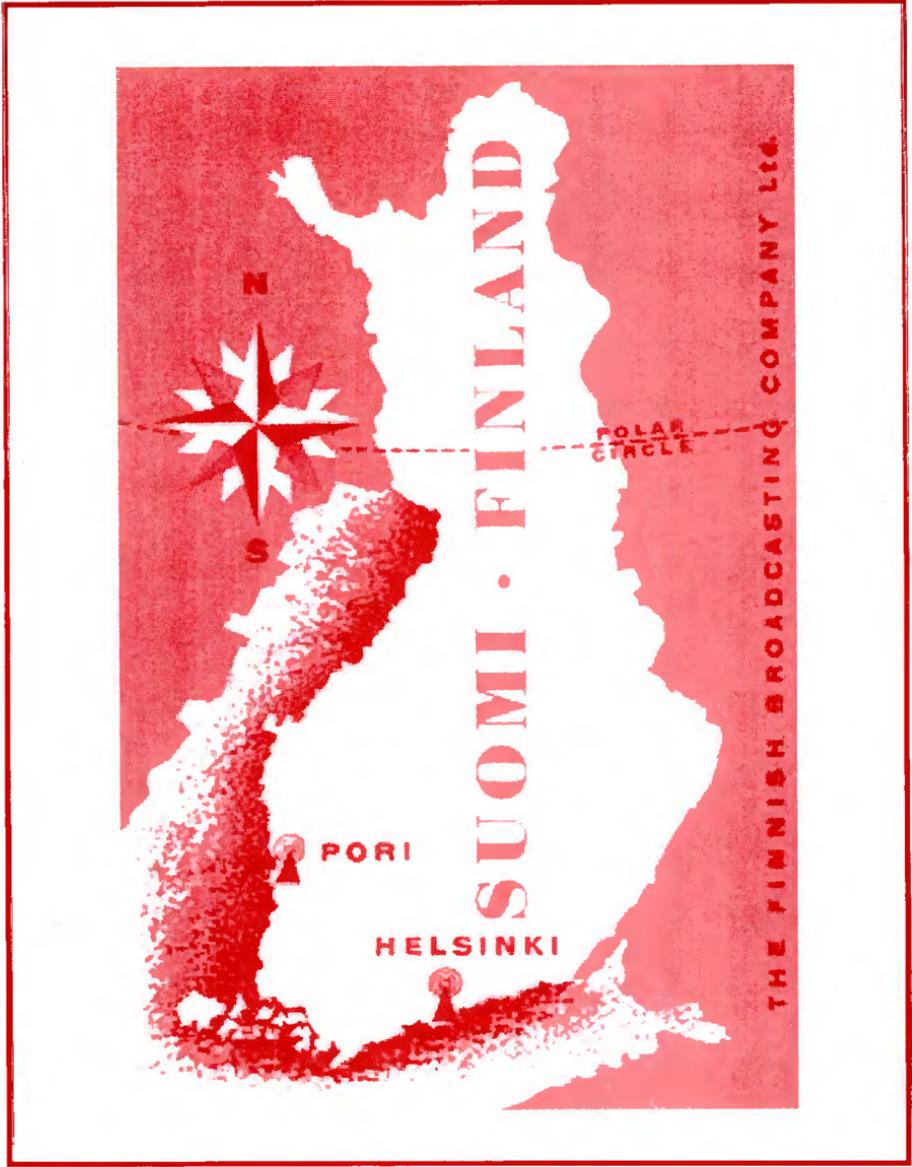


# The **NASWA** Journal

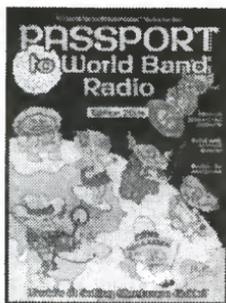
VOLUME XLV NUMBER 11

NOVEMBER 2005



North American Shortwave Association — America's Shortwave Broadcast Club

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# NASA Notes

Richard A. D'Angelo • 2216 Burkey Drive • Wyomissing, PA 19610 • rdangelo3@aol.com

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**Rich Cuff** send word that his local electric utility in the Lehigh Valley, PPL, an early experimenter with BPL market tests, decided in early October to abandon further efforts to commercialize the technology. This is based on a report in the local Allentown newspaper. This is certainly a positive interesting trend in the shortwave radio community. About time!

From **A.J. Janitschek** of Radio Free Asia (RFA), we learn that the Technical Operations Division has just released of the company's eighth QSL card. The card is scheduled for distribution from September 1 to December 31, 2005. This QSL card commemorates the ninth anniversary of RFA's first broadcast which took place on September 29, 1996; this broadcast was in Mandarin Chinese. Since then RFA has grown to 9 Asian languages broadcasting a total of 36 hours of radio programming daily; primarily on shortwave frequencies. RFA welcomes all reception report submissions at [www.techweb.rfa.org](http://www.techweb.rfa.org) (follow the QSL reports link) not only from DXers but from its general listening audience as well. Reception reports are also accepted by email at [qsl@rfa.org](mailto:qsl@rfa.org). For anyone without Internet access, reception reports should be mailed to: Reception Reports, Radio Free Asia, 2025 M Street NW, Suite 300, Washington DC 20036, USA. Upon request, RFA will also send a copy of the current broadcast schedule and a station sticker.

The Board of Deputies representing the full member clubs of the European DX Council (EDXC) held Internet meetings during the summer. **Harald Gabler** of the Rhein Main DX Club is a new member of the Board. Membership is open for clubs and individuals (10 Euros) living in Europe completing the new organization of the EDXC allowing individuals to join based on the Prague meeting. Article 6 of the statutes states that "Any

individual DXer living in Europe shall be entitled to become a full member of the EDXC, even if he or she is a member of a DX Club or of an umbrella organization of DX Clubs which is also a Full Member of the EDXC." The selection of a new Secretary General and Assistant Secretary General needs to be done. **Tibor Szilagyi** has offered to host EDXC Conferences in St. Petersburg, Russia (19-22 October 2006) and Lugano, Switzerland (1-4 November 2007). The Board has asked for other conference bids.

**Bob Padula** announced the release of two new products for shortwave enthusiasts. The first is the *Australasian Shortwave Guide No. 20 (ASWG)*. The ASWG is 40 pages with over 700 entries, covers the international shortwave transmission period commencing October 31, 2005, and concluding on March 26, 2006, known as the "B05 International Transmission Season." It provides comprehensive information of English shortwave schedules to Australia, Asia, the Far East, the Indian sub-continent, and the Pacific, and for broadcasts in all languages to Australia and the Pacific. Schedules of Domestic Services in English from Asia-Pacific countries are also featured. The data is arranged in two sections, by studio country and starting time. Each entry shows broadcasting organization, frequency, starting time, finishing time, language, target area, transmitter site, transmitter country, studio country, and days of operation. Schedules of Digital Radio Mondiale (DRM) transmissions are included, as well as general international broadcasting news. The ASWG is compiled from an extensive worldwide network of broadcasters, frequency planners, engineering consultants, professional monitors, and members of the Electronic DX Press Radio Monitoring Association. For mailing to Australian address the cost is A\$10—cash, personal check, bank check, Australian Money Order, financial institution check, mint Australian

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stamps, or PayPal. For mailing to countries outside Australia US\$10 / 10 Euro / A\$15 (cash, 8 international reply coupons, Australian mint stamps to the value of A\$15, international bank transfer, international bank draft, or PayPal). Cash payment in any other currency is acceptable, to the equivalent of US\$10. Orders and payments should be sent to Robert J. Padula, 404 Mont Albert Road, Mont Albert, Victoria 3127, Australia (Email: bobpadula@mydesk.net.au).

The second item is the first release of a brand new product *The Australasian Shortwave Digest* No. 1—Compact Disk. It is a CD containing a wealth of information about world shortwave broadcasting and related topics. The CD contains (1) the complete Master file (MS Excel format) of the B05 Edition (No. 20) of the *Austrasian Shortwave Guide* (see above), (2) *The Spectrum Study* (MS Excel format), covering the A05 period, (3) the complete *Database* (MS Excel format) of the A05 Edition (No. 19) of the ASWG (March 27–October 30 2005), and (4) an audio-visual introduction from the author, showing and describing his home-based monitoring equipment and antennas, as well as some video clips taken on recent monitoring expeditions to the mountains around Melbourne. Also, many original articles, professional essays, and on-line links to articles about the history, evolution, and present-day structure of Australian shortwave broadcasting. Plus, much more such as original previously unpublished articles, including “OSLs in the New Millennium”, “Keeping DX/Monitoring Records”, “The HF Broadcasting Bands”, and “Ethics for DX Hobbyists.” For mailing to Australian addresses A\$20—cash, personal check, bank check, Australian Money Order, financial institution check, mint Australian stamps, or PayPal. For airmailing to countries outside Australia US\$20 / 15 Euro / A\$25 (cash, 14 international reply coupons, Australian mint stamps to the value of A\$25, international bank transfer, international bank draft, PayPal). Cash payment in any other currency is acceptable, to the equivalent of US\$20. Just like above, orders and payments should be sent to Robert J. Padula, 404 Mont Albert Road, Mont Albert, Victoria 3127, Australia (Email: bobpadula@mydesk.net.au).

Thanks to **Harald Gabler** we learn that the Rhein-Main-Radio-Club of Germany (P. O. Box 700849, 60558 Frankfurt) is celebrating its 30<sup>th</sup> anniversary. In honor of the occasion, the club held a DX-Camp at Langenselbold near Hanau on 29 September through 3 October. The club is publishing a decorative QSL card wall calendar with the best QSL cards of the last 30 years, which can be seen at [http://www.rmrc.de/content/index\\_fset.html](http://www.rmrc.de/content/index_fset.html). It is available in German or English. The Rhein-Main-Radio-Club is taking orders for the 2006 QSL card wall calendar for only 14.80 Euro each to their account at RMRC-Konto: Heinz Schulz / RMRC Konto Nr. 686512 309—BLZ 250 100 30—Postbank Hannover. SWIFT-/BIC-Code: PBNKDEFF—IBAN: DE89 2501 0030 0686 5123 09. Anyone follow that? You may want to write to the club or e-mail Harald (DrGabler@t-online.de) for alternative payment information.

The DX season is kicking into high gear and more darkness means many more low band DX opportunities. The changing DX conditions will bring different DX conditions and new listening targets. The club's electronic *Flashsheet* helps members stay on top of the action with breaking shortwave news and information. If you are a current member of the club and want to receive the electronic *Flashsheet* just drop **Rich D'Angelo** (rdangelo3@aol.com) a note with your e-mail address, location and membership expiration date from your mailing label. You can participate by sending your latest logs to the electronic *Flashsheet* edited by **Ray Bauernhuber**, DXRADIO@webtv.net. Each week the electronic *Flashsheet* brings a lot of exciting, late breaking DX news and information to our members. The electronic newsletter is an excellent supplement to the monthly Journal for the timely dissemination of DX loggings and breaking news. This is a service that is only available to our members. Deadlines are posted in the *NASWA Flashsheet* each week. Let's keep Ray busy!

Please remember to direct all communications about subscriptions, bulletin delivery issues, *Thanksgiving dining suggestions*, the use of PayPal as a payment method, etc. to Bill Oliver at the club's Levittown address or to his electronic address, weoliver@

comcast.net. The regular postal address is the familiar 45 Wildflower Road, Levittown, PA 19057. Inquiries sent to Wyomissing only slow down the process. Thanks!

That's it for this month. Enjoy this month's edition of the *Journal*; it's another good one. 

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## Calendar Of Events

- Nov 18 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcscpk@aol.com.
- Nov 18 Meeting. Boston Area NASWA Chapter.** The Boston Area DXers have found a new location for meetings. Inquiries about the BADXers may be sent to Paul Graveline at 978-470-1971 or Internet: ctcreditor@aol.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>
- Nov 19 Meeting. Reading (England) International Radio Group** meetings will be held in Meeting Room 3, Reading International Solidarity Centre, London Street, Reading from 2.30 p.m. to 5 p.m. Further info from Mike Barraclough mikewb@dircon.co.uk
- Dec 10 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX)** meets at the Lebanon Citizens' National Bank (LCNB), 425 West Central Avenue (Ohio 73), Springboro, Ohio at 7:00 PM. For more information contact Mark Meece at 937-743-8089 or e-mail at <antennapig@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>
- Mar 3-4, 2006 Convention. The 19<sup>th</sup> Annual Winter SWL Festival**, sponsored by NASWA, will be held at the *Best Western—The Inn at Towamencin* (Kulpsville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 3<sup>rd</sup> and 4<sup>th</sup> March 2006. Richard Cuff and John Figliozzi co-chair the organizational committee. Of course, it's never too early to begin planning. Watch the pages of the *Journal* for registration information and other pertinent details. See you there!
- May 4-7, 2006 50<sup>th</sup> Jubilee DX Camp and Convention.** The **Danish Shortwave Clubs International (DSWCI)** will hold its 50<sup>th</sup> year Jubilee with a DX Camp and AGM on 4-7 May 2006 at the beach resort of Vejers near the westernmost point of Denmark at the Scout camp. The DSWCI is preparing a large program of activities which include: a DX-Camp from Thursday afternoon throughout till Sunday morning; a cultural tour on Friday to the town of Varde including an Danish painting exhibition; various historical exhibitions and publications about the DSWCI are planned; the Annual General Meeting Saturday morning; some of the founders and old-timers will be invited; various DX-related lectures Saturday afternoon; special DX-broadcasts and a Jubilee Dinner Saturday evening. More details, including participation fee, will be forthcoming at a later date. Non-member DXers and broadcasters are welcome.
- Aug 19, 2006 2006 Madison-Milwaukee Radio Get-together. The 13<sup>th</sup> Annual Madison-Milwaukee Get-together for DXers and Radio Enthusiasts** will take place in Milwaukee, WI on Saturday August 19, 2006, with Tim Noonan hosting. Please contact Tim at dxing2@aol.com for additional information Further information will appear in the *Journal* as the event draws near.
- Sep 1-3, 2006 Convention. The National Radio Club and the DX Audio Service** will hold their annual convention at the *Best Western in Akron, Ohio* on 1-3 September 2006. Room rates are \$68.00 per night. More information to follow.
- Mar 9-10, 2007 Convention. The 20<sup>th</sup> Annual Winter SWL Festival**, sponsored by NASWA, will be held at the *Best Western—The Inn at Towamencin*. Join us for this 20<sup>th</sup> anniversary extravaganza in the DX Mecca.
- Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: rdangelo3@aol.com) or Ralph Brandi (Internet: ralph@brandi.org).

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# Musings

*This column provides a forum where members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months). Opinions expressed here are solely those of the submitters. Please submit all Musings to Richard A. D'Angelo, 2216 Burkey Dr., Wyomissing, PA 19610 or via email: rdangelo3@aol.com.*

**Terry Klasek <taklasek@sbcglobal.net>, Hazelwood, Missouri**

Dit -dit - dah - dit -dit, Flash! Hello DXers!!

I spent three hours over at Earl Higgins home this morning. We talked about all kinds of things as I showed up to pick up two boxes of old DX mags he wanted to dispose of.

Imagine my surprise as the first zine I pulled out was a DX News (NRC) from 1982, and it had a musing from me in it!! Ernie Cooper titled it, "Terry's Loop is Pooped!" I miss 'ol Lefty, and his wry wit!

In the course of our talking Earl was suggesting that he would like to have a DX get - together at his place in a month or two. I volunteered one of the zany films I was involved in making, and I can bring some old QSLs. If need be I can help cook, Bar-B-Que or help get snacks ready.

Anybody interested in getting together in the Saint Louis area?? Should be a real BLAST! I will bring a complete set of SLIDX newsletters, and they are froth with humor!

Cheers to all! Terry

**Toshi Ohtake <ohtaket@yahoo.co.jp>, Tokyo, Japan**

NHK terminated its domestic short wave relay. According to NHK Engineering Head Quarters, termination of domestic short wave relay was decided in March and actually terminated by the end of May. NHK had been using the relay for almost 60 years, but satellite link and quality land line were more reliable and convenient these days, so all relay was terminated. Just for your record, the terminated relays are:

Location	Power (W)	Mod	Carrier Freq (kHz)
Sapporo (Ebetsu)	600	DSB	3970.0 6005.0 9535.
Tokyo (Shobu)	900	SSB	3607.5 6175.0 9550.
Nagoya (Nabeta)	300	SSB	3970.0 6005.0 9535.0
Osaka (Mihara)	300	SSB	3373..75 5428.0 9181.0
Fukuoka (Kasuga)	300	SSB	3259.0 6130.0 9535.0

HCJB will resume Japanese service from HCJB Australia. Mr. Ozaki of HCJB Japanese Program announced the Japanese service would be resumed this year using Australian transmitter.

This will be weekend only and morning transmission. On September 25, meeting with Mr. Ozaki and Mr. Dennis Adams, Regional Director of HCJB World Radio Asia Pacific was held in Tokyo.

According to Mr. Adams, resumption of the Japanese Service is dependent on availability of the second transmitter of HCJB Australia, which is being transferred from Ecuador to Australia. It is most likely sometime in December. The antenna will be the same one currently used, so the beam will be East Asia direction targeting China, not to Japan. In the future HCJB Australia will deploy new antenna system to be installed in the land in North adjacent to the current antenna site upon a lease agreement. At that time more efficient antenna system with Japan and much more target beams will be built.

This is all for this month. Wish you good DXing!! Toshi

**Scott Walker <n3sw@arrl.net>, New Cumberland PA**

This is a query I put out on the Ten-Tec mailing list a while ago. No hams who own this receiver responded, so they must be 100% satisfied with their RX-340s. I thought you might run it in "Musings" just in case some shortwave users would agree with me and respond. Thanks.

To any Ten-Tec RX-340 owners: Are you, as I am, somewhat disappointed that there seems to be no new features being released for this receiver? I have emailed TT asking for a Noise Reduction feature similar to the one in the Omni VI but was told there is nothing in the pipeline. Why should I have to use an outboard NR box when I own a state-of-the-art DSP-based and upgradeable receiver? They even put two "Opt" buttons on the front panel for what I assume were anticipated enhancements, but...

Maybe if they got many requests, they would reconsider updating the feature set for the 340? What would you like to see as new features?

Scott Walker

**Doug Robertson, 4045 Sunset Lane, Oxnard, CA 93035-3950**

David McLaren and Bob Fraser have been concerned with the future of Sony Worldband radios in recent Musings letters. On 22 September, 2005 Sony detailed a major restructuring plan, aimed at turning around the struggling electronics and entertainment business. Sony announced a new strategy to reallocate resources suggesting it would look to trim its product lineup or downsize poorly performing businesses.

Welsh-born Howard Stringer, Sony's new CEO and the first foreign born Sony CEO who took the reigns in June, and President Ryoji Chubachi face formidable challenges in reviving Sony's core electronics division which bled red ink the last two years due to intense price competition.

The announced reorganization will axe 10,000 jobs and 11 plants, shrink or eliminate 15 business categories. Stringer's actions are meant to cut costs, speed new products to market and better coordinate separate business units. A completely different Sony is expected to emerge. They intend to focus on three core units: electronics, games and entertainment. Most of the action will target the electronics business, which accounts for 70% of Sony's sales. Sony will merge many semiautonomous electronics divisions and put them under the direction of a few top executives.

Sony expects to shed its old brand image and become something more exciting. They intend to leave the consumer electronics business and become a digital company competing against computer vendors. They have identified high definition video products, mobile devices, and their superfast Cell chips to differentiate products from rivals. TVs, digital imaging products, portable audio and DVD recorders are to be the focus areas. They expect their next-generation DVD Blu-ray disc to be key to the company's future.

In the face of the bold plan to save the company, can Sony's small volume, slow selling Worldband radios survive? Doubtful. But stay tuned.

73, Doug

**Al Quaglieri al@alcue.com, P. O. Box 888, Albany, NY 12201-0888**

Ah, lawyers: the true face of DRM. At its root, DRM is no more than a marketing initiative for a proprietary codec.

As much fun it is to twiddle around your radio's innards to (maybe) decode a DRM broadcast, as many broadcasters get bamboozled into implementing an unproven technology, as many glowing press releases are issued about how the marketplace will soon be awash in cheap all-mode receivers, at the end of the day DRM's primary goal is to enrich its creators.

It's all pie in the sky. Listeners who want to hear DRM broadcasts apparently have to be within eyeshot of the transmitters, as multihop propagation—the backbone of international broadcasting—seems to render DRM unlistenable.

Until I see evidence to the contrary, I will continue to contend that all the DRM listeners in the world would comfortably fit inside a high school gymnasium, with room left over for a basketball game.

Meanwhile, the HF bands continue to become polluted with wideband DRM QRM, all for the sake of anticipated profit.

Here's wishing the entire enterprise an unceremonious and costly demise.

Al Q.

**Steve Rosenblatt <SMR1000@aol.com>, Cleveland, Ohio**

Over the past month, I spent a lot of time on the internet learning about antennas. I set up a great longwire antenna in my backyard. Quite frankly, I was so proud of my new project and I was anxiously awaiting the DX season. Just this morning, I received a letter from the homeowner's association notifying me that I must take down the antenna. Needless to say, I am absolutely livid. It is a simple wire and not at all unsightly. In this day and age, I am just appalled that this obviously upset one of my neighbors. Dx'ing gives me such enjoyment and I'm really pretty unhappy about this decision.

Do you have any ideas about another type of antenna?? I guess I could use a DX Sloper, but my backyard isn't really perfect for this. However, this may need to be my next step. Is there any other type of antenna that would work in this situation. Are there any kinds of indoor antenna which work well?? I only am interested in DXing, so I'd need to use something that is useful for far-away signals. In the age of ebay, etc, I'd go so far as to say that price (within reason) isn't an issue.

I really would appreciate any advice that members could give me. After years of surgical training, I finally have returned to SWL and I don't intend to let a couple of shallow neighbors keep me away.

Thanks so much for your help!! Steve

Lawrence H. Bulk <lhbcomm@joimail.com>, 138 Dogwood Drive, Mullica Hill, NJ 08062-1909

I read Alan Johnson's review of the Wellbrook ALA 330S Active Loop Antenna in the October 2005 issue with a great deal of interest as I own two of them I use one with my AOR AR7030 Plus and the other with my Grundig Satellit 800. I have both of them mounted in my attic at opposite ends and they are both mounted on Radio Shack TV rotators.

Obviously, I like them very much and I have to say that I found this review to be right on the mark. I hope it encourages others to give this antenna a try. I know that most people don't like to buy a "pig-in-a-poke," especially when it is costly, but I hope that SWLers who are plagued with electrical noise at their location or who find atmospheric noise a major problem in the summertime will give this antenna a try. I believe that they will find it well worthwhile even as a supplement to a passive wire antenna. It's the best shortwave antenna I have personally experienced.

I would like to make a couple of comments: It's a pity that Mr. Johnson didn't investigate The Shortwave Shop. Andy Ikin prefers customers to buy through them (they are his only distributor other than he himself) as he would rather have them handle the billing/shipping logistics. The Shortwave Shop does indeed take credit cards I bought both of my Wellbrooks from them. I telephoned them as one would telephone any US mail-order shop (just remembering the time difference), gave them my CC number, address information, etc., and got the ball rolling. My first antenna came in less than two weeks; the second one took rather longer as Andy Ikin was really backed-up at that point. I found both Andy Ikin and Rob Burrows, the owner of The Shortwave Shop, to be considerate, helpful, and VERY enthusiastic. (The Shortwave Shop's telephone number is 011 44 1202 490099 - my long distance service charges 5¢ per minute to the UK.) No \$25.00 bank draft charge and a much easier ordering process!

I have told Rob Burrows that he really needs to upgrade his web site to permit secure ordering. He has been promising me that he would "shortly" do this; I've been waiting almost two years! Maybe if enough people tell him this should be done, he will finally get around to doing it. But ordering via telephone is certainly not difficult.

I also bought my AOR receiver from him; he, unlike the US distributors of that radio, was willing to work with me and AOR UK to allow me to buy a factory-customized radio.

Another comment I would like to make is that, if one is mounting the antenna in an attic or a sheltered outside location, the steel plate can be mounted directly to a piece of PVC pipe; as that pipe "gives," the steel plate will essentially re-thread the pipe. It worked fine for me. In an attic one can use Radio Shack's inexpensive TV Rotator (\$75.00) and its cable (\$15.00); this works very well.

Finally I would like to mention that a spare power supply and spare fuses can be easily and inexpensively purchased from Allied Electronics (remember them?). They're on the web and you can also telephone them. The power supply is a Stancor STA-300R and is Allied's stock number 928-9895 and the fuses are Littelfuse Part Number 218.315; Allied's stock number is 845-0067. I paid \$10.72 for a spare power supply and \$1.44 each for a few spare fuses (note that Andy Ikin supplies a couple of spare fuses with the antenna).

Thanks again for a great review and a great magazine to which I look forward every month.

Lawrence

**Jerry Lineback <jalinebk@satelephone.com>, 506 S. Lawrence, Scranton, KS 66537**

I thought I would let everyone know that there has been a 180 degree change in my plans. My fiancée left her job in San Francisco and will now be working for Dartmouth College in Hanover, NH. Before moving to California two years ago, she lived for several years in Deerfield, MA, and is happy to be back in New England. We have rented an apartment in Lebanon, NH. She started her new job on 17 October. I will follow after the first of the year. While dates have not been chiseled in stone, I hope to be there before March and may be able to attend my first Winterfest.

We most likely will be moving to a house in late 2006. Until then, my DX/ham shack will be the cab of my truck out in the parking lot. I would be interested in making contacts with individuals and shortwave groups in New England and nearby areas.

Although I still have the 315-degree Beverage up, my radio-time has been severely limited by sorting, packing, and mowing the grass. Near record rainfall has provided an abundant supply of the green stuff this summer.

My prime 10-acre DX property is still available, any takers?

Jerry

**Ron Howard <howard@redshift.com>, Carmel, CA**

Greetings from Monterey.

Having recently enjoyed hearing Sarawak FM (7130//5030 kHz), I thought it would be fun to attempt to make contact with some of the station's staff, via e-mail, by utilizing the extensive listing of e-mail addresses at their web site ( <http://www2.rtm.net.my/rtnsarawak/contact.htm> ). Not with the aim to get a traditional QSL (hoping my mailed report might do that) but mainly just to let them know that someone in America has enjoyed listening to their programming and to see what type of general response I could elicit. Their national language was not that easy for me to work with, resulting in my e-mail to them only including a few miscellaneous words in Bahasa Malaysia, plus to be somewhat culturally sensitive, I included "Ramadan Mubarak" (Arabic for "May your Ramadan be blessed.") and a full sentence asking if they understood English, with the remainder of my e-mail in English. Because of the language factor, I did not know what to expect in the way of how many would take the time to respond to me. Sent 25 individual e-mails, with one that bounced back, [AtikahMahli@yahoo.com], being either disabled or discontinued.

Within a period of one week I received four e-mails: Sent an e-mail to "Jai," who responded from an e-mail address of "Atun Ahmad Ibrahim [puteri\_jengking@yahoo.com]," with a nice "terima kasih" (thank you) note in Bahasa Malaysia and she asked if I knew their language.

Izah Faezah [ezahswkfm@yahoo.com] responded with a brief note in a mix of simple English and Bahasa Malaysia and she wished me a "Happy Ramadhan."

Azaz Azmi responded from an e-mail address of "sulaiman adam [adamjust@yahoo.com]," with a note all in English: "I'm so glad that you're listening to Sarawak FM. I hope we keep in touch and I would like to hear more from you (about yourself)." He also included information about their web site.

Saiful Arini W., who mailed from "Arini Saiful [syaiary@yahoo.com]," wrote not from Sarawak but from Kuala Lumpur (Nasional FM, Tingkat 2 Selatan, Wisma Radio, Angkasapuri, 50740 Kuala Lumpur, Malaysia, phone 03 22849776) and indicated "I'm very sorry to reply to your email in the Malay/Malaysia language. And as a Malaysian I should be proud of my mother tongue and I feel proud to know that you had wrote one sentence in Bahasa Malaysia. Thanks a lot." Interesting linguistic nationalism. His e-mail provided information about the various Sarawak stations, in Bahasa Malaysia, with basically the same information as provided at the Sarawak FM web site. Wrote that if I ever came to Kuala Lumpur, to give him a call.

All of them wished me a Happy Ramadhan, so I responded by sending them a Ramadhan Malaysia greeting e-card (via a Singapore web site), with a simple "terima kasih" message. Was an interesting experiment and all in all, the results were fine.

Ron

**Richard A. D'Angelo <rdangelo3@aol.com>, 2216 Burkey Drive, Wyomissing, PA 19610**

As the day light periods shorten and the weather begins to cool down, it is time for planning a few DXpeditions for the coming season. We are tentatively scheduled to visit French Creek in mid-November and again around the third week of December. A final DXpedition should happen in late January. As always, I am looking forward to these French Creek DXpeditions. They provide a nice alternative DX venue with solid time behind the dials without the usual household distractions.

A quite month on the QSL front with nothing too exciting happening in the mailbox this month. Radio Free Asia finally released cards that have the 18th Winter SWL Festival theme. We heard about these from AJ at the last FEST but there was quite a backlog of reports to clear out resulting in the delay. The Radio Polonia verification was for a follow up report. They seemed genuinely friendly and somewhat disappointed that I didn't get a reply from them for my first report.

73, Rich

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## **FRENDX: Twenty-Five Years Ago (November 1980)**

Roll Call introduced 54 new and re-joining members including Kirk Trummel and Terry Klasek. Don Jensen was elected to fill the vacant Executive Council seat. A total of 209 ballots were cast with Don receiving 96 votes and runner up Tom Alleman 63 votes. The revised NASWA Radio Country List & Awards Program booklet was available from HQ for \$1.00. In the Shortwave Center, editor John Moritz presented features by Pitt McNeil (Records of Central Andean Music), Bob Foxworth (Dream Shack), Bill Whitacre (Pirates: There is a Difference) and Ralph Perry (Sumatran RRI's). In Listeners' Notebook, editor Glenn Hauser carried a report on Joseph Costello and his plans to launch commercial shortwave station WRNO. Members receiving awards from Dan Henderson included Michael Hardester, Paul Buer, William Krause, John Kapinos, Dave Valko, Bill Taylor, Rowland Archer and Kevin Mikell. In the QSL Report, editor Sam Barto noted 108 countries were reported. Don Erickson was taking pre-publication discount orders for the 1981 World Radio TV Handbook for \$15.00. In FrenDx Credits, editor Gregg Bares noted 70 reporters contributing. Among the faithful were Brian Alexander, Rowland Archer, Grgg Bares, Ray Baurenhuber, Ernie Behr, Charles Bolland, Paul Buer, Vlad Cucura, Larry Cunningham, Richard D'Angelo, Marlin Field, John Fisher (MA), Bob Fraser, Glenn Hauser, Charley Hoffman, Jerry Lineback, Don Moore, George Poppin, Steven Reinstein, Harold Sellers, Dave Valko, and Richard Wood.

# Easy Listening

Richard D. Cuff • 42 North 37th Street • Allentown, PA 18104 • richard@thecuffs.us

## BBC World Service Developments

### Transforming the BBC World Service for the Digital Age

This past week, the BBC World Service announced changes in making as it transforms itself for the media world of 2010. The BBC will be cutting 10 language services, and using the resulting savings to fund the development and launch of an Arabic language TV channel in 2007. Most of the languages to be eliminated are Eastern European languages; Thai is also one of the languages to be eliminated.

Thankfully, English will remain a "core language" for the BBC world service. This doesn't mean there won't be changes in the BBC's English-language services in the years to come, however. Music and entertainment services will be deemphasized; previous information indicates that music and entertainment services will be moved to the weekends. His strategy is the result of audience research indicating that news and information services were valued services provided by the BBC. Shortwave use will continue to decline, as the BBC believes the most effective way of serving listeners in developed countries is via FM in major cities.

The BBC sees its target North American audience as "decision-makers and opinion formers", the same term applied to the North American audience when shortwave services were reduced in 2001.

These changes were deemed necessary because the Foreign & Commonwealth Office—somewhat like the US State Department in mission—wouldn't offer additional budget for the BBCWS to launch this new Arabic television service. The BBCWS felt this Arabic TV service was more important than these Eastern European radio services, so they took the hit.

### BBC seasonal changes

Thankfully, there aren't overwhelming changes in the B-05 schedule for the World Service. Shortwave frequencies in North America will not change, nor will their times of use be changed. However, the one-hour time shift that has become standard for 2200–0400 UTC will continue. For example, *The World Today*, which aired at 0200 during the summer, will now air at 0300. The shifting of entertainment programming to the weekend will not happen until March 2006.

So, here's what to expect from the BBC's scheduling on shortwave targeting the Caribbean and the Americas:

0000–0100 5975 (Montsinery) Sun—*Top of the Pops*; Mon—*Documentary 1, Sports International*; Tue–Sat—*Outlook, Off the Shelf*

0200–0300 5975 (Montsinery), 9825 (Skelton), 12095 (Ascension) Sun—*Play of the Week*; Mon—*The Ticket*; Tue—*Health Matters, The Word*; Wed—*Go Digital, Everywoman*; Thu—*Discovery, Sports International*; Fri—*One Planet, The Interview*; Sat—*Science in Action, Heart & Soul, The Instant Guide*

0300–0400 5975 (Delano) Sun—*From Our Own Correspondent, People & Politics*; Mon–Fri—*The World Today*; Sat—*Assignment, Charlie Gillett*

1000–1100 6195 (Montsinery) Sun—*From Our Own Correspondent, Reporting Religion*; Mon–Fri—*World Update*; Sat—*Global Business, The Interview*

1100–1200 11855 (Montsinery) Sun—*Documentary 2, In Praise of God*; Mon–Fri—*Caribbean Report, Caribbean Sport, Caribbean Magazine, Analysis, Sports Roundup*; Sat—*World Briefing, World Business Review, Sports Roundup*

1200–1300 11855 (Montsinery) Sun—*Newshour*; Mon–Fri *Caribbean Business, Caribbean Report, Caribbean Magazine, Newshour*; Sat—*Newshour*

1200–1300 9605 (WYFR—Okeechobee), 15190 (Bonaire)—*Newshour*

2100–2130 15390 (Greenville, NC USA) Mon–Fri (only)—*Newshour*

2100–2200 11675 (Montsinery) Sun—*Newshour*; Mon–Fri—*Sports Roundup, Caribbean Report, Newshour*; Sat—*Newshour*

2200–2300 5975 (Montsinery) Sun—*Documentary 2, In Praise of God*; Mon—*Health Matters, The Word*; Tue—*Go Digital, Everywoman*; Wed—*Discovery, Sports International*; Thu—*One Planet, The Interview*; Fri—*Science in Action, Heart & Soul, The Instant Guide*; Sat—*Play of the Week*

2300–0000 5975 (Montsinery) Sun–Thu—*The World Today*; Fri—*The World Today, World Football*; Sat—*The World Today, Reporting Religion*

In addition to these, following is a list of frequencies and times for shortwave transmissions targeting other regions that may be audible in the USA and Canada.

0300–0600 7160as (W. Africa)  
0300–0700 11765sa (W. Africa)  
0400–0700 6005as (W. Africa)  
0500–0600 9410cy (W & S Europe)  
0500–0700 6195g (W & S Europe)  
0500–0800 9410g (N. Africa)  
0600–0700 7160g (W. Africa)  
0600–0800 9410g (W & S Europe)  
0700–0800 11765as (W. Africa), 17830g (W. & C. Africa)  
0700–1500 17640g (N. Africa)  
0700–1700 15485g (N. Africa)  
0800–2100 17830 (W. & C. Africa)—1000–1100 Sat–Sun only  
1000–1600 9740sg (far east—generally audible in Western North America)  
1500–2300 15400as (W. Africa)

Transmitter codes:  
cy—Cyprus  
g—United Kingdom (no transmitter specified)  
sa—South Africa  
sg—Singapore

Not all of these may propagate, of course...but these looked to be the most likely candidates.

Other frequencies in wide use globally are 6190, 11940, 15310, 17790, 21470; they're in use somewhere at least 12 hours/day. Unfortunately, with the reduction in shortwave hours to Europe from last March, one can no longer make the same blanket recommendation regarding 6195, 9410, or 12095.

### The End of Outlook

It was also recently announced that *Outlook*, the 45-minute daily magazine / human interest program, will end production in March 2006. The BBCWS has stated that this genre of program will continue, but apparently the new program will be different enough from *Outlook* that it's worth the trouble to come up with a new program name. Frankly, I'm skeptical—the *Outlook* program has been a long-revered component of the World Service schedule, and to abandon that name seems like a waste of brand equity.

## RCI Frequency and Programming Changes

Listening to **Radio Canada International** in the evenings has been difficult for the past year, as the traditional early-evening (2200–0000 UTC) timeslot was abandoned for later times, and the frequencies chosen didn't propagate well to much of Eastern North America. Good news—the B-05 schedule brings a restoration to early evening programming from RCI, with, it's hoped, more usable frequencies than before. Additionally, some of the domestic CBC programming that RCI retransmits to North America is leaving the air, which will necessitate some other changes.

First off, here are the new transmission and programming schedules for broadcasts targeting North America, plus those targeted elsewhere that should be audible in Eastern North America:

0000-0200 9755 kHz: Sun—*The World This Weekend, Madly Off in All Directions, Global Village*; Mon—*The World This Weekend, Maple Leaf Mailbag, Writers & Company*; Tues-Sat—*The World At Six, As It Happens*

1400-1700 9515, 13655, 17820 kHz: Sun—*The Sunday Edition*; Mon-Thu—*The Current, Sounds Like Canada, Outfront*; Fri—*The Current, Sounds Like Canada, C'est La Vie*; Sat—*The House, Vinyl Café, Quirks & Quarks*

1800-1900 17740 kHz (targets Africa): Sun—*Maple Leaf Mailbag, Spotlight*; Mon-Fri—*Canada Today*, followed by Mon—*Media Zone*; Tue—*The Mailbag*; Wed—*Spotlight*; Thu—*Business Sense*; Fri—*Scitech File*; Sat—*Business Sense, Scitech File*

2100-2300 15180 kHz: Sun—*Cross Country Checkup*; Mon-Thu—*Freestyle*; Fri—*Talking Books, Freestyle*; Sat—*Definitely Not the Opera*. *Freestyle* is replacing *Roundup*—Host Tetsuro Shigematsu announced that *Freestyle* will begin on Nov. 7 on CBC's domestic services; no one at RCI knows exactly what this new program will be about.

2100-2200 9770 kHz (targets Europe): See the programming for 1800 UTC 19770 kHz; only change is that *Canada Today* will be the European version; the 1800 edition is produced for an African audience.

2200-2230 11990 kHz (targets South America): Sun—*Maple Leaf Mailbag*; Mon-Fri—*The World At Six*; Sat—*Madly Off in All Directions*

2300-0000 6100 kHz: Sun—*The World This Weekend, Maple Leaf Mailbag*; Mon-Fri—*The World at Six, As It Happens*; Sat—*The World This Weekend, Madly Off in All Directions*

The services I've shown that target other than North America are for frequencies originating in Sackville. Provided the frequencies are propagating at that time, they should be reasonably audible in North America.

Speaking of the CBC, there's no word yet on when the Sirius and XM satellite radio offerings will officially be launched in Canada, though both companies state it will be "in time for the holidays". Sirius continues to state that they expect the CBC Radio One service to be available to existing USA subscribers as well. This will take me back to my younger days, when Toronto's CBL / 740 was a regular visitor—days and nights—to our suburban Buffalo, NY home.

## Radio Netherlands Shuffles Too

There are a few programming changes coming up at RNW, even though broadcast times and frequencies to North America aren't materially changing.

Added—*Saturday Connection*; Dropped—*Europe Unzipped, Wide Angle* and *Insight*. *Saturday Connection* is a new series, produced by the *Newsline* team, that will be a "lighter-in-feel" news analysis program, like *Newsline*, but with some listener feedback added. Like *Newsline*, there won't be a permanent host, at least not yet.

Moved and lengthened—*Amsterdam Forum*. With the debut of *Saturday Connection*, *Amsterdam Forum* will move to Sundays and will be lengthened to 55 minutes. I respect this program because it's tackled some thorny issues that North American stations would not deal with as forthrightly—for example, the role of religion in society—due to their sensitivity.

Moved—*Vox Humana*. With the repositioning of *Amsterdam Forum* to Sundays and UTC Mondays, *Vox Humana*, yet another fine documentary-oriented program focusing on human interest themes addressing the heart more than the head, moves to Saturdays and UTC Sundays.

## Radio Prague for the winter

I might be partial to **Radio Prague**—because my brother-in-law and his family live in the Czech republic—but I consider Radio Prague's English-language broadcasts generally to be the best-crafted broadcasts originating from the former Warsaw Pact countries. Radio Prague has made some slight modifications to their weekly schedule; here's what you can expect each day for the Winter 2005–2006 season. Note that the programs for a given day air in the evening programs targeting North America at 0100, 0200 and 0400 the next UTC day.

Sun—**Mailbox**—answering letters, e-mails and phone calls; **Letter from Prague**—a personal view of life in and around the Czech capital; **Encore**—A monthly look at what's going on in the world of Czech classical music; **Magic Carpet**—music that goes beyond the borders of different genres—also once a month; **Czech Books**—Czech writing today—once a fortnight.

Weekdays—Each weekday broadcast starts with a news bulletin followed by a current affairs program; following these are the following feature programs:

Mon—**One on One**—an informal interview show, where you have the chance to meet some of the most interesting figures in Czech life today.

Tue—**Talking Point**—a closer look at the issues—big and small—shaping the day-to-day lives of people in the Czech Republic.

Wed—**Czechs in History**—remarkable people and events in the history of the Czech Lands (once a month); **Czechs Today**—a Who's Who of personalities shaping contemporary Czech society (also once a month); these alternate with the biweekly **Spotlight**—a popular feature in taking us to different corners of the Czech Republic.

Thu—**Panorama**—A look at interesting social and cultural developments beneath

the surface in the Czech Republic today; **Czech Science**—everything about Czech science, past and present (once a month—now at full feature length)

Fri—**Business Briefs**—the latest business news; **The Arts**—reports on the rich cultural life of a country in the heart of Europe.

Sat—Current affairs omitted, replaced with **Magazine**—The show that starts where the news ends—bringing the stories you might otherwise have missed; **ABC of Czech**—unraveling the mysteries of the Czech language; **One on One**—another chance to hear Tuesday's interview.

On Saturday evening and Sunday morning, at selected times (2230 Sat, 2330 Sat, 1400 Sun), Radio Prague broadcasts **Insight Central Europe**, the Central European current affairs magazine, produced in Prague in cooperation between Radio Prague, Radio Slovakia International, Radio Polonia, Radio Hungary and Radio Slovenia International:

Frequencies targeting North America: 1400–1429, 21745 kHz; 2100–2127, 5930 kHz; 2230–2257, 5930 kHz; 2330–2357, 5930 and 7345 kHz; 0100–0127, 0200–0227 and 0400–0427, 6200 and 7345 kHz. Website, with extensive on-demand and live audio: <http://www.radio.cz>.

## Non-Shortwave Suggestions

### Ireland—*Seascapes*

I've mentioned **RTE Radio 1** before—Ireland's national spoken-word radio service. There are plenty of treasures there that are now available to us via the Internet courtesy of live and on-demand webcasting.

Folks who have been listening to the **BBC World Service** for 20 years might remember **The Seven Seas**—this was a quaint, 15-minute weekly program on maritime issues. That program morphed into **On The Move**, which concerned itself with transportation issues in general, and then left the air.

RTE Radio 1 still offers a weekly program on maritime topics, called *Seascapes*. This program provides comprehensive coverage of all aspects of the marine sector, presented by Tom MacSweeney, RTE's Marine Correspondent. *Seascapes* invites listener contributions. The 24-hour *Seascapes* phone line—+1 353 1850 715 170—is always open for listener views on maritime matters, or you can e-mail [seascapes@rte.ie](mailto:seascapes@rte.ie).

Following the autumnal time change, *Seascapes* will air at 1930 UT Thursdays, with a repeat Saturdays 0530. Each week's edition is available via on-demand webcast until the next week's edition; you can also listen live online as well.

#### **New Zealand—Nine to Noon**

With **Radio New Zealand's National Radio** now webcasting more of its programming live and on-demand, here's a chance to hear programming during a time of day when **Radio New Zealand International**—the international service—does not propagate well to North America. *Nine to Noon* is a magazine-formatted program, airing weekdays locally from 9 AM to 12 noon (!) that investigates everything from hard news to lifestyle issues, with the help of newsmakers, overseas commentators and correspondents, fellow journalists, experts in every imaginable field, writers, reviewers and ordinary New Zealanders. The program gets noticeably lighter in tone and content as the New Zealand morning progresses. For an international audience, the feature airing at 9:45 AM New Zealand time—2045 UTC—may be the most interesting because it's an interview with an international correspondent—the location of which rotates daily. National Radio's USA-based correspondents are interviewed on local Wednesdays (UTC Tuesdays).

*Nine to Noon* is available on-demand, parsed by program segment (see below); the last 25 minutes of the program air on RNZI at 2235 UTC.

#### **RNZ's National Radio has its new website online**

I've been watching this for several months; **Radio New Zealand's National Radio**, the spoken-word public radio service similar to Australia's **Radio National** and the BBC's **Radio 4**, has finally launched their new website (<http://www.radionz.co.nz>) and has increased the availability of live and on-demand audio. The live audio remains available around the clock, as had been the case during the testing period; round the clock live audio is now provided for **Radio New Zealand International** as well.

I frankly don't think some aspects of the new website are optimally arranged; for example, audio for *Checkpoint*, the two-hour evening current affairs program, is only listed by individual story; you can't simply click once and listen to the entire program from start to finish. I've been in dialogue with the RNZ webmaster, who says he's working on a fix for this inadequacy; he has invited me to be a beta tester once he has the web code in place. Also, the most recent audio for a program isn't always listed on the information page for that program; the audio for many programs can be found by searching the "Find Audio" link.

Despite these shortcomings, it's good to see **National Radio** join the ranks of the world's best English language spoken-word public service broadcasters (now there's a mouthful) with comprehensive live and on-demand audio availability.

RNZI changed its frequencies effective October 30<sup>th</sup>; those audible in North America should include 0400-0759, 15720 kHz; 0800-1059, 9885 kHz; 1100-1259, 15530 (probably not the greatest—beam is away from the USA); 1300-1650, 9870 kHz.

Until next month, 73 DE Richard



# Shortwave Center

John Figliozzi • 45 Algonquin Rd • Clifton Park, NY 12065 • jfiglio1@nycap.rr.com

This month we have but one article for you. The good news is that it is a new one penned by one of our members, Eric Bueneman. It's an analysis/opinion piece on DRM and its prospects for the future. It should generate some discussion among the membership here in *Shortwave Center* or in the *Musings* section. (At least I hope so.)

The bad news, of course, is that there's only one this month. Now might be a good time to explain the difference between a club bulletin like *The Journal* and a magazine like *Monitoring Times*. A magazine can pay its writers and the money paid to receive it is called a subscription. A club bulletin,

on the other hand, depends on the voluntary efforts of the club membership and the money paid to receive it is called a membership fee. Frankly, without both your monetary and intellectual support the club—and its bulletin—cannot succeed.

Won't you consider contributing an article to *The Journal*? We'd really like to have you be a part of it. And wouldn't it be neat to see your byline and your words in the best darn club bulletin on the planet? You betcha!

Happy Thanksgiving and we'll look forward to a *Shortwave Center* next month with much more of what we all like. You!

## DRM is not The Answer to Shortwave's Woes

By Eric Bueneman (NØUIH)

Over the past several years, an unproven technology has made the rounds on the shortwave bands called DRM, or Digital Radio Mondiale. Their proponents claim that it will save shortwave and medium wave (AM) radio. Well, I have some news for you. DRM will **not** save shortwave broadcasting; it will make matters much worse.

American broadcasters are testing a similar, unproven system called "HD Radio," in other words, in-band, on-channel digital audio broadcasting, or IBOC-DAB. So far, IBOC has been a disaster, proving that digital radio signals cannot fit into such a small slice of radio spectrum. On the medium wave band (530-1700 kHz in the United States), if your local AM station broadcasts in this format, expect at least 60 kHz of spectrum (30 kHz either side of the main channel) to be wiped out by digital sidebands. It's worse if you're close to the transmitter site; as much as 100 kHz of spectrum (50 kHz either side) either suffers from massive interference or wiped out entirely. On the FM band (87.9 to

107.9 MHz in the U.S.), the damage is just as bad: 600 kHz of spectrum (300 kHz on either side of the center channel) is wiped out by digital sidebands.

The amount of spectrum wasted by DRM is generally 30 kHz (15 kHz on either side of the main channel). For example, let's look at the early evening DRM transmissions via Radio Canada International's Sackville relay on 9800 kHz. First of all, the typical shortwave receiver is not equipped to decode DRM transmissions. Therefore, all you get is digital hissing sound effects. The DRM transmissions from the Sackville relay station not only wipes out 9800 kHz, but makes the portion of spectrum 15 kHz either side of the main channel (a stretch of radio spectrum between 9785 and 9815 kHz) is wiped out by the DRM sidebands coming from Sackville. And without special circuitry, the average shortwave listener, even on a car radio with a shortwave converter (such as the MFJ-306) cannot decode the DRM broadcast.

The one thing that DRM and "HD Radio" have in common is that the sound quality leaves

something to be desired. Have you listened to an Internet radio station via dial-up modem? This is exactly what digital signals, regardless of where they come from, sound like when the signal strength is reduced. Unlike with analog radio, in which you can still hear notes or verses of a song or a word of a sentence when signal strength declines, a digital audio signal will not allow you to hear those missed notes, verses or words that you can still hear on analog radio. In fact, you can miss a group of notes or a whole verse of a song, or even an entire sentence or paragraph of spoken word, when the signal strength of a digital radio station is reduced. That will make the listener frustrated to no end. And what about the listener without the means to decode DRM broadcasts? He or she is left out in the cold.

DRM is definitely not the answer to the woes of shortwave radio, nor will it "invigorate the band," as proponents claim it will. One alternative way that shortwave radio can be reinvented is with an aggressive promotional campaign. Promoting shortwave radio, especially as an alternative to corporate-controlled medium wave and FM radio, has been one thing that shortwave broadcasters have failed to do, especially in more localized print media like the local newspaper. The world's shortwave broadcasters missed a golden opportunity when the American commercial broadcast business became virtually unregulated in 1996. Since that time, commercial radio program quality has been on the decline. Shortwave broadcasters needed to promote the better quality of programming, more realistic viewpoints and better quality news programs than the corporate-controlled American AM and FM broadcasters are willing to provide. For those who only have AM and FM in their cars, the only alternatives available are independent commercial stations and non-commercial educational radio stations, including those who are member stations of National Public Radio (NPR) and/or Public Radio International (PRI). XM and Sirius Satellite Radio doesn't offer much of an alternative, either; the cost is much higher for satellite radio than shortwave (\$10-20 per month for satellite radio, free of charge for shortwave).

Shortwave broadcasters also missed a golden opportunity to promote another advantage over AM and FM: superior signal coverage. For instance, let's look at the stations operating with 50,000 watts of power. For FM radio, this is half the maximum power allowed in some areas, while it is the maximum allowed in other areas of the United States, in terms of effective radiated power. The coverage on FM at 50,000 watts ERP is often limited to a 70-mile radius around the transmitter site. This is also the maximum output power allowed for AM broadcast stations in the United States. An American AM station can only cover a portion of the United States on 50,000 watts (four-fifths of the U.S., at the very most); the same amount of power would go much further on shortwave; virtually covering an entire continent with a clear signal. Even more powerful signals can bring a local-like signal to more places. For example, take the signal of the Radio Netherlands relay via Bonaire on 9845 kHz. When they broadcast in English to North America, much of the continent is blanketed with a local-strength signal. This is another advantage that shortwave broadcasters can use to promote the services they offer to the listening public.

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In general, shortwave  
broadcasters have done  
a poor job in  
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They have failed  
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If shortwave is  
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listener community.

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Another alternative is to be politically active; one way to do this is to petition the Federal Communications Commission to require that all mobile receivers currently manufactured for the U.S. marketplace that currently receives AM and FM transmissions to also be able to receive at least four shortwave bands, preferably the ones most used by shortwave broadcasters. The only way one can receive shortwave transmissions in a mobile application is to purchase a shortwave converter, such as the MFJ-306. I've had some good listening experiences with that particular model. Had there been a good in-dash mobile AM/FM/SW receiver available in the U.S. marketplace (especially one with a CD player, auxiliary jack to plug in an MP3 player or public service band scanner, or even AM Stereo), I would have bought it in a second. Unfortunately, the minority rules at the FCC; they insist on feeding radio dominated by illegal "shock jocks" and extreme right-wing talk show hosts.

Broadcasters who have stopped targeting North America on shortwave or stopped shortwave broadcasting altogether have really suffered. For instance, take the BBC World Service. There is no reliable shortwave frequency available for listeners in North America. Most of the AM and FM stations carrying BBC World Service programming do so at a time of day when most people are sleeping. For example, the local BBC World Service outlet, KWMU (90.7 MHz), carries BBC World Service between 11:00 p.m. and 5:00 a.m. local time. More people would listen if they scheduled BBC World Service programming during prime-time hours or even 24 hours a day, seven days a week.

Deutsche Welle literally shot themselves in the foot when they discontinued broadcasts in English on shortwave to North America. Unlike with BBC World Service, DW programming is largely unavailable in the United States. Even though the same program distributor (Public Radio International) sends both BBC World Service and Deutsche Welle programming to U.S. stations, very few, if any, U.S. AM and FM stations have picked up DW programming; therefore, access to the U.S. marketplace is largely cut off. Before

DW dropped shortwave in English to North America, the Antigua relay regularly put a local-like signal into the central United States; ditto with BBC World Service.

Making matters worse is the corporate domination of the commercial radio industry in the United States. The largest AM and FM broadcasters, such as Clear Channel Worldwide, Infinity Broadcasting and Cumulus Media, prefer to air largely extreme right wing talk programming which espouse largely unrealistic world views, unlike the more realistic world views presented by the largest international broadcasters. The quality programming put together by international broadcasters would have found a much larger audience had corporate broadcasters sold several of their 50,000-watt medium wave stations to relay companies similar to VT Merlin, which would have used those facilities for broadcasters like the BBC World Service, Deutsche Welle, Radio Netherlands and Radio Japan to send their programs into a wider segment of the U.S. marketplace, especially at night.

Broadcasters who discontinued shortwave broadcasts altogether, such as Radio Vlaanderen International or Swiss Radio International, have largely cut off information on their countries to the listening public. Not everyone has Internet access; nor does everyone have a subscription to XM or Sirius Satellite Radio. Therefore, we'll never hear what's going on in Belgium or Switzerland without Internet access, or hear Deutsche Welle programming in the U.S. without buying a satellite radio subscription.

In general, shortwave broadcasters have done a very poor job in promoting themselves to the general public. They have failed to exploit the better programming and superior signal coverage; nor have we, as a community, pressured our communications authorities to give us the kind of receivers and access to programming we deserve. If shortwave is to survive, it is with better promotion and a more active listener community, not with a destructive technology like DRM. And that's the truth. 

# Kim's Column

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<http://www.kimandrewelliott.com>

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This column, with links, is available at this URL publicized only to NASWA members: [www.kimandrewelliott.com/board.html](http://www.kimandrewelliott.com/board.html)

## Hoping no one would notice?

The topmost authority of U.S. international broadcasting (VOA, RFE/RL, RFA, Alhurra, Radio Sawa, the Martis) is the Broadcasting Board of Governors. The BBG is supposed to be bipartisan: four Republicans, four Democrats, and the Secretary of State as an *ex officio* member. (In practice, the under secretary of state for public diplomacy—now Karen Hughes—attends the Board meetings.)

On September 6, President Bush nominated Mark McKinnon to fill one of the seats on the BBG. Mr. McKinnon was once a Democrat, might still technically be a Democrat, but more recently he was the communications director of the president's 2004 campaign and a staunch Bush ally. In [kimandrewelliott.com](http://kimandrewelliott.com), I wondered if Mr. McKinnon was nominated for a Republican seat on the BBG or a Democratic seat. The BBG spokesman would not respond to my question about this, because, he said, it was a White House nomination. I didn't think the White House press office would respond to the likes of me, so I put out an appeal to any journalist with the chops to look into this matter.

Finally, on October 19, the Washington Post's In the Loop column reported that McKinnon was originally nominated to take the expiring seat of Democrat Joaquin Blaya. After protests from Senate Democrats, including Joseph Biden, the White House switched the nomination to fill the seat of Republican Fayza Veronique Boulad Rodman.

Fayza who? Apparently, Veronique Rodman was appointed to the BBG by the president in 2003 during a Senate recess, thus sidestepping the Senate confirmation process. She was not reappointed at the end of 2003, so that Republican seat has—if I have this

right—remained vacant since then. Mrs. Rodman is public relations director of the American Enterprise Institute and wife of a prominent Pentagon neocon.

The federal government has spawned many bipartisan commissions. The Bush Administration might be tempted to fill the Democratic seats on these commissions with Zell Miller type Democrats. And Democratic administrations have probably tried the vice versa. But in the case of the Broadcasting Board of Governors, bipartisanship is essential. It, in theory, prevents the Board from beckoning the content of U.S. international broadcasting to veer in one direction or the other. The audience would quickly detect the bias.

Ideally, the BBG should not only be bipartisan, it should also consist of respected journalists who appreciate the value of editorial independence. Even better, these journalists should have overseas experience so they know something of the role that international broadcasting plays in countries where the domestic media are deficient because of a poor economy, or government control, or both.

Perhaps the solution would be to give the Associated Press a five-year contract to govern U.S. international broadcasting. The AP is a cooperative of newspapers and other news organizations whose ownerships represent the spectrum from Republican to Democrat, conservative to liberal. It is also the largest newsgathering organization in the world, whose resources would allow U.S. international broadcasting to be competitive with BBC World Service and BBC World. The AP might balk at becoming associated with what many (mis)perceive as a U.S. propaganda operation. But the contract would be for five years, with no kibitzing by the government during that period. At the end of the five years, if the AP, or the government, or both, is not satisfied with the arrangement, it would end.

## Speaking of Karen Hughes

As I type this, she is on her second "listening tour," this time to Indonesia and Malaysia. As with her first listening tour to the Middle East, she has been speaking at forums, where the audiences, instead of being swayed by her presentations, have given her earfuls of opposition to U.S. policies. And it is those statements against U.S. policies that capture the headlines and the prominent paragraphs in the news reports about Mrs. Hughes's visits.

What is the strategy here? Is it some sort of reverse psychology thing that only the senior circles of U.S. public diplomacy can understand?

During an appearance in Indonesia, she said that Saddam Hussein had gassed to death "hundreds of thousands of his own people." Actually, even though Saddam Hussein is responsible for some 300,000 deaths in Iraq, the number of Kurds who were gassed was about five thousand. That's a ghastly enough number, sufficient to have served Mrs. Hughes's rhetorical purpose.

During her previous trip, to the Middle East, she incorrectly told Egyptian opposition leaders that the phrase "one nation under God" is in the U.S. Constitution.

Now U.S. public diplomacy is not U.S. international broadcasting. The latter is in the news business, and it must be accurate to maintain its all-important credibility. Public diplomacy is more of a public relations activity, but credibility still counts. Mrs. Hughes's casual regard to the facts diminishes the effectiveness of U.S. public diplomacy, which is already in a very, very bad way.

The problem, I think, is that Mrs. Hughes and the two women who preceded her as under secretary for public diplomacy have been trying to reverse negative world opinion by hitting a PR home run out of the park. They would have been better off just trying to hit singles: slowly but steadily moving world public opinion about the United States, initially from "dislike strongly" to "dislike somewhat." That could make the difference between "willing to participate in violence against the United States" and "willing to participate in a noisy demonstration against the United States."

This can be done by using public diplomacy to set the record straight wherever and whenever the facts about U.S. policies are distorted by disinformation. Hence the need to maintain credibility by keeping our own facts straight.

Also, Mrs. Hughes might consider staying in Washington and letting her interculturally savvy practitioners in the embassies do the listening. Based on what she heard in the Middle East, she arranged for Palestinian officials visiting Washington to (and to their great surprise) meet the president. She is famous for having the ear of the president. Getting the word about world opinion to the president before the administration takes actions that further antagonize publics abroad could be Mrs. Hughes's particular contribution to public diplomacy.

## The VOA unions speak

On October 21, the *Washington Times* published a letter from the presidents of the two labor unions representing VOA employees. They were responding to a Times editorial about Radio Sawa and Alhurra. They wrote that U.S. international broadcasting, as "part of the public-diplomacy apparatus of the United States government," should "have its pollsters ask is whether Al Hurra's audience has changed its opinions about the United States."

As a dues paying member of one of those unions, I must respectfully disagree. For the sake of its credibility, U.S. international broadcasting was separated from U.S. public diplomacy by legislation in the 1990s. Audiences tune to U.S. international broadcasting to get news that is more reliable, comprehensive, and objective than their state controlled domestic media. Thus informed, these audiences are bolstered against disinformation and better equipped to form their own opinions about current affairs. This is a subtle and long-term process, and it probably can't be measured by polls showing opinions about the United States improving from year to year.

*Views expressed are my own. More at [kimandrewelliott.com](http://kimandrewelliott.com).*



# Listener's Notebook

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**FOR YEARS I'VE GRIPED** about never having enough schedules on hand at the change of broadcast season...well, as they say, be careful what you wish...I've been bombarded with them! So this month's column will be as many of these as I've had a chance to format. Will resume mixing skeds with DX news in next month's column!

## ALBANIA Radio Tirana B05:

0000-0130 Albanian 7455  
0245-0300 English 6115 7455 Tu-Su  
0330-0400 English 6115 7455 Tu-Su  
0730-1000 Albanian 7105  
1901-1930 German 6280 Mo-Sa  
1945-2000 English 6225 7530 Mo-Sa  
2001-2030 French 6215 Mo-Sa  
2001-2030 Italian 7240 Mo-Sa  
2115-2130 Ser/Cro 5995 Mo-Sa  
2130-2300 Albanian 6205  
2230-2300 English 7110 Mo-Sa

(ALR-RT Oct 10/Bueschel-GERMANY/BC-DX)

**BHUTAN BBS** to expand its SW services. Contrary to what was reported in the various e-groups some time back instead of shutting down their SW sces BBS is going to continue and will also expand their SW services.

Incidentally I visited the AIR high power transmitters at Khampur at outskirts of Delhi alongwith other dxers and the station engineer over there Mr. V.K. Baleja informed that he recently came back from a trip to Bhutan after doing extensive repairs on the BBS sw transmitter (50 kW SK45S3).

Apparently the transmitter had modulation problem & Mr Baleja was deputed to fix the same.

He showed us the photo's of BBS transmitter & the repairs carried on over there. He also informed that BBS is soon going to install another 100kw sw transmitter with the help of Indian govt. (Gupta-INDIA, hcdx Oct 23)

## BULGARIA Radio Bulgaria B05:

0000-0100 English 7400 9700  
0000-0100 Spanish 7500 9500  
0000-0100 Russian 9400  
0100-0200 Bulgarian 7400 7500 9500 9700  
0200-0300 Spanish 7500 9400 9500  
0200-0300 French 7400 9700  
0300-0400 English 7400 9700  
0400-0500 Russian 5800 7500  
0500-0600 Bulgarian 5800 5900 7500 9500  
11500 Sa/Su  
0530-0600 Bulgarian 5800 5900 7500 9500  
11500 Mo-Fr  
0600-0630 German 9500 11500

0600-0630 Russian 5800 7500  
0600-0630 Turkish 6000 7400  
0600-0630 Greek 5900 Mo-Fr  
0600-0700 Greek 5900 Sa/Su  
0630-0700 Albanian 5900 Mo-Fr  
0700-0730 Spanish 11600 13600  
0700-0730 Serbian 5900 Mo-Fr  
0700-0730 French 9500 11500  
0700-0800 Albanian 5900 Sa/Su  
0730-0800 English 9500 11500  
0800-0900 Serbian 5900 Sa/Su  
1100-1130 Bulgarian 7200 11600 11700 13600  
15700  
1100-1130 Turkish 6000 7400  
1130-1200 German 11700 15700  
1130-1200 Russian 11600 13600  
1130-1200 Greek 7200  
1200-1230 Spanish 11600 13600  
1200-1230 Albanian 7200  
1200-1230 French 11700 15700  
1230-1300 English 11700 15700  
1230-1300 Serbian 7200  
1300-1500 Bulgarian 11700 15700  
1500-1600 Russian 5800 7500 9400  
1600-1700 Bulgarian 5800 5900 7500 9400  
17500  
1700-1730 Albanian 5900  
1700-1730 Russian 5800 7500  
1730-1800 German 5800 7500  
1730-1800 Greek 5900  
1730-1800 Spanish 9800 11800  
1800-1830 Serbian 5900  
1800-1830 French 5800 7500  
1830-1900 Turkish 7400  
1830-1900 English 5800 7500  
1900-2000 Russian 5800 7500  
1900-2100 Bulgarian 5900 7400 9400  
2000-2000 Bulgarian 5900  
2000-2100 Albanian 5900  
2000-2100 German 5800 7500  
2100-2200 Greek 5900  
2100-2200 French 5800 7500  
2200-2300 Spanish 7400 9400  
2200-2300 English 5800 7500  
2200-2300 Serbian 5900

**Radio Varna** with programm "Hello Sea" in Bulgarian:

2200-0400 7600 Su  
(Observer-BUL)

**CANADA Radio Canada International B05:**

0000-0030	Chinese	5855-HBY 9565-KIM 11785-KIM
0000-0030	Spanish	9640-SAC 11990-SAC
0000-0100	English	9880-KUN
0000-0100	French	6100-SAC
0000-0200	English	9755-SAC
0030-0100	Chinese	9565-KIM 11785-KIM
0030-0100	Spanish	9640-SAC 11990-SAC
0100-0130	Spanish	6100-SAC
0300-0330	Spanish	6130-SAC 9755-SAC
0330-0400	Arabic	5840-HBY 6025-WER
0430-0500	Arabic	5840-HBY 5995-WER 7265-SKN
1200-1300	English	7105-YAM 9665-YAM
1200-1400	French	6120-SAC
1300-1330	English	9665-YAM 9725-YAM
1400-1700	English	9515-SAC 13655-SAC 17820-SAC
1430-1500	French	5985-YAM 9780-YAM
1500-1600	English	9635-KUN 11975-URU
1600-1630	Russian	5840-HBY 9555-SKN 11935-SKN
1700-1730	Russian	9555-RMP 11935-SKN
1700-2000	French	17835-SAC
1800-1900	French	5850-HBY 13650-SAC
1800-1900	English	7185-KAS 9770-KAS 11875-WER 17740-SAC
1900-2000	French	11845-SKN 13650-SAC 17740-SAC
2000-2030	Portuguese	15305-SAC 17765-SAC Fr
2000-2100	French	15180-SAC
2015-2044	Arabic	7240-SKN 9710-SKN 11865-SAC 13650-SAC
2100-2130	Portuguese	15305-SAC 17765-SAC Fr
2100-2200	French	7235-SKN 9805-MOS 11845-SAC
2100-2200	English	5850-HBY 9770-SAC 15180-SAC
2200-2230	English	15180-SAC
2200-2230	Chinese	6160-KIM 7195-KIM 9730-YAM 11990-SAC
2200-2230	Portuguese	15305-SAC 17765-SAC Sa/Su
2230-2300	English	6160-KIM 7195-KIM 9730-YAM 15180-SAC
2230-2300	Portuguese	11990-SAC 15305-SAC Sa/Su
2300-2330	Spanish	11990-SAC 13730-SAC
2300-2330	Chinese	6160-KIM 7195-KIM 12045-YAM
2300-2400	English	6100-SAC
2300-2400	French	15180-SAC
2330-2400	Spanish	11990-SAC 13730-SAC

**Digital Radio Mondial—DRM broadcasts:**

1400-1430	English	7240-FLE
2200-2300	English	9800-SAC

**Transmitter Sites**

FLE=Flevo, Netherlands
HBY=Horby, Sweden
KAS=Kashi, China
KIM=Kimjae, Republic of Korea
KUN=Kunming, China
MOS=Moosbrunn, Austria
RMP=Rampisham, UK
SAC=Sackville, Canada
SKN=Skelton, UK
SOL=Solvesborg, Sweden
URU=Urumqui, China
VOL=Voice of Lebanon
WER=Wertachtal, Germany
YAM=Yamata, Japan

(Westenhaver, RCI/Gupta-INDIA/Hauser-OK)

**ECUADOR HCJB World Radio B05 schedule:**

0000-0030	English	15530-A
0000-0300	Quichua	3220
0030-0045	Nepali	15405-A
0045-0100	Chhattisgarhi	15405-A
0045-0100	Bangla	15405-A
0100-0115	English	15405-A
0100-0115	Bhojpuri	15405-A
0100-0115	Malayalam	15405-A
0100-0115	Marwari	15405-A
0100-0115	Chhattisgarhi	15405-A
0100-0115	Gujarati	15405-A
0100-0115	Marathi	15405-A
0100-0500	Spanish	9745
0115-0130	Hindi	15405-A
0130-0200	English	15405-A
0200-0230	Urdu	15405-A
0200-0230	English	15405-A
0230-0300	German	9780
0300-0330	German	9780
0700-0900	English	11750-A
0800-0930	Portuguese	9745 21455
0800-1100	Quichua	690
0830-1000	Quichua	6125
0830-1200	Quichua	3220
0830-1300	Quichua	6080
0930-1030	Cantonese	15400-A
0930-1100	Quichua	21455
1030-1100	Huarani	6050
1030-1130	English	15400-A
1100-0500	Spanish	690
1100-1130	Cofan	6050
1100-1300	Spanish	11960
1100-1330	English	12005 21455
1100-1500	Spanish	6050 11690
1130-1200	English	15425-A
1200-1230	Indonesian	15425-A
1230-1245	Nepali	15405-A
1245-1300	Bangla	15405-A
1245-1300	Tamil	15405-A
1300-1315	Malayalam	15405-A
1300-1315	Gujarati	15405-A
1300-1315	Marwari	15405-A
1300-1315	Marathi	15405-A

1300-1315	Chhattisgarhi	15405-A
1300-1315	Bhojpuri	15405-A
1300-1500	Spanish	11960
1315-1330	Hindi	15405-A
1330-1400	English	15405-A
1330-1400	Urdu	15405-A
1330-1500	Spanish	21455
1400-1500	English	15390-A
1500-1530	English	15425-A
1500-1530	German	21455
1530-1600	German	21455
1530-1800	Portuguese	15295
1600-1629	German	3955-G
1630-1659	German	3955-G
1700-1730	var/Ru	9805-UK
1900-0500	Spanish	6050
2000-0500	Spanish	21455
2100-0300	Quichua	6080
2100-2200	Arabic	12025-UK
2100-2300	Quichua	9745
2100-2300	Spanish	12000
2230-2300	German	12040
2230-2300	English	15530-A
2230-2300	Chinese	15530-A
2250-2300	Kulina	12020
2300-0100	Spanish	11700
2300-0230	Portuguese	11920
2300-2400	Chinese	15530-A
2300-2400	Portuguese	12020
2300-2400	German	12040
2400-0230	Portuguese	12020

A=via Australia  
G=via Germany  
(Gupta-INDIA)

**EGYPT** Egyptian Radio & TV Union (*ERTU/Radio Cairo*) B05 schedule:

0000-0300	Gen Pgm	12050
0030-0430	Arabic	11885
0045-0200	Spanish	7270 9415 11755
0200-0330	English	7270
0700-1100	Gen Pgm	15115
1015-1215	Arabic	17775
1115-1145	Thai	15810
1145-1230	Malay	15810
1215-1330	English	17835
1230-1400	Indonesian	15810
1300-1600	Arabic	15365
1330-1345	Bengali	17835
1330-1530	Persian	15490
1430-1600	Pashto	15670
1500-1600	Hindi	13660
1530-1630	Uzbeki	9670
1530-1730	Swahili	17810
1600-1700	Afar	15155
1600-1800	Turkish	6230
1600-1800	Urdu	13660
1600-1800	Albanian	9990
1630-1830	English	11785
1645-1700	Shona	11760
1700-1730	Somali	15155
1730-1900	Amharic	15155

1800-1900	Italian	9988
1800-1900	Russian	6170
1800-2100	Hausa	9645
1800-2330	Voice	11665
1900-1930	Wolof	15375
1900-2000	German	9990
1915-2030	Fulani	15425
1930-2030	Bambara	15375
2000-2115	French	9990
2000-2200	Arabic	7210
2030-2200	English	15375
2030-2230	French	9765
2100-2200	Yoruba	9645
2115-2245	English	9990
2215-2330	Portuguese	11790
2300-0030	English	11885
2330-0045	Arabic	11755
2330-0045	Arabic	9735

(Gupta-INDIA)

**GERMANY Deutsche Welle** B-05 Schedule:

0000-0100	English	6030tr 7290we
0000-0200	German	11690ki 6075we 6075si 6135si 7430ka 9435tr 9545bo 9655ki
0100-0200	Russian	15145pe 15335vl 15595tr 5925we
0100-0200	Bengali	7285we 9850tr
0200-0300	Russian	15335tr 5905we 7305na
0200-0400	German	6075we 6075na 6075si 6100bo 6145we 9875ki
0300-0400	Russian	15335tr 5905na
0300-0400	Swahili	15445tr 6180ki 7150we 9565si
0400-0430	Arabic	12025ki 6035si 7105we
0400-0500	Russian	15110ki 5945we
0400-0500	English	15445tr 6180ki 9710we
0400-0600	German	13780ka 17800tr 6075we 6075si 7150we
0430-0500	Arabic	5980we 6035si
0500-0530	Bulgarian	7200si
0500-0545	Portuguese	9545we 9755ki
0500-0600	Russian	17700ki 5910we 7305na
0500-0600	English	12035ki 15410dh 7285we 9565ki
0515-0629	DRM-test	6130si
0530-0600	Ukrainian	5945we 7200si
0600-0630	Russian	17700ki 5910we 7305na
0600-0630	Bulgarian	7195na
0600-0700	German	11865ki
0600-0700	English	11785we 15440ki 7225si 7225we
0600-0800	German	12045we 13780we 6075we 6075si 7210we 9545na 9545we
0600-1000	English	6140ju
0630-0700	Hausa	9565we 12025ki
0630-0700	Albanian	6045we 7195na
0630-0700	Turkish	11905we 9615we
0630-0700	Hausa	7240si
0630-1200	DRM-test	7265we
0700-0715	Bosnian	6045we 7195na

0700-0800	German	17710we	1600-1700	French	12035si 15145ki 15275we
0700-1000	DRM-test	6130we			17610we 9810ki
0715-0730	Serbian	6045we 7195na	1600-1700	Russian	7145we 9715we
0730-0800	Macedonian	9615we	1600-1700	English	11695we 6170tr 9795tr
0800-0830	Pashto	15145ka 17710tr	1600-1759	DRM-test	12080si
0800-1000	English	21675tr/DRM	1600-1800	German	13780tr 6075we 9535ki
0800-1000	German	13780we 21640tr 6075we			9545na
		7175we 9545na 9545we	1600-1900	DRM-test	6140ju
0800-1359	DRM-test	15440si	1700-1715	Bosnian	15470si 6130we
0830-0850	Dari	15145ka 17710tr	1700-1730	Urdu	11695tr 9495we
0900-0915	Croatian	9770we	1700-1800	German	6075si
0900-1155	DRM-test	17700si	1700-1800	French	12035we 13645we 15410ki
1000-1030	Macedonian	9770we			9735na 9850ki
1000-1050	Swahili	12045ki 15410ki 21780we	1700-1900	Russian	5980we 7145we 9715tr
		9875ki	1730-1800	Polish	7240si
1000-1200	German	11510aa 13780we 15110tr	1730-1930	Farsi	6225ka 6245no
		17770we 17770si 21840na	1800-1855	DRM-test	9685si
		5905bo 5910pe 6075we	1800-1900	Farsi	7175na 9430we 11615si
		7400ir 9545na			12015ki
1000-1300	DRM-test	6140ju	1800-2000	Arabic	13660tr 15205ki 7230we
1030-1055	Chinese	15145tr 15190kr 17820tr	1800-2000	German	15275ki 6075we 6075si
		6205ko			7170ki 9545na 95700so
					9735we
1030-1100	Serbian	7175we 9770we	1900-2000	English	11865si 12025we 15470si
1030-1100	Bulgarian	11970na	1900-2000	Russian	5980we 7145we 9715tr
1100-1300	Romanian	11970na	1900-2300	DRM-test	5820mo
1130-1200	Romanes	11690we 15275we Su	2000-2100	Russian	5980we 6180we 7145si
1130-1200	Turkish	11690we 15275we Mo-Sa	2000-2100	English	12025we 15410tr 6145ki
1200-1230	Albanian	7175we 9770we			9735we 9830ki
1200-1250	Indonesian	15250tr 17820dh 9655tr	2000-2100	German	11935tr
1200-1300	French	15410ki 15470si 17610we	2000-2200	German	6075we 6075si 9545na
		17800ki 21665we	2000-2200	Arabic	11890tr 13780ki 6130na
1200-1359	DRM-test	9655we			6130we 9495si
1200-1400	German	13780we 15320we 15610tr	2100-2115	Serbian	11905ki 7245si
		17480sm 17630na 17710si	2100-2200	German	11935ki
		6075we 9545na	2100-2200	English	11690ki 7280we 9615tr
1230-1300	Bulgarian	9770we	2200-2250	Indonesian	12035ki 9610tr 9720ki
1300-1330	Bosnian	7175we 9770we	2200-2300	English	6180tr 6225aa
1300-1350	Hausa	15410ki 17800ki 21665we	2200-2400	German	11690ki 11865si 5895no
1300-1350	Chinese	13735kr 15330tr 15490tr			6075we 6075si 7395aa
		6225no			9545we
1300-1400	German	12035bo	2300-2330	English	9800sa/DRM
1300-1600	English	6140ju	2300-2350	Chinese	199360be 5915ir 5995dh
1330-1400	Croatian	7175we			6225aa
1330-1400	Dari	15640we 17610we	2300-2400	English	6070tr 9555ki 9815tr
1400-1430	Macedonian	7175we			
1400-1430	Pashto	15640we 17610we			
1400-1450	Amharic	11810ki 15225tr			
1400-1500	German	15445bo			
1400-1559	DRM-test	17800si 6130we			
1400-1600	German	13780tr 15275ki 15335we			
		6075we 9545na			
1430-1500	Serbian	7175we 9770we			
1430-1515	Urdu	13590we 7225tr			
1500-1515	Croatian	7175we			
1500-1600	Swahili	12025ki 21840we 7190ki			
1500-1600	Russian	11720we 7145we 9715we			
1500-1600	German	15445sa			
1515-1600	Hindi	13590we 7225tr 9585tr			
1530-1600	Turkish	15470si 9790na			
1600-1000	DRM-test	3995we			
1600-1630	Albanian	15470si 7210we			

aa = Alma Ata

be = Berlin

bo = Bonaire

bu = Bucharest

dh = Dhabayya

er = Erevan

fl = Flaka

gr = Grigoriopo

ir = Irkutsk

ju = Juelich

ka = Krasnodar

kb = Kabul

ki = Kigali

ko = Komsomolsk

kr = Kranji

mo = Moscow

na = Nauen  
 no = Novosibirsk  
 pe = Petropavlovsk  
 pr = Prstina  
 sa = Sackville  
 si = Sines  
 sk = Skopje  
 sm = Samara  
 so = Sofia  
 st = St. Petersburg  
 ti = Tirana  
 tr = Trincomale  
 vl = Vladivostok  
 we = Wertachtal

(Gupta-INDIA/Bueschel & Volk-GERMANY/re-arranged by Alan Roe and ye editor)

**GREECE ERT/Voice Of Greece** B05 schedule:

0000-0600	Greek	7475 9420 5865
0500-0600	Gr/En	7475 9420 5865
0600-0700	Gr/En	*7475 9420 *5865
0700-1000	Gr/En	15630 9420 11645
1100-1200	Greek	15630 12105
1200-1500	Greek	15630 9420 12105
1500-1600	Greek	15630 9420 *12105
1600-1900	Greek	15630 9420 7475
1900-2000	Greek	*15630 9420 7475
2000-2100	Greek	9375 9420 7475
2100-2300	Greek	9420 7475
2300-2400	Greek	5865 9420 7475
Foreign Language Transmissions:		
0000-0400	Greek	*9375 *12105
0000-0700	Greek	9420 *7475 *5865 15650 17520
0600-0700	Greek	*7475 9420 *5865
0600-0800	Greek	9775
0700-1000	Greek	11645 15630 9420
0900-1000	Greek	15650 21530
1100-1200	Greek	15630
1100-1400	Gr/Ar	*17525
1200-1400	Greek	17525-Tashkent
1200-1500	Greek	9775
1200-2000	Greek	*15630 9420
1400-1600	Ar/Ge/Ru/En	7430
1600-1800	Ru/Tr/Sc/Bg	7430
1600-2200	Greek	15475
1800-2000	Greek	*15630
1800-2000	Al/F/Pl/En	*7430
2000-2200	Greek	17565
2000-2300	Greek	9420 7475 12105 9375
2100-2300	Greek	9375
2300-0600	Greek	9420 7475 5865
2300-2400	Greek	9375 12105

\* Transmission end 10 min earlier

**ERT S.A. Macedonia Station**

1100-1650	Greek	9935
1700-2250	Greek	7450

(Gupta-INDIA)

**GUAM KTWR** for B05:

0730-0900	English	15225 Sa/Su
0740-0900	English	15225 Mo-Fr
0800-0930	English	11840 Mo-Fr
0815-0845	Hakka	15070
0815-0930	English	11840 Sa/Su
0845-1100	Mandarin	12130
0900-0915	Torajanese	15200 We/Th
0900-0915	Balinese	15200 Fr-Tu
0915-1000	Madurese	15200
0930-1100	Mandarin	9865 9910
0945-1030	Mandarin	11690 Sa/Su
0945-1100	Mandarin	11690 Mo-Fr
1000-1030	Sundanese	15200
1030-1200	Indonesian	15200
1100-1130	Vietnamese	9635
1100-1200	Javanese	15275
1100-1300	Mandarin	7455 9910
1200-1230	Japanese	9465 Mo-Fr
1200-1245	Japanese	9465 Sa/Su
1200-1300	Burmese	9975
1230-1300	Kokborok	11660 Mo-Fr
1245-1300	Khmer	11850
1245-1300	Kokborok	11660 Sa
1300-1330	Khmer	11695
1300-1330	Sgaw Karen	9585
1300-1345	Cantonese	9975 Mo-Fr
1300-1400	Cantonese	9975 Sa/Su
1300-1500	Mandarin	7455 9355
1330-1345	Boro	12080 We-Su
1330-1345	M/Bengali	12080 Mo/Tu
1330-1400	English	9585
1345-1400	Santhali	12080
1400-1415	Bengali	12130
1400-1445	Vietnamese	9920
1400-1500	English	9975
1415-1430	M/Bengali	12130 Mo-Fr
1415-1430	Manipuri	12130 Su
1500-1630	Korean	7455
1630-1700	Korean	7455 Sa
2200-2230	Japanese	11760 Mo-Fr
2200-2245	Japanese	11760 Sa/Su
2245-2315	Mandarin	13720
2245-2330	Mandarin	13690
2245-2330	Cantonese	12130 Mo-Fr
2245-2345	Cantonese	12130 Sa/Su

(George Ross/KTWR/Gupta-INDIA)

**ITALY RAI B-05** schedule:

0055-0115	English	11800
0055-0115	Spanish	9840
0115-0130	Portuguese	9840
0115-0130	French	11800
0130-0230	Italian	6110 11765(-0215)
0130-0315	Italian	9840 11800
0315-0335	Spanish	9840 11800
0345-0405	Russian	5965 9655
0405-0425	Ukrainian	5965 9655
0435-0445	Italian	5965 6120 7170
0435-0455	Amharic	11985
0445-0500	English	5965 6120 7170



1130-1200	Thai	11740 SNG
1200-1230	Malay	9695 13660
1200-1230	Chinese	11740 SNG
1200-1230	Chinese	6190
1230-1300	Indonesian	13660
1230-1300	French	15400 ASC 17870 ASC
1230-1300	Vietnamese	11740 SNG
1230-1300	Burmese	9695
1230-1300	Bengali	11890 SRI
1230-1300	Korean	6190
1300-1330	Malay	9695
1300-1330	Hindi	11890 SRI
1300-1330	Chinese	6190
1300-1330	Swahili	17870 ASC
1300-1500	Japanese	11705 CAN
1330-1400	Russian	6190
1330-1400	Urdu	11890 SRI
1330-1400	Thai	7200
1400-1430	Korean	6190
1400-1500	English	11840 SRI
1400-1600	English	9875 7200
1430-1500	Chinese	6190
1500-1600	English	6190 9505
1500-1700	Japanese	9535 12045 SNG 21630 ASC
1600-1900	Japanese	7200 6035
1630-1650	French	7105
1700-1800	English	9535 11970
1700-1800	Japanese	9750 UK 11865 SNG
1700-1800	English	9535 15355 GAB
1700-1800	Japanese	21600 GUF
1700-1900	Japanese	7140 9835 9575 UAE 6175 UK
1800-1820	French	11970 9685 11785
1800-1900	Japanese	15355 GAB
1820-1840	Spanish	11970
1840-1900	Russian	11970
1900-1920	Russian	5955*
1900-2100	Japanese	6035 SNG
2000-2100	Japanese	11970 6165
2000-2200	Japanese	7225
2000-2400	Japanese	11910 11665
2100-2200	English	6090 UK 6180 UK 11855 ASC 6035 SNG 17825 21670 9560
2200-2300	Japanese	11895 GUF 17825 7115 UAE 15220 ASC 6115 UK 11770 SRI
2210-2230	Korean	9560
2230-2250	Chinese	9560
2240-2300	Chinese	13650
2240-2300	Malay	17810
2300-2320	Indonesian	17810
2300-2320	Thai	13650
2300-2400	Japanese	17605 ATN
2320-2340	Vietnamese	17810
2320-2340	Burmese	13650
2340-0000	Indonesian	13650
2340-0000	Chinese	13630 17810

\* Far East Russia

#### Relays:

ASC = Ascension  
 ATN = Bonaire  
 CAN = Sackville  
 GAB = Gabon  
 GUF = Fr.Guiana  
 SNG = Singapore  
 SRI = Sri Lanka  
 UAE = Al Dhabbaya  
 UK = United Kingdom, RMP

Rest all via Yamata-JPN (Gupta-INDIA)

#### NORTHERN MARIANAS ISLANDS *KFB*S Saipan for B05:

0800-1400	Mandarin	11580
0900-1100	Russian	11650
1000-1030	Sasak	15580
1030-1130	Indonesian	15580
1100-1115	Mongolian	11650
1115-1129	Mongolian	11650
1130-1329	Russian	11650
1200-1230	Sundanese	12030
1230-1300	Gorontalo	12030
1300-1400	Vietnamese	9920
1330-1344	Tatar	11650 Mo
1330-1344	Uzbek	11650 Th
1330-1344	Udmurt	11650 Su/Th
1330-1344	Mari	11650 We
1330-1344	Kazakh	11650 Fr/Sa
1345-1359	Chuvash	11650 We
1345-1359	Ossetic	11650 Th
1345-1359	Tatar	11650 Mo/Tu
1345-1359	Udmurt	11650 Su
1345-1359	Kirghiz	11650 Fr/Sa
1400-1529	Russian	9465
1530-1544	German	9465
1530-1544	Ukrainian	9465 Mo/Tu/Sa
1530-1544	Russian	9465 Su/We/Th
1545-1600	Russian	9465 Su/We/Th
1545-1600	Ukrainian	9465
2230-2300	Vietnamese	12090

(Gupta-INDIA)

#### POLAND *Radio Polonia* B-05 schedule:

1130-1200	Polish	5965 7285
1200-1230	Russian	6180 7285
1230-1300	German	5965 9525
1300-1400	English	11850 9525
1400-1430	Russian	6035 7275
1430-1530	Belarussian	6035 7180
1530-1600	Ukrainian	6000
1530-1600	Russian	7180
1600-1630	Esperanto	7270 7285
1630-1700	German	7270
1630-1730	Polish	6050
1730-1800	Belarussian	6050
1800-1900	English	7220 7265
1900-1930	Esperanto	7290
1900-1930	Russian	6095
1930-2000	Ukrainian	6095 7210

2000-2030 Russian 6200 7180  
 2030-2100 German 6045 6125  
 2200-2300 Polish 6050 7265  
 (R.Polonia via Wolfgang Bueschel, re-arranged by Alan Roe)

**PORTUGAL RDP** B05 schedule (all broadcast in Portuguese):

0000-0300 9410 9715 11980 13700 13770 Tu-Su  
 0600-0855 9755 Mo-Fr  
 0600-1300 9815 Mo-Fr  
 0745-0900 11660 Mo-Fr  
 0800-1055 17710 Sa/Su  
 0800-1455 11875 15575 Sa/Su  
 0800-1655 21830 Sa/Su  
 0900-1055 11875 Mo-Fr  
 0930-1100 9815 Sa/Su  
 1100-1300 15140 21655 21830 Mo-Fr  
 1100-2100 21655 Sa/Su  
 1300-1700~ 15575 Mo-Fr  
 1300-1800 15575(-1700) 17745 Sa/Su  
 1400-1600 15690 Mo-Fr  
 1500-1800 11635(-1755) 11960 Sa/Su  
 1700-1900 17825 Sa/Su  
 1700-1900~ 17825 Mo-Fr  
 1700-2000 11630 17680 21655 Mo-Fr  
 1700-2100 17680 Sa/Su  
 1800-2100 11630 11740 15535 Sa/Su  
 1800-2100~ 15535 Mo-Fr  
 1900-2100~ 15540 Sa/Su  
 1900-2400~ 15540 Mo-Fr  
 2000-2400~ 9460 9795 11825 11635(2100-) 15555 Sa/Su  
 2000-2400~ 9460 9795 11825 11635(2100-) 15555 Mo-Fr

~ = Special or extra broadcasts, and may be extended to 2400.

(RDP via Carlos L.R.de A. Goncalves via Alokesh Gupta in dxldyg mail list re-arranged by Alan Roe)

**RUSSIA** Frequency changes for *Voice of Russia*:

0000-0100 Spanish NF 7180, ex 9665  
 0000-0200 Spanish NF 7390, ex 12010  
 0100-0300 Russian WS NF 5900, NF 7260, ex 9880, 12070  
 0100-0500 English WS NF 7180, ex 9665  
 0300-0500 English WS NF 5900, ex 9880  
 1000-1300 Chinese NF 9470, ex 12000  
 1400-1500 English WS NF 6205, ex 12055  
 1400-1900 Commonwealth NF 7440, ex 9820  
 1500-1530 Albanian NF 9470, ex 15290  
 1500-1600 Russian WS NF 7130, ex 15440  
 1500-1600 English WS NF 9810, NF 11980, ex 15455, 12040  
 1500-1700 German NF 7380, ex 9795  
 1530-1700 Serbian NF 9470, NF 12060, ex 15290, 11840  
 1600-1700 Romanian NF 5940, ex 15350

1600-1800 French NF 7310, NF 9810, NF 11980, ex 12070, 15455, 12040  
 1700-1730 Finnish NF 7390, NF 9820, ex 9480, 11675 Mon-Fri  
 1700-1745 Hungarian NF 5940, NF 7420, ex 15350, 11745  
 1700-1800 English WS NF 7390, NF 9820, ex 9480, 11675 Sat/Sun  
 1700-1800 Polish NF 11630, ex 11980  
 1700-1800 Russian WS NF 9480, ex 11630  
 1700-1800 Italian NF 12060, ex 11840  
 1700-1800 Arabic NF 7130, ex 12065  
 1700-1900 Arabic NF 9470, ex 9835  
 1700-1900 Commonwealth NF 7425, ex 12055  
 1730-1800 Norwegian NF 7390, NF 9820, ex 9480, 11675 Tue/Thu  
 1730-1800 Swedish NF 7390, NF 9820, ex 9480, 11675 Mon/Wed/Fri  
 1745-1830 Czech NF 5940, NF 7420, ex 15350, 11745  
 1800-1900 Greek NF 6000, NF 7230, ex 9470, 12015  
 1800-1900 English WS NF 9480, ex 11630 + addit. 9820  
 1800-1900 German NF 7380, additional  
 1800-2000 French NF 7330, NF 12070, ex 7310, 12000  
 1830-1900 Arabic NF 7130, ex 12065  
 1830-1900 Slovak NF 5940, NF 7420, ex 15350, 11745  
 1900-2000 Bulgarian NF 6000, ex 9470  
 1900-2000 Russian WS NF 7420, NF 9480, ex 11745, 11630  
 1900-2100 Russian WS NF 7425, ex 12055  
 2000-2030 Portuguese NF 9480, ex 11630  
 2000-2100 English WS NF 7310, NF 7330, ex 12070, 15455  
 2030-2100 Spanish NF 9480, ex 11630  
 2300-2400 Portuguese NF 7390, ex 12010

Changes for *China Radio International* via RUS transmitters:

1600-1657 Arabic NF 7130, ex 12065  
 1800-1827 Persian NF 7130, ex 12065  
 1830-1927 Arabic NF 7200, ex 12035

(Observer-BUL)

**SLOVAKIA** *Radio Slovakia International* B05:

0100-0130 English 7230 9440  
 0130-0200 Slovak 7230 9440  
 0200-0230 French 7230 9440  
 0230-0300 Spanish 7210 9440  
 0700-0730 English 13715 15460  
 0730-0800 Slovak 13715 15460  
 0800-0830 German 5915 6055  
 1400-1430 Russian 9440 11990  
 1430-1500 German 6055 7345  
 1530-1600 Spanish 9445 11600  
 1600-1630 Russian 5915 6055

1630-1700	Slovak	5915 6055
1700-1730	German	5915 6055
1730-1800	English	5915 6055
1800-1830	French	5915 6055
1830-1900	Russian	5915 9485
1900-1930	German	5915 7345
1930-2000	English	5915 7345
2000-2030	Slovak	5915 7345
2030-2100	French	5915 7345
2100-2130	Spanish	9460 11610

(Willschrey-GERMANY/Gupta-INDIA)

**SOUTH AFRICA** SENTECH site, all broadcasts for B05:

**Adventist World Radio**

1700-1800	Swah/Masai	11915
1800-1830	English	3215 3345 11925
1900-1930	Fulfulde	15140
1930-2000	Ibo	11885
1930-2000	Hausa	11750
2000-2030	French	9805
2000-2030	English	9655
2000-2100	Fr/Yoruba	11845

**BBC**

0300-0330	Swahili	9610
0300-0700	English	11765
0400-0430	Swahili	15400
0430-0500	Portuguese	3390 6135 7205
0530-0600	Kirundi Sa/Su	15400
0700-0730	French	17695
1500-1700	En/Swahili	21490
1700-1900	English	15420
1730-1745	En-teaching	3390 9620
1730-1800	En/Swahili	7230
1800-1830	French	7230
2030-2100	Portuguese	3390 6135 7260

**BBC World Service**

0300-0500	English	3255 6190
0500-1700	English	6190 11940
1700-2200	English	3255 6190

**Channel Africa**

0300-0400	Swahili	6120
0300-0400	English	7390
0300-0500	English	3345
0400-0500	French	7390
0500-0600	English	7240 11875
0600-0700	English	7240 15255
0700-1600	En/Loz/Nya	11825
1500-1600	English	17770 17780
1600-1700	French	15285
1700-1800	English	15285
1900-2200	Po/English	3345

**China Radio International**

1500-1900	En/Chinese	6100
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**Christian Voice**

0515-1545	English	9555
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**Family Radio**

1900-2100	English	3230
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**FEBA Radio**

1500-1545	Nuer/Dinka	12125
1545-1600	Makonde	12125
1600-1700	Amharic	12125

**Hirondelle Foundation**

0400-0600	French/Var	11690
1600-1700	French/Var	11890

**Radio France International**

0300-0400	French	7135
0700-0800	French	15170
1100-1200	French	17850
1200-1400	French	17850
1230-1300	French	21760
1600-1700	English	9730 15160
1900-2200	French	7160

**Radio Sonder Grense**

0000-0500	Afrikaans	3320
0500-0700	Afrikaans	7185
0700-1700	Afrikaans	9650
1700-2400	Afrikaans	3320

**SA Radio League**

0800-0900	English	7205 17700 Su
1900-2000	English	3215 Mo

**Trans World Radio**

0330-0345	Amha/Sidamo	7215 Mo-Sa
0330-0357	Oromo	7215 Su
0600-0615	English	11640 Sa/Su
0600-0645	English	11640
1600-1630	Kirundi	9675
1625-1655	Somali	9660
1645-1800	Amha/Oromo	9930
1657-1712	Juba	9660 Tu-Sa
1657-1727	Juba	9660 Su-Mo
1703-1733	Sena/Yao	7265 Mo/We/Th/Sa
1703-1748	Sena/Yao	7265 Tu/Fr/Su
1755-1825	Pulaar/Fr	9620
1810-1940	Various	9720
1830-1915	Hausa/Kanuri	9745
1830-1930	Fulfulde/Yor	9510 We-Fr
1830-1945	Various	9510 Mo-Tu
1830-2000	Various	9510 Sa
1830-2015	Various	9510 Su

**United Nations Radio**

1700-1715	French	7170 21535 Mo-Fr
1730-1745	English	7170 Mo-Fr

(Kathy Otto, Sentech/Gupta-INDIA)

**SWEDEN Radio Sweden** English Schedule B05:

0130-0200	11550-Madagascar
0230-0300	6010-Sackville
0330-0400	6010-Sackville
1330-1400	7420 11550 15240
1430-1500	11550 15240-Sackville

1730-1800 [freq missing] Mo-Fr  
 1830-1900 6065 Mo-Sa  
 2030-2100 6065 7420-Madagascar  
 2230-2300 6065  
 (Wood-SWEDEN via MediaScan/Sweden Calling DXers  
 blog/Gupta-INDIA)

**TURKEY Voice Of Turkey B05:**

0200-0300 Uzbek 7115  
 0400-0500 English 7240 6020  
 0500-0800 Turkish 17690  
 0500-1000 Turkish 11925  
 0800-0900 Georgian 9840  
 0800-0930 Azerbaijani 15160 11835  
 0800-1700 Turkish 11955 15350  
 0900-1000 Macedonian 11895  
 0930-1030 Persian 11795 17690  
 1000-1200 Arabic 13690 13750  
 1000-1300 Turkish 17720  
 1030-1130 Hungarian 13770  
 1030-1130 Rumanian 9560  
 1100-1600 Turkish 17860 Fr  
 1130-1230 Greek 7295 9840  
 1200-1300 Chinese 12050  
 1230-1330 Albanian 11910  
 1230-1330 German 17700  
 1300-1400 Urdu 15225  
 1300-1700 Turkish 9625  
 1330-1430 English 15155 11735  
 1330-1500 Persian 11705  
 1400-1500 Russian 11980  
 1430-1500 Serbian 9510  
 1430-1530 Bulgarian 7105  
 1500-1600 Azerbaijani 5965  
 1500-1700 Arabic 6120 15195  
 1530-1630 Greek 6185  
 1600-1700 Tatar 5980  
 1600-1700 Kazakh 7295  
 1630-1730 Turkmen 5965  
 1700-1730 Croatian 7155  
 1700-1800 Kyrgyz 6095  
 1700-2200 Turkish 5980  
 1700-2300 Turkish 9560 6120  
 1730-1800 Spanish 9780  
 1800-1900 Russian 6135  
 1800-1900 Uzbek 5955  
 1800-2300 Turkish 9840  
 1830-1930 German 7205  
 1900-2000 Bosnian 6110  
 1930-2030 English 6055  
 2030-2130 French 6050 7155  
 2130-2230 English 9525  
 2200-0800 Turkish 7300  
 2300-2400 English 5960

\* Fridays only.

(Via Sedef Somalitin/Kiyemet Erdal, TRT/Gupta-INDIA)

**UKRAINE Radio Ukraine International B05:**

0000-0100 Ukrainian 5910

0000-0100 German 5840  
 0100-0200 English 5910  
 0100-0200 Ukrainian 5830  
 0200-0400 Ukrainian 5830 5910  
 0400-0500 English 5910  
 0400-0600 Ukrainian 5830  
 0600-0900 Ukrainian 7420  
 0900-1200 Ukrainian 9925  
 1200-1300 English 9925  
 1300-1400 Ukrainian 9925  
 1400-1800 Ukrainian 5830  
 1800-1900 German 5840  
 1900-2100 Ukrainian 5840  
 2100-2200 German 5840  
 2200-2300 English 5840  
 2300-2400 Ukrainian 5840

(Alexander Yegorov-UKRAINE/Gupta-INDIA)

**UNITED KINGDOM VT (Merlin) all broadcasts B05**

**ABC**

0000-0030 Indonesian 6120-Si  
 0400-0430 Indonesian 21780-Dh  
 0500-0530 Khmer 15470-Si  
 0530-0600 Vietnamese 15470-Si  
 0900-0930 Indonesian 11550-Ta  
 1300-1430 Mandarin 12010-Si  
 1430-1500 English 9750-Ra Sa  
 2130-2330 Indonesian 9690-Ta  
 2300-2330 Khmer 9730-Si  
 2330-2400 Vietnamese 15110-Ta

**AWR**

0100-0200 Vietnamese 15445-Ta Sa  
 0300-0330 Tigrinya 9760-Dh  
 0300-0330 Russian 9655-Dh  
 0300-0330 Orominya 9550-Dh  
 0330-0400 Amharic 9760-Dh  
 1200-1230 English 15110-Dh  
 1230-1300 Bangla 15110-Dh  
 1300-1330 Uyghur 11720-Dh Sa/Su  
 1300-1500 Mandarin 11720-Dh Mo-Fr  
 1330-1400 Russian 9530-Dh  
 1330-1500 Mandarin 11720-Dh Sa/Su  
 1400-1500 Vietnamese 11695-Ta  
 1500-1530 Punjabi 11695-Dh  
 1500-1530 Nepali 9530-Dh  
 1530-1600 Hindi 11695-Dh  
 1530-1600 English 9530-Dh  
 1630-1700 Somali 17595-Dh  
 1730-1800 Orominya 6180-Dh

**BBC**

0000-0030 English 3915-Si 5955-Si 5970-Aa  
 5975-Ms 6195-Si 9410-Cy  
 9740-Si 11945-Ya 11955-  
 Na 15280-Na 15310-Na  
 15360-Si 17615-Na 17790-  
 Si  
 0000-0030 Bengali 6065-Na 9575-Si 11850-Si  
 0000-0100 Spanish 6110-As 6110-Ms 6175-Ra  
 6175-Sk 9525-As 11765-As

0030-0100	Dari	5875-Cy 7165-Cy	0400-0445	Arabic	6110-Sk 7140-Sk 7325-Ra
0030-0100	Bengali	6065-Aa 9790-Na 11850-Si			9915-Cy 15180-Aa
0030-0100	English	5955-Si 5970-Aa 5975-Ms 6195-Si 9410-Cy 9575-Si 9740-Si 11955-Na 15280- Na 15310-Na 15360-Si 17615-Na 17790-Si	0400-0500	English	3255-Me 5955-Si 6005-As 6190-Me 6195-Sk 7130-Cy 7160-As 11760-Cy 11765- Me 12035-Cy 15280-Na 15310-Aa 15360-Na 15420- Se 15575-Aa 17760-Na 17790-Na 21660-Na
0100-0130	Hindi	6065-Aa 7110-Ts 11750-Si 15510-Na			
0100-0130	Pashto	5875-Cy 7165-Cy 17615-Na	0400-0500	Russian	5875-Ra 5875-Ra 7230-Cy
0100-0200	English	5955-Si 6195-Si 9410-Cy 11955-Aa 15280-Na 15310- Na 15360-Si 17790-Si	0430-0500	French	7245-Ra 9670-Cy Mo-Fr
0130-0200	Urdu	6065-Aa 7320-Cy 11750-Si 15510-Na	0430-0500	Portuguese	6155-As 7105-As 17885-Se 3390-Me 6135-Me 7205-Me
0130-0200	Dari	5875-Cy 7165-Cy 17615-Na	0445-0600	Arabic	6110-Sk 7140-Cy 7325-Ra 9915-Cy 9915-Ra 15180-Aa
0200-0230	Pashto	5875-Cy 7165-Cy 17615-Na	0500-0530	English	17885-Se Sa/Su
0200-0245	English	5955-Si 5975-Ms 9750-Se 11955-Aa 15280-Na 15310- Na 15360- Si 17790-Si	0500-0530	English	5955-Si 6005-As 6190-Me 6195-Ra 6195-Sk 7160-As 9410-Cy 9410-Sk 9410-Wo 11760-Cy 11765-Me 11940- Me 11955-Na 12095-Cy 15280-Na 15310-Aa 15360- Si 15420-Se 15575-Aa 17640-Cy 17790-Na 17760- Si 21660-Na
0200-0300	English	6195-Cy 9825-Sk 12095-As Su	0500-0530	Turkish	6010-Sk 7130-Ra Mo-Fr
0200-0300	Arabic	6105-Cy 6105-Ra 7140-Sk	0500-0600	Russian	6020-Ra 7245-Ra 9670-Wo 11845-Cy Mo-Fr
0200-0300	English	6195-Cy 9825-Sk 12095-As Mo-Sa	0500-0600	Ukrainian	5875-Ra 7260-Sk 9895-Cy Mo-Fr
0230-0300	Dari	5875-Cy 7320-Cy 9510-Ra	0500-0600	English	17885-Se Mo-Fr
0230-0300	Hindi	11760-Aa 15405-Na 15510- Ir 17615-Na	0530-0545	English	5955-Si 6005-As 6190-Me 6195-Ra 6195-Sk 7130-Ra 7160-As 9410-Cy 9410-Sk 9410-Wo 11760-Cy 11765- Me 11940-Me 11955-Na 12095-Cy 15310-Aa 15360- Si 15420-Se 15575-Aa 17640-Cy 17760-Si 17790- Na 21660-Na
0230-0300	Farsi	6005-Ra 7165-Cy 11855-Aa	0530-0545	English	6010-Sk Sa/Su
0245-0300	English	5955-Si 5975-Ms 9750-Se 11865-Se 11955-Aa 15280- Na 15310-Na 15360-Si 17790-Si	0530-0545	English	6010-Sk Mo-Fr
0300-0330	Arabic	7140-Sk 9915-Cy	0530-0600	Krwnda/ Kruundi	7105-As 9610-As
0300-0330	Russian	5965-Ra 7265-Cy 9670-Cy			
0300-0330	Pashto	5875-Cy 7320-Cy 9510-Ra			
0300-0330	English	6195-Cy 11760-Aa Su			
0300-0330	Farsi	6005-Ra 7165-Cy 11855-Aa			
0300-0330	English	3255-Me 5955-Si 5975-De 6005-As 6190-Me 7160-As 9750-Cy 11765-Me 12035- Se 15280-Na 15310-Aa 15360-Na 17760-Na 17790- Na 21660-Na	0530-0545	English	6010-Sk Sa/Su
0300-0330	Swahili	7235-Ra 9610-Me 11865-Se	0530-0545	English	6010-Sk Mo-Fr
0300-0400	English	6195-Cy 11760-AA Mo-Sa	0530-0600	Hausa	7105-As 9610-As
0300-0400	Spanish	5995-De 6110-Ms 7325-Ra 7325-Sk 9515-De	0530-0600	Krwnda/ Kruundi	
0330-0400	English	3255-Me 5955-Si 5975-De 6005-As 6190-Me 7160-As 9750-Cy 11765-Me 12035- Se 15280-Na 15310-Aa 15360-Na 15420-Se 17760- Na 17790-Na 21660-Na	0530-0630	Hausa	6135-As Sa
0330-0400	English	6195-Cy 11760-Aa Su	0545-0600	English	5955-Si 6005-As 6190-Me 6195-Ra 6195-Sk 7160-As 9410-Cy 9410-Sk 9410-Wo 11760-Cy 11765-Me 11940- Me 11955-Na 12095-Cy 15310-Aa 15360-Si 15420- Se 15575-Aa 17640-Cy 17760-Si 17790-Na 21660- Na
0330-0400	Arabic	7140-Sk 9915-Cy 15180-Aa			
0330-0400	Farsi	6005-Ra 7165-Cy 11855-Cy			
0400-0430	Swahili	7185-As 11730-Se 15400- Me	0600-0615	Romanian	5875-Ra
0400-0430	Farsi	6005-Ra 7165-Cy 11855-Cy	0600-0630	French	7105-As 7180-Sk 9610-As 11680-Cy

0600-0700	English	5955-Si 6005-As 6190-Me 6195-Ra 6195-Sk 7160-Sk 9410-Sk 11765-Me 11940- Me 11955-Na 12095-Wo 15310-Na 15360-Si 15565- Cy 17640-Cy 17760-Si 17790-Na 21660-Na	0830-0900	Dari	15420-Aa 17870-Cy
			0900-0930	Pashto	15420-Aa 17870-Cy
			0900-1000	English	5955-Si 6190-Me 7320-Ra 9470-Kv 9740-Si 11760-Aa 11940-Me 15280-Na 15310-Na 15485-Sk 17640- Sk 17760-Si 17790-Aa 21470-Se 21660-Na
0600-0730	English	15575-Cy Mo-Fr			
0600-0730	Arabic	6110-Sk 7140-Cy 7325-Ra 9915-Ra 11820-Cy 13660- Cy 15180-Cy	0900-1000	Turkish	7120-Cy 9410-Cy Su
			0900-1030	English	6195-Na Su
0600-0800	Albanian	9775-Cy 11775-Cy Mo-Fr	0900-1030	English	9605-Ya Sa
0600-1400	English	15575-Cy 17885-Se Sa/Su	0900-1100	English	6195-Si Su-Fr
0600-1500	English	15575-Cy Sa/Su	0900-1100	English	6195-Na Mo-Fr
0615-0630	Romanian	5875-Ra Sa/Su	0900-1100	English	6195-Si Su-Fr
0630-0645	English	5875-Ra Sa/Su	0900-1100	Arabic	7140-Cy 11820-Cy 13660- Cy 15180-Ra 15555-Cy 17610-Sk
0630-0700	Albanian	9775-Cy 11775-Cy Sa/Su			
0630-0700	English	15400-As Su-Fr	0900-1500	English	15575-Cy Mo-Fr
0700-0721	English	5955-Si 6005-As 6190-Me 6195-Ra 9410-Sk 11760-Aa 11765-As 11940-Me 11955- Na 12095-Wo 15310-Na 15360-Si 15485-Sk 15565- Cy 17640-Sk 17760-Si 17790-Aa 17830-Ra 21660- Na	0930-1000	Dari	15420-Aa 17870-Cy
			0930-1000	Burmese	9760-Na 12045-Si 15545-Si Su
			0930-1030	Farsi	21515-Sk
			0930-1030	Farsi	12030-Dh Sa-Th
			0930-1130	Farsi	12030-Dh Fr
			1000-1015	Albanian	11695-Cy 15320-Ra 17745- Ra Mo-Fr
0700-0730	French	15105-As 17695-Me	1000-1030	Dari	15420-Aa 17870-Cy
0700-1000	English	15400-As Mo-Fr	1000-1030	English	5955-Si 6190-Me 6195-Ms 7320-Ra 9470-Kv 9740-Si 11760-Aa 11940-Me 11945-Na 15280-Na 15310- Na 15485-Sk 17640-Sk 17790-Aa 21470-Se 21660- Na
0700-1130	English	15400-As Sa/Su	1030-1100	English	5955-Si 6190-Me 6195-Ms 7320-Ra 9470-Kv 9605-Ya 9740-Si 11750-Na 11760- Aa 11940-Me 11945-Na 15285-Si 15310-Na 15485- Sk 15545-Na 17640-Sk 17790-Aa 21470-Se
0721-0730	English	5955-Si 6190-Me 6195-Ra 9410-Sk 11760-Aa 11765- As 11940-Me 11955-Na 12095-Wo 15310-Na 15360-Si 15485-Sk 15565- Cy 17640-Sk 17760-Si 17790-Aa 17830-Ra 21660- Na			
0730-0800	English	5955-Si 6190-Me 6195-Ra 7320-Ra 9410-Sk 9470-Kv 11760-Aa 11765-As 11940- Me 11955-Na 12095-Wo 15310-Na 15360-Si 15485- Sk 15565-Cy 17640-Sk 17760-Si 17790-Aa 17830- Ra 21660-Na	1030-1100	Pashto	15420-Aa 17870-Cy
			1030-1130	Farsi	21515-Sk Fr
			1100-1130	English	11855-Ms 15400-As Mo-Fr
0730-0800	Arabic	7140-Cy 11680-Ra 11820- Cy 13660-Cy 15180-Cy 17610-Sk	1100-1130	Pashto	15420-Aa 17870-Cy
			1100-1130	Somali	17850-Cy 21595-Cy
			1100-1130	English	5955-Si 6195-Si 7320-Ra 9470-Kv 9740-Si 11760-Aa 11945-Na 15310-Na 15485- Sk 17640-Sk 17790-Aa 21470-Se
0800-0900	English	5955-Si 6190-Me 7320-Ra 9470-Kv 9740-Si 11760-Aa 11940-Me 15280-Na 15310-Na 15485-Sk 17640- Sk 17760-Si 17790-Aa 21470-Se 21660-Na	1100-1130	Indonesian	7135-Si 9510-Na 11920-Si
			1100-1200	Arabic	7140-Cy 11820-Cy 13660- Cy 15180-Ra 15555-Cy 17585-Sk
0800-0900	Arabic	7140-Cy 11680-Ra 11820- Cy 13660-Cy 15180-Cy 17610-Sk	1100-1300	English	11855-Ms Sa/Su
			1100-1300	Mandarin	11750-Na 15545-Na
0800-1000	English	17830-As Mo-Fr	1100-1530	Mandarin	7330-VI 9605-Ya 15285-Si
0800-1100	English	6195-Na 6195-Si Sa	1100-2100	English	17830-As Mo-Fr
0800-1400	English	17885-Se Mo-Fr			
0800-2100	English	17830-As Sa/Su			

1130-1145	English	5955-Si 6190-Me 6195-Si 7135-Si 7320-Ra 9470-Kv 9510-Na 9740-Si 11760-Aa 11940-Me 11945-Na 15310-Na 15485-Sk 17640- Sk 17790-Aa 21470-Se 11855-Ms Mo-Fr	1345-1400	English	5955-Si 6190-Me 6195-Si 7320-Ra 9470-Kv 9740-Si 11940-Me 11945-Na 15190-Ms 15310-Na 15420- Se 15485-Sk 17640-Sk 17790-Aa 21470-As
1130-1300	English	5955-Si 6190-Me 6195-Si 7320-Ra 9470-Kv 9740-Si 11760-Aa 11940-Me 11945-Na 15310-Na 15485- Sk 17640-Sk 17790-Aa 21470-Se	1345-1415	Hausa	15105-As 17810-As 21640- As
1145-1200	English	5955-Si 6190-Me 6195-Si 7320-Ra 9470-Kv 9605-Ok 9740-Si 11760-Aa 11940- Me 11945-Na 15190-Bo 15310-Na 15485-Sk 17640- Sk 17790-Aa 21470-Se 15425-Ra 17780-As 21640- As	1345-1430	Burmese	7135-Si 9540-Si 11685-Si 15195-Ra
1200-1230	English	5955-Si 6190-Me 6195-Si 7320-Ra 9470-Kv 9605-Ok 9740-Si 11760-Aa 11940- Me 11945-Na 15190-Bo 15310-Na 15485-Sk 17640- Sk 17790-Aa 21470-Se	1400-1445	Hindi	7430-Ts 11920-Si We-Mo
1200-1230	French	15425-Ra 17780-As 21640- As	1400-1445	Hindi	6140-Aa 7205-Na 15245- Aa Mo/We-Sa
1200-1230	Romanian	11680-Cy	1400-1500	Dari	6195-Sk 13755-Na 17870- Cy
1200-1600	Arabic	7140-Cy 11820-Cy 13660- Sk 15180-Ra 15555-Cy 17585-Sk	1400-1500	English	15575-Cy Sa/Su
1230-1245	English	5955-Si 6190-Me 6195-Si 7320-Ra 9470-Kv 9605-Ok 9740-Si 11760-Aa 11940- Me 11945-Na 15190-Bo 15310-Na 15425-Ra 15485- Sk 17640-Sk 17780-As 17790-Aa 21470-Se 21640- As	1400-1500	English	12095-Wo Sa
1235-1300	Thai	7135-Si 9540-Si	1400-1500	English	5955-Si 5970-Na 6190-Me 6195-Si 7320-Ra 9470-Kv 9740-Si 11940-Me 15310- Na 15485-Sk 15565-Ra 17640-Sk 17640-Wo 17790-Aa 21470-As 21660- Cy
1245-1300	English	5955-Si 6190-Me 6195-Si 7320-Ra 9470-Kv 9605-Ok 9740-Si 11760-Aa 11940- Me 11945-Na 15190-Bo 15310-Na 15485-Sk 17640- Sk 17790-Aa 21470-Se	1400-1500	Somali	11860-Se 15420-Se 17850- Cy
1300-1330	Indonesian	6030-Aa 6035-Na 7135-Si 9540-Si 11835-Si	1400-1500	Hindi	6140-Aa 7205-Na 15245- Aa Su
1300-1330	Kazakh	11920-Cy 17690-Ra Mo-Fr	1415-1445	Albanian	9685-Cy 15500-Sk Mo-Sa
1300-1330	English	5955-Si 6190-Me 6195-Si 7320-Ra 9470-Kv 9740-Si 11760-Aa 11940-Me 11945-Na 15190-Ms 15310- Na 15420-Se 15485-Sk 17640-Sk 17790-Aa 21470- As	1430-1500	Vietnamese	6135-Si 7135-Si 11685-Si
1300-1530	Mandarin	6090-Kj 7105-Na	1445-1500	English	6140-Aa 7205-Na 15245- Aa Mo/We-Sa
1330-1345	English	5955-Si 6190-Me 6195-Si 7320-Ra 9470-Kv 9740-Si 11760-Aa 11940-Me 11945-Na 15105-As 15190- Ms 15310-Na 15420-Se 15485-Sk 17640-Sk 17790- Aa 21470-As 21640-As	1500-1530	Nepali	7430-Ts 9600-Si 11685-Si
1330-1400	Bengali	7225-Na 7430-Ts 11835-Si	1500-1530	Ukrainian	7295-Cy 9815-Cy 11865-Ra Sa/Su
1330-1445	Albanian	9685-Cy 15500-Sk Su	1500-1530	English	5875-Ra 5955-Si 5970-Na 5975-Si 6190-Me 6195-Si 7465-Kv 9740-Si 11860-Se 11940-Me 12095-Wo 15310-Na 15400-As 15420- Se 15485-Sk 15565-Ra 17640-Wo 17790-Aa 21470-As 21490-Me 21660- Cy
			1500-1530	Tajik	7270-Cy 11930-Ra
			1500-1545	Urdu	6035-Aa 7205-Na 9510-Cy 11920-Si
			1500-1600	Pashto	6195-Sk 9915-Cy 13755-Na
			1515-1545	Sinhala	6140-Aa 9540-Si
			1530-1545	English	5875-Ra 5955-Si 5970-Na 5975-Si 6190-Me 6195-Si 7465-Kv 9600-Si 9740-Si 11685-Si 11940-Me 12095- Wo 15310-Na 15400-As 15485-Sk 15565-Ra 17640- Wo 17790-Aa 21470-As 21660-Cy
			1530-1615	Swahili	11860-Se 15420-Se 21490- Me Sa/Su
			1530-1630	Swahili	11860-Se 15420-Se 21490- Me Mo-Fr

1545-1600	Urdu	6035-Aa 9510-Cy 11920-Si	1730-1746	English	3255-Me 3390-Me 3915-Si
1545-1600	English	5875-Ra 5955-Si 5970-Na 5975-Si 6190-Me 6195-Si 7465-Kv 9740-Si 11940-Me 12095-Wo 15310-Na 15400-As 15485-Sk 15565- Ra 17640-Wo 17790-Aa 21470-As 21660-Cy			5875-Ra 5955-Si 5975-Na 6005-Se 6190-Me 6195-Ra 7160-Si 7230-Me 7465-Kv 9410-Cy 9410-Wo 9620-Me 9630-Se 9740-Si 12095-Wo 15310-Na 15400-As 15420- Me 17820-Sk 21470-As
1545-1615	Tamil	6140-Aa 7205-Na 9540-Si	1730-1800	Urdu	6060-Aa 7205-Si 7235-Na 9605-Na
1600-1615	Dari	9915-Cy 11785-Na			
1600-1630	Romanian	6050-Cy	1730-1800	Ukrainian	6020-Cy 6050-Sk 7195-Ra Mo-Fr
1600-1630	Arabic	7140-Cy 11820-Cy 13660- Sk 15180-Ra 15555-Cy 17585-Sk	1730-1900	Russian	7325-Cy 9635-Cy 9825-Ra 9825-Wo 11670-Ra
1600-1630	Uzbek	7325-Cy 7435-Mo 9615-Si 9635-Aa Sa/Su	1746-1800	English	3255-Me 3915-Si 5875-Ra 5955-Si 5975-Na 6190-Me 6195-Ra 7160-Si 7465-Kv 9410-Cy 9410-Wo 9740-Si 12095-Wo 15310-Na 15400-As 15420-Me 17820- Sk 21470-As
1600-1700	Farsi	6090-Aa 6195-Sk 7185-Cy 9510-Ra			
1600-1700	Turkish	6130-Ra 7275-Sk 9575-Wo			
1600-1700	Uzbek	7325-Cy 7435-Mo 9615-Si 9535-Aa Mo-Fr	1746-1800	Swahili	6005-Se 7230-Me 9630-Se
1600-1700	English	3915-Si 5875-Ra 5955-Si 5975-Na 6190-Me 6195-Si 7160-Si 7465-Kv 9410-Cy 9740-Si 11940-Me 12095- Wo 15310-Na 15400-As 15485-Sk 15565-Ra 17820- Ra 21470-As 21660-Cy	1800-1830	Albanian	7105-Sk Tu-Su
1615-1630	Pashto	11785-Na	1800-1830	French	7230-Me 9610-Ra 15105-As 17885-As 21630-As
1615-1700	Pashto	9915-Cy	1800-1830	Azeri	6180-Cy 7165-Ra 9565-Ra
1615-1700	English	11860-Se 15420-Se 21490- Me Sa/Su	1800-1830	Albanian	6050-Cy 6130-Sk
1630-1700	Krwanda/ Kruundi	11860-Se 21490-Me Mo-Fr	1800-1830	English	3255-Me 5875-Ra 5955-Si 5975-Na 6190-Me 6195-Cy 6195-Ra 7465-Kv 9410-Cy 9410-Wo 9510-Na 9740-Si 12095-Wo 13700-Sk 15400-As 15420-Me 21470- As
1630-1700	Russian	7435-Mo Sa/Su	1800-1830	Somali	6005-Se 9630-Se 9695-Wo
1630-1700	Arabic	6030-Aa 6110-Sk 7140-Cy 11820-Cy 13660-Sk 15180- Ra 15555-Cy	1800-2000	Arabic	6030-Aa 6110-Sk 7140-Cy 9915-Cy 11680-Sk 6090-Aa 7195-Cy
1630-1700	Pashto	11785-Na	1800-2000	Farsi	6050-Cy 6130-Sk Mo/We
1630-1700	Bengali	6145-Na 7205-Si 9605-Si	1830-1845	English	7105-Sk We
1630-1700	English	15420-Se Mo-Fr	1830-1845	English	3255-Me 5875-Ra 5955-Si 5975-Na 6005-Se 6190-Me 6195-Cy 6195-Ra 7465-Kv 9410-Cy 9410-Wo 9510-Na 9630-Se 9740-Na 12095- Wo 13700-Sk 15400-As 15420-Me 21470-As
1700-1730	English	3255-Me 3915-Si 5875-Ra 5955-Si 5975-Na 6005-Se 6190-Me 6195-Ra 7160-Si 7465-Kv 9410-Cy 9410-Wo 9630-Se 9740-Si 12095-Wo 15310-Na 15400-As 15420- Me 17820-Sk 21470-As	1900-1915	English	3255-Me 5875-Ra 5955-Si 5975-Na 6005-Se 6190-Me 6195-Cy 6195-Ra 7465-Kv 9410-Cy 9510-Na 9630-Se 9740-Na 12095-As 13700- Sk 15400-As
1700-1730	Hindi	6060-Aa 7205-Si 7235-Na 9605-Na	1900-1930	Romanian	6050-Ra
1700-1800	Farsi	6090-Aa 7185-Cy 9510-Ra	1900-2000	Russian	5875-Cy 5990-Ra 7325-Cy 9635-Cy 9825-Wo
1700-1800	Arabic	6030-Aa 6110-Sk 7140-Cy 9915-Cy 11680-Cy 11820- Cy 13660-Sk	1915-1930	English	3255-Me 5875-Ra 5955-Si 5975-Na 6005-Se 6190-Me 6195-Cy 6195-Ra 7465-Kv 9410-Cy 9510-Na 9630-Se 9740-Na 12095-As 13700- Sk 15105-As 15400-As 17885-As
1700-1800	Ukrainian	6020-Cy 6050-Sk 7195-Ra Sa/Su			

1930-2000	Hausa	11855-As 15105-As	1500-1800	English	6100-Me
1930-2000	English	3255-Me 5955-Si 5975-Na 6005-Se 6190-Me 6195-Cy 6195-Ra 9410-Cy 9510-Na 9630-Se 9740-Na 12095-As 13700-Sk 15400-As	1800-1900	Chinese	6100-Me
			2100-2200	Portuguese	17645-St
<b>FEBA</b>					
2000-2030	Russian	5875-Cy 5990-Ra 7325-Cy 9635-Cy 9825-Wo Mo-Fr	0030-0100	Bangla	7265-Ts
2000-2100	Russian	5875-Cy 5990-Ra 7325-Cy 9635-Cy 9825-Wo Sa	0030-0200	Tamil	5885-Ye
2000-2100	English	3255-Me 5955-Si 6005-Se 6190-Me 6195-Cy 9410-Cy 9630-Se 12095-As 15400-As	0100-0145	Hindi	7370-No
			0200-0300	Dari	6125-Dh
2000-2100	Ukrainian	6000-Cy 6050-Sk 7230-Ra Mo-Fr	0200-0300	Urdu	9450-No
2000-2100	Arabic	6030-Aa 6110-Ra 6110-Sk 7140-Cy 9915-Cy	0200-0300	Dari	7370-Sm
2030-2100	Portuguese	3390-Me 6135-Me 7170-Ra 7260-Me 9565-Sk 11855-As	0215-0300	Sindhi	5985-Dh
2030-2100	Turkish	5875-Ra 7285-Sk Mo-Fr	0400-0530	Arabic	11655-Sm
2100-2130	English	11675-Ms 15390-Gr Mo-Fr	0445-0500	Baluchi	6125-Dh Fr
2100-2200	Arabic	5875-Ra 6030-Aa 6030-Cy 6110-Ra 6110-Sk 7140-Cy 9915-Cy	0500-0700	Sinhala	6125-Dh Fr
2100-2200	English	11675-Ms Sa/Su	0700-0830	Persian	9660-Dh Fr
2100-2200	English	3255-Me 3915-Si 5955-Si 5965-Na 6005-Se 6110-Ya 6190-Me 6195-Cy 6195-Na 9410-Cy 9605-Se 15400-As	1200-1230	Tibetan	15205-Dh
2130-2145	English	11680-Ra Tu/Fr	1300-1400	Punjabi	11675-Dh
2130-2200	English	11675-Ms Mo-Fr	1400-1500	Telegu	12045-Dh
2200-2300	Arabic	5875-Ra 5875-Sk 6030-Cy 7140-Cy 9915-Cy	1400-1515	Urdu	7370-No
2200-2300	Indonesian	3915-Si 6080-Si 7235-Si 9510-Na	1500-1545	English	7340-Ir
2200-2300	English	5955-Si 5955-Si 5965-Na 5975-Ms 6195-Si 7105-Aa 9740-Si 15400-As	1600-1630	Afar	11750-Ki
2200-2300	Mandarin	6110-Na 11945-Ya	1630-1700	Amharic	9565-Dh
2200-2330	Mandarin	6170-Kj 7150-Aa 7160-Na 9580-Na	1630-1745	Persian	7345-Mo
2215-2245	Greek	6180-Cy 7210-Cy 9760-Cy Fr-Su	1700-1730	Orominya	6180-Dh
2300-2330	English	3915-Si 5965-Na 5975-Ms 6195-Si 9605-Na 9740-Si 11945-Ya 11955-Na	1700-1757	Somali	9885-Ki
2300-2400	Vietnamese	6080-Na 7105-Aa 11685-Si	1830-1900	French	15130-As
2330-2400	English	3915-Si 5965-Na 5975-Ms 6170-Kj 6195-Si 9605-Na 9740-Si 11945-Ya 11955-Na	1902-2030	Arabic	9550-Ki
2330-2400	Thai	6060-Si 9575-Si	2145-2215	Wolof	11985-As Th/Fr
<i>[I realize the English broadcasts have all been lumped together...sorry!-AQ]</i>					
<b>CRI</b>					
0000-0100	Spanish	9745-Bo			
1100-1200	Portuguese	15540-St			
1200-1300	Chinese	15540-St			
1300-1400	English	15540-St			
<b>HCFB</b>					
			1700-1730	Russian	9805-Ra
			2100-2230	Arabic	12025-Sm
<b>KBS</b>					
			0700-0800	Korean	9535-Sk
			1430-1500	English	9750-Ra Fr
			1800-1900	Russian	7235-Ra
			1900-2000	Arabic	7180-Ra
			2000-2100	German	3955-Sk
			2000-2100	French	5955-Sk
			2100-2130	English	3955-Sk
<b>LRC</b>					
			0000-2400	W	9290
<b>MNO</b>					
			0000-0130	Non-Specific	6145-Dh
			0015-0030	Hindi	6020-DhSu-Fr
			0015-0030	Hindi	6020-Dh Sa
			0030-0045	Telegu	6020-Dh Sa
			0030-0045	Bengali	6040-Dh
			0030-0100	English	6010-Dh Sa/Su
			0030-0100	English	6010-Dh Mo-Fr
			1230-1330	Non-Specific	15515-Dh
			1400-1500	Non-Specific	15215-Dh
			1400-1500	English	9750-Ra Su
			1400-1500	English	9750-Ra We
			1500-1530	Vietnamese	7380-Ta
			1500-1600	English	9750-Ra Fr
			1600-1630	Non-Specific	7105-Dh
			1900-1930	French	7260-Wo Th

1900-2000	French	3955-Sk	1800-1830	Non-Specific	12035-Dh Mo-Fr
1900-2000	German	6170-Sk	1830-1845	Non-Specific	12035-Dh Su
2300-2400	Non-Specific	6040-Dh			

### NHK

0100-0200	English	11860-Si 6030-Ra
0200-0300	Japanese	11860-Si
0330-0400	Swahili	6135-As
0500-0600	English	5975-Ra
0500-0700	English	7230-Wo
0600-0700	English	11740-Si
0700-0730	Arabic	15220-As
0700-1000	Japanese	11740-Si 11920-Si
0800-1000	Japanese	17720-Dh 17650-As

1000-1100	English	17585-Dh 17720-Dh
1030-1100	Burmese	11740-Si
1100-1130	German	9660-Sk 11710-Sk
1130-1200	Thai	11740-Si
1130-1200	Russian	11710-Sk
1200-1215	Arabic	17560-Ra
1200-1230	Chinese	11740-Si
1230-1300	French	15400-As
1230-1300	Vietnamese	11740-Si
1230-1330	French	17870-As
1500-1600	Japanese	21630-As
1500-1700	Japanese	12045-Si 21630-As
1600-1700	English	9750-Ra Fr
1700-1800	Japanese	9750-Ra 12045-Si
1700-1900	Japanese	9575-Dh 6175-Sk
1900-2000	Japanese	6035-Si
2000-2100	Japanese	6035-Si
2100-2200	English	6090-Sk 6180-Sk
		11855-As 6035-Si
2200-2300	Japanese	15220-As 7115-Dh
		6115-Sk

### RAI

0130-0230	Italian	11765-As
0130-0230	Italian	6110-As
1000-1100	Italian	11920-Si
1700-1800	Italian	15320-As

### RFI

0400-0500	French	7270-As
0400-0600	French	15210-Dh
0600-0630	English	9865-As
0600-0657	French	17770-Ki
0630-0700	French	9865-As
1200-1230	English	15275-As
1400-1430	English	9750-Ra Fr
1600-1630	Pashto	7170-Dh
1600-1630	Pashto	6010-Du
1800-1900	Pashto	6015-Dh
1800-1900	Pashto	5995-Ts

### RNZI

1400-1430	English	9750-Ra Sa
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### TWR

1300-1315	Afar	13745-Ki Fr/Sa
1800-1830	Non-Specific	12035-Dh Sa/Su

### UN Radio

1700-1715	Non-Specific	9565-Sk 21535-Me
		7170-Me Mo-Fr
1730-1745	Non-Specific	9565-Sk 17810-As
		7170-Me Mo-Fr
1830-1845	Non-Specific	7260-Ra Mo-Fr

### WYFR

0500-0600	German	3955-Sk
1400-1500	Hindi	15520-Dh
1500-1600	English	15520-Dh
1600-1700	English	12010-Dh
1700-1800	English	21680-As
1700-1800	English	3955-Sk
1700-1800	Arabic	9530-Ra
1800-1900	Arabic	9660-Sk
1800-1900	English	7240-Ra
1900-2000	Arabic	5965-Ra
1900-2100	English	3230-Me
2000-2100	English	15195-As
2030-2130	French	11985-As

Aa=A'Seela  
 As=Ascension  
 Bo=Bonaire  
 Cy=Cyprus  
 De=Delano  
 Dh=Dhabbaya  
 Du=Dushanbe  
 Gr=Greenville  
 Ir=Irkutsk  
 Kj=Kimjae  
 Kv=Kvitsoy  
 Me=Meyerton  
 Mo=Moscow  
 Ms=Montsinery  
 Na=Nakhon  
 No=Novosibirsk  
 Ok=Okkeechobee  
 Or=Orfordness  
 Ra=Rampisham  
 Se=Se  
 Si=Singapore  
 Sk=Skelton  
 Sm=Samara  
 St=Santiago  
 Ta=Taipei  
 Ts=Tashkent  
 Vl=Vladivostok  
 Wo=Woofferton  
 Ya=Yamata  
 Ye=Yerevan

(Gupta-INDIA)

### UNITED STATES KNLS Broadcast Schedule B05:

0800-0900	Mandarin	9655
0800-0900	English	9615
0900-1000	Mandarin	9655

0900-1000	Russian	9615	1400-1430	Urdu	15440au
1000-1100	English	9615	1400-1500	Mandarin	9635ag
1000-1100	Mandarin	9655	1400-1500	Vietnamese	11695tp
1100-1200	Russian	9655	1430-1500	Chin	11940ag
1100-1200	Mandarin	7355	1430-1500	Burmese	11770ag
1200-1300	English	7355 9615	1430-1500	Afar	17610au
1300-1400	Mandarin	7355 9655	1500-1530	Tamil	11985ag
1400-1500	English	9655	1500-1530	Telugu	12105ag
1400-1500	Mandarin	7355	1500-1530	Mizo	11610ag
1500-1600	Russian	9655	1500-1530	Nepali	9530dh
1500-1600	Mandarin	7355	1500-1530	Panjabi	9355ag
1600-1700	Russian	9655	1500-1530	Panjabi	11695dh
1600-1700	Mandarin	7355	1528-1628	Malagasy	3215ma
1700-1800	Mandarin	9655	1530-1600	Kannada	12065ag
1700-1800	Russian	7355	1530-1600	English	9530dh
			1530-1600	Hindi	11695dh 12105ag
			1530-1600	Marathi	11935ag
			1530-1600	Malayalam	11985ag
			1600-1630	German	6015au
			1600-1630	Oriya	11670ag
			1600-1630	Urdu	11680au 11980ag
			1600-1630	English	9585ag 12065ag
			1630-1700	Farsi	9540au
			1630-1700	English	11980ag
			1630-1700	Somali	17595dh
			1700-1730	Kiswahili	11915me
			1700-1730	Filipino	9980ag
			1700-1730	Arabic	9595au
			1700-1730	Hindi	11675ag
			1730-1800	Oromo	6180dh
			1730-1800	English	9980ag
			1730-1800	Masai	11915me
			1730-1800	Tamil	11680ag
			1730-1800	Arabic	9670au
			1800-1830	Moru	9815au Su/Th
			1800-1830	English	3215me 3345me
					11925me
			1800-1830	Juba-arabic	9815au Tu/Sa
			1800-1830	English	9815au We/Fr
			1800-1830	Bari	9815au Mo
			1830-1900	Arabic	9535au
			1900-1930	Arabic	9800ju
			1900-1930	Fulfulde	15140me
			1930-2000	Hausa	11750me
			1930-2000	Ibo	11885me
			1930-2000	Dial_ara	9800ju Mo/We
			1930-2000	Kabyle	9800ju Su/Th
			1930-2000	Tachelhit	9800ju Tu/Fr/Sa
			2000-2030	Dyula	9770au
			2000-2030	English	9655me
			2000-2030	French	9695ju 9805me
					11845me
			2000-2100	Korean	6045ag 6195ag
			2030-2100	French	9800au
			2030-2100	Yoruba	11845me
			2100-2130	English	9830au
			2100-2130	Japanese	11980ag 12010ag
			2100-2200	Mandarin	5985ag 7150ag
			2200-2230	Indonesian	11850ag 11965ag
			2200-2300	Mandarin	11685ag 11895ag

**ALL OVER THE DANGED PLACE ADVENTIST**

**WORLD RADIO B05 schedule:**

0000-0030	Burmese	17635ag			
0000-0200	Mandarin	12035ag	17880ag		
0030-0100	Karen	17635ag			
0100-0200	Vietnamese	15445tp	Sa		
0100-0200	Mandarin	17635ag			
0200-0230	Urdu	5965au			
0230-0300	Urdu	5965au			
0230-0330	Malagasy	3215ma			
0300-0330	Oromo	9550dh			
0300-0330	Tigrinya	9760dh			
0300-0330	Russian	9655dh			
0330-0400	Farsi	6040au			
0330-0400	Amharic	9760dh			
0400-0430	Arabic	7210au			
0430-0500	Arabic	6045au			
0500-0600	Bulgarian	6045ju			
1000-1030	English	11870ag			
1000-1100	Italian	9610ju	Su		
1000-1100	Mandarin	15260ag	15430ag		
1030-1100	Mongolian	11900ag			
1030-1100	Filipino	11870ag			
1100-1130	Indonesian	11840ag			
1100-1200	Mandarin	11895ag	12120ag		
1100-1500	Mandarin	11825ag			
1130-1200	Thai	15260ag			
1200-1230	English	15110dh			
1200-1300	Korean	9780ag			
1200-1300	Mandarin	11690ag	12120ag		
1230-1300	Bengali	15110dh			
1300-1330	Japanese	11755ag	11980ag		
1300-1330	Mandarin	11720dh	Mo-Fr		
1300-1330	Bengali	15660ag			
1300-1330	Uighur	11720dh	Sa/Su		
1330-1400	English	11980ag			
1330-1400	Khmer	11695ag			
1330-1400	Assamese	15660ag	Su/We		
1330-1400	Russian	9530dh			
1330-1400	English	15660ag	Mo/Tu/Th-Sa		
1330-1500	Mandarin	11720dh			
1400-1430	Karen	11940ag			
1400-1430	Sinhalese	15660ag			

2230-2300 English 11655ag 11850ag  
 2300-2400 Vietnamese 15320ag  
 2300-2400 Mandarin 11700ag 15370ag

ag = Agat  
 au = Moosbrunn  
 dh = Dhabayya  
 ju = Julich  
 ma = Madagascar  
 me = Meyerton  
 tp = Taipei

(Bueschel-GERMANY/Roe)

**TRANS WORLD RADIO**

**TWR-Europe for B05:**

0615-0630 Polish 6235as 7380as  
 0630-0645 Slovak 6130ju 7380as Mo-Fr  
 0745-0920 English 9800mc 11865as Su  
 0800-0920 English 9800mc 11865as Mo-Fr  
 0815-0850 English 9800mc 11865as Sa  
 0930-0945 Hungarian 6105ju 7210ju Tu/Sa  
 0930-0945 German 6230mc 7160mc Mo-Sa  
 0930-1015 German 6230mc 7160mc Su  
 1130-1200 Slovak 6130ju 7225ju Sa  
 1400-1430 German 6230mc 7160mc Su  
 1430-1500 German 6230mc 7160mc  
 1442-1457 Russian 7325as 9495au Mo  
 1442-1527 Russian 7325as 9495au Sa/Su  
 1442-1557 Russian 7325as 9495au Tu/Fr  
 1457-1527 Belorussian 7325as 9495au Mo  
 1527-1557 Russian 7325as 9495au Mo  
 1545-1600 Polish 6245ar 7355as Su  
 1600-1630 Polish 6245ar 7355as  
 1630-1700 Hungarian 6245ar  
 1633-1703 Armenian 7375as 9945 Mo-Fr  
 1700-1715 Czech 6205sp 6245ar Mo/Tu/  
 Th/Fr  
 1700-1730 Romanian 6205sp 6245ar Sa  
 1725-1840 Farsi 7355as 9960as  
 1840-1855 Qashqai 7355as 9960as Su  
 1910-1940 Farsi 7375as

af = Fllake, Albania  
 ar = Armavir, Russia  
 as = Shijak, Albania  
 au = Moosbrunn, Austria  
 cy = Cape Creco, Cyprus  
 ju = Juelich, Germany  
 gr = Grigoriopol, Moldova  
 mc = Monte Carlo  
 ro = Roumoules  
 sp = St.Petersburg, Russia

(Patrick, World DX Club / Bueschel/ Gupta / Roe)

**Trans World Radio India (TWR) B05:**

0000-0030 Assamese 7405-ALMATY Tu-Sa  
 0015-0030 Kurukh 9445-IRKUTSK Fr/Sa  
 0015-0030 Maghai 9445-IRKUTSK Th  
 0015-0030 Bengali 7405-ALMATY Su  
 0015-0030 Mundari 9445-IRKUTSK We  
 0015-0030 Nepali 9445-IRKUTSK Su-Tu

0030-0045 Nepali 9445-IRKUTSK Su  
 0030-0045 Bengali 7405-ALMATY Su-Fr  
 0030-0100 Bhojpuri 9445-IRKUTSK Mo-Fr  
 0030-0100 Dzonkha 9445-IRKUTSK Sa  
 0045-0100 Newari 9445-IRKUTSK Su  
 0100-0115 Newari 9445-IRKUTSK Sa/Su  
 0100-0145 Nepali 9445-IRKUTSK Mo-Fr  
 0115-0130 Hindi 9445-IRKUTSK Sa/Su  
 0130-0145 Nepali 9445-IRKUTSK Sa  
 1230-1245 Bundeli 7535-IRKUTSK Mo  
 1230-1245 Dhodiya 7535-IRKUTSK Tu/We  
 1230-1245 Maithili 7535-IRKUTSK Th/Fr  
 1230-1245 Santhali 7535-IRKUTSK Sa  
 1230-1245 Tibetan 7535-IRKUTSK Su  
 1230-1245 Kokborok 11660-GUAM Mo-Fr  
 1245-1300 Kokborok 11660-GUAM Sa  
 1245-1300 Kui 7535-IRKUTSK Sa  
 1245-1300 Ho 7535-IRKUTSK Sa  
 1245-1315 Maithili 7535-IRKUTSK Mo-Fr  
 1300-1315 Garhwali 7560-NOVOSIBIRSK Mo-Fr  
 1300-1330 Hindi 7535-IRKUTSK Su  
 1315-1330 Dogri 7560-NOVOSIBIRSK Mo-Fr  
 1315-1330 Garhwali 7560-NOVOSIBIRSK Sa  
 1315-1330 Mewadi 7535-IRKUTSK Th/Fr  
 1315-1330 Bengali 7535-IRKUTSK Sa  
 1315-1345 MBE 7535-IRKUTSK Mo-We  
 1330-1345 Dzonkha 7535-IRKUTSK Th-Sa  
 1330-1345 Marwari 7535-IRKUTSK Sa  
 1330-1345 Santhali 12080-GUAM  
 1330-1415 Hindi 7560-NOVOSIBIRSK  
 1345-1400 Bundeli 7535-IRKUTSK Sa/Su  
 1345-1400 Boro 12080-GUAM We-Su  
 1345-1400 MBE 12080-GUAM Mo/Tu  
 1345-1415 Urdu 7535-IRKUTSK Mo-Fr  
 1400-1415 MBE 12130-GUAM Su-Fr  
 1400-1415 Manipuri 12130-GUAM Sa  
 1400-1430 Kashmiri 7535-IRKUTSK Sa  
 1400-1430 Kumaoni 7535-IRKUTSK Su  
 1415-1430 Gamit 7535-IRKUTSK Mo-We  
 1415-1430 Hindi 7560-NOVOSIBIRSK Sa/Su  
 1415-1430 Manipuri 12130-GUAM Su  
 1415-1430 MBE 12130-GUAM Mo-Fr  
 1415-1430 Bhojpuri 7560-NOVOSIBIRSK Mo-Fr  
 1415-1430 Vasavi 7530-IRKUTSK Th/Fr  
 1430-1445 Punjabi 7560-NOVOSIBIRSK Sa/Su  
 1430-1445 Sadari 7535-IRKUTSK Sa/Su  
 1430-1445 Hindi 7560-NOVOSIBIRSK Mo-Fr  
 1430-1500 Sindhi 7535-IRKUTSK Mo-Fr  
 1445-1500 Punjabi 7560-NOVOSIBIRSK  
 1445-1500 Chaudhry 7535-IRKUTSK Sa/Su  
 1500-1515 Bhili 7535-IRKUTSK Sa/Su  
 1500-1515 Punjabi 7560-NOVOSIBIRSK Mo-Sa  
 1500-1530 Kutchi 7535-IRKUTSK Mo-Fr  
 1515-1530 Mouchi 7535-IRKUTSK Sa/Su  
 1515-1530 Punjabi 7560-NOVOSIBIRSK Sa  
 1515-1545 Hindi 7560-NOVOSIBIRSK Mo-Fr  
 1530-1545 Braj Bhasha 7560-NOVOSIBIRSK Sa/Su  
 1600-1630 Pashto 7365-ARMAVIR Mo-Fr  
 1630-1645 Dari 7365-ARMAVIR Mo-We

(Gupta-INDIA)



# QSL Report

Sam Barto • 78 Blakeman Road • Thomaston, CT 06787

**ALASKA:** KNLS 9655 f/d "Studio in Anchor Point" cd. in 56 ds. w/ station pennant and ltr. (Humenyk-ONT).

**AUSTRALIA:** Radio Australia 9475, 17750 & 15515 via Shepparton f/d "Shepparton Transmitting Site" cd. in

41 ds. w/ schedule. v/s Ian Johnson. (Humenyk-ONT). 9580 via Shepparton nice looking cd. w/ sunset photo and insets of the site on the front and f/d on the back in 2 mos. w/ schedules. The QSL was mailed from Singapore? (Berg-MA).

**BONAIRE:** Radio Japan 11935 the station verified the special 70th Anniversary of "Hello from Tokyo" program w/ a f/d "A Midsummer Night's Spectacle" cd. in 88 ds. v/s T. Sato. Unfortunately, the card neglected to indicate it was the special anniversary but I did receive a program schedule, 2005 calendar, report form and station info. (D'Angelo-PA).

**BULGARIA:** Radio Bulgaria f/d cd. in 2 mos. The station returned the \$1 I sent them. (Littlefield-NY).

**CLANDESTINE:** Minivan Radio 13855 via Julich I received a f/d "Miami Bay-side Market Place" cd. from v/s Jeff White at WRMI in 348 ds. WRMI is the program broker. (D'Angelo-PA). Radio Hoa-Mai 11555 f/d "Map" cd. in 33 ds. for \$1.00. v/s Trinh Ngoc Anh. (Wilkins-CO).

**EQUATORIAL GUINEA:** Truth for the Word via Radio Africa 15190 the station signed and stamped my prepared cd. and sent a short ltr. thank-me for the reception report. v/s Don Blackwell, Director of Broadcasting, All in 90 ds. The ltr. stated: We have found it to be most helpful and have even used it to correct a problem with our broadcast over Radio Africa. The very specific details that you included are very beneficial". Not sure what I said but I haven't heard the station since. Hi!! (D'Angelo-PA)....So your the one! I haven't received them at all...Sam.

**EURO PIRATE:** Radio \* Orion 5714.9 very nice QSL w/ logo and cartoon in 1 day for an e-mail rpt. 150 watts. Addr: P.O. Box 9, 8096-2G Oldebroek, Netherlands. (Berg)

**HOLLAND:** Radio Netherlands f/d cd. in 1 mo. (Littlefield-NY).

**HONDURAS:** HRVC 4819 station sent back my prepared cd. w/ a brief ltr. in 19 ds. for \$1. (D'Angelo-PA).



### QSL CARD

Ghana Broadcasting Corporation  
P. O. Box 1633,  
Accra, Ghana



Dear Sir/Madam,

Thank you for your reception report of our transmission(s)

on 3366 kc/s heard at 22.34 - 22.41

G.M.T. on 4<sup>th</sup> SEPT. 1993

We have pleasure in verifying your report which is much appreciated.

14.10.1993

PE/M/93/3262

*Shuraf*  
for Director-General

**INDONESIA: Kang Guru Radio**

\* English 9680 via Radio Republik Indonesia

very friendly e-mail reply in 1 day for an e-mail rpt. v/s Rachel Pearson. Addr: KRGE, POB 3095, Denpasar 80030, Bali, Indonesia. Her and Kevin Dalton are the KRGE announcers for the Sunday and Wednesday programs. (Howard-CA).

**INDIA: All India Radio**

5010 via Thiruvananthapuram f/d cd. in 214 ds for a taped rpt. v/s Y. K. Sharma. (Klinck-NY).

**INTERNATIONAL WATERS: Radio New York International 1620 and 6240 f/d**

\* handwritten ltr. in 18 yrs. and 1 mo. for about my 10th f/up rpt. v/s Alan H. Weiner. I sent many f/ups to Alan over the years, parti-

**MEMBERS NOTES:** A big thank you goes out to Jim Vaughan and Ken Lyon for their assistance in obtaining a 1970 WRTH. Thanks guys...Sam. Mark Littlefield sent me a very detailed listing of stations QSLed and how long it took to get a reply. Thanks Mark...Sam. Joe Wood sent along a report for marine utility station WLO in Mobile, AL. He received his reply in 6ds. Several years ago a report I sent to WLO resulted in a QSL and a very nice coffee mug. I still have it..Sam

**Itatiaia**  
**610AM 95.7FM**

A Rádio de Minas

cularly when he had his syndicated program over private shortwave stations in the late 80's and early 90's. On a lark, when I sent my report to WBCQ I included a few notes from the handwritten log book that I kept for a July 24, 1987 reception. He included the letter in the envelope w/ the WBCQ QSL and mentioned they had misplaced many reception reports in the aftermath of Radio New York International. Not as cool as the picture postcard of the MV Sarah some of my friends received, but I'll take it. (Lay-NC)...Very nice.

**LATVIA: Radio Tatrás Internacionāl** 9290 e-mail verie message from Rai-

\* mods Kreicbergs, KREBS TV Director in 2 ds. after an e-mail report to: tesug@parks.lv Ten days later I rcvd. a f/d paper ltr. w/ station stamp. Addr: KREBS TV, a/k371, Riga LV-1010, Latvia (Berg)

**LIBERIA: Star Radio 9525**

\* via Ascension Island f/d cd. in 2 wks. from the Hironnelle Foundation in Switzerland. v/s Mr. Darcy Christen, Star Radio Program Officer. (Berg-MA).

**LITHUANIA: Radio Vilnius**

11690 f/d "Logo" cd. in 36 ds. for \$1.00. (Lay-NC).

**MOLDOVA: Voice of Russia**

9665 p/d cd. w/ ltr. in 82 ds. Addr: 113326 Py-atnitskaya str., 25, Moscow, Russia (Wood-TN).

Monsieur,

J'ai l'honneur d'accuser réception de votre lettre du 11 février 1975 et rapport d'écoute date du 12/2/1961; effectué sur notre mission en ondes décamétriques sur la fréquence 4980 KHZ.

Je vous prie de bien vouloir trouver ci-dessous les détails techniques :  
- STATION observée: 9RLB(Lubumbashi)ZAI.  
- Horaire: 13-16 Cnt.  
- Correspondant: ICL  
- Fréquence : 4980 KHZ.  
- Classe d'émission: A3/BC.  
- Puissance : 3KW.  
- Largeur de bande 10 KHZ.  
- Caractéristiques antenne : AZIMUT : ND-

distinguées. Veuillez agréer, Monsieur, mes salutations

LE DIRECTEUR DE L'EXPLOITATION TELECOMS.

BABADI -NTUMBA BUMB

NIGERIAN BROADCASTING CORPORATION  
BROADCASTING HOUSE, IKOJI,  
LAGOS, NIGERIA.

5-11/2/3-10/7-246

2017 Nov 19 6:5

Dear Sirs

Thank you for your reception report of 19 6:5  
at 1550 hrs. GMT.

I have pleasure in confirming that the transmission was from our  
100Ks transmitter on 15.55 Kc/s.

J. I. Asquera  
CHIEF ENGINEER

**NEW ZEALAND: Radio New Zealand International 15720 via Rangitiki f/d "Birds of New Zealand" cd. in 50 ds. w/ schedule and stickers. (Humenyk-ONT).**

**PORTUGAL: Radio Diffusao Portugal 13700 f/d "Headquarters" cd. in 122 ds. w/ ltr., schedule and stickers. (Humenyk-ONT).**

**RWANDA: Deutsche Welle 15205 2 f/d cds. in 45 ds. v/s Horst Scholz, Transmission Management. Addr:**

Head of English Service, Kurt-Schmacher Str. 3, D-53113 Bonn, Germany. (Wood-TN).

**SLOVAKIA: Radio Slovakia International 5930 and 9440 f/d cd. in 28 ds. for an e-mail rpt. (Lay-NC).**

**UKRAINE: Radio Ukraine International 7440 f/d cd. in 30 ds. for an e-mail rpt. (Lay-NC).**

**USA: WBCQ 5105 page size QSL w/ photo of M/S Katie and a collage of**

**NOTES: Scott Barbour** says he has slowed down a bit in sending reports. He is being much more selective to those he reports to. Good idea. Sam. **Wendel Craighead** returned from his fourth wonderful vacation at Bao Loc in Vietnam. He did a little DXing and is now sending out reports. One of our new reporters **Mark Littlefield** says that he became interested in SWL when he got his first ham license in 1952. He uses a Ten-Tec RX340... You sure came back in with a top of the line receiver... Sam.



BENDEL BROADCASTING SERVICE

BROADCASTING HOUSE  
P. M. B. 1912  
BENIN CITY,  
NIGERIA.

17/6/ 1983

BD/BMG/17/Vol. 1/28

Mr. Samuel L. Barto,  
489 King Street,  
Bristol, Connecticut,  
U. S. A. 06010.

Dear sir,

Thank you for your nice letter and the Reception Report on our Short-wave Transmitter BD2681 on 4.932MHz in 60 meter-band. We have checked your report with the day's loggings and found out that you were really tuned to our frequency on the 13/8/79.

At the moment we have since shut-down on that frequency following the Federal Government Orders that all State Radio Stations should transmit on Medium Wave frequencies. We are now on 774kHz in the Medium Wave Band.

We sincerely hope that you will still keep us informed if by chance you receive us on 774kHz.

Thanks.

Yours faithfully,

J. I. Asquera  
Chief Tech. Officer

\* other Katie photos in 10 ds. Card was marked QSL #1. The transmission was from Monticello and the broadcast was from the ship. My rpt. was sent to the Monticello addr but the return addr was Radio Free Mt. Airy, 28723 Ridge Rd., Mt. Airy, MD 21771. (Berg-MA). 7415 f/d "Planet" cd. in 9 ds. for \$1.00. v/s Allan Weiner. (Wood-TN). same in 10 ds. for \$1.00. (Lay-NC).  
**Vietnam: Voice of Vietnam** f/d cd. in 4 mos. (Littlefield-NY).

Rather short QSL Column this month.

See you next month.

Sam

# Contributors' Page

Bob Montgomery • P.O. Box 1458 • Levittown, PA 19058 • RMonty23@netzero.net

## DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA	NRD-545 AOR AR-7030 100' LW
Scott BARBOUR, Intervale, NH	R-75, MLB-1, 200' Beverage
Ray BAUERNHUBER, Whitestone, NY	Sony 2010, 23' vertical antenna
Jerry BERG, Lexington, MA	R8 19, 41, 90 meter dipoles
Forrest BISHOP, Cincinnati, OH	Zenith R7000
Luca BOTTO FIORA, Rapallo, ITALY	R7, Sat 500, Dipole, LW, MFJ1206, AT2000
Mike BRANCO, Islip, NY	No equipment listed
Ralph BRANDI, Middletown, NJ	AOR7030, R8, 300' longwire
George CARAS, Saco, ME	RX340, R8B, Orion, R30, SE3, 550lw, verticals
Rich D'ANGELO, Wyomissing, PA	TenTec R340, Lowe HF-150, DX Sloper
Tim DAVISSON, Norton, OH	Icom IC718, off-ctr-fed folded dipole
Mickey DELMAGE, Sherwood Park, AB	Collins HF-2050
Jim EVANS, Germantown, TN	RX340, 30 m wire, R* AN-LP1
Bob FRASER, Belfast, ME	Sony ICF-2003 ICF-SW100S 2m LW
Ron HOWARD, Monterey, CA	NRD545, LW 160'
Victor JAAR, QUE	no equipment listed
Steve LARE, Holland, MI	Drake R7, R8, R8B, 70' & 200' long wires
Bob MONTGOMERY, Levittown, PA	NRD535D, R390A, RX320, HF150, SE3, T2FD,
Dale PARK, Honolulu, HI	Sangean ATS-818CS
Jim RONDA, Tulsa, OK	FRG-100B, FRG-7, Eavesdropper
Louis Crisler SMITH, Thurmont, MD	R-75, 160' long wire
Mark TAYLOR, Madison, WI	R-75, Sat 800, EWE, Eavesdropper
Joe WOOD, Gray, TN	DX-390, Grundig Mini 100 PE, whip antenna 

## WWW Shortwave Listening Guide

Looking for programs to listen to? You can find what programs are on for the current hour or list programs of a desired type on a given day at the **www Shortwave Listening Guide** on NASweb. The data is provided by *NASWA Journal* and *Monitoring Times* columnist John Figliozzi, and comes from his book, *The Worldwide Shortwave Listening Guide*. Visit the Guide at <http://www.anarc.org/naswa/swlguide/>. 

**NASweb**

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# Tropical Band Loggings

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Please note the new postal address. The email address remains unchanged.

- 2310 **AUSTRALIA VL8A** Alice Springs 0948-1004, 9/26, in EE, lcl mx w/talk over, ABC promos, wx forecast for entire continent. Song "Midnite Moon" thru ToH, quick ID 1003, more mx. Fair using USB. // 2325-VL8T poor. (Barbour-NH) Also, 1111-1124 10/15 M w/interview of the "Rock Doctor" re. rocks and fossils. Music 1121 into interview re touring Gulf Coast. Fair. // 2485 - VL8K Katherine which I don't think I have ever logged here in N.H. No sign of 2325 Tennant Creek; off for scheduled maintenance. (Barbour-NH)
- 3185 **USA WWRB** Manchester 8/10 0550 EE tkl by M; S2-3. (Fiora, Italy)
- 3220 **ECUADOR LV Andes** fair-poor @ 1058 with SP talk; TS and ID @ 1100 and into SP rel. prgm; best in LSB (Ronda - OK, 10/15)
- 3240 **SWAZILAND TWR** 0335 10/15 gospel songs, anmts in (listed) Ndau. (Ronda, OK) 0310-0336 10/8 lively Afr vocals. Talk by M in Shona taking phone call from listener. Studio talk by M&W. Series of IDs and closedown anmts plus address at 0327. Multiple IDs with change of languages at 0330. Good signal. (D'Angelo-PA)
- 3250 **HONDURAS R. Luz y Vida** 0345 popular vocal songs; then into long SS talk; fair 10/15. (Ronda, OK) 0153-0202 M SS hymn, talk, ID at ToH, hymn like song after. (Taylor, WI)
- 3280 **ECUADOR LV Napo** M&W SS talk, SS ID 0415; fair w/constant static crashes 9/24. (Ronda-OK)
- 3291.2 **GUYANA V. Guyana-GBC** 0407-0436 9/24, BBC pgmg in EE w/BBCWS ID 0432. Poor. (D'Angelo-PA) On 3291.28 0128-0147 9/27 M&W EE discussion on "family structure". Prg. credits, W thanks guests, "3rd part of discussion next Monday". Music bridge 0140 into PSA, ad re home saving plan. Brief anncr 0141, into a presumed recording of a live event w/ancr congratulating winners. Signal crushed by het tone at 0146. Poor/weak w/flux audio. (Barbour-NH) 3291.3 poor 0235 9/26 w/choral mx and individual voices just above QRN level; slow improvement 0255 to poor plus!; could not catch ID at TOH; back to vocal mx. Much the same on 9/30 in same time period. (Ronda-OK) 3291v 0325-0400 10/1 calypso type mx in EE w/M ancr in EE. YL in EE reading lists of obituaries with ments of several "Funeral Parlors," viewing hours and burial arrangements. Pips and BBC anmts at TOH. Very heavy QRM from YL SS numbers station with SS numbers and EE phonetic alphabets from 0357-0400. First log in a long time. Poor. (Wood, TN).
- 3340 **HONDURAS LV de Misiones Int.** 0215-0300\* 9/12 SS rel talk, SS rel mx. ID 0259 & off. Weak, poor signal. (Alexander-Pa) Poor 0053 9/30 with choral gospel mx. And poor 0315 10/13 SS preaching; rarely above QRN level most days (Ronda, OK)
- 3345 **SOUTH AFRICA Channel Africa** 0402-0411 9/26, M reading EE nx; ID 0408, then W w/nx feature. Fair. (D'Angelo-PA)
- 3350 **COSTA RICA REE** Cariari de Pococ 0552 9/25 M SS tkl. (Fiora, Italy) 0205-0215 9/30 SS; ID W w/probable news. (Taylor-WI)
- 3889.8 **IRAN V.O Communist Party** 1602 7/10 Farsi talk by W, over jamming. (Fiora, Italy)
- 3925 **JAPAN R. Nikkei** 0914 10/1 JJ talk; JJ vocals w/ W ancr; first time here since last May. P/F. (Ronda-OK, 10/1) Decent 1025 10/7 talk by M&W with musical interludes; //6055 not as good. (Berg-MA)
- 3945 **INDIA AIR Gorakhpur** 1604 10/7 Urdu, tel. call. (Fiora, Italy)
- 4052v **GUATEMALA R. Verdad** 0402 marimba-like mx; SS anmts; best in USB; P/F 9/23 (Ronda-OK) 1113 EE gospel songs, organ mx, and EE prgm "Back to God," occasionally overwhelmed by bursts of RTTY; fair/good 10/15 (Ronda-OK)
- 4650.03 **INDONESIA-PAPUA RRI Serui** 1103-1117 10/7 Arabic-?; continuous Koran chanting, presumably for Ramadan, w/ brief talk b/w chants. Still going at t/out. Poor. (Barbour-NH)
- 4775 **SWAZILAND TWR** 0347 choral gospel mx, some in EE; sometimes drowned out in pulsing QRN. By the time I went back to TWR 3240 to check if freqs were //, 3240 was gone; F/G 10/15 (Ronda, OK) 0412-0436 9/26, M w/long GG rel talk, some choir vocals mixed in. Singing ID & change to EE preacher at 0430. Fair. (D'Angelo-PA) 0434-0450 10/12 M in EE with reminisces of his military service First log of this station and country. Faint. (Wood, TN)
- 4779.97 **GUATEMALA R. Cultural Coatan** 0155-0232\* local rel mx, ranchera mx, SS anmts IDs 0158 & 0218. S/off anmts 0231 & off. Poor to fair with some rtty-ute QRM. (Alexander-Pa 9-10) 4779.98 1030 10/8 1030 full ID w/station name, village, department, country, frequencies, into religious program 1031, another ID 1035 (Brandi-NJ) 4780 poor 1052 10/15 w/group singing; better 1152 recheck; exceptionally strong 0019 10/16 (Ronda, OK) 4780 0050-0102 9/30 long talk by M, ID ToH, more by same M. (Taylor-WI)

- 4780 **DJIBOUTI R. Djibouti** 0314 9/28 AA mx, W talking 0329 including ID "Radio Djibouti", theme music, into news report read by M, ending 0340, more music (Brandi-NJ) Strong 2145 10/7 animated talk, HoA mx; upbeat into theme to nx at 2201. (Berg-MA) 2146 10/7 vern YLs & kids doing call response HoA mx. Touching. M DJ bantering w/ kids in studio. Ramadan related? f-g (CrislerSmith MD)
- 4783v **MALI RDT Malienne** Bamako 0557 10/8 IS, anthem, anmts by YL. (Fiora, Italy)
- 4800 **GUATEMALA R. Buenas Nuevas** 0203 10/13 SS ID, into call-in pgm; ancr complained that phone system was not working properly; audio quite tinny - usually better in local mornings around 1200. F/P 10/13 (Ronda, OK)
- 4819.1 **HONDURAS HRVC, LV Evangelica** Tegucigalpa 0536 9/25 SS, local mx. (Fiora, Italy) 4819.5 0202-0215 9/29 M&W SS ancrs w/apparebt nx or actualities. (Taylor-WI)
- 4835 **AUSTRALIA VL&A** Alice Springs 0820 9/24 live sports prgm with cmtry and conversation, poor but readable, and better than //4910-Tennant Creek which was also hrd. 4835 went off at 0829, 4910 followed a few secs. later. (Berg-MA)
- 4845 **MAURITANIA R. Mauritanie** 2330 10/10 brief flute mx, into AAR talk by M ancr; best in LSB often the only readable 60 meter station heard at this hour - local late afternoon. (Ronda, OK) fair 0040-0052 10/1; continuous ME mx w/o anmts. Hvy hum and RTTY QRM. Poor. (Wood, TN) 2339-2345 10/1 FF/AA; lots of typical mx at S9 most times with deep fades to S5 for short periods. ID presumed as ID not heard during my short listening period. Possible AA language w/ occasional FF heard. (Montgomery, PA)
- 4885 **BRAZIL R. Clube do Para** Belem 9/25 PP, local mx. (Fiora, Italy) 0427-0432 10/12 really nice dance club mx. Fair. Also 0054-0100 10/1 M PP ancr w/mx from KC and the Sunshine Band and other selections of up tempo brass oriented pop mx in both EE and PP. Partial ID 0055. Fair with static. (Wood, TN) 0427-0432. Really nice dance club mx. Fair. (Wood, TN).
- 4885 **BRAZIL RDiF Acreana** 0102-0135 9/30 PP sports, ID 0134. (Taylor-WI)
- 4905 **CHINA Xizang PBS** Lhasa, surprisingly good at 1100 10/7 with talk by M&W and background mx, 4905 slightly the better than 4920. (Berg-MA)
- 4915 **BRAZIL R. Anhanguera** Goiania 0541 9/25 PP, local mx. (Fiora, Italy)
- 4915 **GHANA R. Ghana** 2209-2230 9/23 M EE nx, ID, continuous C & W style ballads thru t/out. Fair at t/in becoming unusable as co-channel Brazil f/in. (Barbour-NH) 2141 10/4 vern M&W in heated discussion (politics/rel) p-f (CrislerSmith MD) 4915.05 2118 9/25 EE rel pgm, ending around 2135-2140, into soft R&B music, occasional anmts by M about world news coming up, time pips, ID "This is Radio Ghana. The news." Starting to mix with Brazil by 2200 (Brandi-NJ)
- 4930 **BOTSWANA VOA** 0421-0426 10/12 M EE political cmtry; stock market nx and ments of Nigerian LNG. ID at 0424. Fair. (Wood, TN)
- 4950 **ANGOLA RN** 0240-0304 10/8 PP, various hilife and pop-like music selections w/ "Nacional" zingers. Pips/ID 0300 into (p) news headlines then back to mx. Fair. (Barbour-NH)
- 4965 **ZAMBIA Voice Africa** 0358-0420 10/12; first log of this station. W EE nx, TC as "South African Time." Several ments of Zambia. Following prgm sounded like a US morning "drive time" prgm with IDs as "The Voice" and "The very best of gospel music." Tk of Angola. Skeds and freqs. Faint. (Wood, TN)
- 4985 **BRAZIL R. Brasil Central** Goiania 0544 9/25 PP, M talk, local mx. (Fiora, Italy)
- 4999.7 **COSTA RICA R. Buenos Nuevas** 0047-0051 9/30 M SS talk, ID 0050. (Taylor-WI)
- 5005 **EQ GUINEA R. Nac. Bata**; \*0458-0530+ 9/12 s/on with long NA followed by continuous Af folk mx, hi-life mx & Afro-pop mx. Fair. (Alexander-PA) 2215-2301\* 9/24, lively pgm of vocals until 2230 SS ID by M, nx. Many mentions of Malabo. Nice "Radio Nacional, Bata" ID 2236 prior to returning to lively vocals. Closedown ID & s/off anmts 2256, then long orchestra NA from 2257. Fair to good signal. (D'Angelo-PA) 2209 9/25 long talk in vernacular language w/musical accompaniment; music, closing anmt (at very low modulation), followed by EE NA. (Brandi-NJ) 2130-2145 10/8; first noted 2130 with fairly clear signal but soon began to fall apart with noise problems by 2145. Lots of fades. M SS ancr w/long talks and interludes of some really nice mx. Recheck 2210, reception much better with a S7 signal level with some fades. (Montgomery, PA) 2155-2300 10/1, first noted on air at 2115 but too weak to really copy much. By 2200 male announcer in SS with news items. S5 signal level but audio modulation a bit low. Have checked previous evenings and appears to be getting better as the days pass. Rapid or freq fades from S5 to S9 at times, 2200. News over at 2207 and then to SS mx prg. Some fantastic mx at 2217. Excellent listening. Back to news items at 2227 by same male announcer in SS. NA at 2249. Usually on longer. NA off and carrier gone at 2252. (Montgomery, PA)
- 5010 **MADAGASCAR R. Madagasikara** \*0254-0310+ 9/11 s/on w/IS, choral NA at 0257; opening anmts in Malagasy 0259. Rel pgming with rel choral mx & talk. Fair. (Alexander-PA 9-11)
- 5019.87 **SOLOMON IS. SIBS** better-than-usual signal at 0915 10/7, but blocked by strong carrier opening on 5019.94 at 0933. Carrier was probably Horizonte, but never had any prgmg and SIBS was back on top after 1000, still there at 1100. (Berg-MA)

- 5025 **CUBA R. Rebelde** 0100 10/1; three M in SS with live sporting event. Lots of crowd noise and stadium ancr in background. G-VG. (Wood, TN)
- 5030 **BURKINA FASO R. Burkina** 2300 10/4 FF ID (I presume)...into vocals. (Davisson- OH) 2250-2305 10/5 Afr pop mx w/short FF anmts by W; 2259 M w/anmts & talk. Moderate signal with heavy low side interference. SINPO 32322. (Jim Evans, TN) 2338-0001\* 10/14, information program hosted by two M in FF w/short musical segments. Program close with postal mailing address for Radio Burkina at 2358. After that M gave brief anmts with instl mx at closedown. Fair to good. (D'Angelo-PA) 5030.01 2100-0002\* 9/30 FF talk, phone talk, Afro-pops. Fair. Gene Scott not on this freq lately. Scott still noted on their other freqs. (Alexander-PA)
- 5035 **BRAZIL R. Aparecida** 0021-0045 10/15, M&W PP talk, soft vocal selections, ID 0030. Poor to fair and //9630 which was poor. (D'Angelo-PA)
- 5050 **USA WWCR** 0103 10/1 M w/EE talk of the Torah and Book of Deuteronomy. In my part of the South, the M would be referred to as speaking with a "Mush Mouth." VG (Wood, TN)
- 5054.58 **COSTA RICA Faro del Caribe** semi-normal audio when hrd 9/30, a little low and sometimes swallowed up by the carrier, but better than usual. Hrd at 0845 with mostly talk, ID 0859, still there at 1015. (Berg-MA) 5054.6 0500 10/10 rel pgm "El Camino de la Vida", address in Mendoza, Argentina; ID as Faro del Caribe 0502 w/MW frequency 1080 kHz, rel mx; nice signal (Brandi-NJ) 5054.6 0051-0115 9/28, M long SS talk, then light instl mx 0057, more alk & vocal to 0100 ID. Next program was mainly vocals hosted by M&W Poor to fair. (D'Angelo-PA)
- 5055 **CUBA R. Habana** 0115-0130 9/29 WSS, bridge music, MID, same YL talking at length. (Taylor-WI)
- 5446U **USA AFRTS** (Key West) 0105-0113 10/1; baseball game with 2 M ancrs in EE. The Red Sox of Boston were playing the Yankees of New York. The Red Sox were winning handily. ID at 0107. F-G. (Wood, TN) 5446.5, 2214-2225 10/8 EE talk show on investments; pgm called "Money" ID as National Public Radio. Job hunting the next topic on the talk show. S3 signal level with slight fades (Montgomery, PA)
- 5469.9 **LIBERIA R. Veritas** Monrovia 2120 9/30 two M talking. (Fiora, Italy)
- 5755 **USA KAIJ** Frisco, TX, 0114 10/1; the late Dr. Scott with prayers and explanation of Biblical Greek. VG. (Wood, TN)
- 5900 **BULGARIA R. Bulgaria** 0120 10/5 M in EE w/skeds, freqs; then thanks to listeners in several languages; good. (Wood, TN)

Again, please note my new postal address: 4205 Friendfield Trace, Little River, SC 29566. The email address remains the same: troplogs@zerobeat.org. —DanF




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## On the Short Waves by Jerry Berg

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> **Update, September 23, 2005**—Under "Articles, Research, etc.," "Pot Pourri": The American Shortwave Listeners Club is most often associated with Stew MacKenzie who became its Publisher in 1966 and Executive Editor in 1967. However, the club was founded in 1959 by Ken MacNeilage and Maxey Irwin. Here are two early copies of the club bulletin, "SWL," one from January 1960 (the second issue of the bulletin [p. 4 is missing]) and the other from March 1960. Thanks to Bob LaRose for these.

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> **Update, October 7, 2005**—Under "Articles, Research, etc.," "Pot Pourri," a 1928 pamphlet from KDKA containing a list of American and other stations, photos of the KDKA facilities and station personalities, and a time line of KDKA "firsts." Note the references to pioneer stations KFKX and 8XK on page 2. Rather than enter his dial settings in the spaces provided, this listener preferred to make his notes on the cover!

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> **Update, October 15, 2005**—Under "Articles, Research, etc.," "Pot Pourri," more on the VOA floating radio station, USCGC "Courier": another postal cachet, this one issued on the occasion of the ship's visit to Detroit in 1967, three years after she left VOA service, and a "Welcome Aboard" sheet containing some interesting information about the ship's pre- and post-VOA service.

# International Band Loggings

5901-30000 kHz

Wallace C. Treibel • 357 N.E. 149th Street • Seattle, WA 98155 • nwhikers@msn.com

- 5900 **BULGARIA R Bulgaria** in BG 0120, skeds, fqys, thanks to listeners in several langs (Wood TN 10/5)
- 5910 **COLOMBIA Marfil Estereo** in SP 0012, various tlks over and b/w musical selections, old tango, ID at 0030, fair (Barbour NH 9/19, Fiora ITALY 9/25)
- 59649v **MALAYSIA National FM** via RTM in Malaysian 1337-1419, SE Asia mx, on-air phone calls, several "Salaam Alaykum" greetings, IDs, may be former Radio 1/R Satu, good (Howard CA 9/23)
- 5985 **GERMANY Russian Int Radio** relay via Juelich in RS 1930, mx pgm, ID 1955 "Radiokompania Golos Rossii predlegayet programmu Russkoye Meshdunarodnoye Radio", nx, QRM WYFR (Brandi NJ 10/9)
- 59858v **MYANMAR R Myanmar** in EG 1431, pgm on cultural understanding, ment national development and different nationalities, ID 1440 ".....Myanmar Radio from Yangon", heavy QRM (Howard CA 9/24)
- 6020 **AUSTRALIA RA** in EG 1250, YL w/cmntry, nx 1300, constant CH jammer? (Evans TN 10/9)
- 6040 **CANADA R Monte Carlo** relay via Sackville in AR 0302, field rpts from correspondents, many ID's, website, Islamic mx, s/off 0320, good (Howard CA 10/11)
- 6055 **RWANDA R Rwanda** Kigali in FR 2030, Western and Afro pops, tlk, ID 2035 (Brandi NJ 10/9)
- 6070 **CANADA CFRX** Toronto relay of CFRB-AM in EG 1000, phone-in show, ID as "Newstalk 1010" the MW outlet, f-p (Ronda OK 10/1)
- 6080 **SINGAPORE RSI** in EG \*1059, ID, "News and views from Radio Singapore International" to 1109, fqys, promo for "25 Minutes", tk re Singapore architecture, website, p (D'Angelo PA, Barbour NH)
- 6085 **OMAN R Sultanate of Oman** in AR 0233-0302, ancmts b/w mx bits, IS/ID 0300, nx headlines, Koran, fair/poor, tuned down to 6084 to lessen QRM from Dr. Scott on 6090 (Barbour NH 10/11)
- 61051v **BRAZIL R Cultura Filadelfia** in PT 2254, OM/YL alt talking, theme mx, ID, fqys (Brandi NJ 9/27)
- 6110 **SWAZILAND TWR** in SH 0300, ID, interviews w/Afro multi-cultural bands (Caras ME 10/4)
- 6125usb **BAHRAIN Coalition Maritime Forces** via Manama City in Vern/EG 0042-0112, AR mx w/ancmt bks in various langs, "Radio Mallumat?" noted in EG 0109, fqys given as 6125, 9133, and 15500, website "Rewards for Justice", poor w/peaks above the static (Barbour NH 10/7) New fqy listed at 2 1/2 kw.?
- 61348 **BOLIVIA R Santa Cruz** in SP 0932-1022, nice Bolivian mx, cmntry re Chile and Bolivia, TC, ID, song called "Viva Santa Cruz", lang lesson spoken very slowly, good (Howard CA 9/26)
- 61398 **COLOMBIA Radio Lider** Bogota in SP 0230, ballads, IDs b/w songs, mixing w/Havana on 6140, good level (Alexander PA 10/2) in SP 0531, SP mx w/Gloria Estevan, QRM (Fiora ITALY 9/29) in SP 0735 w/pgm of romantic SP vocals, IDs (D'Angelo PA 10/16) in SP 0821, SP ballads, love songs, ID's w/chimes, fanfare, f-g (Howard CA 9/28) in SP 1014, tlks, mx, full ID at 1030, p-f (Barbour NH 10/7) in SP 1110, YL interviewing OM correspondent on phone, IDs (Brandi NJ 10/8) in SP 2158, ID, jingle format, local nx, nice signal at S3 but fairly audible w/some fades (Montgomery PA 10/8)
- 6185 **CANADA CKZN** St Johns, Newfoundland relaying CBC Radio 1 programming in EG 2350, regional wx for Newfoundland area, severe QRM from strong stns on both sides (Davisson OH 10/14)
- 6185v **MEXICO R Educacion** in SP 0151-0205, YL/OM tlks, IDs in passing, full ID toh, contact info, music, fair (Barbour NH 10/11) in SP 0510, local SP ballads, mariachi mx, good (Alexander PA 9/12), in SP 0609, piano mx, fair w/QRM (Fiora ITALY 10/8) in SP 0958, NA?, ID, guitar, vcls (Ronda OK 10/14) in SP/EG 0342, C&W songs in EG, big band mx from the 40's, classical mx, IDs in SP and EG, phone number and address "Why don't you call us? We would like to record your conversation, enjoyable listening with good reception (Howard CA 10/4)
- 6188v **BRAZIL R Nacional da Amazonia** Brasilia in PT 2231-2300, nx, clear ID, strong (Davisson OH 10/14)
- 61934v **PERU R Cusco** in SP 0240, canned IDs, huaynos, fair until 0300 BBC s/on (Alexander PA 9/30)
- 6195 **SINGAPORE BBC** relay in EG 1000, nx re Hurricane Rita, interviews, fair (Bishop OH 9/24)
- 62498 **NORTH KOREA Pyongyang BCS** in KR 1040, ballads, tlks, mx, pips, ID(p), f (Barbour NH 9/27)
- 6940 **ETHIOPIA R Fana** in Amheric? 0324, Horn of Africa mx, tlks, mx, g, //6210, f (Barbour NH 10/7)
- 7120 **SOUTH AFRICA BBC** relay in EG 0400, sports, "Network Africa", ID (Ronda OK 9/26)
- 7125 **MOLDOVA Russian Int'l Radio** relay in RS 0220, RS rock mx, ID, tlk by OM, g (Taylor WI 9/30)
- 71299v **TAIWAN WYFR Family Radio** relay via Taipei in KR \*1000, all talk by YL, mx at 1057 included WYFR signature tune, fair signal (Berg MA 10/7)
- 7130 **MALAYSIA Sarawak FM** via RTM in Bidayah 1425-1517, non-stop reciting from the Koran to 1458, singing jingle, nx at 1500, lite pop songs, positive ID, fair, //5030 poor (Howard CA 10/9)

- 7200 **SUDAN R Omdurman** in AR 0305, talks and mx at t/in, ID 0307, interview, more tlks w/2 OM's alternating b/w mx bits, exc (Barbour NH 10/8)
- 7200nf? **TAIWAN R Taiwan Int** in EG 2200, discussion of the "Tai" power system w/energy distribution and conservation, also earthquake exercise for you and toxic substance in fish (Branco NY 10/8)
- 7201 **RUSSIA R Rossii** relay via Yakutsk in RS 0955, local mx, many IDs and promos, pips/ID 1000, into newscast w/field rpts, //5940 and 7345 (Barbour NH 10/11)
- 7220 **VIETNAM V of Vietnam** Hanoi in CH/RS 1127, tail end of CH pgm at t/in, one min of silence then into RS 1130 over mx, nx?, occasional soundbites w/RS translation, choppy signal w/QRM by t/out (Barbour NH 9/27) in RS 1235, tlks by YL/OM, VT mx, many ments VT, fair (Evans TN 10/9)
- 7275 **NIGERIA R Nigeria** Kaduna in EG 0600, ID, nx, weak noisy reception (Alexander PA 9/10)
- 7290 **SAO TOME VOA** relay in EG 0341, ID, New Orleans stories, into EG nx 0400, f (Ronda OK 9/19)
- 7300nf **TURKEY V of Turkey** in EG 1930, listeners' letters, TK mx on CDs (Branco NY 10/1) in EG 2218, "The DX Corner" w/TK pop vocals mixed b/w DX tips and listeners' letters, exc (Davisson OH 10/1)
- 7325 **NETHERLANDS R Nederland** Flevo in SP 2245, serial pgm w/narrator and feature characters, talk, baby laughing and children in social function (Branco NY 9/27)
- 7345 **CZECH REPUBLIC R Prague** in EG 2230, nx, wx rpt, "This Week's Magazine" (Davisson OH 10/1)
- 7875usb **AUSTRALIA ABC Western Australia** in EG 1056, "PM" pgm w/economic nx re Aussie land council; hurricane effects on oil industry, Trivia quiz, ABC nx 1100, Aussie Home Security, f-p (Barbour 9/26)
- 8098-lsb **ARGENTINA R Rivaderra** Buenos Aires in SP 0630, tlk, ID 0632, SP ballads, play-by-play futbol coverage noted earlier at 0200, f, alternate to 15820 (Alexander PA 9/18)
- 9315nf **SRI LANKA VOA** relay in HD \*1600-1659\*, ID at s/on, ment "Hello India" in EG, xmsn consisted of mostly tlk w/mx breaks, fair w/QRM, //12155 much better, moved from 15265 (Treibel WA 9/23)
- 9330 **SYRIA Radio Damascus** in EG 2030, mostly Mideast mx after ID at t/in, info pgm re ancient cities mixed w/musical sound bits, poor modulation but mx copied OK, f (Delmage AB Canada)
- 9400 **BULGARIA R Bulgaria** in RS 0350, nx, promo for AM rock mx pgm, ID 0401 (Caras ME 9/10)
- 9410 **CYPRUS BBC** relay Liamassol in EG 0213, pgm re Ramadan traditions in UK, f (Wood TN 10/16)
- 9440 **CHINA CRI** in Chaoshou dialect via Kunming 1115, tlks, ID, CRI website, fair (Taylor WI 10/14)
- 9470 **INDIA AIR National Channel 1** Aligarh in HD 2303, nx, OM w/acapella song, long tlk, Hindu mx with YL singer, fair, //9425 (Taylor WI 10/12)
- 9480 **RUSSIA R Rossii Home Service** relay Moscow in RS 0254, OM tlks just before ToH, mx bridge to time pips, fanfare, ID "R Rossii", into nx?, fair (Taylor WI 10/11)
- 9495 **IRAN V of Justice** in EG 0208, nice ID, review of US Press, emphasis on problems of US Govt coping with Hurricane Katrina, nx headlines, s/off ancmt 0255, mx to 0300, IS, ID, NA, vg (Delmage AB 9/30)
- 9505 **CUBA R Rebelde** Havana in SP 0127, tlks, R Rebelde jingle, nx, interview, f-g (Taylor WI 10/14)
- 9520 **NEW ZEALAND RNZI** in EG 1135, "Mailbox" w/Tony King's DX report, poor (Park HI 9/13)
- 9525 **ASCENSION ISLAND Star Radio** (Liberia) relay in EG/Vern 0825-0900\*, "Meet the Candidates" interview w/member of the Labor Party re Oct elections, tribal chants (Howard CA, Fiora ITALY)
- 9555 **SAUDI ARABIA BSKSA** Riyadh in AR 2035, pop mx, morality? Drama, //9870 (Crisler-Smith 9/20)
- 9580nf? **HUNGARY R Budapest** in EG 2230, tribute pgm "Day of Remembrance" for HG generals executed in 1847 war of independence (Branco NY 10/6)
- 9580 **AUSTRALIA RA** in EG 1230, C&W mx w/YL & OM talkovers, phone interview (Bishop OH 9/24)
- 9605 **VATICAN CITY VR** in SP 0325, tlk re Ramadan & Christianity, ID 0330, faint (Wood TN 10/16)
- 9640 **RUSSIA V of Russia** Novosibirsk in CH 1328, IS Moscow bells, ID, nx? (Taylor WI 10/12)
- 9675 **GERMANY IBRA** Relay via Juelich in Hausa/FR 2024, West African mx, address in Nigeria, sked(p), into FR w/ID and intro by OM, ezl mx hosted by DJ, f-p (Taylor WI 10/12)
- 9680 **INDONESIA Kang Guru** EG pgm via RRI Jakarta in EG 1002, local ballad, OM/YL banter, pop mx, jingle ID, talks, rx of "That's What Friends Are For", ment "Australia Aid", pgm sked for next week, regular RRI pgm resumed at 1022, POB 3095, Denpasar QTH (Berg MA, Barbour NH, Howard CA) ED: Howard rpts the usual time slot for the KGRE pgm has been 1000-1022 but Ramadan pgming preempted KGRE beginning in October so it will be necessary to wait until after Ramadan to see if KGRE gets back on, reception has been rptd as poor to fair by the 3 reporters..
- 9690 **SPAIN China R Int** relay in EG 0335, poetry readings from listeners' submissions and regular mailbag, ID 0337, into feature "Who, What, When, Where, Why" at 0340, good (Wood TN 10/16)
- 9705 **INDIA AIR** Panaji in EG 2358, mx, ID, mostly tlk about earthquake, weak (Montgomery PA 10/8)
- 9725 **AUSTRIA V of Vietnam** relay Moosbrunn in EG 1717, ID, VT traditional mx, s/off ancmt for EG xmsn 1727, dead air to 1730 when pgm in VT signed on w/NA, vg (Delmage AB Canada)
- 9725 **COSTA RICA World University Network** in EG 0341, taped cmntry by the late Dr. Scott on St. Paul, Ephesians, and the terrors by night, vg (Wood TN 10/16)

- 9775 **ARMENIA V of Armenia** Yerevan in GM/EG 1823-1845\*, t/in to end of GM service, IS, ID, into EG service 1830 w/sked, nx re Sept 25 elections, constitutional reforms, cmntry on Armenian/Azerbaijan national security affairs, mx before s/off, muddy audio, fair at best using USB (Barbour NH 9/26)
- 9830 **JORDAN R Jordan** in AR 1907, nx, local wx, march theme, IDs, AR song, f (Jaar QUE Canada)
- 9860 **VATICAN CITY V of Russia** relay in EG 0345, waltzes followed by nx of Iraqi constitution and comparison having US forces in Iraq w/the reconstruction period in the South after the Civil War, ID as "Voice of Russian World Service", very good (Wood TN 10/16)
- 9865 **MOROCCO R Farda** relay in Farsi 0401, skeds, website, rap mx, several IDs, vg (Wood TN 10/1)
- 9870 **AUSTRIA RAI** Moosbrunn in EG 0133, "Report from Austria Weekend", interview (Bishop OH 9/25)
- 9885 **NEW ZEALAND RNZI** in EG 0918, Parliament election coverage, vg (Park HI 9/17)
- 9885 **BOTSWANA VOA** relay in EG 0352, tribal singing, interviews, "Africa World Tonight", TC, ID, nx, nice mx w/a cappella version of "I'll Fly Away" (Wood TN 10/16, D'Angelo PA 10/15)
- 9990 **EGYPT R Cairo** in EG 2145, ancmts, energetic AR mx, obliterated by WWCR Nashville s/on at 2158 and it's splatter from 9985 fgy, fair until 2158 (Ronda OK 9/24)
- 11570 **PAKISTAN R Pakistan** Islamabad in EG 1602, nx to 1610, cmntry, muffled audio (Delmage AB 9/5) in Urdu 1728-1903\*, Koran., talks, ID, closing ancmts, NA, p (D'Angelo 10/15, Jaar QUE 10/1)
- 11650 **IRAN VOIRI** Kamalabad in EG 1615, mailbag pgm featuring phone call to listener in Scotland, "News Headlines", s/off ancmts and sked at 1624, good, //9635 fair (Delmage AB 10/9)
- 11690 **SOUTH AFRICA R Okapi** via Meyerton relay in FR 0419-0559\*, YL/OM tlks, brief instrum'l mx, jingle IDs, Afro pops, into Lingala dialect 0435, p-f (D'Angelo PA, Alexander PA, Wood TN)
- 11690 **JORDAN R Jordan** Al Karanah in EG 1458-1532, pop mx, 2 pips, TC, and ID at 1500, nx, also ID for FM outlet and return to pop mx pgm, good (D'Angelo PA 10/9)
- 11695 **ASCENSION ISLAND Radio Star** (Liberia) in EG 2110, nx, sports by H.S. Willing (Fraser ME 9/12)
- 11710 **ARGENTINA RAE** General Pacheco in EG 0210, tangos, Argentine nx, "This Day in History", sked, address, QSL info, sports review, IS, IDs in several langs, NA, into FR 0305, exc (Delmage AB 9/28)
- 11735 **TANZANIA V of Tanzania** Zanzibar in EG/SH 1755-2059\*, EG nx to 1810, IDs, then into SH lang, talk and local Mid-East style mx, s/off w/NA and SH ID "Hi Sauti Tanzania Zanzibar" (Lare MI 9/20, Alexander PA 10/1, Barbour NH 9/26) in EG/SH 1800 w/relay of "Spice FM" programming, nx in EG to 1810 w/return to pgming in SH (Berg MA 10/8, Brandi NJ 9/30, Delmage AB 9/22, D'Angelo 10/13)
- 11820 **SAUDI ARABIA BSKSA** Riyadh in AR 2045, nice Koranic recitation, relig tlk w/Koranic verses, //11915, both fgys very good (Crisler-Smith MD 9/20)
- 11840 **GUAM TWR** relay Agana in EG \*0812, organ mx, IS, ID, religious pgm, weak (D'Angelo PA 10/16)
- 12045 **SINGAPORE R Japan** relay in JP 1622, E-Mail addr, sked, interview, f (Crisler-Smith MD 10/7)
- 12065 **RUSSIA R Station Tikhiiy Okean** Vladivostok in RS 0853, tlks, mx, clear ID, vg (Howard CA 10/14)
- 12080 **BOTSWANA VOA** relay in EG 0426, sports nx -tennis and golf- interesting pgm abt the raid on Harpers Ferry, VA by John Brown, f-g (Wood TN 10/16)
- 12095 **ASCENSION ISLAND BBC World Service** relay in EG 1916, "Focus on Africa" - cmntry on civil servants strike in Malaysia, g (Fraser ME 9/12)
- 12115usb **ICELAND RUV** Reykjavik in IC 2302-2330\*, OM/YL w/nx and what sounded like interviews, IS at s/off, fair (Barbour NH 9/23)
- 15090 **KUWAIT Radio Ashna** via VOA relay in Pashto 1602-1655, nx w/some EG, ID 1641 (Caras ME 9/9)
- 15105 **THAILAND VOA** relay in EG 1529, ID, US pop rx, call-in requests (Caras ME 9/20)
- 15140 **OMAN Sultanate of Oman Radio** in AR 1505, speech by govt minister, applause, many mentions of Oman, nx relating to the Sultanate including relations w/Tunisia, weak to fair (Jaar QUE 10/1) in AR 1432-1503, YL hosting pop mx pgm featuring US pop stars, bells 1500, ID, nx, p-f (D'Angelo PA 10/9)
- 15190 **PHILIPPINES R Pilipinas** in Tagalog 1840, speech delivered to a crowd, cheering, some mx, several IDs "PBS, Radyo Pilipinas Voice of the Philippines", f-p (Howard CA 10/8)
- 15300 **FRANCE RFI** Issoudon in FR 1140, easy listening pop mx selections, YL and OM in informal banter w/laughter and joking (Branco NY 10/2)
- 15360 **UNITED KINGDOM R Canada Int** relay via Rampisham in EG 1530, interview pgm by Ian Jones on the future of the Gaza Strip, fair (Fraser ME 9/19)
- 15430 **GERMANY Golos Rossii-Radiokanal Sodruzhestvo** via Juelich relay in RS 1445-1459\*, full IDs, two OMs w/talks re Estonia, Belarus, and Ukraine, acoustic mx 1457, f-g (Barbour NH 9/26)
- 15605 **FRANCE RFI** Issoudon in EG 1705, nx rpts of African rebel groups, f, //17605 (Fraser ME 9/15)
- 15640 **ISRAEL V of Israel** in EG 1914, rpt that Palestinians are rushing into Gaza, f, //11590 (Fraser 9/12)

- 17715 **AUSTRALIA RA** in EG 0010, call-in talk show, ID 0010, talks about PNG satellite communication relay station, relaying the Commonwealth Games, solid copy w/ some fades (Montgomery PA 10/10)
- 21600 **SAUDI ARABIA BSKSA** Riyadh in FR 1456, news, program re Ramadan interview with holy man, excellent copy (Crisler-Smith MD 10/7)

## Clandestine/Opposition Stations

- 6350 **ETHIOPIA V of Tigray Revolution** via Mekele in Tigrinya \*0356-0415+, s/on with flute IS, talk at 0400, weak-poor in noise and UTE, better on //5500 (Alexander PA 9/18)
- 11530 **MOLDOVA V of Mesopotamia** via Kichinev relay in Kurdish 1257, OM oratory over traditional mx, very martial tone (Crisler-Smith MD 10/7)
- 15660 **RUSSIA Tensae Ethiopian V of Unity** via Samara relay in Amheric \*1500, Horn of Africa mx bits with OM b/w items, long talks, f (Barbour NH 9/26)
- 15675 **RUSSIA V of Liberty Eritrea** via Samara relay in Tigrinya 0615, HOA mx, tlks, f (Fiora ITALY 9/25)

## Digital (DRM) Reception

- 6085D **GERMANY Bayerischer Rundfunk** Ismaning in GM 2107, ID 2110 as "Bay-fuenf", wx rpt, nx, talk re possible Grand Coalition b/w two major parties that both lost the recent election, item re EU, football results, wx in Bavaria, nx headlines every 15 minutes, S/N hovering around 15 dB, marginal with about 35-40% of audio getting through, S/N up to 18-19 dB by 2130 and audio 95+ audible to the point of being listenable, s/off 2205 (Brandi NJ 9/27)
- 15896D **GERMANY bit eXpress** at 2018, pop mx, only occasionally breaking thru and never for more than 10 seconds; S/N around 9 dB, going as high as 12, when audio tends to break through periodically, but not good enough for quality listening, xmtr only 100 watts per website (Brandi NJ 9/27)



# Company Store

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Hello again everyone. First of all, I want to remind everyone about the Company Store's special on 2006 *Passport to World Band Radio*. We are offering the book at the same price that we sold them in 2005, **\$18.90** not including shipping. Shipping for the book will be \$4.00 for the U.S. and \$8.00 for Canadian orders. Anyone ordering the book from outside of Canada and the U.S. should contact me ahead of time so that I can find out what the actual shipping costs will be. Thanks to our suppliers, we're able to hold the price to the same level as we've offered the book at for the last couple of years. In addition, I'm extending the deadline for orders at this price postmarked by **15 December, 2005**. Also, I have word on the 2006 *WRTH*. We will be offering them at a reduced price as well. Until 31 January, 2006, the price to club members will be **\$26.90**. That's a \$3.00 savings off the regular price. Shipping charges will be the same as for *Passport*. Finally, a number of members have expressed an interest in having the "Store" carry ball hats. I've worked out a deal with our supplier for normal cloth caps...with one difference. Instead of the usual plastic size adjustment tab in the back these will have velcro instead. The hats will cost \$12.00 with \$3.00 shipping to U.S. addresses and \$6.00 to Canada. If you're ordering from somewhere else, please get in touch with me so I can find out exactly how much the shipping will cost. That will do it for now. Hope everyone has a good one. I'll be back next month. Until then, good listening. Mike



## On the Short Waves by Jerry Berg

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> Update, October 22, 2005—Under "Articles, Research, etc.," "Pot Pourri," some memories of Gilfer Associates, Inc., a favorite shortwave mail order house in the 1960s, 1970s and after. Oliver P. (Perry) Ferrell and xvi. Jeanne began the business circa 1952 and were well-known in the DX community. Perry died in an automobile accident in 1984 and Jeanne carried on the business until she sold it in 1994. Gilfer closed in 1997. Here are some Gilfer catalogs from 1970 and 1974 (I'm still using those Telex CS-7 headphones). R.I.P., Gilfer and Perry Ferrell.



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The following items are available through the Company Store. Shipping is extra as noted.

## Publications

<b>Shortwave Listening Guidebook</b> by Harry Helms. A beginners guide to shortwave listening covering equipment and more.	\$19.95 +2.00 s/h US +4.00 s/h Can.
<b>Joe Carr's Receiving Antenna Handbook</b> A guide to high performance receiving antennas from longwave to HF and VHF.	\$19.95 +2.00 s/h US +4.00 s/h Can.
<b>Joe Carr's Loop Antenna Handbook</b> Comprehensive but readable guide to understanding and building loop antennas.	\$16.50 +2.00 s/h US +4.00 s/h Can.
<b>Radio Monitoring: the How-to Guide</b> by Skip Arey. Guide for new listeners to MW, HF, VHF and above.	17.95 +4.00 s/h US +8.00 s/h Can.
<b>Passport to Worldband Radio 2005</b> Great source of information about shortwave stations, frequencies in use and schedules.	\$20.95 +4.00 s/h US +8.00 s/h Can.
<b>World Radio and TV Handbook 2005</b> Long considered to be the bible for shortwave listeners.	\$27.95 +4.00 s/h US +8.00 s/h Can.
<b>Fine Tuning's Proceedings Reprint Catalogs</b> Complete list of articles from this hobby classic published between 1988 and 1995. Choose from 1) 5 page abridged version with article titles or 2) 20 page deluxe version with article abstracts.	1) \$2.00 ppd 2) \$5.00 ppd
<b>NASWA Country List and Awards Program Booklet</b>	\$3.00 PP US \$5.50 elsewhere
<b>NASWA T-Shirts</b> Return of a favorite in NASWA blue with the club logo.	\$14.00 S-XL 16.00 XXL +4.00 s/h US +8.00 s/h Can.
<b>NASWA Sweatshirts</b> Return of a favorite in NASWA blue with the club logo.	\$22.00 S-XL 24.00 XXL +8.00 s/h US +16.00 s/h Can.
<b>NASWA Coffee Mugs</b> 11 oz. white mug with the club logo on two sides. Return of a favorite with the club logo in NASWA blue.	\$5.50 +5.50 s/h US +11.00 s/h Can.

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