dorale-Djibouti. Presumed at 1923 9/10
 1458 Mayotte Premiere, Pamanzi. 1902 13/10 French, mentions of Mayotte
 1485 Radio Today, Honeydew. 0600 15/9 ID
 1512 Broadcasting Service of the Kingdom of Saudi Arabia, Jeddah. 2331 14/10 Koran recitation
 1521 Broadcasting Service of the Kingdom of Saudi Arabia, Duba. 2331 14/10 Arabic
 1530 VOA Pinheira. 1955 15/9 French
 1548 Radio Islam, Lenasia. 0600 15/9 ID
 1566 TWR Africa, Parakou. 0330 10/10 English ID for TWR Africa & freq then program in Nigerian language
 1575 Radio Farda, Dhabbaya. 2000 15/9, presumed.



DX AUDIO SERVICE – Frederick R Vobbe – 706 Mackenzie Dr – Lima OH 45805-1835
E-mail: fvobbe@realoldiesradio.com

Here's the schedule for the **January 2015 DX Audio Service** – Issue #360! Available at <http://e-dxn.com/news/index.php>.

- AM Switch:** Dave Alpert starts off the year with some changes, information on the silent stations, and stations getting back on the air.
- Bandscan:** Mark Durenberger presents Part 2 of his visit with Steve Raymer at the Pavek Museum of Broadcasting in St. Louis Park, Minnesota.
- News:** Information on the 2015 joint DX convention and the WRTH raffle
- News:** WCIS was taken off the air by a copper theft which amounted to over \$75,000. Chris Gay tells us about the theft, and Phil Wayne lets us know they caught the thief!
- Feature:** What is the biggest comeback of 2014? It's vinyl records. Sales of records and equipment have been growing, and after being nearly 0% it's now 2%. This report comes from Wall Street Journal Radio's Gordon Deal.
- News:** Speaking of the Wall Street Journal Radio network, it appears that parts of it will be closing down.
- News:** Dallas, Texas, country radio legend Terry Dorsey calls it quits. The last good-byes from Terry as he hits the happy trails.
- Passings:** Long-time WTVN (Columbus, OH) morning show man, Bob Connors, passed away.
- Classic sign-off** from **The Big 208**.
- Marketscope:** Phil Wayne presents classic air-checks from the past. Great radio from the 70s.
- Musings from the Members**
- Radio Free Europe PSA** – on television in the middle to late 60s.
- News:** More information on the Tell City Waiver.
- Opinion:** Is radio dead, or not? How radio has evolved around all the other medias.
- News:** Radio Disney sells WQEW-1560 in New York. Information on the new owner.
- Opinion:** Mark Durenberger reads an editorial piece titled "AM Band Needs Drastic Change" from Radio World magazine.
- Feature:** "Morning Man buys the Station:" the morning man who now OWNS the station.

The DX Audio Service is looking for a member with serious promotional chops who can advise our publisher on ways to enhance circulation of this DX-news-and-information audio service. If you have experience in program or publication promotion we would appreciate your input! Contact Fred Vobbe at: fvobbe@realoldiesradio.com.



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E-mail: showe@albany.edu

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

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 NP **Nigel Pimblett**, Dunmore AB; nige2730@telus.net

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

930 KSEI Sean Green, OpsMgr; 544 N Arthur Ave, Pocatello ID 83204; P; 27; MF
 1230 WKLK Jake Kachinske, OpsMgr; northwoodsradio@fdrez.com; E; 1; NP [Station in Cloquet MN]
 1370 KZSF* Reyna Santillan, StnMgr; 2347 Bering Dr, San Jose CA 95131; reynalagitana@yahoo.com; PE; 40/7; MF

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

Martin received his prepared card back from KZSF 7 days after he posted to the station's website contact form at www.1370am.com to see if they had received the report he had sent a month earlier by postal mail. This is an occasionally effective strategy when trying to coax a verie from a station, so don't be shy about utilizing any means to contact a station or its personnel. This column was prepared on 12/29/14. Happy New Year! 73, SSH.

[A DXers Technical Guide, 4th Edition \(Spring 2004\)](#)

In its nearly 200 pages you will learn about the principles underlying the design of successful receivers, antennas and receiving accessories, find reviews of the best commercially available DXing equipment in different price ranges, as well as detailed instructions for building one's own antennas and other DXing aids. Although it focuses on the technical backdrop to medium wave DXing, it will also be of interest to serious shortwave listeners and low band radio amateurs.

Prices: **IRCA/NRC members** – \$15.00 (US), \$16.50 (Canada) \$18.00 (México), \$20.00 (rest of the world). **Non-IRCA/NRC members** – add \$2.00.

[IRCA Mexican Log, 19th Edition \(Winter 2014\)](#)

The **IRCA MEXICAN LOG** lists all AM stations in Mexico by frequency, including call letters, state, city, day/night power, slogans, schedule in UTC/GMT, formats, networks and notes. The call letter index gives call, frequency, city and state. The city index (listed by state, then city) includes frequency, call and day/night power. The transmitter site index (listed by state, then city) tabulates the latitude and longitude of transmitter sites. This is an indispensable reference for anyone who hears Mexican radio stations. Size is 8 1/2" x 11".

Prices: **IRCA/NRC members** – \$9.50 (US), \$11.00 (Canada) \$12.50 (México), \$14.00 (rest of the world). **Non-IRCA/NRC members** – add \$2.00.

IRCA TIS/HAR LIST (Summer 2014)

The **IRCA TIS/HAR LIST** lists all US and Canadian TIS/HAR stations, by frequency, including call letters, state (province,) city, county, licensee, address, coordinates, expiration date and dates of DXM/DXN reports/sources. It has been updated with FCC data, DXM, DXN and DXer reports, and on-line listings through August 1 2014.

Prices: **IRCA/NRC members** – \$9.50 (US), \$11.00 (Canada) \$12.50 (México), \$14.00 (rest of the world). **Non-IRCA/NRC members** – add \$2.00.

Sunrise/Sunset Maps

12 maps showing 15 minute sunset and sunrise times for the US and 12 maps showing hourly sunset and sunrise times for the World. Explanation includes use of the maps and examples of DX made possible by knowledge of SR/SS times.

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To order from the IRCA Goodie Factory, send the correct amount (in US funds payable to **IRCA**) to: **IRCA GOODIE FACTORY, 9705 MARY NW, SEATTLE WA 98117-2334**. Or, order through PayPal [add \$1.00] to email: **phil_tekno@yahoo.com** (Phil Bytheway). Please state club affiliation when ordering.

Beverage and Longwire Antennas Design and Theory (BAM)

This manual is a compilation of numerous articles on the subject of design and theory of the beverage and longwire antennas that have appeared through the years in **DX News**. Some articles are available as reprints. This book gives details information on the theory of operation, construction and maintenance of a beverage antenna. Serves as an enhancement to Antenna Reference Manuals Volume 1 and 2. 8 1/2" X 11" booklet format.

BAM Contents:

The Cooloom Beach Beverage 1983	The Care and Feeding of the Wave Antenna	Two-Wire Phased Antennas
Beverage Basic Theory	A Non-Resonant Longwire Remote From Earth	Analysis of the Beverage Antenna
The Florida Beverage	Ground	

Price: **IRCA/NRC Member USA** \$8.95. Other countries write for quote **sales@nrcdxas.org**.

Loop Antenna Design and Theory (LAM)

Revised and updated in 1996, this manual is a compilation of numerous articles on the subject of design and theory of the loop antenna that have appeared through the years in **DX News**. This book gives detailed information on the theory of operation, construction and maintenance of a loop antenna. Serves as an enhancement to Antenna Reference Manuals Volume 1 and 2. 8 1/2" X 11" bound book format.

LAM Contents:

Multi-Rod Ferrite Loop Antennas	High Precision Direction Finding	BFE-C Loop Amplifier Card
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Loop Distortion Why get Skewed?	Roll Your Own! (Loop)	High Performance Loop Amp
High Dynamic Range Balun Loop	Long Wave Converter Detail	
The Hot Rod- Ferrite Loop Antenna	Pattern Controlled Loops	

Price: **IRCA/NRC Member USA** \$9.95. Other countries write for quote **sales@nrcdxas.org**.

Antenna Reference Manual Volume 1 (ARM1)

8th Printing Digitally Enhanced and Updated for 2005! This book features the plans for the original NRC 4' FET Altazimuth loop antenna. Revised in the Spring of 2005 with digitally enhanced drawings and updated material sources! This manual also contains other articles on the subject of antennas for medium wave DXers, most were originally published between 1969 and 1974 in **DX News**. Includes articles on air-core and ferrite core loops, antenna tuners for longwire antennas and antenna couplers. This is the original book which has been available for over 20years. 8 1/2" X 11" bound book format.

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NRC FET Altazimuth Loop	Antenna Tuning Devices for Longwires	Direct Coupled Loops
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Tips on Loop Construction	Balanced FET Amplifier	'Bob Flick' Loop Antenna Coupler
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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.) **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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