

The **NASA** Journal

VOLUME XLX NUMBER 6

JUNE 2010

**POLSKIE RADIO
WARSZAWA**

Heraldic
arms
of Polish
Towns

BIELA KRZYWA



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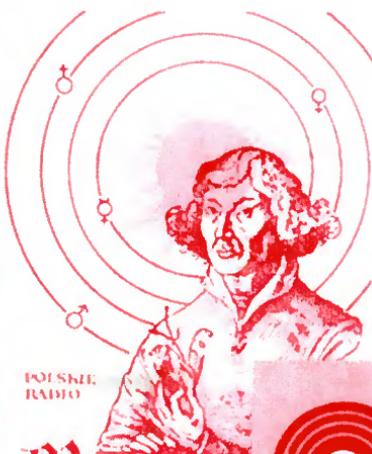
ŁĘCZYŃ



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**POLSKIE
RADIO**

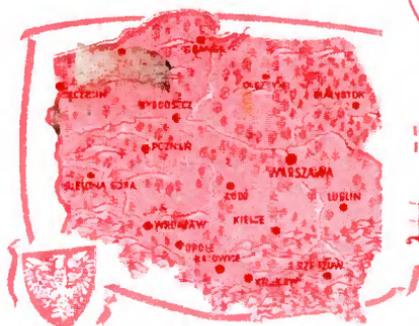


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The C. Crane CWF WiFi receiver gives you a simple and economic way to enjoy Internet radio. The CC WiFi combines straightforward style with all the convenience of tuning in over 11,000 radio stations from around the world. The CC WiFi radio has excellent audio in a small footprint that fits nicely on a desktop, kitchen counter or bedside table. There's a 3.5mm headphone socket for private listening and a 3.5mm line-out for use with your component speakers. It has a full-range, 5 watt, 8 ohm dynamic speaker (2.5 inch). Features 99 memory presets, remote control, csp two-line backlit LCD and alarm clock. The CC WiFi also has an Ethernet port for a hard-wire network connection (requires a standard Cat5 network cable, not supplied). Supported file formats include: RealAudio, Microsoft Windows Media™ Audio, MP3, AAC MPEG 4, AU, WAV and AIFF. Operates with the Reciva.com website. Size: 6.5 x 3.9 x 3.9 inches 1 lb. **CWF Order #5181 \$129.95**

GRUNDIG G4000A



The legend of the famous Yacht Boy 400 lives on in this latest version called the **Grundig G4000A**. The Grundig G4000A, like its predecessor, is simply our best selling radio here at Universal. We think the reason is value. Dollar for dollar no other radio offers this much performance and so many features. Coverage is complete including long wave (144 - 353 kHz), AM band and shortwave from 1711 to 30000 kHz. FM stereo is provided to the headphone jack. A thumb wheel knob on the side of the radio provides smooth single sideband (SSB) tuning. The illuminated digital display provides tuning resolution at 1 or 5 kHz on shortwave. Two bandwidths are featured. The narrow position affords maximum selectivity, or the wide position may be chosen for best audio fidelity. This is a useful feature on today's crowded shortwave bands where stations are near each other in frequency. The keypad will quickly get you to any frequency or store up to 40 of your favorite stations in the presets. The presets may be accessed directly or you can scan through them by using the radio's second set of Up/Down buttons. The G4000A can also frequency search. The dual digital clock is visible while the radio is playing. Other refinements include: snooze and sleep buttons, lock, High/Low tone switch, Local/DX switch, and 9/10 kHz MW scan selection. External jacks are provided to earphone, antenna and 9 VDC input. The G4000A comes with: AC adapter, stereo earbuds, wind-up antenna, *Owners Manual*. Requires six AA cells (not supplied). Titanium colored finish. 8"Wx5"Hx1.5"D. 1 Lb. 5 oz. (203x127x38 mm). One year limited warranty. **Order #4000 \$129.95**

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By J. Figliozzi. This book covers all of today's formats: live on-demand, podcast, satellite, Internet, digital, analog, AM, FM, SW and wi-fi. A great guide to what can be heard how, where and when! Spiral bound. 112 p. ©2008. **Order #0275 \$24.95**

WORLD RADIO TV HANDBOOK 2010

This long established publication is filled with schedules, frequencies and addresses of shortwave broadcast stations. Organized by country, plus frequency listing of shortwave broadcast stations, radio club info., plus receiver reviews. *WRTH Pub.* 2010 64th Edition. List \$34.95. **Order #3010 \$29.90**

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AN200 and FR350 are also sold separately.

PERSEUS SDR Direct Sampling HF-Receiver



The Microtecom Perseus is a cutting-edge, multimode, software defined receiver covering 10 kHz to 30 MHz. Enjoy world class performance: 3rd order IP, +31 dBm, Sensitivity: -131 dBm, Dynamic Range: 104 dB (BW 500 Hz CW). Nine six-pole front end bandpass filters prevent overload of the A/D converter. There is a 3 step attenuator plus switchable low noise preamplifier. An impressive full span lab-grade spectrum display function is featured. An almost magical spectrum record feature allows you to record up to an 1800 kHz portion of radio spectrum for later tuning and decoding. A Wide/Narrow noise blanker has recently been added. The audio source is via your PC soundcard. The Perseus operates from 5 VDC and comes with an international AC power supply, AC plug converter, SO239 to BNC RF adapter, USB cable and CD with software and detailed manual. Made in Italy. For full Perseus details and screen shots please visit: www.universal-radio.com **Perseus Order #0122 \$1199.95**

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NASWA Notes

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

Summer DX gatherings are just around the corner. Now is a good time to begin planning to attend. The 17th annual Madison-Milwaukee Get together for DXers and Radio Enthusiasts will take place on Saturday, August 21, 2010 starting at 1:00 PM until whenever. This year's venue is Oak Creek, Wisconsin (suburban Milwaukee) hosted by **Tim Noonan**. This is an informal event to meet and socialize with other radio hobbyist and enthusiasts. For more information, please contact member Tim at <DXing2@aol.com>. The National Radio Club and the Worldwide TV/FM DX Association will hold a joint 2010 convention on 27-29 August 2010 at the Brookwood Inn in Bushnell's Basin, just east of Rochester, NY. More details are available from **Scott Fybush** at scott@fybush.com or 92 Bonnie Brae Avenue, Rochester, NY 14618. Keep your eye on The Calendar of Events for further updates on these gatherings.

Adventist World Radio (AWR) is running its annual DX contest through the month of July 2010. This year's event is entitled, "Station Profiles". It consists of five parts. The first part requires a list of five different radio stations for which you would like to have a "Station Profile" presented on air in a coming edition of "Wavescan". Next, you are asked to write a short paragraph about each of the five stations you have chosen in the above list, and state why you have chosen that particular station. The third part asks you to search your QSL collection, and where possible, provide a photocopy of a QSL from each of the five radio stations in your above list. The fourth part requires you to send in at least three reception reports on any transmission from AWR radio on any station, shortwave, mediumwave and FM. Finally, where possible, you are invited to include three radio cards for the Indianapolis Heritage Collection with your

contest entry. All contest entries should be postmarked at your local post office up to the end of the month of July. Return postage in the form of currency notes in an international currency, or mint postage stamps, or IRC coupons would be welcome. The awards for this year's contest will be similar to all previous contests. There will be a special award for the world winner, one of the Jerry Berg radio history books; and *World Radio TV Handbook 2011* for each continental winner. In addition, there will be other special awards as well as AWR souvenirs and radio curios for many participants. All reception reports will be verified with a specially endorsed AWR QSL card. The only address for the AWR Station Profile DX Contest is: Station Profile DX Contest, Box 29235, Indianapolis, IN 46229, USA.

Mike Barraclough notes that the complete A2010 season schedules are now available to download, for free, from the World Radio Television Handbook ("WRTH") website: http://www.wrth.com/updates_new.asp. The update, prepared by Sean Gilbert International Editor for the WRTH, is 100 pages and 400kb. It consists of International and Clandestine/Target schedules, Frequency list, selected Language broadcasts and DRM.

Don't forget that the club now has another way for members to keep in touch through its new Facebook page. Under the leadership of **Richard Murphy** <richard.murphy@swri.or> this group is intended for social interaction between the club members and will not be used to publish loggings, articles, or other materials that would normally appear in The Journal, the NASWA Yahoo group, or the Flashsheet. While the existence of the group is visible to all Facebook users, the online postings are available only to group members and group members must be NASWA members. Comments and suggestions from

Our Motto: Unity & Friendship

the membership are welcome. To locate the NASWA Facebook page, simply enter "North American Shortwave Association" into the search box on the top toolbar. If you are into social media, give it a try. Also, let us know what you think of this new outlet for club members. Thanks!

The Danish Shortwave Club International (DSWCI) recently published the latest edition of the Domestic Band Survey (DBS). Edited by **Anker Petersen**, the DBS continues the long-standing, excellent tradition of being a very useful and reliable DXing resource. At only US\$7.00, the electronic *Domestic Broadcasting Survey* continues to be the "best buy" of any hobby resource on the market today. Add the monthly updates through the graphical companion *Tropical Band Monitor* as a bonus and you have the deluxe package of DX resource tools. A full review will appear in the Shortwave Center. The 28-page A-4 size *Domestic Broadcasting Survey* is available in electronic (PDF format) and paper forms. The electronic DBS-12 is available via e-mail for just US\$7.00, EUR 5, or 4 International Reply Coupons (IRCs). The print edition is available for only US\$12.00, EUR 9, or 7 IRCs. The DBS-12 can be ordered direct from the club treasurer at the following address: DSWCI, c/o **Bent Nielsen**, Egekrogen 14, DK-3500 Vaerloese, Denmark. The club offers an option to pay for the DBS through PayPal. If you want to pay via PayPal, you can contact **Andreas Schmid** at schmidandy@aol.com for complete ordering information.

An electronic *Flashsheet* clean up item is next. **Paul Brouillette** please contact me via e-mail. Your weekly copy of the Flashsheet keeps bouncing no matter what alternative address(es) I try. Also, **Raymond Charles** needs to contact since I am getting a message your e-mail address no longer exists. Thanks for your help.

Finally, check out the free book offered by NASWA member and former columnist **T. J. "Skip" Arey** N2EI. Originally announced at the Winter SWL Festival, Skip's book — *Radio Monitoring A How To Guide* — is freely available under a Creative Commons license. The club is glad to provide a forum making this hobby classic available free of charge. Visit the club's website and follow directions or use the following link <http://www.naswa.net/areybook.html>. Thanks to Uncle Skip for making his book available and our own Ralph Brandi for the behind-the-scenes work to make it happen. Members are encouraged to download Skip's book and enjoy.

Please remember to direct all communications about subscriptions, bulletin delivery issues, Father's Day present ideas, the use of PayPal as a payment method, etc. to **Bill Oliver** at the club's Levittown address or to his new electronic address, billoliver@verizon.net. The regular postal address is the familiar 45 Wildflower Road, Levittown, PA 19057. Inquires 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. 

FRENDX: Twenty-Five Years Ago (June 1985)

The FrenDX cover featured a collection of Radio Canada International QSL cards issued over the years. Bill Whitacre wrote about his visit to Radio Australia. In Bill Cole's Computer Corner, Paul "Pop" Costello shared his loggings program for the TI99/4A computer. Bill noted that at 79, Paul was the club's most senior computing DX'er. In James Herkimer's Technical Topics column, Gerry Thomas provided information about replacing the Icom R-70's PBT filter. In closing Jim noted that this was his final column as editor. The latest version (May-Aug '85) of English language broadcasts to North America compiled by Roger Legge was published. Jerry Lineback's Scoreboard column featured 27 members with 200 or more countries heard with 11 of them having 200 or more countries verified. James Young with 230 heard and 220 verified lead the list in both categories. Wally Treibel noted a significant drop off in logs from 302 the prior month to 124 loggings this month. In Log Reporters, new editor John Henault thanked 34 members who sent in their loggings this month. 

Calendar Of Events

- Jun 5 Meeting. The Reading International Radio Group** will hold a meeting on Saturday June 5 in Room 3, Reading International Solidarity Centre, 35-39 London Street, Reading, England at 2.30 p.m. All are welcome. Contact: Mike Barraclough at <mikewb@dircon.co.uk> or phone 01462 643899.
- Jun 11 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.naswa.net/badx/>
- Jun 12 Meeting. The Columbus, Ohio NASWA Chapter** will be meeting at Universal Radio in Reynoldsburg at 10:00 AM. Further information is available from Mike Rohde at 614-527-1398 or via e-mail at merohde@columbus.rr.com. The purpose will be to gather other SWL/ DX listening enthusiasts together for informative discussions and sharing of knowledge and information about the hobby.
- Jun 19 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>>
- Jun 21 Meeting. Tar Heel Scanner/Shortwave Listening Group.** Red, Hot and Blue restaurant, 6615 Falls of the Neuse Rd., Raleigh, NC. Dinner @ 6:30PM, meeting @ 7:30PM. Meetings the 3rd Monday of each month. Info, Curt Phillips, 919-773-4522, <mailto:curt@nerdster.net>curt@nerdster.net.
- Jun 25 Meeting. The Reading Area DXers** will hold another meeting at The Flying Dog in majestic Earlville, PA (Route 562 and Airport Road). Members gather around 5:30 PM near the bar area before heading into the restaurant for dinner and further discussions. Contact Rich D'Angelo (2216 Burkey Drive, Wyomissing, PA 19610; 610-678-0937; rdangelo3@aol.com) for further information about future meetings.
- Jun 28-29 Conference. The 8th annual Future of Broadcasting** will bring together the key players in the broadcasting sector to discuss the challenges, opportunities and threats to their business models and how the industry must adapt if it is to take full advantage of the digital world. It will take place at The Waldorf Hilton, London on 28th & 29th June 2010.
- Jul 24 Meeting. The Reading International Radio Group** will hold a meeting on Saturday July 24 in Room 3, Reading International Solidarity Centre, 35-39 London Street, Reading, England at 2.30 p.m. All are welcome. Contact: Mike Barraclough at <mikewb@dircon.co.uk> or phone 01462 643899.
- Aug 21 Get Together. The 17th annual Madison - Milwaukee Get Together for DXers and Radio Enthusiasts** will take place on Saturday, August 21, 2010 starting at 1:00 PM until 10:00 PM CDT. This year's venue is in Milwaukee organized by Tim Noonan. This is an informal event to meet and socialize with other radio hobbyist and enthusiasts. Plans include a dinner at a local restaurant about 5:30 PM and returning for the traditional cake and chat. Come when you can, and leave when you must. More information will be available closer to the gathering.
- Aug 27-29 Convention. The National Radio Club and the Worldwide TV/FM DX Association** will hold a joint 2010 convention on 27-29 August at the Brookwood Inn in Bushnell's Basin, just east of Rochester, NY. Rooms are just \$65/night for up to four people and breakfast is included. More details are available from Scott Fybush at scott@fybush.com or 92 Bonnie Brae Avenue, Rochester, NY 14618.

Sep 30 *Conference.* **The European DX Council Conference** will hold its annual meeting September 30 to October 3, 2010, in Ankara, Turkey. The venue of the Conference is the Hotel Dedeman in Ankara (Address: Akay Cad. Buklum Sok No. 1, Ankara 06660, TURKEY; phone : + 90 312 416 88 00 and Fax : + 90 312 418 13 86. Homepage : www.dedeman.com). Room reservations to: Mrs. Ozlem Gollu at ozlem.gollu@dedeman.com. Rates are single room: EUR 91,80/night, including VAT and Full Breakfast; double room: EUR 113,40/night, including VAT and Full Breakfast. The Conference Fee is : EUR 96,-- per person. The Conference Fee EUR 96,-- per person. For further information please do contact: Tibor Szilagyi, EDXC Secretary General, E-Mail: tiszi2035@yahoo.com.

Mar '11 *Convention.* **The 24th Annual Winter SWL Festival**, sponsored by NASWA, will be held at the Holiday Inn—The Inn at Towamencin on 4 and 5 March 2011. Richard Cuff and John Figliozzi co-chair the organizational committee. Although it is early, you don't want to miss this special Fest event. See you there!

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). 

NASWA Flashsheet

Are you getting the latest hot information about what is happening on the shortwave bands? If you have not signed up for the club's electronic *Flashsheet* service, you are missing out on timely news and information about the DX scene that will enhance your shortwave listening pleasure. 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 **Mark Taylor**, markokpik@tds.net. The club's electronic *Flashsheet* helps members stay on top of the action with breaking shortwave news and information. The electronic newsletter is an excellent supplement to the monthly *Journal* for the timely dissemination of DX loggings and breaking news.

NASWA Yahoo Group

Join moderator **Dan Ferguson**, the club's Yahoo Group, and other club members to discuss reception of shortwave radio broadcasts, program content, propagation, reception conditions, loggings, hot news and information as well as radio equipment and accessories and any topics related to shortwave radio in general. Please keep in mind that loggings, QSL news, schedule changes should also be reported to the appropriate column editor of the *Journal* for publication. This forum is a supplement to, not a replacement of, The *Journal*. Subscribe by going to <http://groups.yahoo.com/group/NASWA/>. Any club members wishing to participate in the NASWA Yahoo Group, moderated by Dan Ferguson (k4voa@zerobeat.org), but not interested in registering direct with Yahoo should contact Dan direct by e-mail for further information. Dan can manually add you to the group. 

Musings

Please e-mail your Musings to Rich D'Angelo at rdangelo3@aol.com or by postal mail to 2216 Burkey Drive, Wyomissing, PA 19610.

Ed Insinger <lenapeland@aol.com>, New Jersey

I read the April musings and lamentations regarding the state of affairs for fellow hobbyists with concern. If I were a baseball fan, I guess my situation would be stated as follows: Passport To World Band Radio Edition 2009 is the last publication of that valuable resource for the shortwave listener/DX'er (of those remaining in the hobby). Strike One. Radio Sweden announced the cancellation of its English shortwave broadcasts to North America, which was always a pleasure for me to listen to for its insightful news, views and special features. Strike Two. I have not been faring too well of late in the QSL department, seeing a marked drop in responses to my reception reports sent via the USPS route. And that was before the volcanic eruption beneath Iceland's Eyjafjallajokull glacier on April 16th. I sympathize with the stranded tourists and business travelers and can relate in a different manner, since any potential QSL responses from the European countries for my reception reports will be subsequently delayed. Strike Three. From a baseball game's perspective, three strikes and you're out. The third strike can be argued, but ultimately the umpire rules and gets his way. However, tomorrow there's another game and by the same token, more radio waves will be reaching my antenna, so I'll pick myself up and try again. It has been several years now since I resigned myself to the fact that shortwave was declining, but I have chosen to remain in the hobby and listen as before, come what may.

Jim Evans <evans.j.w@att.net>

I've used the Wellbrook since last November, and I'm very pleased with its performance. I have the ALA100M which requires the user to build the physical loop. I've tried a number of configurations, and I'm currently using a 20' loop supported by a PVC frame.

The Wellbrook (like other well designed loops) produces a slightly weaker signal than the random wire, but the noise is lower, providing just enough of an advantage to make some signals readable when they might otherwise be lost at noise level. This varies by frequency, with dramatic results on longwave (where I DX beacons), and good results on 120 meters and 60 meters. As the frequency increases, the benefits are less pronounced, especially above 15 MHz, where the loop is inferior to my 90 random wire.

Another advantage is the ability to move the loop around to avoid local noise. I have to mount mine in the attic due to a HOA that forbids outdoor antennas. I've found one excellent location in a corner of the attic far from most sources of interference. I was able to take down a 200' wire that had been sneaked out a second floor window and run along the top of a 6' high fence. It was OK in the Winter but became a noise magnet between April and September.

Check the Wellbrook web site for a list of their models. The prices may at first appear a bit high, but the product is definitely worth the cost.

Michael Agner <ka3jjz@yahoo.com>, Maryland

Not long ago, I looked at the links found on the NASWA website, and saw that they lacked a great deal of detail. In addition, some of the links were dead. So I got in touch with Ralph Brandi, got a sign on and got to work. The results can be seen here:

<http://www.naswa.net/links.html>

The first few links are the same; but once you get beyond the R390A site, things have been changed. A site listing past President Dan Ferguson's excellent spreadsheet listing many of the major broadcasters (and several not so big ones) is first and foremost. Personally I don't know how he keeps up with it, but every few days he seems to be issuing a new and updated version. It's as accurate a reference as you'll find, and certainly better than having a list that only changes a couple times in a season.

The rest are links to the MediaWiki™ site on Radio Reference. While the Radio Reference website is a long established one for scanner enthusiasts, there are HF forums as well. The Mediawiki website contains extensive HF related links that most anyone can edit (more on that in a moment).

These links point to articles (what pages are often called in wiki-speak) on just about every topic you could think of — anything from antennas and filters, propagation, software, receivers (past and present), related links and even an article about online radio, a topic that was quite popular at the 2010 winterfest.

The advantage to using this format is if you find a site that is missing, or a site that is no longer relevant, it's not Ralph's responsibility to update it. You can do this yourself. Create a (free) sign on on the Radio Reference website. The logon prompt is at the very top. You can then go to the MediaWiki title page at:

http://wiki.radioreference.com/index.php/Main_Page

and look for a link on the left that says 'log in/create an account'. Setup is automatic. Be sure to allow for cookies, and please no userids with underscores — it gives the login servers a problem. You can learn about the MediaWiki markup language via the links (anything in blue text) found here...

http://wiki.radioreference.com/index.php/Wiki_Help

If you have questions about using the MediaWiki markup language, please leave a message on the RadioReference private mail system for W9RXR (Bob — the wiki administrator) Bezking (his name is Ben) or myself (ka3jjz — Mike) and we'll walk you through it. This is a chance for you to make a contribution to making the NASWA links on the website even better and more comprehensive.

Brian Limbach <vze2664w@verizon.net>, Pittsburgh, PA

I have a question about Radio France International's QSL policy. Maybe you might be able to answer it or pass it on to Sam Barto for his reply. Do they still issue cards for correct reception reports?

Stephen Zolvenski, Ph.D., <s_zolvenski@hotmail.com>, 411 Wells Mill Drive, Apt. 79, Oxford, OH 45056

At the end of its 0000-0100 UTC broadcast, 2 May 2010 (6055 kHz), Radio Exterior de España (REE), announced they will be accepting reception reports. As you know, REE hasn't verified for years. This seemed to be encouraging news as Madrid is one of the last Western European broadcasters on shortwave, and it comes in fairly easily here in the Midwest. Then I began to think this may be the station's effort to gauge the extent of its listenership to justify its continued SW broadcasts. It's a typical tactic for international broadcasters, such as Radio Netherlands. They suddenly conduct a survey without much fanfare and then claim the poor results gave them the rationale to shut down the North American English service. So I would encourage all members to drop them a reception report, in hopes that it will keep their service alive. Postal address is: Apartado de Correos 156202, Madrid, Spain, ES-28080; e-mail: ree.rne@rtve.es.

What I find interesting about these broadcasts is that I learn as much about America as I do about the country that produces the programming. On this evening, they dedicated a classical music program to the American violinist Joshua Bell who was touring Spain. They mentioned he once played in a Washington, D.C. subway to prove the point that Americans don't include classical music in their lives. He collected \$43.00 in donations from the passersby, which is pretty cheap admission to hear him play.

Anyway, that's my two cents. Take it our leave it.

Edward Kolakowski emmk1@verizon.net

I'm a new member although a longtime SWL. I read most of May's Journal. I became intrigued with some of the Musings. I started SWLing in the late 50s and early 60s. My first real (non portable) SW radio was the Lafayette which I still have. I since added many portables and table tops in the 50+ years. I started collecting QSL cards in the early 60's but only selectively. My targets were the hard to get stations; Radio Brazzaville; Radio Leopoldville; Radio Australia; Radio Switzerland; Radio Portugal plus the usual suspects all around 1962 to 1965. When Portugal went liberal, I stopped soliciting QSL cards.

It became difficult identifying stations in the prior-to-digital age. At least what the average Joe could afford. My best radio is/was Hammerlund HQ-145XC. My favorite is a SONY ICF-SW77. I found some old IRCs which cost \$.15 each at the time. Somewhere I have Aerogrammes stashed away. I have to check with the USPS to replace my stock.

I don't know if you're old enough to remember when Popular Electronics had a SWL column and issued Call letters for members. Do they still have this club?

Gerry Dexter <gdex@wi.rr.com>, Lake Geneva, WI

60 meters - A run through the area 5 MHz and below around 0230 on 5/18 found signals only on 4840, 4885, 4915 and an open carrier on 4940. 4840 was strong, the rest very weak. 5050 was thought to be of interest at first but soon proved to be WWRB.

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

Based on Steve Zolvinski's musing above, I listened to Radio Exterior de España in May for the first time in many moons. Naturally, I sent off a reception report as part of the process. Although I have been receiving program schedules from them for years, they were dormant in the QSL department for a very long time.

QSL returns seem to have picked up a little this month. I hope the trend continues through the summer months. Here is this month's QSL news. Trans World Radio - Nauen verified an electronic report with a full data, including site, card from v/s Kalman Dobos in Vienna who previously replied electronically. Deutschlandfunk verified for a second time (first time responded to an electronic report this time to a postal report) with a full data Satellite card indicating 17 KW from v/s U. Reyler (?). The Voice of Mongolia verified with a full data "Sunset in the Winter in Western Mongolia" card and short personal letter from v/s Densmaa Zorigt, Mail Editor via registered mail. Densmaa included e-mail address: densmaa9@yahoo.com. The letter mentions testing Internet radio and welcomes comments and suggestions. The month closed with a couple of pirate verifications. Radio Mushroom ("Nuclear Powered Shortwave Radio") verified an electronic report with a full data electronic attachment reply mentioning in the accompanying e-mail "I see that you spotted a mushroom cloud last night. This seems to happen every time we tap into the core of a nuclear reactor and draw out 150 watts of pure nuclear energy ... If you spot a mushroom cloud in the future, you will know that Radio Mushroom was on the air." Finally, Captain Morgan - The Pirate Zone verified and electronic report with a full data electronic attachment of a pirate ship from Captain Morgan. 

Easy Listening

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Less shortwave usage a likely prospect at the BBC World Service

As you may know, the United Kingdom held parliamentary elections in early May, and the Conservative party is governing in coalition with the Liberal Democrats. One consequence of the election outcome—which likely would be the case no matter which party won—is a sharp reduction in spending across the UK government. This includes the Foreign Office, the agency that funds the BBC World Service; the Foreign office has already seen its budget cut by 3%, and the World Service Director, Peter Horrocks, has gone on record warning of cuts within the World Service.

In a recent *Financial Times* interview, Horrocks stated the World Service would look to emphasize Internet and mobile phone distribution platforms, and would cut shortwave usage in response to a 9% decline in the number of listeners tuning in via shortwave—from 177 million listeners to 161 million. It appears the bulk of this loss is from South Asia—where the Hindi audience fell 43% to 11.5 million listeners, and the Bengali audience also fell 43% to 8.7 million listeners. A check of the A-10 HFCC schedules indicates the BBC devotes 9 transmitter-hours daily to Hindi, 10 transmitter-hours to Bengali. Unfortunately the BBC didn't designate the languages for its entries in the A-05 or A-08 HFCC listings...I was hoping to compare transmitter-hours to see if the listenership was down due to a decrease in transmitter-hours.

Horrocks goes on to speculate that most shortwave services could be phased out over the next five years, though locations like Burma (Myanmar) and Somalia—with no prospect for a near-term replacement for shortwave—would continue to be served by shortwave for the “foreseeable future”.

Horrocks added, “Where people have access to our programs on FM, they shift to that platform and they no longer use shortwave. There is a powerful symbolism about universal availability, but if people haven't got the [shortwave] sets and they aren't listening, keeping it going for its own sake, for metaphysical reasons, doesn't make a lot of sense.”

The actual timing for shortwave phaseout elsewhere hasn't yet been determined, and wouldn't be sorted out until future funding levels from the Foreign Office were established.

On its website, the World Service highlights these ways of listening to the World Service—AM, FM, Shortwave, Online via PC, Digital radio, DRM, Internet radio, satellite radio, podcast, and mobile phone. Of course, not all of these are available to all listeners, but this serves to demonstrate how the BBC now has its eggs in multiple baskets...a far cry from, say, 15 years ago where shortwave was pretty much it.

It would seem the best way for NASWA members to lobby for the retention of shortwave would be to contact your local British consulate or embassy. Take time to describe why shortwave remains viable, especially as a backup to other technologies that remain prone to interdiction or outright failure, but also as a cost-effective approach for those without access to online or mobile technologies and living in areas where AM/FM stations aren't available. A list of British embassies, consulates, and other diplomatic posts appears at <http://www.fco.gov.uk/en/travel-and-living-abroad/find-an-embassy/>.

Thanks to Kim Elliott for providing the heads-up to the detailed Horrocks interview.

FIFA World Cup on Shortwave / International Broadcasting

Pretty much no matter where you turn, the FIFA World Cup will be a prominent feature of many broadcasters in June and July; the finals are scheduled for July 11th. It would appear that no international broadcaster with its principal language as English will be offering live game commentary on radio; in the USA, Sirius/XM satellite radio has those broadcasting rights.

Channel Africa

The official radio broadcaster for the World Cup is SABC—the public service broadcaster for South Africa, and the parent organization for **Channel Africa**. One would expect that the World Cup would figure prominently on Channel Africa programming over the next two months, but there have been no specific schedule announcements.

One Channel Africa program where the World Cup will be a featured topic is **Gateway To Africa**, a weekly program on African tourism airing Fridays 0900, Saturdays 0415, and Sundays 1715 and also available on-demand.

Australia (SBS)

Australia's public-service multilingual broadcaster, SBS, has radio rights to the World Cup, and SBS says it will be streaming the World Cup radio coverage live. The SBS website states that matches in the languages indigenous to the matches will be on FM; English language commentary will be on AM. Currently, the "listen live" option is active for two SBS digital radio channels, **Chill** and **PopAsia**.

Unfortunately, this will only benefit those living in Australia—as the SBS website will only provide the stream if you are located in Australia—called *geoblocking* in the trade.

It does not appear that **Radio Australia** will be airing live matches unless these are aired on the **Grandstand** program.

BBC World Service

While the World Service won't generally be airing matches live, there is a wide range of programming coming up with the World Cup as its subject. There will be no special shortwave frequencies for World Cup coverage, however.

Here's a list of the programming planned for the next month and a half regarding the World Cup; you'll have to consult the BBC World Service website for the regions of interest. Most (if not all) of the programming—even the Africa-specific programming—should be available on-demand via the World Service website as well.

Programs in advance of the tournament:

Africa Kicks: As Africa prepares to host the World Cup, the BBC goes on a journey across the continent's football 'factory'—the region in West Africa that produces the highest number of international players. Names like Didier Drogba of the Ivory Coast, Emmanuel Adebayor of Togo, Michael Essien of Ghana and Nwankwo Kanu of Nigeria, are known to fans around the world for their English Premier League and international exploits. **Africa Kicks** will focus on countries which have produced a wealth of football talent—and attract huge international business interest from across the world. **Africa Kicks** will explore the political, economic and football hopes, dreams and challenges of this region in a series of multimedia reports. From Monday 30 May on BBC World Service English's flagship programs for Africa including **Africa Have Your Say**, **Network Africa** and **Focus on Africa**. Also, this will air as part of **The World Today**, as well as for a range of language services—BBC Afrique, BBC Arabic, BBC Hausa, BBC Hindi, BBC Persian, BBC Swahili and at bbc.com/worldcup. BBC World Service's writer in residence Hamid Ismailov will also be blogging during this journey through Ivory Coast, Ghana, Togo, Benin and Nigeria.

In the Shadow of the Stadium, from Friday June 4th. South-African Audrey Brown goes to the area around Johannesburg's refurbished Soccer City stadium—the venue for the opening match and the final—to meet the people who are living around the stadium and are directly affected by the tournament, to find out what impact the World Cup will have on their day-to-day lives.

The Power and the Passion, a new four part series from Monday June 7th. While many football fans around the world will be avidly debating and agonizing over the fate of their nations in June, it is often at the domestic club level that the game finds its most passionate support. ***The Power and the Passion*** follows David Goldblatt as he travels to four very different football games, all big local derbies, in Italy, Egypt, Ghana and the UK, to experience the build-up and pitch action from the perspective of the fans.

South Africa's Path to Freedom, from Wednesday June 9th. Nobel Prize-winning author Wole Soyinka travels from his native Nigeria to the host country of World Cup 2010—South Africa—to assess the past and present of the Rainbow Nation through the eyes of its finest writers. Wole Soyinka fought apartheid from outside South Africa during the years of oppression and conflict. He now makes a special journey to meet some of the key writers who lived through the turbulent years, including fellow Nobel Prize winner Nadine Gordimer, as well as Albie Sachs, South Africa's Poet Laureate Keorapetse Kgositsile, playwright Athol Fugard and academic and writer Antjie Krog.

Programs during the World Cup:

Sportsworld, the flagship global sport program hosted by Russell Fuller, will be in Johannesburg with six special World Cup editions on Saturday June 12th and Sunday June 13th, Saturday June 19th and Sunday June 10th, and Saturday July 10th

and Sunday July 11th. In addition, Russell will be hosting weekend editions of ***World Cup Have Your Say***, Saturdays and Sundays from June 12th.

World Football, on Saturday June 12th will be profiling the history of football in South Africa, examining the impact of apartheid on the game. It includes a profile of football on Robben Island and the Makana Football Association, a body formed by political prisoners on the island.

World Cup Have Your Say—talking a good game: While coverage of action on the pitch will be dominated by the insight and opinions of a host of football experts, for the second consecutive World Cup tournament, BBC World Service will be giving football fans around the world a daily opportunity to have their say about the action, drama and tears on and off the pitch. Presented by Ros Atkins and anchored from Soweto, ***World Cup Have Your Say*** will be a daily half-hour multimedia discussion show, in which the pundits will step aside and let the fans decide on the tournament talking points, from chants to cheats, referees to vuvuzelas. Fans can join in the debate from around the world via bbc.com/worldcup and via Twitter (@BBC_WHYS) and Facebook (World Have Your Say). ***World Cup Have Your Say*** is daily from Friday June 11th to Monday June 12th.

Komla Dumor and Ros Atkins will be presenting ***The World Today***, BBC World Service's flagship news and current affairs show, from Soweto, bringing audiences the atmosphere and finding out first-hand about the impact of the tournament on local residents. There will be special World Cup editions on Friday June 11th and Monday June 14th.

Fast Track, the flagship sports show for Africa on BBC World Service, presented by Farayi Mungazi, will be covering all the latest news from the tournament on Mondays and Fridays.

The interactive discussion show ***Africa Have Your Say***, presented by Vera Kwakofi, will debating a range of issues and topical news subjects over the course of the tournament. ***Africa Have Your Say*** will air on Tuesdays, Wednesdays and Thursdays during the tournament.

Focus on Africa and ***Network Africa*** will have presenter Peter Ngoro traveling around South Africa for the duration of the tournament, to meet the fans and bring the excitement, atmosphere and stories from Africa's World Cup to BBC audiences across the continent.

New from the *Voice of Turkey*

The seasonal change has brought some new programming from the ***Voice Of Turkey***. ***Heading Toward Turkey*** introduces Turkey's off-the-beaten-path spots along with the better-known holiday destinations. ***Memoirs and Writings*** features the accounts of Kemal Atatürk, regarded as a man of thought besides his prominent qualities as a distinguished officer, politician and statesman. These are historical accounts written by those who were close to him in the days when he elevated the fortunes of Turkey following its defeat in World War I. ***The Middle East Through Turkey's Window*** will focus on the latest developments in Iraq and the Middle East.

Returning programs include ***Turkish Album***, ***Hues and Colours of Anatolia***, ***Letterbox***, ***Do You Know*** and the monthly quiz ***Question of the Month***. These were the programs receiving the most praise and positive feedback from listeners in the past year, so they'll be continuing on the schedule.

Each day's broadcast begins with ***News and Review of the Turkish Press*** before launch-

ing into the feature programs described above.

Thanks to Rich D'Angelo for sending this information along. Do you receive similar programming details via e-mail or postal mail from any broadcaster, especially information covering a season's worth of programming? If so, I'd love to receive a copy so I can then include the information for fellow NASWA members. Check the column masthead for my contact information!

VOA no longer offers *World News Now*; offers new regionally-focused current affairs programming.

The ***Voice of America*** has launched some new programming, increasing its focus on the Middle East and Asia. ***Daybreak Asia*** (2200 UTC) and ***Crossroads Asia*** (1200 UTC) provide the Asian focus, and ***Middle East Monitor*** (1700 and 1900 UTC) provides current affairs on that region. Another new program, ***International Edition***, covers key world news and essentially replaces ***World News Now***. I sampled both ***Middle East Monitor*** and ***International Edition***; they're good at what they do, but like much of VOA's programming, the content is somewhat "dry"—the emphasis is on the *what* but not the *why*. The BBC and Radio Netherlands would probably rate the best (in my opinion) at explaining the news.

Unfortunately the VOA's website hasn't caught up with these new programs yet; as of late May the programs were airing in these timeslots but only ***International Edition*** has a website reference.

Hope the summer brings you good listening!

73 DE Richard



Shortwave Center

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For the last few months, we've been giving you advance notice of the annual NASB meeting, this year in Hamilton, Ontario. Here is a report on how that meeting went. - ed.

NASB Elects New Vice-President Shortwave Listener Survey Announced

2011 NASB Annual Meeting will be in Miami and the Bahamas

Glen Tapley of NASB member station WEWN in Birmingham, Alabama was elected the new vice president of the National Association of Shortwave Broadcasters at the 2010 NASB annual meeting in Hamilton, Ontario, Canada, May 21. Shortwave station WEWN is part of the EWTN television network.

Jeff White of member station WRMI in Miami, Florida was re-elected as NASB president. Dan Elyea of member station WYFR in Okeechobee, Florida was re-elected secretary-treasurer, and Thais White of WRMI was re-elected assistant secretary-treasurer. Glen Tapley of WEWN and Adrian Peterson of Adventist World Radio were elected to new three-year terms on the NASB board of directors. The other current board members are Bill Damick of Trans World Radio, Brady Murray of WWCR and Jeff White of WRMI. Board member and former vice president Mike Adams of the Far East Broadcasting Company (FEBC) resigned his position due to increasing demands on his time due to his involvement in humanitarian relief work and disaster response projects. The board appointed David Creel of FEBC to fill Mike's NASB board position for the remaining one year of his term.

The sponsor and host of the 2010 NASB annual meeting and the concurrent DRM USA annual meeting was Galcom International, which is based on Hamilton, Ontario. Galcom has been an associate member of NASB for a number of years. Galcom founder

Allan McGuirl, his son Al Jr. and new Executive Director Tim Whitehead participated in the entire two days of meetings, which were largely organized by Galcom's Jennifer Smith. Other Galcom personnel, including David Casement, also took part.

On May 20, the two days of meetings began with a group tour of Crossroads Communications in Burlington, Ontario, a Christian television network. The group participated in a live syndicated television show called "100 Huntley Street," which airs throughout Canada and the United States on a number of stations, networks and cable and satellite channels. The program included a segment about Galcom International.

The next stop was a tour of Galcom's factory in Hamilton where volunteers assemble hundreds of thousands of small fix-tuned, solar-powered radio receivers set to a variety of AM, FM and shortwave frequencies of stations that broadcast Christian programming in various parts of the world. Each participant was able to program and assemble his or her own radio to the frequency(ies) of his choice, after which they were able to enjoy a barbecue lunch at the Galcom factory.

On the afternoon of May 20, the group assembled at Mohawk College in Hamilton for a three-hour DRM USA meeting moderated by Charlie Jacobson of HCJB's Global Technology Center in Elkhart, Indiana, which hosted the annual meetings three

years ago. Charlie presented a PowerPoint from Adil Mina of Continental Electronics about the recent DRM Consortium meeting in Amsterdam in March and the current status of DRM (Digital Radio Mondiale) worldwide. There was a brief update on the Digital Aurora Radio Technologies (DART) DRM project in Alaska, and John Wineman of HCJB talked about the DRM Diversity Receiver project for tropical band STL use. Charlie Jacobson reviewed some of the DRM receivers that are currently available and in development, and there was a discussion of future activities of the DRM USA group.

Following the DRM USA meeting, the group went on the road again in the late afternoon and evening for a dinner at the Old Stone Inn in Niagara Falls, Ontario, which was founded as a flour mill in 1904. Dinner featured such items as Angus prime rib, eggplant parmesan, New York style cheesecake and apple blossom. But the big event of the evening was an opportunity to view world-famous Niagara Falls, which consists of the American Falls and the horseshoe-shaped Canadian Falls which mark the border between the United States and Canada.

Friday, May 21 was the official NASB annual meeting, which took place back at Mohawk College in Hamilton. Meeting attendance was only about 40 percent of the usual annual attendance of 50-60 persons due to the economic crisis that is affecting member stations and associate member companies and organizations. Many regular attendees reported that their travel, advertising and promotion budgets had been cut due to the crisis, but most expected the situation to begin improving in the coming months and indicated that they plan to attend next year's NASB annual meeting.

The first talk on Friday morning was by Steve Canney of the Ontario DX Association. Steve was one of the founders of the ODXA in 1974, and he has been very active in the ODXA's publications and meetings over the years, including some ANARC (Association of North American Radio Clubs) conventions

that it sponsored and some local DX camps in Ontario. The club still exists today, but it has no printed publication, preferring to concentrate material on its website, www.odxa.on.ca, which is freely accessible to all.

Unfortunately, neither the CBC nor Radio Canada International nor the CBC North shortwave service attended NASB's first annual meeting in Canada. But Toronto's shortwave station CFRX was represented. Steve Canney, on behalf of the ODXA, has been acting as the station's QSL verifier for many years now. The one-kilowatt shortwave transmitter on 6070 kHz relays commercial mediumwave station CFRB 24 hours per day.

Glen Tapley of WEWN offered meeting participants a PowerPoint of his station, which was founded by the charismatic Mother Angelica. WEWN has become a multi-transmitter 500-kilowatt (currently operating at 250 kilowatts) powerhouse station transmitting Catholic radio programming to shortwave audiences throughout Latin America, Europe, Africa and other parts of the world. The station relies on Sirius, XM Radio and Internet webcasting to reach North America. Glenn's presentation included photos of the transmitters, antennas and other technical installations, as well as shots of the beautiful mountaintop location of the transmitter site in Alabama.

The 2010 annual meeting took place as long-time attendee John White of Thomson Broadcast and Multimedia was set to retire. The NASB presented him with a plaque in honor of his many contributions to the NASB over the years. Thomson builds shortwave transmitters and other radio and television broadcast equipment at its plant in Switzerland. Thanks to John White's efforts, Thomson and the NASB will be co-sponsoring the HFCC/ASBU B10 shortwave frequency coordination conference in Zurich, Switzerland this August 2-6.

The next speaker was Dr. Jerry Plummer of NASB member station WWCR in Nashville, Tennessee. Jerry presented a very timely

slideshow of images of the recent floods in Nashville and how they affected WWCR. The station's antenna farm, which was one stop on a tour during last year's NASB annual meeting, was up to 18 feet under water. The power was out and the station's four 100-kilowatt shortwave transmitters, as well as its mediumwave transmitter, were off the air for at least three days. Jerry showed pictures of WWCR staff members surveying the flood damage in boats in the middle of their antenna field.

Jerry also unveiled the new NASB Shortwave Listener Survey, which is now online. The purpose of the survey is to gather demographic and other information about shortwave listeners in North America and around the world. Questions deal with listener preferences regarding shortwave stations, programming, receivers, DRM and much more. The NASB is requesting and encouraging all shortwave publications and websites to place a link to the survey, which will be online until May of 2011. The survey results will be announced to the public at the 2011 NASB annual meeting. The URL for links to the survey is: <http://www.surveymonkey.com/s/6LRVLJ7>

Dr. Adrian Peterson, international relations coordinator of Adventist World Radio, rounded up the Friday morning session with a presentation entitled "Canadian Radio Panorama," featuring photos of QSL and other radio cards of Canadian stations - especially shortwave - since 1901. Adrian, who produces the weekly DX program "Wavescan," has an extensive collection of cards from Canadian governmental, commercial and religious stations, as well as amateur and experimental stations over the years. A review of his Canadian collection is indeed a trip through Canadian radio history from the beginning through present-day.

After lunch was the NASB annual business meeting. Member stations in attendance with personal representatives or proxies were Adventist World Radio, Far East Broadcasting Company, Radio Miami International, Trans World Radio, World Christian Broadcasting, WEWN, WWCR and WYFR. Associate members Galcom International, HCJB, Thomson Broadcast and Multimedia, and VT Communications were also present.

Among the decisions made at the business meeting was the location of next year's annual meeting. It will be organized by Radio Miami International and will take place May 13-16, 2011 onboard the Royal Caribbean Majesty of the Seas cruise ship which sails from Miami to Nassau and CocoCay in the Bahamas. Delegates concluded that it would be less expensive to hold the meeting on the ship than at a hotel in Miami. The cost for the three-night cruise will be \$299.00 plus \$66.41 in taxes, per person in a double occupancy inside cabin. This price includes all meals, accommodation, transportation and entertainment. The ship has a dedicated conference center where the NASB and DRM USA meetings will be held, and Royal Caribbean will provide the meeting rooms and audiovisual equipment free of charge. More details are available by e-mail from info@wrmi.net, and they will soon appear on the NASB website, www.shortwave.org.

The NASB membership also approved the sponsorship by NASB of the wireless Internet system in the meeting rooms at the HFCC/ASBU B10 Conference in Zurich, Switzerland in August. Other topics of discussion were possible improvements to the NASB website and publicity for the new NASB shortwave listener survey.

-from the NASB May News bulletin.

BBCWS Funding Cuts

The Sunday Times
By Chris Gourlay
May 2, 2010

The BBC World Service is braced for the loss of up to a quarter of its budget.

Executives are planning for cuts of 18%-25% after Foreign Office officials indicated its £272m annual budget would be reduced from April next year.

A World Service source said the effect of a 25% cut would be "pretty much terminal".

The broadcaster, which has a weekly audience of 188m, is funded by taxpayers through the Foreign Office to promote British culture and values.

BBC sources say services such as BBC Arabic TV and BBC Persian TV are vulnerable because they cost a combined £34m per year. Minority language services are at risk, while the English services are likely to survive.

The cuts follow a steady scaling back in the World Service's reach. In 2006 it ended its Falkland Islands service and in 2005 it axed 10 foreign language services, saving £12m. This year it was asked to make a further £7.7m cut because of a funding shortfall caused by a sharp drop in the value of the pound.

The reduced budget will be for the three years from April 2011. A Foreign Office spokesman said the department was unable to give an assurance that the service's budget would be protected.

[Even though the BBC no longer broadcasts to us on hf, this is still a stunning development that bears monitoring - ed.]

The BBC attracts a record weekly global audience of 241 million people to its international news services like BBC World Service and the BBC World News television channel, according to independent surveys. This is up three million on last year's overall audience estimate.

However, the multimedia BBC World Service lost 20 million short wave radio listeners during the year; reflecting the increasing global decline of the medium.

But during the year World Service attracted around nine million new viewers to its television, online and mobile services; in addition to new listeners to BBC radio programs through local FM and medium wave radio partner stations in a number of countries.

BBC Global News Director, Peter Horrocks, said: "BBC Global News's record audience demonstrates that people come to us for journalism that is challenging and asks difficult questions, yet respects different points of view and actively encourages debate.

"The figures also show the success of our multimedia strategy and investments for global audiences. But the continued dramatic decline in short wave listening shows that those audiences are rapidly changing the way they access international news. Unless BBC World Service can accelerate its response to those changes, it will face a rapid deterioration of its impact as other technologies become more prominent in international media markets."

BBC World Service drew an overall weekly multimedia audience of 180 million across television, radio, online and mobiles. This is eight million down on last year.

The audience losses were mainly due to a sharp overall decline in short wave radio listening during the year. Radio audience losses were particularly dramatic in Bangladesh (-7 million), India (-8.2m), and Nigeria (-2.9 m).

However, there were significant radio audience gains in Tanzania (+1.4m), and the US (+ 600,000), mainly through BBC programmes being used on local FM and medium wave radio partner stations.

The multimedia BBC Arabic service attracted an audience of 22 million a week, including 12 million watching BBC Arabic television.

The BBC Persian multimedia news and information service was hampered by the jamming of its newly launched TV satellite service and the continued blocking of its online service by the Iranian authorities. However, in a hostile environment for research, the independent surveys indicated audiences of 3.4 million, including 3.1 million watching BBC Persian television in Iran.

Together the channels contributed a 72% increase in the estimated audience of BBC World Service's non-English television services.

BBC World Service continued to have strong impact in Afghanistan, where BBC audiences are 10 million; and in Iraq where the BBC reaches 4.5 million people each week. In Burma, the BBC now reaches 8.5 million listeners, up 1.4 million on the last survey.

BBC's commercial international news services

BBC World News and bbc.com/news—the BBC commercial international television and online news services—attracted a combined global audience of 83 million.

BBC World News has a weekly audience of 71 million.

The news, weather and sport sections of the BBC's international commercial site, bbc.com, increased to more than 17.2 million unique users every week.

It also attracted more than 1.1 million unique users in February 2010 accessing mobile news, weather and sport content from BBC Global News every week. By April, this had increased to 1.5 million unique users every week. There has been an increase of 120% in page impressions in the last year. Mobile traffic to news pages alone on the bbc.com mobile site increased tenfold.

(BBC Press Office)

An article in today's Financial Times "BBC urged to boost online output" includes:

Senior managers at Bush House told the FT that spending cuts announced by the

coalition government on Monday translated into a 3 per cent cut in the budget of the Foreign Office, which currently funds the World Service to the tune of £272m (\$395m, €315m)....

"Where people have access to our programmes on FM, they shift to that platform and they no longer use shortwave," Mr Horrocks said.

"There is a powerful symbolism about universal availability, but if people haven't got the [shortwave] sets and they aren't listening, keeping it going for its own sake, for metaphysical reasons, doesn't make a lot of sense."...

In his first interview since taking over as the BBC's global news director, Mr Horrocks said that countries such as Burma and Somalia, where there was no prospect of a substitute for shortwave, would remain covered "for the foreseeable future". But in the next five years, other shortwave services were likely to be phased out, he said, although no final decisions on which have been made because future funding is unclear....

The bulk of funds for World Service output comes from a Foreign Office grant-in-aid.

Senior managers fear that with an unprecedented squeeze on public spending to be announced in next month's emergency budget, a significant proportion of that money may disappear. Most think that the Arabic and Persian services will be left untouched as they play a crucial part in correcting the damage done to the UK's reputation in parts of the world where the Iraq war and military presence in Afghanistan continue to rankle. That suggests the English-language radio and other language services in countries such as India will be worst hit.

Mr Horrocks would not be drawn on which areas might be cut, saying the division of spending would depend "on the funding hand we are dealt". His office later described a report that up to a quarter of the budget could disappear as "speculative".

Mike Barraclough via DXLD



Kim's Column

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Kim's comments are in italics.

Before shortwave radio there was shortwave TV

Daily Record (Glasgow), 22 May 2010, Laura Coventry: "John Logie Baird was the father of television. Monday is the 83rd anniversary of his historic broadcast in 1927 from London to Glasgow's Central Hotel. ... Son Malcolm Baird, 75, and his sister, Diane, of Uddingston, near Glasgow, treasure their memories of a hardworking and dedicated father. ... 'My father was seen on the screen in Glasgow while his assistant, Ben Clapp, operated the equipment. He was the key person because he was an expert in short-wave radio.' The man who'd already demonstrated a working television in January 1926 and went on to transmit live moving images more than 400 miles using a telephone line and radio, then followed this with another historic transmission - from London to New York in February 1928."

BBC domestic radio on iPhone will cost Americans \$52 per year.

paidContent:UK, 19 May 2010, Robert Andrews: "The public-service BBC's app plans may be on hold in its native UK until its regulating body checks for anti-competitive effects—but, outside of Blighty, the profit-seeking BBC Worldwide wing is pressing ahead with its latest mobile download. The BBC's boldest step yet in to chargeable content, BBC Listener is a radio app offering over 20 documentary, magazine and discussion shows on-demand, plus access to archive programmes from the last decade. Here's the bold bit—after the \$2.99 download fee, BBC Listener uses iPhone OS 3.0's in-app subscription feature, requiring users pay \$12.99 per quarter for continued access. There's potentially a decent U.S. market of public radio aficionados keen for serious news and analysis, and forms part of BBC

Worldwide's big U.S. push. Most of the shows are from BBC Radio 4—the intellectual station that some Americans I know cite as the world's only credible objective news source of any scale. But BBC Listener may not be all that good value—many of the shows contained within are available as free downloadable podcasts, as well as for web playback, no matter where in the world listeners are."

The best international radio available to US audiences is the domestic radio of the BBC. This news made me scurry to bbc.co.uk to find out if the live streams and on-demand programs of BBC's Radios 4,3,2, Scotland, etc, are still available—for free. They are. But with the BBC starting to monetize its domestic radio in the export market, for how long? BBC domestic television online is already off limits to internet users outside the UK.

Undersea cables (which hastened the decline of shortwave communications) are vulnerable.

Wire Update, 19 May 2010, Joda Thongnongpua: "A recent Institute of Electrical and Electronic Engineers (IEEE) report stated that urgent action is needed to diversify the global deep-sea cable networks that the internet depends on, to secure them against attacks and accidents that could lead to economic disaster. The report highlighted the vulnerability of businesses worldwide to the targeting of choke points in subsea communication networks by saboteurs, pirates, and thieves. International internet and telephone links are almost entirely dependent on bundles of fibre-optic cables that span the oceans."

Veinticinco años de Radio Martí.

Broadcasting Board of Governors press release, 20 May 2010: "Today marks the 25th anniversary of the launch of Radio Martí,

which began its broadcasts to Cuba with a simple 'buenos dias Cuba.' In the years since, Radio Martí's news programs, dedicated to being accurate, objective and comprehensive, have offered the Cuban people a welcome alternative to state-controlled media propaganda." Radio Martí audio report (in Spanish) at bit.ly/dmcWJn

BBC World Service and its "limited shelf life."

The Register, 19 May 2010, John Lettice: "In the long run it's up to the British government to decide why and whether there's a point to paying for the BBC to speak peace unto the rest of the world, but the way the World Service has done this in the past now has limited shelf-life, and adequate funding for more contemporary replacements is unlikely. The BBC, says [managing director Mark] Thompson, still has huge towers in Ascension beaming short wave World Service broadcasts to Africa, but this audience will clearly decline, and increasingly World Service programming will be delivered through deals with local FM stations and via the internet. In delivery, therefore, the 'global mission' will look increasingly like the 'self funding' commercial international operations, except that the news will be paid for by the FCO.... The move from short wave to other delivery mechanisms makes the World Service more like the commercial operations in another respect; broadcasts become more vulnerable to censorship and to self-censorship. There's a simplicity to being able to beam the voice of freedom and impartiality from offshore, but that vanishes when El Presidente can just tell your local FM or broadcast partner, or ISPs to pull the plugs on you. If you're dependent on local pipes, then you'll frequently find yourself having to deal with your own equivalents of Google's China question."

Scrappage: Sending analog radio sets to Africa.

Daily Mail, 19 May 2010: "A scrappage scheme for radios to encourage a mass crossover to

digital broadcasting will be unveiled today. The initiative, involving major electronic retailers such as Currys, will see customers offered a 20 per cent discount on a digital set if they hand in an analogue model. The aim is to persuade owners of around 100million analogue radios still in use around Britain to buy the new sets.... Digital Radio UK, the body managing digital-radio switchover, will announce the deal. Old radios will be given to charity and shipped out to Africa. In some parts of the continent, they are the main source of communication and the BBC World Service is particularly popular." — *Most of the scrappage radios won't have shortwave bands, which means that they can't be used to receive BBC World Service in Africa, unless the new owner is in one of the cities where BBCWS has an FM outlet.*

Michael McCluskey named new chief executive of Radio Australia.

Australian Broadcasting Corporation press release, 18 May 2010: "Director ABC International Murray Green has announced that Dr Michael McCluskey is to be the new Chief Executive of ABC Radio Australia. Mr Green said Dr McCluskey would bring substantial experience in leadership, broadcasting and journalism to the Chief Executive position. In a career spanning over 25 years with the ABC, Mike has worked as a rural reporter, executive producer, radio presenter, regional program manager, international advisor, and local radio manager. His doctorate is in the area of media and development.... His appointment succeeds Mr Hanh Tran, who is to take up a senior editorial role with the organisation. Mr Green thanked outgoing Chief Executive Mr Hanh Tran for his leadership over the past three years particularly in the areas of bilingualism, journalism and cross language cooperation." — *A curiously brief tenure for Mr. Tran as head of RA.*

Views expressed are my own. More at www.kimandrewelliott.com, posts to which can be 'followed' at twitter.com/kaedot-com (with no boring personal stuff) 

Listener's Notebook

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

ALASKA KNLS 1200-1300 English broadcast listed on their website as on 7355 and 9680, not 11765 and 12105 as listed in last months schedules column. 7355 confirmed at 1215 Apr 28 via Global Tuners Hong Kong receiver, 9680 mix of two stations in Chinese, presume Taiwan and Chinese jamming as listed by Aoki. (Mike Barraclough/WDXC DX News)

ANDAMAN & NICOBAR ISLANDS 4760, *AIR Port Blair* (presumed), 1210-1305, May 11. In vernacular; phone ringing; ads; subcontinent songs; long conversation; heard after their sunset (1205) and before my local sunrise (1303); almost fair; rather unusual to hear this one so well. (Ron Howard/NASWA Yahoo Group)

ANGOLA 7216.745 *Radio Nacional*, 1920, Portuguese, local ballads with male announcer. Running very low modulation and almost no audio getting through. In fact, similarly-low audio parallel (4949.797) was easier to copy. Both frequencies drift a bit. My last log for this one had it on 7217.050. 16 April. (David Sharp, NSW Australia via Wilkner/DXplorer)

ARMENIA Frequency change of *FEBA Radio* in Dari: 1500-1530 NF 11755 ERV x9830 to avoid RL Turkmen. (R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews May 1)

AUSTRIA 11675, *Polish Radio External* Service at 1200 with "News from Poland" with Michal Kubicki - Weak at first then rising to Good then back and forth again May 7 - after a good performance during B09 this frequency is far too unreliable for our summer. Too bad that PRES doesn't put any effort into reaching North America reliably. (Mark Coady/NASWA Yahoo Group)

AZERBAIJAN 9677.5, *Ädalätin Säsi Radosu*, Nagorny Karabakh, Stepanakert, 0505-0527*, Apr 10, Azerbaijani talk with some mentions of Karabakh, musical interludes, extremely distorted audio and transmitter hum, 55553. (Beryozkin and Timofeyev). Thank you for the correct station name! (Editor Petersen/DX Window)

BELARUS 7265 tentatively *Belarus Radio*, Brest shortwave relay seems back on air again. Was missed, a lot of weeks out of service. Noted in 1800-1830 slot on May 3rd, S=5-6, announcement in Belarusian /

Russian followed by symphonic music concert. (wb) 7265 Still I've my doubts about Radio Belarus 2nd program Belaruskhoje Kanal Kultura via this SW channel from Hrodna/Grodno. During morning and noon hours the channel is empty, scheduled 1600-2200. In late afternoon fade in by co-channel Beijing, til 1605 cl-down. Also Kashi, Urumchi, as well as Polskie Radio Warsaw via KVI in DRM mode use this channel. So small time windows open on this channel at 1605-1657, 1800-1830 [tiny signal on May 8th], and 1900-1927 only. (wb, May 9)

11930 *R Belarus Minsk* in Belarusian language at 0615 on Apr 30, S=9+10dB, registered at 0400-0700. But looks like the 250 kW beast is used with decreased 100 kW only. Also night services on 7360/7390 are not as strong in the past anymore. (wb, wwdxc BC-DX TopNews)

BHUTAN 6035, *BBS*, Sangaygang, 0010-0115, Apr 13, just a very weak carrier noted without audio. (Petersen). But this broadcast from a 30 kW reserve transmitter was audible throughout Bhutan with fair to good reception // local FM frequencies. (Petersen in Bhutan/DX Window) The 30 kW replacement transmitter at Sangaygang was regularly heard throughout Bhutan, although with many breaks. The 100 kW transmitter awaits repair by an Engineer from India. Heard in Bhutan at *0000-0050 and 1019-1240, Apr 22-27, with many attempts to get on the air with the usual programmes of a Buddhist Morning Mass, Dzongkha talks and national songs. Heard // 88.1, 96.0 and 98.0 FM. I took photos of the BBS Studio building and SW transmitting antenna. (Petersen/DX Window)

BOLIVIA 4409 *R. Eco*, Reyes, on May 14 at 2302-2312. Pop ballad music in Spanish, male announcements in Spanish, male talks to an audience reacting with laughter, 2307 romantic Spanish music. Partially readable, 35433. (Lucio Otavio Bobrowiec-Brazil, hcdx May 15 via TopNews)

5952.41, *R Emisoras Pio XII*, Siglo XX, 1015-1035, May 06 and 13, Spanish comments, threshold audio signal with extreme fading. By 1031 all I could hear was the carrier since the audio had faded into the noise. (Bolland). Also heard at 2355, May 06, talk in Spanish, jingles, animated discussions, fair. (Bell/DX Window)

6134.80, **R Santa Cruz**, Santa Cruz de la Sierra, 0002, May 07, giving local address in La Paz in Spanish, best in LSB, fair. (Bell). Also heard at 0916-1015, May 04, 06 and 08, Spanish talks, Bolivian local music, "5 en mañana (Morning) y 16 minutos ..." lengthy comments in Spanish, while the signal remains at a good level. (Bolland/DX Window)

BRAZIL 6000, **R Guaiba**, Porto Alegre, RS, 1100, May 01, back to 49 meter band frequency, report about MERCOSUR actuality. Good signal. (Slaen/DXplorer)

5939.96, **R Vóz Missionária**, Camboriu, SC, 0902-0925, May 06, Portuguese conversation, poor. (Bolland). Also heard at 0145, May 03, vigorous male pastor with deep voice in Portuguese, "Glorias", crowd cheering, good. (Bell/DX Window)

6159.3, **R Boa Vontade**, Porto Alegre, RS (p), 0138, May 03, the programming was light religious in Portuguese, male and female speakers. I heard it a few months ago too. (Bell). Seems back on the air. Scheduled 24 hr // 9550. (Ed/DX Window)

11735, **R Transmundial**, Santa Maria, RS, 0425, May 01, religious message, full IDs and frequencies in Portuguese on hour, good. (Bell). Also at 1922, Apr 18, talk about digital communications, also on SW, many IDs at 1939, fair. (Bernardini/DX Window)

BULGARIA On April 6 **Bulgarian National Radio** stopped broadcasting on most of its medium wave transmitters due to the expansion of its FM network. Only three stations were completely closed, the rest will be suspended and possibly used in future for digital broadcasts. This includes the Radio Varna shortwave broadcasts as announced on Radio Bulgaria's DX Programme on April 17. (Edwin Southwell/WDXC DX News)

CANADA 6030, Calgary - **CFVP** relaying CKMX (AM 1060), 1412, May 12. CNR-1 was off-the-air, so I was able to hear this in the clear with C&W song and contest for a free stay at a hotel. If CNR-1 is down for maintenance, this is a good chance to hear Calgary without the usual QRM! (Ron Howard/NASWA Yahoo Group)

CENTRAL AFRICAN REPUBLIC ICDI is Integrated Community Development International, a non-denominational, non-governmental, and non-profit faith-based organization presently working in the Central African Republic and other surrounding countries. The shortwave

station transmits from Boali, just north of Bangui, programmes are in four different languages. Website is www.icdinternational.org which says: It is interesting to note that every village has a radio—most have more than one. Radios purchased from countries like Nigeria and Niger are very affordable. They cover FM, shortwave, and mediumwave bands. Prices starting around \$6 make this method of communication affordable for a large percentage of the population—everyone listens to the radio! (Mike Barraclough/WDXC DX News) According to my sources, Radio ICDI night-time frequency will be 3390. Web-blog of Dan Anderson at <http://danhcjb.org/> tells us that another transmitter will be installed by **HCJB** engineers as a gift for **Radio Centrafrique** at Bangui-Bimbo site. Frequency not yet announced but probably 5035. The website also has photos of antenna installation at both sites. Please note that these two transmitters are low power, rated only as 1kW. (Jari Savolainen, Kuusankoski, Finland/DXplorer)

CHINA 5010, **Guangxi Beibu Bay Radio** (BBR), randomly from 1321 to about 1400, May 5. A new frequency for them! In Vietnamese with EZL pop songs; BoH multi-language IDs and mention of "Top Music"; fair to good with no AIR QRM; after 1400 heard back on their normal 5050. Possibly their new schedule is being on 5010 till 1400, then 1400 to 1600* up on 5050. It makes sense for them to move away from 5050, due to the domination there of China Huayi BC (signs off at 1300), but why move to 5010? AIR Thiruv. is now totally covered till 1400. Needs more monitoring to confirm just what their new schedule is (Ron Howard/NASWA Yahoo Group)

6035, **PBS Yunnan/Voice of Shangri-La**, 1223, Apr 24. In Vietnamese with music program; 1300: pips; clear ID in English: "This is the Voice of Shangri-La, brought to you by Yunnan Radio"; changed over to program in Chinese; mostly poor with usual adjacent QRM/splatter, but was one of their better receptions; no trace at all today of BBS/Bhutan. (Ron Howard/NASWA Yahoo Group)

CLANDESTINE 3911.99 **Voice of the People** (p) 1148-1216 Apr 20. Guy & gal in KR chat // 6599.98 and 6517.98. All freqs jammed at tune-in but the jamming seemed to stop at 1152. The jamming resumed again at 1154 on the 6 MHz freqs but not on 3911.98 - at least I could not hear any. Possible ID at 1203 after a bit of fanfare, then freqs announced, followed by talk/music. Loud and clear S9+20 dB signal; still

no apparent jamming as of 1216 tune out.
(Wilkins/DXplorer)

3930.65, **R Voice of Kurdistan**, Sulaimaniya, Northern Iraq, *0145-0155, May 13, Arabic music and songs, 45344. (Petersen/DX Window)

5915, **Radio Dabanga** via Santa Maria di Galeria (presumed), red boy-with-radio logo cd with no data but with personal note from Anne Haalomor (?) confirming my report, in 3 wks for an e-mail report to radiodabanga@yahoo.com. (Craighead/DXplorer)

4557, **Korean Nat. Dem. Front**, Haeju, 0933-0942, May 11, music, short ann in Korean, patriotic music with female speech in the middle, 35333 // 4450. (Otávio/DX Window)

6135, **Shiokaze/Sea Breeze** via Yamata, *1400-1430*, May 14. Was a very unusual Friday for Shiokaze; in Korean instead of the usual English; completely different format with a long talk/speech. Suspect this was probably the result of the U.N. High Commissioner for Human Rights holding meetings with the Japanese Prime Minister and Foreign Minister, in which she said she is willing to press Pyongyang to resolve abduction issues. I noted one strange news item: "Japan recognizes 17 citizens as having been abducted to North Korea in the 1970s and 1980s. Five of them were repatriated in 2002 but the whereabouts of the others are disputed with the North." <<http://www.mlive.com/newsflash/international/index.ssf?/base/international-30/127376500393920.xml&sto rylst=international>>. After years of listening to Shiokaze, I assume there must be a lot more abductees that are not "officially" recognized as having been abducted! (Ron Howard/NASWA Yahoo Group)

7530, **Suaab Xaa Moo Zoo**, via Taiwan (100 kW 250 degrees), daily 2230-2300 in Hmong to SE Asia. Broker TDP. (Ivanov via BC-DX, May 10/DX Window)

7540, **Denge Mezopotamya** in Kurdish via SMF 1800-2000 Daily. (R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews May 1)

9875, **Voice of People** in English/Shona/Ndebele via Madagascar at 0400-0500, x9895. (R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews May 1)

11530, **Denge Mezopotamya** in Kurdish via SMF 0400-1400 and 1400-1800 Daily. (R

Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews May 1)

15195, **EOTC Holy Synod Radio** in Amharic via Samara 1600-1700 on Mon. (R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews May 1)

15350, **Voice of Meselna Delina** in Tigrinya via Samara 1730-1800 Tue/Thu/Sat. (R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews May 1)

15350, **Radio Bilal** in Amharic via Samara 1800-1900 Daily. (R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews May 1)

15670 & 7385, **Miraya FM** via IRRS via Rimavska Sobota, usual IRRS La Scala cd, with all data except for program name & site, in 6 wks for a report to IRRS-Shortwave, P.O. Box 10980, I-20110 Milano, Italy. (Craighead-Kansas/DXplorer)

17880, **La Voix de Djibouti** Thursdays at 1200-1300 via Samara, Russia. (Wolfgang Büschel) Replaces 15165 at 1530-1630 transmission (RAD) I received an email reply in 31 days from La Voix de Djibouti for a reception report and audio file e-mailed to info@lavoixdedjibouti.com. The reply said that: "La Voix de Djibouti is the first independent radio in the history of Djibouti. Our goal is to support the democracy and freedom of speech in one of the most autocratic and dictatorship of Eastern Africa." (Alokesh Gupta, India, Cumbre DX via WDXC DX News) 17880, La Voix de Djibouti, via Samara (?), Th 1200-1300 in Somali/French/Arabic to East Africa since May 06. Ex 15165. Broker TDP. (Ivanov via BC-DX, May 10/DX Window)

The **Voice of Tibet** (VOT) radio service slammed the Chinese authorities on Thursday for jamming indolence messages from exiled Tibetans over the deadly earthquake in northwest China. The Oslo-based VOT said it had been including messages of support, solidarity and grief since Monday with its shortwave transmissions — which are regularly jammed — in both Tibetan and Mandarin. After all broadcasts were blocked for two days, VOT decided to isolate the condolences from its regular Tibetan news and current affairs and send them in a separate daily transmission. "We informed the Chinese authorities of this and asked them to allow the transmissions, but again on Wednesday these special broadcasts were jammed," said VOT's editor-in-chief Karmna Yeshi, based in Dharamshala, the seat of the Tibetan government-in-exile in northern India. "All

we wanted was to give a platform for Tibetans and other sympathizers to convey their messages to the victims of the earthquake, rescue workers and aid agencies," Yeshe said. "Unfortunately, our appeal to allow this on humanitarian grounds was ignored by the Chinese," he added. Last week's 6.9-magnitude quake, which killed nearly 2,200 people, hit a remote region of the Tibetan plateau in northwestern China. The Dalai Lama, Tibet's exiled spiritual leader, had appealed to the government in Beijing to let him into China for the first time in 51 years to visit the quake zone in the region of Qinghai, where he was born. So far, Beijing has declined to respond directly to the request. The condolences transmitted by VOT included messages from the Dalai Lama, other senior lamas, Tibet support groups and individual Tibetan exiles. VOT's director in Oslo, Oystein Alme, said the Chinese jamming was a "grave violation" of basic human rights. "There are on and off buttons also on Chinese radios. Why are the Chinese authorities so afraid they can not even allow the Tibetans to hear condolence messages from the outside world?" Alme said in a statement. VOT has been airing daily programmes in both Tibetan and Chinese on short wave to Tibet and China as well as India, Bhutan and Nepal since 1996. (Hindustan Times via Slaen/DXplorer)

COLOMBIA The following is a new alternative postal mailing address for reception reports for Marfil Estereo on 5910 KHz and La Voz de tu Conciencia on 6010 KHz: Libreria Colombia para Cristo Calle 46 N°. 13-56 Blq. C Apto. 215, Bogotá, D.C., Colombia (Telefax 346-1419, Telephone 609 6686) or e-mail: cpcibros@hotmail.com. Also, they can still be reached at the main postal address: Apartado Aereo No. 67751, Bogotá D.C., Colombia. (Rafael Rodriguez R. QSL Manager via DXplorer)

COSTA RICA 5954.16, unidentified (ELCOR) 0120-0200* May 9, 2010. The same music loop of mostly Spanish pop — some live — and English, as when we last left ELCOR ages ago, when they were appearing late afternoons locally. Previously, they ran two-hour blocks. So, can we assume this is testing 0000-0200? Checks will tell. Local level here in Clearwater. Who is behind this thing, after all this time. Is Raul still in Costa Rica to investigate? (Krueger-FL/DXplorer) Thanks for the tip. Got them here, 0017, battling for dominance with presumed VOA-Thailand splash via 5955. (Scott R. Barbour Jr./DXplorer) Hearing some US pop music at 0028 UTC on 5954.12 kHz. As Scott said, tough copy, and a real challenge for a receiver's selectivity due to severe splash

from 5955. Need to use LSB and 1.8 kHz filter on the R8B. (George Maroti/DXplorer) "Me too." Poor on 5954.16 but readable at 0035 with vocal pops. Rough splatter from 5955. (Herkimer/DXplorer) 5954.22v unidentified ELCOR transmitter, Guápiles. 2333 and 0024 May 11-12, 2010. Quick checks again show Little EL starts out high and drifts down, stabilizing. First check at 2333 measured to 5954.22 and recheck at 0024 measured 5954.16. May 13th, ELCOR popped up at *2258 at near-local level with a Spanish New Wave (Police-like) vocal. And as always, it starts out high before the transmitter warms up and settles down closer to 5954.16. Tonight at sign-on, it was measured at 5954.232. (Krueger-FL/DXplorer) No doubt ELCOR, Costa Rica, also heard in Denmark, on 5954.19 May 15 at 0055-0200 with non-stop Spanish vocals, SINPO 33333, if the most narrow bandwidth was used. QRM R Pio XII, Bolivia on 5952.47. (Petersen-Denmark/DXplorer) Noted the station also easily yesterday night at 2330-2400 May 14th. S=7 signal in southern Germany. (Wolfgang Bueschel/DXplorer) Audible in Wyoming but noting frequent transmission breaks. (RAD)

ENGLAND To celebrate the launch of their new DAB digital radio service, *Trans World Radio* held a special event for leaders of churches and ministries from across the North West. TWR-UK Chairman Harvey Thomas spoke of shift in the UK towards digital services and highlighted the role that Christian radio had to play in the digital marketplace. Mr. Thomas spoke of the need for local leaders and TWR to work together to attract listeners and generate content and described TWR's goal "to work with local churches all over the world". When speaking of the need and importance of a synergy between ministries, he called on all attending to be faithful in praying for one another. Trans World Radio is now available to DAB listeners in the North West of England in an area stretching from Stoke in the south past Windermere in the north. TWR also broadcasts on satellite channel 0138, Freesat channel 790, online at twr.org.uk and at selected times on Short Wave and Medium Wave. (Slaen/DXplorer)

ERITREA 4700.02, *Voice of the Broad Masses of Eritrea*, Asmara, 1810-2000*, A1 27, 28, May 01 and 11, Arabic talks ar songs from the Horn of Africa, 35333 / 7175, on May 11: 7190 (25322). (Petersen and Schulze/DX Window)

ETHIOPIA 6030, *Radio Oromiya*, *1521-1529, May 19. Suddenly on with the usual repetitive xylophone-like IS. 1529 t

weak to make out any audio; 1532 seemed to be HOA music mixing with Calgary's C&W music; IS was in the clear, but weak. This reception made possible by the continued absence of CNR-1. Am pleased to have heard them again and to know they still have the same sign-on time (Ron Howard/NASWA Yahoo Group)

7090 is **Radio Ethiopia** ex 7110 and is // to 9704.3. This transmitter is used to jam VOA Amharic at 1800-1900 and they return to 7 MHz around 1920. Ethiopia acquired a state of the art jamming set up from China. They are very good at it and jam Amharic, Oromo and Tigrigna transmissions. (Victor Goonetilleke-CLN 4S7VK, Intruder Alert Apr 19 via TopNews)

FRANCE RTAlgeria in Arabic via Issoudon schedule valid May 2 to September 1 is 0400-0457 on 7295, 0500-0557 on 7295 9535, 0600-0657 on 9535, 1800-1857 on 11775, 1900-1957 on 11775 9375, 2000-2057 on 9375, 2100-2157 on 7495. (DX Mix News, Bulgaria via Wolfgang Bueschel/WWDXC DX News)

GERMANY MV Baltic Radio relay service Schedule for Summer 2010 at 0900 to 1000 on 6140:

1st Sunday - **MV Baltic Radio**

3rd Sunday - **European Music Radio** (June)

4th Sunday - **Radio Gloria International**

We wish you good listening and good reception! (Tom Taylor/Direct) I would like to inform you that I will be moving home at a later date of June/July 2010. I will keep you informed! (Tom Taylor)

Rumours these days, **Bayerischer Rundfunk** Munich Ismaning will cease SW transmission 6085 in DRM for ever, due of budget cuts. (wb, wwdxc BC-DX TopNews May 7)

13710, came across of Saturday only transmission of **Evangelische Missions** at 1100-1130 in Russian language to all Russia and CIS states. M&B Nauen site, 250 kW at 20 degrees, S=9+20dB signal. Bible reading. Nice back lobe signal. (wb, wwdxc BC-DX TopNews May 8)

GUAM KTWR A10 English to South Asia and Pacific Regions:

9975 at 1400-1435 Tu, We, Fr-Su

9975 at 1400-1425 Mon & Th

11840 at 0830-0910 Mon-Sat

15170 at 0820-0900 Sun-Fri

(Alokesh Gupta/ARDXC ADXN)

Frequency change of **KTWR** Agat in Korean from May 2: 1400-1500 NF 11750 TWR,

x15425 (R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews May 1)

GUINEA 4900, some additional info about Familia, from station director Colette Baudais: "Our station **Familia SW** just began broadcasting intermittently at the end of March. We had some equipment challenges and we have them repaired a week ago and now we can now have nightly stable broadcasting. We are using what is called Low Power Short Wave. We use a 1000Watt transmitter built by HCJB Radio in the US. As far as I know there are only 3 stations like this in the world. The specs say that our strongest signal would reach a 400 kilometre circumference around the antenna at midnight. We are using an antenna that is 40 meters X 60 meters - most being buried in the ground and reflecting upwards. It is a unique design. Our goal is to broadcast in the languages of the country we originate in. That would be French, Pular and Maninka for the beginning. We are beginning from 6pm to midnight during our beginning period. There is no electricity where we are located so we are using solar and wind generators. Having enough energy for our transmitter and air-conditioner is proving one of our larger challenges. Thank you for letting us know we are being heard "out there". Mme Baudais, Directrice Générale Familia FM." (Jari Savolainen/DXplorer)

7125.006 **Radio Guinee**, at 1907, French, nice Cora music with talk by a man, convenient "Radio-Guinee" ID. Good signal and good modulation but still some problems, as the transmitter kept cutting out. The station was off, when I rechecked about 30-minutes later. At least it sounds as though they are "attempting" to stay on the air. 16 April. (David Sharp-NSW-AUS, via Wilkner/DXplorer)

GUYANA 3289.98, **Voice of Guyana**, 0620-0635+, April 25, tentative with English talk. Possible BBC program. Poor in noisy conditions. Reactivation? (Alexander/NASWA Yahoo Group) Carrier here at 0730, but not getting any audio. (Ferguson/NASWA Yahoo Group) Crooner ballads here at 0928. Fair signal. Waiting for an ID. 0938. Sounds like religious music now. Quickly losing it during local sunrise. (Barbour/DXplorer) 3289.99, V. of Guyana, 0905-0940 April 26, good level despite constant static crashes. Soft spoken man DJ in English, oldies pops "My Cup Runneth Over With Love," "You Light Up My Life," etc. TC's, birthday greetings, local anmts, "Good morning to you," "plenty of sunshine today." Starting to drop fast by 0940. Great to have this one back per cent rpt. (Herkimer/DXplorer) 3289.9 Voice of

Guyana (Georgetown) (presumed), 0323-0401, 4/27/2010, English. Pop music. Short announcement by man at 0330 followed by more music. BBC news by woman at 0400. Poor signal in a very noisy part of the band made worse by a new local noise source that started here last week. Could only understand a few words of the BBC news, and none of the 0330 announcement. Signal drifted up a bit, almost reaching 3290. Thanks to Brian Alexander for the initial report of reactivation. (Evans/NASWA Yahoo Group) Jaime Labadia was going to visit and activate around April 22 the new 10 kW SW transmitter he built for GBC, and there have now been several reports of something on 3290, partly in English including BBC relays, surely this but definite IDs seem hard to catch. For me so far, the signal alone has been hard to catch; checked April 28 around 0600 could detect no carrier on 3290, just the usual 3287.3 open carrier occasionally sending RTTY. (Glenn Hauser/NASWA Yahoo Group) 3290, Voice of Guyana presumed the one at 0723 with low level audio of a man with talk in English then brief piano music at 0729 and a woman with talk - Very Poor with threshold audio only May 6, (Mark Coady/NASWA Yahoo Group) 90 Guyana GBC has been very strong 0900 to 0935, using the noise reducing antenna, with subcontinental music and Bollywood pops. Clear Identification of Guyana at 0900. (Wilkner/NASWA Yahoo Group) 3289.9 V. of Guyana, May 15 0853, good with morning prgm, heavily accented DJ (Dave ?-) asking motorists to dim their high beams when driving, greetings to "early birds, early risers," Johnny Cash's "A Thing Called Love," reggae version of "One More Night," many birthday and anniversary greetings over twangy guitar music. Starting to break up by 0925. Carrier only at 0945 recheck. Even with constant static, best reception yet and reminiscent of the "good old days" of DXing. (Herkimer/DXplorer) Noted in Wyomissing with BBC news at 0400 with a lot of noise. (RAD)

HAWAII 10320 (USB), **AFRTS**. Continues to be off-the-air. Their website <<http://myafn.dodmedia.osd.mil/Shortwave.aspx>> shows what we have known for a long time now: Out of service for an indefinite period (Ron Howard/NASWA Yahoo Group)

HUNGARY *Hungarian Radio* shortwave broadcasts from Jaszbereny, details of which are in last month's column, will cease on June 30. They will then be broadcast, on the same schedule, from Wertachtal. (DX Mix News, Bulgaria via Wolfgang Bueschel/WDXC DX News)

INDIA 4760, **R Kashmir**, Leh, *0128, Apr 30, Urdu sign on, Vandematram, station ID and ann, Buddhist instrumental music, 34333. Also heard mixing with **AIR Port Blair** at 1325, Apr 29, very poor reception, talk heard, 22122. This is never noted in Kerala when Andaman station is so strong!). (Rajeesh/DX Window)

4950, **R Kashmir**, Srinagar, 0058, Apr 30, Urdu Station ID, ann, programme for farmers, songs, 43333. (Rajeesh/DX Window)

4970, **AIR Shillong**, 1230, May 16. News in English; 1235: local ID and PSA with security tips; "Well listeners, you are listening to the North Eastern Service broadcasting from Shillong on shortwave 60.36 meters, corresponding to 4970 kHz. It is exactly 6-0-6 PM by our studio clock and it's time for our western music program: music for you. This evening we have for you Kenny Rogers, Don Williams, Tammy Tucker and lots more"; 40 minutes of C&W songs; very good propagation; reception would have been fair to good except for the usual strong hum. (Ron Howard/NASWA Yahoo Group)

5040, **AIR Jeypore**, 0125, Apr 30, Sanskrit news relay from Delhi, 55555 // Jaipur 4910 // Chennai 4920 // Lucknow 4880 were good while Itanagar 4990 is poor and Mumbai 4840 and Trivandrum 5010 are fair. (Rajeesh). Both 5040 and 6040 off air May 10-12, but continues to send at 1467 MW. Jeypore has been a strong signal in my location in Eastern India. It's a pity that AIR's SW transmitters are getting weaker by the day. (Satpathy in DX-India/DX Window)

9425, **AIR Bengaluru**- National Channel, 1435-1500, April 21. The Wednesday edition of "Vividha" in English; segment with: "This is Earth Beat. The show about the environment and our impact on it. Produced by Radio Netherlands Worldwide, in partnership with All India Radio"; show about the future of hard copies of books and developments with digital books; believe this is heard every fortnight; fair. It's nice to see such a partnership between stations to bring listeners a better variety of programming! (Ron Howard/NASWA Yahoo Group)

INDONESIA 4789.8, **RRI Fak Fak**, 1209, May 18. Jakarta news relay; 1225: Anthem (choral); into their own music program. News relay and Anthem clearly // 3325 (RRI Palangkaraya) and 9680 (RRI Jakarta). Tentatively // 3344.96 (RRI Ternate) and 4869.93 (RRI Wamena), both very weak. CODAR QRM. At 1400 noted Love Ambon; still heard at 1414, but lost to CODAR and

fading out, so I missed whenever they signed off. (Ron Howard/NASWA Yahoo Group) 4789.96 RRI Fak-Fak 1250-1310 May 14. Vocal mx, YL ancr; 1259 two minutes of SCI, then Jak pgm at 1301. Apparent closedown anmt at 1309 and carrier off at 1310. Also noted next day with closedown shortly after 1300. Poor signal - wonder if signal strength since reactivation is down from previously. (Wilkins/DXplorer)

4869.93, **RRI Wamena** 1200-1220+ May 5. Out of mx and into talk at 1200 with no SCI or intro. Presume Jak program since // to 3325 and 3344.96. All freqs poor. Also heard next day (6 May) with Jakarta program at 1200. (Wilkins-CO/DXplorer)

9525.87v, **Voice of Indonesia**, 1308-1339, May 11. Another Tuesday edition of "Exotic Indonesia, a network program jointly broadcast live by Voice of Indonesia Jakarta and R-R-I Banjarmasin"; usual segments of news, editorial, Today in History, Focus and segment from Banjarmasin about the South Kalimantan ceremony for a woman's 7th month of pregnancy. 1340-1357, May 18. In English with Tuesday edition of "Exotic Indonesia"; cultural program from RRI Banjarmasin about the foods of South Kalimantan; almost fair, but still with hum. Today's connection to Banjarmasin was better than usual; at 1357 totally blocked (Ron Howard/NASWA Yahoo Group)

IRAN Updated A-10 English for Voice of Islamic Republic of Iran:

0130-0227 on 7245 9495 "Voice of Justice"
1030-1127 on 15600 17660
1530-1627 on 7305 9600
1930-2027 on *5940 6205 7205 7215 9800
*via Sitkunai, Lithuania (DX Mix News)

ISRAEL Kol Israel in Persian heard on 13850 with fair signal Mar 29, unjammed from interval signal before 1400 till 1407:50, when a poor Iranian army jammer started with tiny bubbling. (Wolfgang Bueschel) I heard a test transmission from Kol Israel in Russian Apr 26 1400-1500 on 11985, parallel to the FM service. (David Crystal, Israel) I checked Apr 27, fair signal in Russian but much splatter, went into Voice of Russia English at 1500 following interval signal. The programme was parallel to the Voice of Russia Russian service internet feed. Listed is Moscow 500 KW to the Middle East 1400-1800. (Mike Barraclough/WDXC DX News)

Kol Israel A2010 schedule in Persian:
1400-1500 11595, 13850
1500-1525 11595, 13850
(WRTH A2010 Supplement)

ITALY 26000, R Maria, Andrate, North Italy, is on air again in AM mode. Transmitter low power. (Bernardini/DX Window)

JORDAN 11960, Radio Jordan Amman in Arabic, scheduled 0500-0715. Observed 0340-0400, powerful S=9+35dB, nothing in // on 11810 empty. Noted at 0429 S=9+20dB on May 16. (wb, wwdxc BC-DX TopNews May 15/16)

15290, Jordan Radio Amman in Arabic noted at scheduled 1030-1130 slot, S=8-9 in southern Germany. Noon service is meant to Mediterranean area, North and West Africa. ID at 1114, excellent audio quality today. Cl-down of tx was midst on sentence at 11.35:58, May 7th. (wb, wwdxc BC-DX TopNews May 7)

KOREA (South) 6015, KBS Hanminjok Bangsong 1 (presumed) via Hwasong. Continues to have frequent periods with no jamming from N. Korea. 1422-1433, April 24; conversation in Korean; very faint QRM from PBS Xinjiang (// 4330); 1433 lost to the start of heavy jamming. Why do they only intermittently jam this? Are they really unable to jam them full time? (Ron Howard/NASWA Yahoo Group)

KUWAIT 15540 NF, Radio Kuwait, 1955-2112*, April 23, tune-in to English programming with mostly continuous English pop music. Several IDs, English news. Closing announcements at 2058. Anthem at 2059. Into Arabic talk at 2100. Abrupt sign off at 2112. New Frequency for English service. ex-11990. Thanks to Glenn Hauser tip. (Alexander/NASWA Yahoo Group) Radio Kuwait English service is now on new 15540 at 1800-2100. (Allen Dean, Edwin Southwell/WDXC DX News) Radio Kuwait in Arabic noted on Apr 14 at 1627 tune in, ID 1659 followed by news, fair reception, again heard on April 15. (Edwin Southwell/WDXC DX News)

KYRGYZSTAN 4010, Kyrgyz R 1, Krasnaya Rechka, 1520-1530, Apr 09, talk in Kyrgyz, 35433. (Beryozkin)

4050, **R Rossi** relay, Krasnaya Rechka, 1520-1530, Apr 09, Russian, 35443. (Beryozkin)

4795, **Kyrgyz R 1**, Krasnaya Rechka, 1523-1530, Apr 09, talk in Kyrgyz, 22432 // 4010, QRM: Voice of China on 4800. (Beryozkin) [All of the above via DSWCI DX Window]

Kyrgyz Radio 1 heard at 1753 on 15 Apr with operas or classical music, barely heard

due to very low modulation, parallel to with same audio problem. Signals S7/S9 respectively, 44332. (Zacharias Liangas, Greece) Following the ousting of Kyrgyz president Kurmanbek Bakiev Radio Free Europe/Radio Liberty's radio and television programmes returned to the air via the national broadcaster after a 2 year absence. Three hours of daily radio programming and two weekly primetime television shows are now being broadcast. (RFE/RL via Kim Andrew Elliott) The national radio and TV broadcaster buildings were violently attacked during the overthrow. Four of its five studios suffered irreparable damage. They are broadcasting from one studio, located away from their headquarters, which has outdated equipment. (ABU via Alokesh Gupta, Cumbre DX/WDXC DX News)

LIBERIA The Management of *Star Radio* has announced the re-activation of its shortwave service. The entity's Station Manager James Morlu disclosed the institution has begun test transmitting on its shortwave service. Mr. Morlu did not state the length of coverage of the new shortwave service, but said it creates a medium to interact with more listeners. According to him, the frequency of the shortwave is 4.025 MHz. He believes as the country strives towards its recovery process, it was prudent to have a viable information dissemination channel like the shortwave. More at : <http://www.starradio.org.lr/content/view/15968/380/>. (Alokesh Gupta-India/DXplorer)

MALAYSIA 6174.4v, *Salam FM*, 1606-1611*, May 12. With CNR-1 off-the-air on 6175.0, was able to hear them without the usual QRM; IDs and reciting from the Qur'an till suddenly off; // 6049.6v. If CNR-1 is down for maintenance, this is a good chance to hear Malaysia in the clear with Voice of Malaysia till 1400, then from 1400 to 1600 R. Suara Islam and then Salam FM till whenever they go off-the-air (Ron Howard/NASWA Yahoo Group) 6174.4v, Voice of Malaysia via RTM, 1256, May 20. Expected to hear the usual VOM IDs before ToH, instead heard them give an address: "Wisma Radio Angkasapuri, [a P.O. Box number], Kuala Lumpur, Malaysia"; noted several other references to "Radio Angkasapuri". The RTM Kuala Lumpur broadcasting center is called "Angkasapuri", so it is not an actual station/program. This is the first time I have ever heard this particular reference. After the news at 1308 heard the regular V.O.M. singing jingle; mentioned Bahasa Indonesia, which I assume was the language in use at the time. CNR-1 on 6175.0 continues to be off-the-air. (Ron Howard/NASWA Yahoo Group)

MAURITANIA 7245.024 *ORTM*, 0916, Arabic, nice local music, with brief comments by man. The transmitter actually came on just after 0800, with open carrier only, on about 7345.2, but finally settled just above nominal. Don't know at what time they started feeding audio, as I quickly tuned out and only rechecked after 0900. 10 April. (David Sharp, NSW Australia via Wilkner/DXplorer)

MEXICO 6105, *XEQM, Candela FM*, Mérida, 0830-0930, May 09, programme of cumbias with the tema: la pollera colorá; jingle "Candela la mas grande", ann a special program for Mother's Day: "... la mas grande celebracion del año... el dia de las madres con Candela... felicidades les desea Candela a todas las madres...", excellent signal. (Rodriguez). I received a sincere greeting and the old QSL-card from beautiful Merida verifying my reception report. Congratulations on my ventures on SW with happiness and joy in life. Signed by the team of Cadena RASA. (Gallardo/DX Window)

6185, *XEPPM, R Educacion*, Mexico City, 0005, May 15, well defined Mexican music, S=4. Unheard here since half a decade or so. (Bueschel). Also noted 0550-0650, May 14, nice Brazilian songs, not to be confused with RNA Brasil which is not on during these hours except UT Sundays. (Hauser). Also heard at 0830-0930, May 09, jazz music, ID: "...Radio Educacion , 85 años; voz de todas las voces...", ann new programs and hosts "...aquí en el 1060 de Radio Educacion...". (Rodriguez/DX Window)

MOLDOVA *Radio Moldova International* launches contest "Discover the Republic of Moldova. This contest is aimed to encourage the listeners from abroad to listen to the RMI station, motivate them find more information about the Republic of Moldova, familiarize them with the national values, promote in such a way the interest and the image of the Republic of Moldova in the world. The current year topic is Tourism in Moldova. While participating in our contest, you will have the possibility to find out the most picturesque places and legends linked to Moldova. The winner of the contest will have the possibility to visit them, or the Grand Prix of the contest is a trip to Moldova. Only listeners of the RMI station from abroad are eligible to participate. This contest will take place in 15 stages during the period of 17 May to 12 July 2010 with each stage consisting of 3 questions. The first refers to the general knowledge of the participants about Moldova. The second one is related to the tourist attractions of

Moldova talked about over the year and the third one is from the stories aired in between the stages. The questions will be broadcast in Monday and Thursday programs and placed on the site www.trm.md. The answers will be sent by email within a week after they are announced, at the following address moldovainternational@gmail.com, moldova-international@mail.md. They will be scored from 0 to 3 points, depending on correctness. The winners will be nominated, according to the points gained during those 15 stages. The Regulations of the Contest gDiscover the Republic of Moldova is on the following site www.trm.md. We invite you to participate in this contest, test your knowledge, find new things and you will discover an unknown Moldova. (Station Direct modified slightly by RAD) No longer on shortwave but clearly designed for international listeners presumably via Internet. (RAD)

MYANMAR 6035, Myanma Radio, 1423-1430*, April 28. Heard on this new frequency carrying a Minorities and Distance Learning Services lecture in vernacular; // 5915; both went off after the usual indigenous theme music. Heard 6035 again from 1452 to 1529 with non-stop EZL songs; 1530 into their routine segment in English with full ID and news; 1537: "That ends the news from Myanma Radio" and off-the-air; the usual 5985.76v was clearly off-the-air after checking at 1423. Is this a Naypyidaw transmitter?

6035, **Myanma Radio**, 1208-1337, May 1. In vernacular with music program till the start of the Minorities and Distance Learning Services lectures at 1330; // 5915. Was able to occasionally hear Vietnamese (PBS Yunnan) underneath, so the real loser here is Bhutan! Yesterday Myanmar was not here during this time period. So they seriously want to use this frequency! Heard FOUR transmitters on the air at the same time (5915, 5985.76v, 6035 and 7185.75v). Back in mid-March the Naypyidaw transmitter was pulled from service on 5985.0 and replaced with the off frequency Yangon transmitter. Perhaps the 6035 transmitter is the one at Naypyidaw, formerly on 5985.0? (Ron Howard/NASWA Yahoo Group)

May 5, **Myanma Radio**. The folks at Yangon and Naypyidaw are certainly experimenting with their transmitters! Tuned in at 1339 to find Yangon on about 5985.83v (past two days had been via Naypyidaw on 5985.00); then checked 5915 to find them with a distinctive ECHO; yes, they were broadcasting the same Minorities and Distance Learning Services lecture via TWO transmitters; echo ended about 1350;

checked 5985.83v again and found them still there, but suddenly heard a strong het; tuned down to 5985.00 to find that Naypyidaw had started broadcasting; after 1400 the Yangon off frequency transmitter went off the air. When 5985.00 and 5985.83v were both on they were NOT parallel. Strange developments! (Ron Howard/NASWA Yahoo Group)

NEW ZEALAND Radio New Zealand International (RNZI), the country's shortwave broadcaster receives no additional funding in the latest government budget for 2010/2011 announced in Wellington yesterday. Funding remains at NZ\$1.9m [US \$1.26m] and it's required to deliver 16 hours of good quality reception daily to a minimum of 11 Pacific nations with one 100kW analog transmitter installed in 1990 and one 100kW digital capable transmitter installed in 2005. The primary coverage nations it's funded for are French Polynesia, Cook Islands, Tokelau, American Samoa, Samoa, Niue, Tonga, Wallis and Futuna, Fiji, Tuvalu, New Caledonia and Vanuatu. The secondary coverage nations are Solomon Islands, Papua New Guinea, Nauru and Kiribati, whilst general coverage must be provided to the Asia/Pacific and Pacific Rim region including the Federated States of Micronesia, Marshall Islands and Palau. The Radio Heritage Foundation welcomes the continued funding of RNZI as recognition by the government that it provides a valuable service for New Zealand's interests in the Pacific. "At a time when many shortwave broadcasters face budget cuts and complete closedown of services, this continued confidence in RNZI's ability to deliver a quality service with a bare-bones budget is tribute to the extreme dedication to duty and pragmatism of the entire RNZI team" says chairman David Ricquish. (Radio Heritage Foundation, May 20)

NEPAL In April, I flew over Nepal twice and was lucky to see the snow covered, very high mountain tops above the clouds. Despite my many bandscans of the 60 mb from seven cities located 280 - 410 kms east of **R Nepal**, Kathmandu, I heard no signal on 5005, except in one case. That was from Gangtok in Sikkim where I listened just with the whip antenna: 5005, R Nepal, Kathmandu, 1136-1137, Apr 19, Nepalese talk, but very weak audio, 35431. (Petersen/DX Window)

NIGERIA 15120 VONigeria in English, new time? At that time, 1500-1520 listen to Voice of Nigeria in English at frequency 15120. Wonderful and strong signal here in Bulgaria. New hours of broadcasting for the

evening txion in English? (R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews Apr 23) Yes, heard also a powerful signal this morning in 6-7 UT range on 15120. Seemingly they use at VoNigeria now the new 250 kW Thomson French transmitters at Abuja, other channels are 7255, 9690, 11770 on other time of the day. New Abuja SW site finished already in mid Dec 2009, studio installation at Abuja downtown were still in progress. (Wolfgang Büschel, wwdxc BC-DX TopNews)

NORTHERN CYPRUS, TURKISH REP.

(Cyprus) Radio Bayrak, Northern Cyprus heard on 6150 at 0200-0225, Apr 3, horribly under modulated carrier in the clear as soon as co-channel Budapest had left. Faint traces of English pop songs on occasional peaks and whenever AIR on 6155 kept quiet. Actual identification will remain a challenge unless their long-standing audio problem is solved, if it ever will. Meanwhile I have no doubt this is them. (Martien Groot, Netherlands, DXLD via WDXC DX News)

PAKISTAN Pakistan and US Agency for International Development (USAID) May 13 signed an agreement worth \$8 million for provision of two AM transmitters to Pakistan Broadcasting Corporation (PBC) aimed at enhancing radio transmission coverage in Peshawar and Dera Ismail Khan. The United States Ambassador to Pakistan Anne W. Patterson, Director USAID-Pakistan Robert J. Wilson, Federal Minister for Information and Broadcasting Qamar Zaman Kaira and PBC Director General Murtaza Solangi signed the agreement on behalf of their respective governments. The signing ceremony held at PBC headquarters was also attended by Minister of State for Information and Broadcasting Syed Sumsam Ali Shah Bukhari and other high officials. (APP via Slaen/DXplorer))

PAPUA NEW GUINEA 3290, NBC Central with relay of Radio Gadona, 1254, May 17. Pop song in English; ID for Radio Gadona 95.5 FM; island instrumental music; bird calls; "News Roundup" in English (item about next year's ASEAN Summit to be held in Indonesia); DJ with music dedications for mostly island songs; many IDs for "N-B-C Central"; poor to fair. Always enjoyable to listen to their island music! (Ron Howard/NASWA Yahoo Group)

3905 **R. New Ireland** 1122-1147 Apr 20. YL with local anmts in Pidgin; island music from 1126-1137, then YL again. Thought I heard "NBC New Ireland" mentioned; not sure if is the ID they're using or just a

reference to NBC. Good signal, best in a while. (Wilkins/DXplorer)

5960, checking the new Aoki schedule file, the PNG entry previously shown as NBC Port Moresby is now shown as **Radio Fly**, in Tabubil. 24 hrs. (Dan Ferguson/NASWA Yahoo Group) 5960, Radio Fly heard here also at various times over the weekend (local evenings) but very tough going & no ID. Better signal today, 1015 - but still not great. If you Google the name, there is a report back in 2004 from David Riquish, when it started on FM. Seems to be associated with the Ok Tedi mine. Website: <http://www.oktedi.com/community-and-environment/community/radio-fly-and-otv> (Craig Seager- Bathurst NSW/ARDXC Yahoo Group)

Radio Fly is a community radio station which is funded and operated by Ok Tedi Mining Limited. It provides a vital community information service to isolated areas of the North Fly region, parts of West Sepik, the rest of Western Province and some areas along the border of West Papua. It broadcasts in English and Tok Pisin. The isolated location of Western Province means that access to mainstream media is very limited, but Radio Fly fills that void. The station is vital for the Community Mine Continuation process, informing villages of visits from community relations officers, and keeping them apprised of the environmental conditions and mine activity. A large chunk of the programming is focused on health and education messages as well as sustainable development, which is a topic very close to the listeners' hearts. As well as playing a wide range of music and entertainment, Radio Fly serves as a medium for dissemination of relevant information. The Tok Save (announcement) service is widely used by people all over the province, to announce social and business gatherings such as government visits, sports meets, women's training sessions, weddings, funerals, and workshops. The Western Province, unofficially known as Fly River Province, is both the largest in Papua New Guinea and the least populated. The Fly River system, the largest in the country, flows from the north to the south-east of the province. Western Province's 98,048 square kilometres makes up one-fifth of the landmass of Papua New Guinea, and its mountainous regions receive the highest average rainfall in the country. The island of Daru is the capital of Western Province, and is located to the west of the mouth of the Fly River. The seat of the Fly River Provincial Government, as it is known, is located in Kiunga, a port town on the Fly River around

737 kilometres from the river mouth. (Radio Fly Website via RAD)

PERU 4940, *R San Antonio* (tentative), Villa Atalaya, 2241-2254, May 07, Spanish talks on music, 2242 Spanish music, slightly like Rumba, 2250 male and female talks sometimes sounding like adv, 23222. (Otávio/DX Window)

5485.6, *Radio Frecuencia Popular* is a new shortwave station broadcasting from Olmos in Peru. The station plays traditional Peruvian music heard closing down around 0200. According to announcements heard by DXer Rafael Rodriguez in Colombia on February 20, the station also broadcasts on 1320 mediumwave, which is listed in the current World Radio TV Handbook as "Radio 1320", call sign OBU1S and address as Jirón San Francisco 239, Olmos, Provincia de Lambayeque, Peru. (DXing.info, April 26, 2010 via ARDXC ADXN)

5921.27, nothing much on SW these days. However, on a clip containing an und heard by Karel Honzik in CZE on 5921.27 I noticed what seemed to be a *Radio Bethel* feed, presumably relayed by their relay facility in Arequipa, earlier on about 5940 and 5950. Time of reception: 0029 to 0059, when clobbered by a megawatt operation. Date of reception: early May. This one would be audible in North America, so tally-ho everyone! Since programs originate in Lima, that's where the reports should go. Anders Hultqvist, in Stockholm, was happy to receive a prompt reply in EE for a report in SS. There is a reception report box on the Radio Bethel website menu. Now also heard (as a UNID) by Arne Nilsson, in Sweden. Is the 0030-0059 slot too early for the US/Can EST time zone? (Henrik Klemetz/DXplorer) 5921.27, UNID, maybe R Bethel, Arequipa, carrier fade in 2357-0150, May 16, very weak audio in UNID language, QRM 5915 *0000-0100*, Iranawila religious in English. Ex 5950. Thanks to Klemetz and Honzik. (Petersen/DX Window)

6173.90, *R Tawantinsuyo*, Cuzco, 2300-2345, May 04, Spanish religious programme, slow Peruvian music with flutes, 2305 and 2323 ID's, S 5-6. (Schulze). Did not propagate to Denmark on May 10 at 2300-2310. (Petersen/DX Window)

PHILIPPINES 6170.39, *PBS Radyo Magasin-DZRM* (possibly); 1239-1353, May 14. Recently have been checking here when RNZI is not on. Today had the strongest carrier yet, but still no audio. It also helps now that CNR-1 is off-the-air on 6175.0. The best window of opportunity to attempt to hear this would now seem to be on Fridays,

when RNZI recently has not signed on till 1400. (Ron Howard/NASWA Yahoo Group)

Radio Veritas Asia heard well from 1500 on 15350 in Tagalog and English. (Allen Dean, Lancashire/WDXC DX News)

PIRATE (Euro) FRS Holland is preparing the 30th anniversary which will take place in October 2010. We feel it's time to do a big on air celebration. An on air celebration would be incomplete without our listeners' input! Therefore we explicitly invite you as FRS listener to participate. We invite our listening audience to participate in the celebrations later this year. We'd like to receive your personal FRS memories. Put them on a sheet of paper or send them by mail and most wanted: record your personal message and send an mp3 audio file. All listener's contributions will be collected and together it will be our anthology of 30 years of SW broadcasts. When did you hear us for the first time, what was your favourite show, when did you get your first QSL, how much did you listen to FRS, any special on air moments you remember? All this info could be part of your personal FRS contribution. For any serious contribution, we have a nice surprise and that is a promise! Important: as we have to do a lot of preparations for that very special broadcast, we urge to send your contribution as soon as possible! <frs@frsholland.nl> or P. O. Box 2702, 6049 ZG Herten, the Netherlands. If you have any questions/ remarks, feel free to contact us!! 73s, Peter Verbruggen (on behalf of the FRS Team); a Balance between Music & Information joint to one Format.... (Station Direct)

4854.7, the UNID is a Greek pirate, said Henrik Klemetz, who forwarded my audio clip to Zacharias Liangas in Athens and to Dario Monferini in Italy. Dario sent it to Francesco Cecconi, in Taranto, who came back with the ID, *Radio Nikolas Dynamitis*, from the town of Tyrnavos in the Larissa Prefecture. This is the third harmonic of their X-band operation which used to be on 1625v, and is now on 1618.2. Well, who would have expected that....! Great job, Henrik! Thanks! (Arne Nilsson/DXplorer)

PORTUGAL *Radio Deutsche Welle*, Sines daily English for A10:

0400-0500 6180
0500-0530 6180
0600-0630 7325
1900-1930 17865
2000-2059 11865
2100-2157 9735

Reception reports to Radio Deutsche Welle, Customer Service, 53110 Bonn, Germany or info@dw-world.de. (Station Direct)

PRIDNESTROVIE (Moldavian S.S.R.)

6240 R. *Pridnestrowja Moldova* from Tiraspol via Grigoriopol Maiac site noted Apr 19 at 1759-1814 in French. Mon-Fri see only? WRTH Update of Febr 2010 shows the whole R. Pridnestrowja Tiraspol winter schedule under Moldova. Transform it to DST schedule. (Wolfgang Büschel, wwdxc BC-DX TopNews April 19/20)

RUSSIA 9690, R *Tatarstan*, *0610-0700*, Apr 21, open carrier from 0600, 0610 start of program with IS, ID and bulletin of news seemingly in Russian, very strong signal; was hoping for Voice of Nigeria (active on 15120 this morning). (Kuhl/DX Window) Also, 15110 at 0410-0500 and 15195 at 0810-0900. All frequencies via Samara. (TopNews)

RWANDA *Radio Deutsche Welle*, Kigali daily English for A10:

0400-0457 7240
0500-0530 9700
0600-0630 15275
1900-1930 11795
2000-2057 6150
2100-2200 11865 15640

Reception reports to Radio Deutsche Welle, Customer Service, 53110 Bonn, Germany or info@dw-world.de. (Station Direct)

SARAWAK 7270.01 *Wai FM* via Kuching 1244-1315 May 9. Droning chant to 1250, then pop mx to ToH and 2 pips; presumed news in Bahasa Malaysia followed. Thought I heard a Wai FM jingle at 1211 but not sure. Don't know what the Wai/Limbang schedule is these days. (Wilkins-CO/DXplorer)

SAUDI ARABIA 17785, R *Riyadh*, 0750-0800, Apr 21, English service, Arab Press Review, ID as "Radio Riyadh" (home service), time check for local time, 0800 start of French service, ID, frequencies, programme preview, recitations from Holy Quran, very strong signal S9+. (Kuhl/DX Window)

SLOVAKIA R. *Slovakia International* has announced schedule changes May 1 to Sep 30. On Mon, Tues and Wed they will only broadcast on one frequency. On even weeks English will be at 0100 on 5930, 0700 on 11650, 1630 and 1830 on 6055. On odd weeks English is at 0100 and 0700 on 9440, 1630 and 1830 on 5920. No changes to schedule on other days. (Website via Jean Michel Aubier, France/WDXC DX News) Radio Slovakia International (RSI) carries the following announcement on its website: "During the period between the 1st of May and the 30th of September 2010 the following changes will be implemented in

our broadcasting schedule. Monday, Tuesday, and Wednesday broadcasting will only take place on one frequency. Highlighted frequencies will be broadcast during even weeks. Frequencies which are not highlighted will be broadcast during odd weeks. There will be no changes to broadcasts during Thursday, Friday, Saturday and Sunday." The comments refer to the transmission schedule on this page. No reason is given for this decision, but it should be noted that RSI dropped shortwave completely for a few months in 2006 due to budget cuts. (RSI website via Slaen/DXplorer)

SOLOMON ISLANDS 5020, *SIBC*, 1143-1201*, April 27. In English; local religious program about Christian values presented by Seventh-day Adventists (sounded like local accent); religious song; 1156: "devotional" and a prayer (speaker with British accent); 1159 sign off announcement with frequencies ("This is the Solomon Islands Broadcasting Corporation"); National Anthem; almost fair, but with some QRM from 5025; open carrier usually continues on for a long time. (Ron Howard/NASWA Yahoo Group)

SRI LANKA *Radio Deutsche Welle*, Trincomalee daily English for A10:

0000-0058 9885
0300-0358 12005
0400-0500 15400
0900-1000 17820
1600-1658 6170 9485 9540 (to 1700)
Reception reports to Radio Deutsche Welle, Customer Service, 53110 Bonn, Germany or info@dw-world.de. (Station Direct)

15120, *Sri Lanka Broadcasting Corporation* on old frequency noted in English instead of 15745 in the morning at 0030-0330. (Alok Dasgupta-IND/TopNews)

SLBC English to be back on 15745 from 7th May onwards. SLBC (Sri Lanka Broadcasting Corp..) announced during its English txn today they will be back on 15745 KHz from 7th May onwards at 0055-0330. SLBC is temporarily using 15120 due to txer problem for its English txn at 0055-0330. 15120 suffers from co-channel QRM from CRI English 0300 onwards. Schedule: SLBC All Asia Service 0055-0330 (Sunday up to 0430) on 6005 (10 kW), 9770 (10 kW) & 15745 (35 kW). (Alokesh Gupta-IND, wwdxc BC-DX TopNews May 5)

SWEDEN R. *Sweden* English 1700-1730 only heard here on 13870, not 13600 as listed in last month schedules column. (David Crystal, Israel) 13870 only frequency

listed in English on their website when checked May 2. Aoki and Bierwirth have 13600 in Swedish 1700-1730. (Mike Barraclough/WDXC DX News)

THAILAND *Radio Thailand, World Service*

A10 schedule. Effective March 28, 2010 as per A-10 seasonal change

15275	0000-0030	English
15275	0030-0100	English
15275	0100-0200	Thai
15275	0200-0230	English
15275	0230-0330	Thai
17655	0530-0600	English
15275	1000-1100	Thai (Re-Run from 1800-1900)
7260	1100-1115	Vietnamese
7260	1115-1130	Khmer
6030	1130-1145	Lao
6030	1145-1200	Burmese
11870	1200-1215	Malaysian
9890	1230-1300	English
9575	1300-1315	Japanese
9575	1315-1330	Mandarin
9575	1330-1400	Thai
9575	1400-1430	English
7570	1800-1900	Thai
7570	1900-2000	English
9680	2000-2015	German
9680	2030-2045	English
9680	2045-2115	Thai

Radio Thailand, World Service (HSK9), Public Relations Department, Royal Thai Government, 236 Vibhavadi Rangsit Road, Din Daeng, Bangkok 10400, Thailand. (via Alokesh Gupta-IND, hcdx/TopNews)

TURKEY Frequency change for *Voice of Turkey* in Uyghur: 0200-0255 NF 9465 EMR, x7200. (R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews May 1)

TURKMENISTAN May 5 at 1750 noted Turkmenistan again active on 5015 with strong signal and mostly good modulation mainly in USB mode. (Jari Savolainen, Kuusankoski, Finland/DXplorer) Here in Colombo, very bad hum and India on frequency. (G. Victor A. Goonetilleke, Sri Lanka/DXplorer) AIR has been on the channel with mostly faulty transmitter with real bad hum and weak modulation. Now Turkmenistan is nicely overriding them. (Savolainen/DXplorer)

UGANDA *Dunamis Shortwave* on 4750 at 1500-1900; reports to Bible Voice Broadcasting, P. O. Box 425, Station E, Toronto, Ontario M6H 4E3, Canada or mail@biblevoice.org. (Station Direct)

VANUATU 3945, *R Vanuatu*, Port Vila, 0920-0932, May 10, English(listed) male alternating female talks, short music, 0930 instrumental music returning talks. Weak, unreadable 24222. (Otávio/DX Window)

ZIMBABWE *ZBC* heard on 6045 at 0229-0306 Apr 14, DJ in vernacular playing pop songs, weak but clear frequency throughout. (Martien Groot, Netherlands, DXLD/WDXC DX News)

DIGITAL RADIO MONDIALE: DRM Consortium unveils upgraded website. DRM Consortium has launched an upgraded new website with better features and special members' area for more interactivity at: www.drm.org and www.drm.org/index.php?p=products and www.dextra.com/rx320.html. (Wolfgang Büschel, wwdxc BC-DX TopNews)

EQUIPMENT Just received this from my friend Bob Brossell: "I just happened to notice that the E1 is gone; discontinued like the 2010 and SW77." (Gerry Dexter/DXplorer) I checked Universal Radio's website after seeing this and the "discontinued!" tag is on the E1 page. (RAD)

WRTH A2010 UPDATE The complete A2010 season schedules are now available to download, for free, from: http://www.wrth.com/updates_new.asp. The update is 100 pages and 400kb consisting of International and Clandestine/Target schedules, Frequency list, selected Language broadcasts and DRM. (Mike Barraclough-UK) Page distribution: cover, 58 pages of schedules, 26 pages of International Frequency List; 14 of Selected Language Broadcasts; and 1 page of Broadcasts in DRM. (RAD)

Schedules, news and other information about shortwave broadcasting activity can be sent to Richard A D'Angelo, 2216 Burkey Drive, Wyomissing, PA 19610 or via e-mail to rdangelo3@aol.com (please indicate in the subject that your contribution is for Listeners Notebook). Thanks! 73, Rich 

Pirate Radio Report

Mike Rohde • 2615 Willow Glen Road • Hilliard, OH 43026 • hfpirates@gmail.com

Greetings and welcome to the pirate report for June 2010.

The activity for the last month has remained high with plenty of opportunities for pirate DX.

Because of the level of activity there is a lot to be heard on frequencies other than 6.925. For best results look for the ops between 6.800 MHz and 6.955 MHz.

This month I have the pleasure of presenting an interview with WEAK Radio. WEAK plays a wide mix of music and often can be counted on to have a Stout signal in many locations. So, let's see what WEAK Radio has to say:

When did you first become interested in pirate radio?

I became interested in 'pirate radio' at a fairly young age back in the early 70's, as in wanting to get on the air, possibly before ever hearing of the term "pirate". Years later, I was into electronics and read about pirates in publications covering the subject. I always kept up with the pirate column in Popular Communications from its beginning in 1982 or so, but lacked a decent receiver for pirate DXing. I finally bought a decent receiver the summer of 1987, and that evening dialed in my first pirate catch.

What inspired you to become an op?

Years ago, an article in Popular Communications explained how to convert a common FM radio into a transmitter, so with that my first pirate operations began around 1983, on the FM broadcast band. Just a regular FM radio modified, and fed into a couple of FM booster amps and a FM beam from Radio Shack. That was good for 3 miles coverage. Later I improved to a quality transmitter and higher power etc, but discontinued FM in 2008 with the move to HF operation.

How would you describe your programming or programming style?

If you've heard WEAK Radio, you know my programming is mostly music Rock, blues, noisy punk and noisy other stuff of some form or another, some comedy at times not set to any one particular format.

Is there something in particular that you hope to accomplish with your operation? Or in short why do you do it?

When I began operating on HF, it was mostly with the intent to give back to the hobby, to hopefully help out in some way for listeners and ops. I also hope to inspire others to become ops. We have to keep the hobby going.

Which pirate stations do you enjoy listening to?

I enjoy listening to ALL pirates. Part of the fun is never knowing exactly what type of format will be carried from any individual pirate. Be it parody/comedy, many genres of music, or most anything that isn't normally heard on typical commercial broadcast stations can be of great interest.

Are there any pirate operators/ stations that you admire and why?

None in particular I admire all of the pirate ops. There are some low power AM ops that amaze me with how well they can be heard. I enjoy the production pirates with their creative programming. The live on air pirates are always interesting as are the technical minded ops who really know what they're doing.

I'd like to thank WEAK Radio for the opportunity to interview him and to bring some of his insight to his listening public. Best wishes to you in the future and I'm sure we will all be listening for you on the air!

And now to the logs! My many thanks to the folks that have contributed this month.

Captain Morgan, 6925a, May 22, 1534, on with an unusual morning broadcast. Playing the blues this morning. ID @ 1534. (Rohde-OH)

Captain Morgan, 6924.6, May 2, 0016-0052*, Program of jazz blues vocals hosted by Captain Morgan with several IDs and e-mail address (captainmorganshortwave@gmail.com) but IDs and address were generally lost in the noise until around 0048 and 0052. Poor to fair. (D'Angelo-PA)

CYOT, (Id via FRN Web site), 6950 0124-0138 Fair/Good signal with old time radio program and blues songs. There was some interference from a numbers like station saying F59 using LSB. (Majewski CT)

Hard Tack Radio, 6925u, May, 16, 0010-0032, 45243, Play Civil War era tunes over an active noise floor. (Rohde-OH)

6925, **MAC**, April 25, 0033-0051, Donavan with "Season of the Witch". AC DC with "Highway to Hell", IDs by a woman announcer. Male announcer with gibberish talk. Sinatra with "Love and Marriage." Good signal. (D'Angelo-PA)

Northwoods Radio, 6925u, May 1, 1211-1213, 45344, Early morning broadcast featuring "The String Band". Note that Jackpine no longer checks his yahoo account. His active email is now northwoodsraio@gmail.com. (Rohde-OH)

Northwoods Radio, 6925u, May 1, 2201-2214, Heard palying an audio loop of a song called "F**king outside" (Rohde-OH)

Northwoods Radio, 6935u, May 2, 0139-0152, Music program with ID mentioning "broadcasting freedom from the Great Lakes." Song "My Best Friend's Girlfriend" followed. Fair. (D'Angelo-PA)

OutHouse Radio, 6925u, May 5, 0058, Good audio here although a bit drifty. (Rohde-OH)

Radio Cinco de Mayo, 6925u, May 5, 0125-0151. The annual broadcast of this op in Spanish. (Rohde-OH)

Radio Free Euphoria, 6925a, 0341-0353, 35343, Weak signal sometimes obscured by static crashes. "are you ready", "up in smoke", 0353 ID by Ganja, Generally, Ganja doing his crazy stuff. (Rohde-OH)

Radio Free Mars, 6925u, May 2, 35333, moderate signal just over a spiky noise floor. Sounds like Radio Free Mars from a series of IDs at or around 0324, "The Bitch is Back" Rocket Man, as series of Radio Free Mars ids ~0329 off. (Rohde-OH)

Radio Ga-Ga 6925U, 4-30, *2318-2352* 4/30/10 SIO=242. Prgm of rock mx incl the R. Ga Ga song and Badge by Cream. Clear OM ID at 2326. SSTV digital bcst at close, followed by another voice ID. (Zeller-OH).

Radio GA-GA, 6930u, May 3, 2310-2333, 45344, good signal on top of a noise floor with static crashes, Very nice signal here tonight , Led Zeppelin, Pink Floyd, "don't fear the reaper", off with the traditional SSTV (Rohde-OH)

Radio Mushroom, 6925u, Apr. 24, 0152-0202*, Southern Man by Crosby, Stills, Nash and Young with ID, e-mail address and closedown announcements mentioning it is the only pirate station powered by pure nuclear energy at 0201 prior to carrier cut. Fair to good. (D'Angelo-PA)

The Crystal Ship, 6876, 5/9, 2251-0035+ Fair/Good signal Show was songs from the fifties and sixties like Great Balls of Fire (Jerry Lee Lewis), Yacty Yac (Coasters) and others from the Supremes and Rolling Stones. Nice Show. (Majewski CT)

The Crystal Ship, 6876.06, May 2, 2320-2330, Doors music. Fake Toyota ad. IDs. Email address. Fair to good. (Alexander-PA)

WEAK Radio, 6940u, May 2 at 0040 just as I tuned in a bit of music, heard ID from WEAK, and weak @ gmail.com Nothing further, so apparently signed off. Was not too weak (Hauser, OK)

Wolverine Radio, 6925u, May 16, 6925, 0358-0422*, Non-stop rock music programming with Mama's and Papa's "California Dreamin'" and Michael Jackson "Never Can Say Goodbye" noted. ID at 0420 followed by SSTV until 0422 when carrier terminated. Fair to good with some deep fades. (D'Angelo-PA)

WHYP, 6.875, May 13, 0140-0146, "Stay away from drugs", "drugs will take your life away", 0142 WHYP ID now 45344 A good signal over a spiky noise floor here. Good signal stability, 0142 females singing a song in French, 0146 WHYP ID with Tony Straka. (Rohde-OH)

WHYP, 6925 5/9 0120-0123, Good signal, but the audio was weak. Played I'm afraid of Americans (David Bowie) then off middle of the song. (Majewski CT)

WMPR, 6925a, May 19, 2343, 45434 The usual Techno dance music. 2348 ID (Rohde-OH)

WBNY, 6913a, May 23, 1150, 45333 Comedy skits and music. "I want to Kill Pop Radio" (Rohde-OH)

Euro Ops

Mystery Radio / Playback Radio (European), 6220AM, 5/8, 2240-2300* Poor signal. Id was cover by noise (normal). From the type of popular music, it was probably Playback Radio. (Majewski CT)

Radio Amica, 7610.05, May 15, 2325-2340, Italian talk. ID. Euro-pop music. Weak. Poor in noisy conditions. (Alexander-PA)

QSLs

Radio Cinco de Mayo (Rohde-OH)

Hard Tack Radio (Rohde-OH)

Well that's it for this month. Wishing everyone good propagation!

73s Mike



Contributors' Page

Bob Montgomery • 86 Pumpkin Hill Road • Levittown, PA 19056 • rmonty23@verizon.net

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA
Scott BARBOUR, Intervale, NH
Rich D'ANGELO, Wyomissing, PA
Gerry DEXTER, Lake Geneva, WI
Jim EVANS, Germantown, TN
Bob FRASER, Belfast, ME
Glenn HAUSER, Enid, OK
Ron HOWARD, Asilomar Beach, CA
Rob KIVELL, Gulf Breeze, FL
William McGUIRE, Cheverly, MD
Bob MONTGOMERY, Levittown, PA
Jim RONDA, Tulsa, OK
Harold SELLERS, Vernon, BC
Giovanni SERRA, Rome, ITALY
Mark TAYLOR, Madison, WI
Ed WLODARSKI, NJ

Icom IC-7600, two 100' LW
NRD545, MLB-1, 200' Beverage, 60m dipole
TenTec RX340, DX Sloper
NRD-545, Parker balanced doublet antennas
IC-R75, RX340, ALA100M Loop (20')
Sony ICF-2003 ICF-SW100S 2m LW
FRG-7, DX-398, SW-07, ATS-909, YB400 lw
eton E-1
R75 with MLBA-MK1 antenna
DX-380
R75, active antenna
NRD-545, R75, PAR EF-SWL antenna
E-1 and Sony AN-1 antenna
NRD-525 AD Sloper
R-75, eton E1, 2 Flexennas, EWE
RX340, 100' lw



QSL Report

Sam Barto • 78 Blakeman Road • Thomaston, CT 06787



ALBANIA: Radio Tirana International 6130 standard f/d "RTI Traditional Dress" cd. in @ 1 mo. (Nawrocki-NC)...Ed says that these days you can't seem to get a response from some stations while others send you a duplicate. This QSL is one of the latter...Sam.

ARMENIA: Deutsche Welle 9380 via **Erevan** f/d cd. in 1 mo. (Field-MI). Marlin, this site is just another way of spelling **Yerevan**.

AUSTRALIA: ABC Radio Tennant Creek 2325 f/d ltr. in 1 mo. v/s Laila Da Cruz Soares, Administration Officer Addr: ABC Business Services, 1 C Cavenagh Street, Darwin, NT 0801, Australia. Also rcvd. a very nice station sticker. (Nawrocki-NC).

STATION NOTES: Southern Sudan Interactive Radio Instruction 15205 v/s Kent Noel Email: knoel@edc.org **Star Radio** 11890 Addr: Foundation Hironnelle, Avenue du Temple 19c, CH-1012 Lausanne, Switzerland.

Email: info@hironnelle.org **Sudan Radio Service** 7120 v/s Tam-buro Michael Renzi, SRS Marketing Coordinator. Email: srs@edc.org or srs@sudanradio.org Addr: UMENE Plaza, Opposite Dagoretti Corner, Nalvasha Road, Off Ngong Road, P.O. Box 4392-00100, GPO, Nairobi, Kenya...via PLAY DX



"La Nueva Voz del Papagayo"

H. I. B. B.

1530 KCS. - BANDA 60 METROS

APARTADO DE CORREOS NO. 2, LA ROMANA
REPUBLICA DOMINICANA
TEL. 474

29 de mayo de 1974

Sr. Samuel L. Barto

Box 402B RD #1

Morris, Conn. 06763

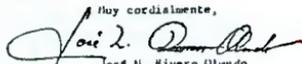
Estimado señor Barto:

Le presento es para verificarle el reporte que usted nos hiciera de la transmisión de nuestra radio-emisora H.I.B.B. La Nueva Voz del Papagayo en la frecuencia de 5.030 MHzertz, onda corta, en la banda tropical de los 60 metros.

Nos es grato notar que ustedes están recibiendo la señal de nuestra emisora en su país y esperamos que si en el futuro nos vuelven a captar, nos lo dejen saber.

Dándole las gracias nuevamente por su atención, quedo de ustedes

Muy cordialmente,


José H. Rivera Olmedo
Director

CANADA: Radio Vatican 6040 **CLARIN**

* via **Sackville** f/d "75th Anniversary" cd. in 9 mos. w/ program schedule and a very nice booklet about the history of the station. Photos of the Pope were also rcvd. (Field-MI) **Voice of Vietnam** 6175 via **Sackville** f/d "Rice Fields" cd. w/ station pennant and a station schedule. All for 2 IRCs. v/s Vu Hai, Director of Voice of Vietnam World. (Wilkins-MO)...I just came back from 10 ds. fly fishing in Branson, MO on Lake Taneycomo on the White River...Sam.

CLANDESTINE: Ethiopians for Democracy

* 11835 via **Nauen** f/d Media Broadcast attachment in 250 ds. from v/s Michael Puetz. (D'Angelo-PA).

台北國際之聲
Radio Taipei International

您所接獲之報告內容與本台播出的節目一致，謹此聲明。

日期: UTC
時間: UTC
頻率: UTC
語言: UTC

Date: Dec/27/01
Hour: 1230 UTC
P.O. Box 24-38 Taipei, Taiwan
Frequency (kHz) 9610
Program language: Eng/zh

To: MR. SCOTT R. BARBOUR, JR.
Your report is hereby verified as fully correct.
We would be glad to hear from you again.

切勿將此單作爲證據
Do not give a copy of this report to anyone
Check these notes and record

CROATIA: Voice of Croatia 3985 f/d cd. in 10 mos. after a f/up rpt. and \$2.00. (Colton-FL).

CUBA: Radio Nacional de Venezuela my report was sent to the Florida address and returned by the USPO with "vacant" stamped on the envelope. (Field-MI).

ECUADOR: HCJB 6050 2 f/d cds. w/ station calendar and a personal note. (Field-MI).

HD210A 3810 Time Signal Station f/d cd. w/ ltr. in 23 ds. for a SP rpt. and \$1.00 (Colton-FL).

ENGLAND: Deutsche Welle 5905 via **Woofferton** f/d cd. in 1 mo. v/s Horst Schulz. (Field-MI).

ERITREA: Voice of the Broad Masses of Eritrea 8000 f/d cd. in 9 mos. after a f/up rpt. and \$2.00 (Colton-FL). 7175 f/d cd. in 6 mos. for a taped rpt. and \$2.00. (Smith).

GERMANY: Radio Dabanga 13740 via **Wertachtal** ltr. in 1 mo. via the Netherlands address asking for monetary support. (Field-MI). **Trans World**

Radio 6105 via **Nauen** (actually East Germany) The station verified my email report with one of their own in 9 ds. from v/s Kalman Dobos in Vienna who thanked me for my report and promised to send a postal QSL card. He indicated that the WRTH email address of **twre@twr-europe.org** is outdated so it is not used any more - which implies it is still valid just not in active use. (D'Angelo-PA).

ГОЛОС РОССИИ
www.vor.ru



VOICE OF RUSSIA
letters@vor.ru

QSL Verification Card

Dear Mr D'Angelo,

This verifies your report on the reception of the Voice of Russia's broadcast in English

Date February 10, 2004
Time 21:19-21:59 UTC
Freq 6235 kHz - via Kaliningrad

We invite you to continue listening. Please feel free to write again with comments or questions about our programming.

Best wishes from the Voice of Russia

STATION NOTES: Radio Damascus International

9330 v/s Amalia Puga, Secretary. Email: radiodamascus@yahoo.com. **Radio Free Europe / Radio Liberty** 12005 via **Udon Thani** Email: kazbundovak@rferl.org WEB: www.rferl.org
Addr: RFE / RL, Vinohradska 1, CZ-110 00 Prague 10, Czech Republic. **Voice of Turkey** 11835 v/s Mrs. Gecim Ufuk, Director of the German Service. Addr: P.O. Box 333, 06443 Yenisehir, Ankara, Turkey...for the Italian Service use: Email: italian@trt.net.tr
Radio Dunamis Shortwave 4750 Email: mail@biblevoice.org v/s Cynthia Violette (Email: viocyn99@yahoo.com) Addr: HAGCM, P.O. Box 425, Station "E", Toronto, Ontario M6H 4E3, Canada. If you report direct to Uganda use: v/s Bwayo Katami Richard, Program Presenter. Addr: P.O. Box 4260, Kampala...via PLAY DX...Sam.

GUATEMALA: Radio Verdad 4052.5 f/d cd. w/ calendar, ltr, beautiful station pennant, bumper sticker and other goodies in 22 mos. after a f/up

rpt. 740 watts. v/s Dr. Edgar Amilcar Madrid, Director and Manager wrote a very nice ltr. apologizing for the delay since they did not



WALES RADIO INTERNATIONAL - RADIO RHYNGWLADOL CYMRU
Pros Kalron, Cymych, Pembrokeshire, SA41 3QE, Wales, UK Tel: +44 [0] 1437 563361 Fax: +44 [0] 1239 831390
e.mail: jenny@wri.cymru.net RealAudio Web Site: http://wri.cymru.net

Clack Alexander Homenyck

We are happy to confirm that the transmission you heard on:

Date	Time (UTC/GMT)	Frequency	Transmitter	Programme
11-1-2000	21:30	6.010	Skelton	Celtic Notes

is a Wales Radio International programme.

Thank you for getting in touch. We hope you were able to enjoy our programme. Do try for the WTB travel events featured and have a good reason for wanting to come to Wales. Good luck.

Jenny O'Brien

National Association of

NASB

Shortwave Broadcasters

This QSL confirms your report of
the Voice of the NASB

Date (UTC):	Apr. 18, 2004
Time (UTC):	0230-0258
Freq. (kHz):	7385
Via:	WRM1

Analog DRM/Digital

By: *[Signature]*

National Association of Shortwave Broadcasters
10400 NW 24th St. - Chowhechoke, FL 34672 - USA

www.shortwave.org

Scott R. Barbours, Jr.
P.O. Box 893
Intervale, NH 03845

receive my earlier rpt. probably because the address I used was incomplete. Dr Madrid stated that the station is very close to returning to shortwave after lightning destroyed the transmitter in September of 2008. (Colton-FL).

KUWAIT: Radio Kuwait 9880 and 11990 n/d form "Thank You Note" in 26 ds. after a follow up report in 1463 ds! v/s Layali Mulla Hussain, Head of Frequencies

Propagation Section. Also rcvd. pocket calendars and a very nice desk calendar....1463 ds! Maybe Kuwait got some bailout money...Sam.

MALAGASY REPUBLIC: Radio Dabanga 13800 ltr. in 1 mo. This was QSL #1800 for me. (Field-MI)...congratulations...Sam.

MOLDOVA: Deutsche Welle 9380 via Grigoriopol 2 f/d cds. w/ station pennant in 1 mo. (Field-MI).

USA: WTWN 5755 My report which was sent to the Lebanon, TN address was returned by the USPO as insufficient. (Field-MI). **Deutsche Welle** 9865 via **WSHB** f/d cd. in 1 mo. from the DW Customer Service Department.

STATION NOTES: SW
Combination Holland 6380 Email: swch@live.nl
Studio 52 6310.7 Email: studio52@planet.nl
The Shortwave Cowboys 6375.2

Email: theshortwavecowboys@hotmail.com

Radio Prague 11700 via Sines Addr: Vinohradska 12, CZ-120 99, Prague 2, Czech Republic

TDP Radio 7590 via **Krasnodar** v/s Ludo Maes Addr: P.O. Box 1, B-2310 Rijkevorsel, Belgium. **RTE** 6225 via **Meyerton** New Addr: P.O. Box 234, Meyerton 1960, South Africa. v/s Sikander Hoosen, High Frequency Coverage Planning, Operations and Maintenance. ...via PLAY DX...Sam.

Dear Mr. Willshaw,

we verify your reception report

Date : April 30 2001 Time : 03.30-04.00UTC

Frequency : 11960 kHz Language : Russian



Sincerely,

Radio Minsk



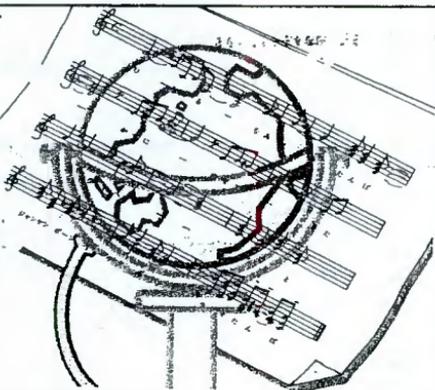
SEARCH

第1放送
3825/8.055/8.559MHz
第2放送
3945/8.115/8.703MHz

CBSC.

BSデジタル放送
3000w/301cm

Thanks For Your QSL



(Field-MI). **Radio Marti** 6030 f/d ltr. in 15 ds. for \$1.00 which was returned. (Colton-FL).

So now we end another month. I hope everyone has a great summer.

[Signature]

Scoreboard

Gary R. Neal • P.O. Box 1 • Cockeysville, MD 21030-0001 • grneal@earthlink.net

This month we are highlighting our members' totals from Asia. Ranking is based upon Asian Countries Verified. This is your chance to show everyone how well you are doing. The next deadline is August 15th for the September 2010 issue of the Journal. The spotlight will be on Europe.

Name, State	Total		Asia.		Best Asia QSL
	C/H	C/V	C/H	C/V	
Dan Henderson, MD	249	245	73	70	R. Voice of Justice
Jerry Berg, MA	244	244	70	70	Em. De Radiodifusao de Timor
Marlin Field, MI	245	245	69	69	RRI, Serui, Irian Jaya (500 w.)
Steven R. Lare, MI	239	225	71	66	Bhutan (10 Kw)
Harold Cones, VA	234	232	65	64	BBCS Bhutan
Rich D'Angelo, PA	225	223	63	61	R. Afghanistan
Chris Lobdell, MA	229	225	61	60	Bhutan 5030
Sheryl Paszkiewicz, WI	222	218	64	59	Myanmar
George Maroti, NY	206	200	59	57	Bhutan
Ron Howard, CA	212	200	61	56	Azad Kashmir
Stephen Price, PA	198	183	61	56	DPRK & Burma
Paul Buer, FL	219	208	56	53	The Voice of Peace (400 w.)
Christos Rigas, IL	217	198	60	53	R. Bahrain
Jim Evans, TN	211	201	55	50	R. Bangladesh
Stephen Leite, MA	210	194	48	48	Campuchea Peoples Republic
Allan R. Loudell, DE	192	167	53	46	Goa
Ross Comeau, MA	193	172	49	45	VO Meteorology
James R. Renfrew, NY	189	161	49	42	Cambodia
George L. Glotzbach, MN	154	136	46	38	V. of Mongolia
Mark Humenyk, ON	169	148	47	36	Kol Israel
Gary R. Neal, KS	137	127	38	36	Voice of Hope, Lebanon
Jerry Johnston, KY	210	141	56	33	AIR-Andaman Islands
Bill Smith, MA	167	149	32	29	Lebanon
Scott R. Barbour, NH	168	115	49	29	AFN Diego Garcia
Paul Brouillette, IL	148	121	32	27	BPM-China
Dan Srebnick, NJ	156	121	35	24	Pyongyang
Edward G. Stroh, IL	135	104	30	23	V. of Vietnam
Scott C. Newman, IN	148	113	33	22	V. of Mongolia
Richard Bradley, MA	145	130	23	21	Korea, Dem. Peoples Rep.
Jilly Dybka, TN	145	108	36	20	R. Pyongyang
Richard E. Lawrenson, RI	142	126	14	14	V. of Mongolia
Gary W. Froemming, AZ	184	44	49	7	BSF Time Station (Taiwan)
Don Jensen, WI	255	251			
Wendel Craighead, KS	232	221			
Alex Vranes, Jr. WV	226	216			
Jerry Klinck, NY	220	202			
Dan Robinson, MD	230	196			
Bob Raymond, NH	175	150			
David Turnick, PA	144	129			
Larry Colton, FL	153	120			
John Mosman, WI	120	120			
Ken McCartney, OH	125	73			
Jerry Ervine, TX	110	60			



Tropical Band Loggings

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- 2310 **AUSTRALIA VL8A** Alice Springs 1040-1050 Noted here w/ weak audio; //2325-fair; //2485-good; 4/26. (Wilkner-FL)
- 2325 **AUSTRALIA VL8T** Tennant Creek 1310 Discussion of financial investments; poor; 4/27. (Sellers-BC)
- 2485 **AUSTRALIA VL8K** Katherine 1132 Just barely audible modulation vs noise lvl; while //2325 & 2310 were barely detectable carriers; 4/20. (Hauser-OK) 1244 Contact info; promo mentioning "105.7 Darwin"; TC for "WA", i.e. W. Australia; fair; 4/27. (Sellers-BC)
- 3185 **USA WWRB** Morrison 1155 Bro. Scare saying another major SW stn wants him 24/7 at a cost of \$50K per month; but he doesn't have the money for that, so please send him plenty; I happened to tune across him again on WWRB 9385 at 1423; saying he is rearranging radio skeds and asking for radio chex from Europe on 13845; then at 1425 cut to exactly the same pitch heard 2.5 hours earlier; also saying that last month 7-8 (presumably AM) stns were dropped; but 4-5 added; 4/14. (Hauser-OK)
- 3250 **HONDURAS R. Luz y Vida** San Luis 0026-0040 Hymn type mx; 0029 W anc in SS w/ ID; fair; 4/18. (Wlodarski-NJ)
- 3289.9rf **GUYANA GBC** Georgetown 0620-0732 (T); Possible reactivation?; EE talk; BBC nx prgrming; "BBC World Service" ID at 0700 & 0732; poor in noisy condx; Guyana has been heard in the past b/ casting BBC & VOA prgrming; 4/25. (Alexander-PA) 0323-0401 (P); Pop mx; short EE ancment by M at 0330 followed by more mx; BBC nx at 0400; poor sig in a v. noisy part of the band made worse by a new lcl noise source that started here last week; could only understand a few words of the nx & none of the 0330 ancment; sig drifted up a bit; almost reaching 3290; tnx B. Alexander for the initial rpt of reactivation; 4/27. (Evans-TN) 0804 BBCWS relay re Russian coal mine blast; futbol nx; BBC ID into business nx; fair; 5/8. (Barbour-NH) 3289.99 0205-0300 US pop mx including Ritchie Valens, La Bamba & Karen Carpenter tune; lcl ads; fair lvl but poor overall sig due to noisy condx; not able to make out much prg content due to t-storm static; 5/7. (Alexander-PA) 0800-0900 EE ID/freq ancment at 0800 w/ IDs as "National Communications Network" & "Voice of Guyana"; EE relg prgrming at 0803 w/ lcl choral mx; relg talk & Hindi vcls; Voice of Guyana ID at 0836; Qur'an at 0837; ID/freq ancment at 0842; lite instrumental mx at 0843; DJ talk at 0845 w/ personal Mother's Day greetings sent out; p-f; better than usual; nice to hear quite a few ID ancments; modulation during the relg talk portions appeared to be a little weak; 5/8. (Alexander-PA) 3290 0230 Quick check w/ orchestral mx & vcl; heavy QRN; my last official log of this stn was in '00; 4/25. (Dexter-WI) 2315 W anc in EE; pop vcls; 0010 brief commercial w/ cost "\$..and 75 cents.."; 4/25-28. (Wilkner-FL) 0820 M preacher in EE "...in the Book of Revelation" followed by SC mx to 0845; 4/30. (Wilkner-FL) 0000; 0900 Being heard well here in FL; 4/29. (Wilkner-FL) 0723 (P); Low lvl audio w/ M anc in EE then brief piano mx at 0729 & W w/ talk; v. poor w/ threshold audio only; 5/6. (Coady-ONT) 0900-0935 SC mx & Bollywood pops; clear ID at 0900; v. strong on the noise reducing antenna; 5/7. (Wilkner-FL) 0816-0830 Hindi mx; 0824 M anc w/ prg ancment & relg sermon for the Muslim community; 0833 ID followed by the National Song; 0445 "The Early Bird Show"; good; 5/8. (Wlodarski-NJ) 0617 Making progress here in logging reactivated; talk definitely in EE; probably BBC relay at this hour but not //9410, or at least not synchronized; S9+12 but the noise lvl about the same so copy difficult; as far as I could tell this was on 3290.0 (compared to 1290.0); not 3289.9 as some rpt; 5/9. (Hauser-OK)
- 3290 **PNG-NEW GUINEA TERRITORY R. Central** Boroko 1237-1401* Relay of "Radio Gadona" 95.5 FM; DJ w/ mx request show; "If you can sing or dance you can win up to 1,500 Kina for an original song or dance"; sponsored by the Media Council of PNG; register for the Port Moresby May 1 competition; 1300-1303: bird calls & "News Roundup" in EE; IDs for "Radio Gadona" & "NBC Central 95.5 FM"; R. Gadona is a new FM stn that started this year to provide coverage for the Central Province; v. enjoyable listening!; audio at naswayg "Files > Sounds" w/ IDs; 4/19. (Howard-CA)[nice catch-ed.] 0822-0845 Relg mx prg w/ M anc; 0826 Hindi mx; good; 5/16. (Wlodarski-NJ)
- 3310 **BOLIVIA R. Mosoj Chaski** Cochabamba 0905-0915 Lcl mx followed by W anc w/ relg talk in Quecha; 0910 religious lcl mx; fair; 5/8. (Wlodarski-NJ)
- 3320 **SOUTH AFRICA R. Sondergreense** Meyerton 0105 Modern mx w/ W vcls; followed by M & W anc; p-f; 4/7. (Kivell-FL) 0002-0015 M anc in Afrikaans w/ short prayer followed by the song "Southern Cross" & other pop mx; fair; 5/9. (Wlodarski-NJ)

- 3325 **INDONESIA RRI Palangkaraya** 1158 It pays for me to awaken a bit earlier than usual for better Asian recep; best heard in a long time; S9+18; with song; 1200 one pip; RRI ID; WIB timecheck; warta berita, the first minute of which w/ plenty of mx produxon; (P) headlines then W & M alternating; really no sign of Buka PNG on same freq; this is right at lcl sunrise in Enid; 4/14. (Hauser-OK) 1316-1445 Mostly w/ coverage of a concert of orchestra mx; classical western mx: "Bolero" by Ravel; etc.; assume concert was held in Jakarta as this was //9680-Jakarta; both fair; 4/16. (Howard-CA) 1235 W anc in Indo interviewing M over telephone; poor; 4/19. (Sellers-BC) 1232 Pop & EZL Indo songs; fair; 4/27. (Sellers-BC)
- 3329.53 **PERU Ondas del Huallaga** Huánuco 1030 Usual W anc w/ espanol; seemingly off for the two previous days; 5/1. (Wilkner-FL)
- 3345 **INDONESIA RRI Ternate** 1202 Nx in Indo but not //3325; or maybe it was just a bit out of synch; quite weaker than 3325; 3345 back to mx already at 1205; 4/14. [unid?-ed.]
- 3365 **PNG R. Milne Bay** Alotau 1016-1020 W anc w/ EE relg talk followed by lcl mx; poor; just above threshold lvl; 4/18. (Wlodarski-NJ)
- 3375.3 **BRAZIL R. Municipal** São Gabriel da Cochoeira 0918-0930 PP ballad type mx; 0921 W anc w/ ID; song ancments & dedications to listeners; fair; 5/8. (Wlodarski-NJ)[nice catch-ed.]
- 3905 **PNG-NEW IRELAND R. New Ireland** Kavieng 1237 (P); A bit of mx; but more than a semihour after LSR & soon losing out to SSB QRM; has to be R. New Ireland as RRI Merauke is inactive; 4/13. (Hauser-OK) 1214 (P); Weak AM talk; SSB QRhM; barely audible compared to Korea-3912 & much stronger Nikkei-3925; 4/19. (Hauser-OK) 1246 Mx; 1249 M & W anc in Tok Pisin; 1300 interrupted mx for ancments & nx; poor; 4/19. (Sellers-BC) 1337-1403* DJ in Tok Pisin playing pop songs; island songs; Chicago w/ "If You Leave Me Now", etc.; "Late Night Radio"; "17 minutes to 12"; mostly poor but f/down to v. poor by s/off; young kids singing Anthem before 1403*; 5/6. (Howard-CA)
- 3912 **SOUTH KOREA V. of the People** Kyonggi-do 1210 Solo singing briefly holding its own against SSB QRM; no jamming audible as usually the case; 3480: the usual KNDF clandestine from N. to S. Korea was missing; as was any jamming upon it; trace of the VOK 3560 feeder; 4/19. (Hauser-OK)
- 3925 **JAPAN R. Nikkei** Tokyo-Nagara 1240 Classical mx by guitars & other stringed instruments; good; //6055-poor; 4/19. (Sellers-BC) 0937-0945 JJ musical prg w/ modern, western type mx; p-f; 5/2. (Wlodarski-NJ)
- 3975 **HUNGARY Hungarian Radio** Jászberény *0400-0423 Musical opening followed by ID; flute mx before nx in Hungarian at 0405; numerous remote rpts before jingle ID at 0420; f-g w/ slight amateur QRM; 4/20. (D,Angelo-PA) 0412 (P); M & W anc in (P) Hungarian; weak; 4/29. (Coady-ONT)
- 3985 **CROATIA Hrvatski Radio** Deanovec 0200 M anc w/ "This is the Voice of Croatia" followed by fanfare & W w/ nx; fair but noisy; //7375-Germany; 4/23. (Coady-ONT)
- 3995 **INDONESIA RRI Kendari** 1251 Two M in Indo dialogue; 1253 W anc & mx which was interrupted at 1254 for another song; 1300 SCI followed by nx; poor; 4/27. (Sellers-BC)
- 4050h **USA KWMO** Washington 1134 Fairly good sig w/ John Gibson on Fox Newstalk network; i.e. 3 x 1350 from KWMO Washington MO; so they do both far-right jabber & CW mx as recently heard late at night; or is the C&W now displaced by The Mouth?; 4/14. (Hauser-OK)
- 4330 **CHINA Xinjiang PBS** Urumqi 1306 M & W in CC; (P) nx; not audible on //6015; fair; 4/19. (Sellers-BC)
- 4412.61v **LAOS Lao National Radio** Sam Neua 1208 Nx in Laotian; //6130; slightly lower in freq than recently heard; 5/13. (Howard-CA)[great catch-ed.]
- 4450 **NORTH KOREA KCBS** Pyongyang 1308 Patriotic chorus; M & W anc in KK; 2850 had similar prgrming but wasn't //; poor; 4/19. (Sellers-BC)
- 4460 **CHINA CNR-1** Beijing 1213 M & W in CC w/ children,s voices; sounded like a prg for children by the tone & style of the ancns vox; good; 4/27. (Sellers-BC)
- 4699.96 **BOLIVIA R. San Miguel** Riberalta 0928 Ancr w/ SS talk between ballads; poor; 5/11. (Barbour-NH) 4699.97 0143-0208 (P); M anc in SS w/ mx & talk; best heard in USB w/ fast QSB; strong static crashe; v. poor/barely audible w/ NIR12; 4/11. (Serra-Italy) 0000-0034 (P); Ballads & SS talk ment. el Senor; 0033 ancment w/ (P) ID; talk; best heard in SSB w/ strong static crashes; v. poor w/ NIR12; 5/3. (Serra-Italy)
- 4716.8 **BOLIVIA R. Yura** Yura 0049-0100 Lcl type folk mx; 0053 M anc in SS w/ ID followed by more lcl mx; fair; 4/18. (Wlodarski-NJ)
- 4746.95 **PERU R. Huanta 2000** Huanta 0056-0109* LA ballads & SS ancments ment. R. Huanta; abrupt s/off at 0109 w/ no ancments; best in SSB w/ fast QSB & strong static crashes; poor/almost fair; 5/3. (Serra-Italy)

- 4750 **INDONESIA-SULAWESI RRI Makassar** 1203 Ancr w/ remote rpt; back to studio ancr w/ several seconds of dead air; M & W ancrs w/ banter; p-f; 4/1. (Kivell-FL) 1233 In heavy mix w/ co-ch. China (or Bangladesh?); but Indo talk atop; also a late monitoring start for me; but at 1303 check; RRI Makassar was still audible on 4750 more than an hour after lcl sunrise; 4/13 & 15. (Hauser-OK)
- 4775 **SWAZILAND TWR Manzini** 0404*0435 Prg of GG talk & contemporary mx; ending w/ longer talk by M ancr; 0428 theme mx; "This is Trans World Radio, Manzini Swaziland"; same theme mx into another prg in unid. lang.; skeds show EE but this was not; possibly a S. African lang.; fair; 4/13. (Taylor-WI) 0358-0403 IS & ID as "This is Trans World Radio with German service to Africa from Swaziland" followed by a couple of minutes of dead air then into GM mx; good; 4/17. (Wood-TN)
- 4780 **DJIBOUTI RTD Atta** 0304 Two M in (P) AA & brief chanting at 0309; more talk; fair; 4/16. (Coady-ONT) *0249-0316 Open carrier w/ opening at 0300 w/ orchestra NA; M ancr in AA w/ ID & opening ancments; diff. M w/ recitations from 0303; good; 5/3. (D.Angelo-PA)
- 4789.93 **PERU R. Vision Chiclayo** Chiclayo 0307-0318 M w/ SS prayer & sermon: "Gloria, gloria... Alleluja.."; best heard in USB w/ inter-audio filter to null splash by strong R. Djibouti-4780; fast QSB & strong static crashes; poor w/ NIR12; 4/11. (Serra-Italy) 4789.94 0215-0225 M w/ relg talk "Alleluja, alleluja.."; W ancr at times; best heard in USB w/ NIR12 & inter filter; strong static crashes; v. poor; 5/01. (Serra-Italy) 4790 0928-0940 Song from "Man of LaMancha"; 0930 M ancr w/ ID & freq ancment; 0932 M ancr w/ sermon; good; 5/9. (Wlodarski-NJ)
- 4800 **CHINA CNR-1** Geermu 1234 Definitely in CC; interfering w/ CODAR; which is CNR1, 100 kW non-directional from Geermu per Aoki; nothing from AIR Hyderabad audible; 4/13. (Hauser-OK)
- 4810 **INDIA AIR Bhopal** 0037-0050 W ancr in vern.; ancments over mx; lcl chants w/ one ancment; best heard in LSB w/ mild CODAR & moderate static; poor/almost fair; 5/3. (Serra-Italy)
- 4840 **USA WWCR** Nashville 0229 WWCR-3 amid DX Block; canned ancment claimed it was on 4775 at 0300 Saturday, i.e. old winter sked; 5/2. (Hauser-OK)
- 4845 **MAURITANIA R. Mauritanie** Nouakchott 2352-2400 M ancr w/ string instrument talking & playing what sounds like lcl folk mx; S9 sig lvl; occ. EE heard but mostly in AA; fairly clear; two or three in conversation & string instrument playing; FF on occasion; thru ToH; sig getting better as time passes; 4/13. (Montgomery-PA) 2143-2150 Two M ancrs w/ AA cmntary; good; 4/17. (Wlodarski-NJ) 0508 In the clear w/ more than one voice chanting; accompanied by plucked instrument; WWCR was missing from 4840; but not for long; back at 0514 check; 4/18. (Hauser-OK) 2340 Two M w/ AA talk over lcl guitar mx; good; 4/27. (Coady-ONT) 0533 Traditional mx & AA dialect conversation; no QRM from silent WWCR 4840; 5/4. (Hauser-OK)
- 4870rf **INDONESIA RRI Wamena** 1209 Warta berita; // much stronger 4750-Makassar & a couple words out of synch; 4/14. (Hauser-OK) 1235 Did not start monitoring until 1235 & could still hear mx; 46 minutes after LSR in Enid; surely RRI Wamena & much stronger 4750-Makassar w/ Indo talk; 4/22. (Hauser-OK)
- 4875rf **BRAZIL R. Difusor Roraima** Boa Vista 0000; 0900 Being heard well here in FL; 4/27. (Wilkner-FL) 1030 The one noted here; 4/29. (Wilkner-FL) 0308-0330 Contemporary EG relg mx; fire & brimstone preacher in PP; ancr over mx w/ Santa Maria's; ID ancment at 0329 into ballad; f-g; 5/11. (Barbour-NH) 4875.4 0337-0404* M w/ relg sounding PP talk; 0356 M ancr w/ ID & quick ancments; back to (P) preacher for a few minutes before the ancr returned w/ ID & closedown ancments; soft instrumental mx bridge until choral NA; reactivation; 4/29. (D.Angelo-PA)
- 4885 **BRAZIL R. Clube do Para** Belem 0403-0408 Traditional LA mx w/ some pops; ID; fair; 4/17. (Wood-TN) 0955-1000 M ancr w/ PP relg cmntary; 1000 M ancr w/ ID; good; 4/18. (Wlodarski-NJ) 0920-0930 M ancr in PP w/ ID followed by commercial; 0926 pop mx; fair; 5/1. (Wlodarski-NJ) 4885.01 0149-0158 M ancr w/ ballads a & talk; ID "Radio Clube!"; back to mx prg; best heard in LSB to null lite CODAR & het; strong static crashes; poor/almost fair w/ NIR12; 5/9. (Serra-Italy)
- 4910 **AUSTRALIA VL8T** Tennant Creek 2150-2200 M ancr in EE w/ ID followed by C & W song; 2156 wx rpt; p-f w/ CODAR; usually not audible here at this time; 4/17. (Wlodarski-NJ) 0820 The one noted here; 4/30. (Wilkner-FL) [nice catches-ed.]
- 4914.96 **BRAZIL R. Difusora de Macapa** Macapa 0131-0149 PP mx; M & W w/ ancments; IDs & freq at 0132; ballads; best heard in SSB w/ fast QSB; strong static; CODAR; poor; 5/9. (Serra-Italy) 4915 0409-0420 M ancr in PP over mx; v. faint sig; poor; 4/17. (Wood-TN) 2206-2210 PP rap type mx; 2210 M ancr w/ TC & ID; p-f; 4/17. (Wlodarski-NJ) 0833-0845 M ancr in PP w/ commercials; TC & ID followed by ballad type mx; fair w/ CODAR; 5/2. (Wlodarski-NJ) 0904-0910 M & W ancrs w/ mx prg; fair; 5/16. (Wlodarski-NJ)
- 4920 **INDIA AIR Chennai** 1231 Nx in EE; weak; mixing w/ mx (P) via co-ch. Tibet; news // but an echo apart on weaker 5010-Thiruvani; 1235 4820 w/ mx & SAH; one of which would be Kolkata; the other Lhasa; plus SSB QRM; lcl sunrise in Enid was 1201; 4/13. (Hauser-OK) 1433-1444 V. nice to hear this w/out the usual QRM from Xizang PBS-Lhasa; in EEZ: "You have been listen-

- ing to a recording of the address delivered by the Honorable Prime Minister Manmohan Singh at the 16th SAARC summit at Thimphu, Bhutan"; //5010-Thiruvan` & 9425-Bengaluru; 4/28. (Howard-CA)
- 4930 **BOTSWANA VOA** Moeping Hill 0355 W w/ interview prg; M ancw w/ ment. of "VOA World News"; poor; 4/21. (Coady-ONT)
- 4935 **BRAZIL R. Capixaba** Vitoria 0842-0850 M & W ancw w/ PP relg type talk; poor; 5/2. (Wlodarski-NJ)
- 4940 **CHINA V. of Strait** Fuzhou 1211-1355 Special prgrming; live audio feed from the opening ceremonies of the Shanghai Expo; in CC; EE & FF; was just the audio feed w/ no ancw; unlike the CNR-1 coverage, which had their own cmntary in CC over the basic live feed; 4/30. (Howard-CA) 1300 Pips; "This is the Voice of Taiwan Strait News Radio"; this ID is consistently given at 1300; fair; 5/6. (Howard-CA)
- 4950 **PERU R. Madre de Dios** Puerto Moldanado 1030-1050 Noted here w/ opening to Florida almost daily; 5/1. (Wilkner-FL)
- 4960 **SÃO TOME VOA** Pinheira 0413 Nx interview in EE; f-p; //4930 Botswana-poor; 4/13. (Taylor-WI) 0400 M ancw w/ "VOA News" then "That,s news at five past the hour" at 0405 into "Daybreak Africa"; good; //4930-Botswana; 4/21. (Coady-ONT) 0428-0447 VOA editorial w/ W ancw in EE; ID at 0429 followed by Press Conference USA on VOA News Now featuring Congressmen Smith from New York; f-g; 4/24. (D.Angelo-PA)
- 4965 **BRAZIL R. Alvoradan** Parantins 0927-0935 Ballad type mx; 0934 M ancw in PP w/ relg prg; poor; 5/2. (Wlodarski-NJ)
- 4965 **ZAMBIA CVC** Lusaka 0414 Contemporary EE Christian mx; fair; 4/13. (Taylor-WI) 2232-2245 M ancw w/ relg talk followed by modern relg song; 2240 W ancw w/ ID; fair; 5/3. (Wlodarski-NJ) 0220-0305 (P); Non-stop mx; W ancw at 0234; more ballads & talk; best heard in LSB to null strong ute; strong static; v. poor w/ NIR12; 05/9. (Serra-Italy)
- 4985 **BRAZIL R. Brasil Central** Goiania 2338-2355 M ancw w/ PP jingle; back to mx at 2339; ID w/ jingle at 2341 & into what sounded like an advert; S6 sig w/ slight fades; 2343 back to mx; Abba tune at 2347 "Dancing Queen"; 4/12. (Montgomery-PA) 2254-2305 ID followed by PP pops; 2300 M ancw w/ freq & ID followed by two ads; good; 5/1. (Wlodarski-NJ) 0119-0131 M ancw in PP w/ brief, slow mx breaks at times; ballad at BoH; best heard in LSB w/ strong static crashes & fast QSB; poor w/ NIR12; 5/9. (Serra-Italy)
- 4990 **SURINAME R. Apintie** Paramaribo 0936-0949 Modern pop mx; 0938 M ancw in Dutch w/ ads; 0940 ID followed by relg type mx, "Rock of Ages" was the first selex; fair; 4/18. (Wlodarski-NJ) 0849-0900 Prg of hymns w/ "Amazing Grace" in EE; 0858 M ancw w/ ID; fair; 5/2. (Wlodarski-NJ) 0211-0225 Bad EE covers of Elton John & Chris DeBurg tunes; weak w/ lite band noise; 5/7. (Barbour-NH)
- 5005 **EQ. GUINEA R. Nacional** Bata 2136-2145 Afropops; 2140 M ancw in SS w/ ID followed by mx; fair; 4/17. (Wlodarski-NJ) 2244-2258 Modern ballad type songs; 2253 Afropops; 2355 NA followed by s/off w/ no ancment; fair; 5/3. (Wlodarski-NJ)
- 5010 **CHINA Guangxi Beibu Bay Radio** 1321-1400 A new freq for them!; in Vietnamese w/ EZL pop songs; BoH multi-lang IDs & ment. of "Top Music"; f-g w/ no AIR QRM; after 1400 heard back on their normal 5050; 5/6 not heard here; only heard on normal 5050; 5/5. (Howard-CA)
- 5010 **INDIA AIR Thiruvananthapuram** 0037-0045 W ancw w/ EE nx; 0039 ID; 0040 Hindi mx; fair; 4/18. (Wlodarski-NJ)
- 5010 **MADAGASCAR RTV Malagasy** Antananarivo 1848-1906 Afropops w/ M ancw between songs; 1903 M & W ancw; best heard in USB w/ fast QSB & moderate static; poor/almost fair; 4/10. (Serra-Italy) 0309-0330 M & W ancw w/ talk; sometimes together, sometimes individually; over pop mx most of the time; good w/ little fading; the best in some time; 4/17. (Evans-TN) *0253-0310 S/on w/ pop mx; IS at 0256; choral NA at 0258; Malagasy talk at 0300; relg prgrming at 0303 w/ relg mx & talk; fair; suppressed carrier USB; 4/18. (Alexander-PA)
- 5020 **SOLOMON ISLANDS SIBC** Honiara 1202 T/in just in time to hear a bit of mx; sounds like anthem; then open carrier from 1203; 4/18. (Hauser-OK) 1030 Island mx; good; 4/26. (Wilkner-FL) 1155 M ancw in Tok Pisin; 1156 devotional in EE to 1200 W ancw w/ ID; frequs; closing ancments followed by NA; as usual, carrier left on; fair; 4/27. (Sellers-BC) 1143-1201* Lcl relg prg in EE re Christian values presented by Seventh-day Adventists; relg song; 1156 devotional; 1159 s/off ancment w/ frequs "This is the Solomon Islands Broadcasting Corporation"; NA; almost fair but w/ some QRM from 5025; open carrier usually continues on for a long time; often past 1400!; 4/27. (Howard-CA) 1024-1035 Reggae mx; 1027 W ancw w/ song titles & listener requests; fair; 5/9. (Wlodarski-NJ) 1158-1200* In EE w/ s/off ancment & anthem; almost fair; they continue to daily leave their carrier on well past 1400; its a shame they do not b/cast any prgrming after 1200!; 5/13. (Howard-CA)
- 5035 **BRAZIL R. Aparecida** Aparecida 2305-2315 M & W ancw in PP w/ nx followed by ID; 2307 modern ballad type mx; p-f at times; 5/1. (Wlodarski-NJ)

- 5039.21 **PERU R. Libertad** Junin 1046 "...en el tiempo de Peru.." during brief break in RHC-5040 txmision; 4/26. (Wilkner-FL)
- 5045 **BRAZIL R. Cultura do Para** Belem 0847-0900 Modern, ballad type mx in PP; fair; 5/1. (Wlodarski-NJ) 0851-1000 Modern, ballad type music; 0900 Bee Gees song; exc.; 5/16. (Wlodarski-NJ)
- 5050 **CHINA China Huayi BC** Chengdu 1215-1230 Prg in CC; 1230 into non-stop CC pops; heard well above the QRM from co-ch. Guangxi Beibu Bay Radio; 4/14. (Howard-CA)
- 5050 **CHINA Guangxi Beibu Bay Radio** Nanning 1311-1346 Mostly in Vietnamese w/ pop songs; BoH multi-lang IDs; "This is Guangxi Beibu Bay Radio"; list of countries & freqs for FM; 4/14. (Howard-CA) 1205 Back to their normal freq!; buried underneath a much stronger China Huayi BC; so yesterdays b/cast on 5010 was just an anomaly or was it a trial run of some type?; Sei-ichi Hasegawa via Japan confirms hearing them yesterday on 5010 till 1405; when they moved up here where they are normally heard; 5/6. (Howard-CA) 1058-1137 (P); Slow contemporary mx; beeps & M ancr at 1100 followed by more mx; ancmnts by W at 1130 then M & W ancrs; initially moderate sig declining to poor; weak co-ch. stn underneath; possible second freq found on 9820 w/ similar mx & prg but not strictly in //; 5/12. (Evans-TN)
- 5059.98 **CHINA Xinjiang PBS** Urumqi 1656-1711 W ancr in CC hosting prg w/ various M & W talk; some ment. Zhong Guo; best heard in USB w/ lite ute; better in LSB to avoid RTTY; moderate, fast QSB & crackles; almost fair; 4/17. (Serra-Italy)
- 5120.37 **PERU Ondas del Suroriente** Quillabamba 1033 Musica latina; quick drift to .51; 4/29. (Wilkner-FL)
- 5580.2 **BOLIVIA R. San Jose** San Jose de Chiquitos 0056-0105 Lcl type mx w/ W singers; poor; 4/18. (Wlodarski-NJ)
- 5890 **N. MARIANA ISLANDS VOA** Tinian 1247 W/ noise jamming plus wavering het I had not noticed before; 4/13. (Hauser-OK)
- 5890 **USA WWCR** Nashville 0423-0455 Extremely nice prg of classic country mx featuring tunes by Johnny Cash; Marty Robbins; Lefty Frizzell; Johnny Horton; Stonewall Jackson; Flatt & Scruggs & many more; prg & stn IDs at 0450; good; 4/17. (Wood-TN) 

WORLD OF RADIO SHORTWAVE SCHEDULE AS OF MAY 28, 2010

Days and times here are strictly UT

Due to necessary production schedule variations, the Wednesday times, at least on shortwave, sometimes carry new show, sometimes previous show

Wed 1530 WRMI 9955 [hoped to be first airing]
 Wed 1900 WBCQ 7415
 Wed 1930 South Herts Radio +3935 occasionally, low power
 Thu 1900 WBCQ 7415 [often first SW airing]
 Thu 2100 WRMI 9955
 Fri 0030 WRMI 9955
 Fri 0330 WWRB 3185 [newish]
 Fri 1430 WRMI 9955
 Fri 2030 WWCR1 15825
 Sat 0800 WRMI 9955
 Sat 0800 IPAR/IRRS/NEXUS/IBA 9515 [usually ~2nd, 4th, 5th Sats]
 Sat 1330 WRMI 9955
 Sat 1630 WWCR2 12160
 Sat 1800 IPAR/IRRS/NEXUS/IBA 7290 Slovakia
 Sat 1900 WRMI 9955
 Sun 0230 WWCR3 4840
 Sun 0630 WWCR1 3215
 Sun 0800 WRMI 9955
 Sun 1130 South Herts Radio + 6255 occasionally, low power
 Sun 1515 WRMI 9955
 Sun 1900 WRMI 9955
 Sun 2330 WWCR4 9980 [new]
 Mon 0330 WWCR4 5890 [new]
 Tue 1530 WRMI 9955
 Tue 1900 WBCQ 7415
 Tue 2230 WRMI 9955
 Wed 0030 WRMI 9955

International Band Loggings

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

- 5930nf **RUSSIA Radio Rossii** via Petropavlovsk in RS 1247, new frequency with talks, singing, //5940, 7320 via Magadan and 7200 and 7230 via Yakutsk (Howard CA 4/27, Hauser OK 4/28)
- 5940v **BRAZIL R Voz Missionaria** Florianopolis in PT 2335, preaching and religious music, poor in noisy conditions, weaker on 9665v and 11750v (Alexander PA 4/24)
- 6010v **COLOMBIA LV de tu Conciencia** Puerto Lleras in SP 0425-0450, local music, announcements, short ID in EG as "The Voice of Your Conscience", talk, f-g with frequency drift (Alexander PA 5/2)
- 6025 **DOMINICAN REPUBLIC R Amanacer Int'l** Santo Domingo in SP 1000-1025, light instrumental music, ID, contemporary SP religious music, talk, poor (Alexander CA 4/23)
- 6030 **CANADA CFVP** Calgary (AM 1060 relay) in EG 1213, country/western music, traffic report, feature about historical dates, IDs, weak signal (Howard CA 5/14)
- 6035nf **MYANMAR Myanmar Radio** Yangon in Burmese/EG 1432-1537*, music, lecture on "Minorities and Distance Learning Services", fair on very crowded frequency, //5915 (Howard CA 4/28)
- 6035 **CHINA PBS Yunnan/Voice of Shangri-La** via Kunming in VT 1238-1300, music program, pips ToH, ID in EG "This is the Voice of Shangri-La brought to you by Yunnan Radio", fair (Howard CA 5/13)
- 6045 **MEXICO XEQ R Universidad** de San Luis Potosi in SP 1205, reactivated station with Elgar's Pomp and Circumstance march s/on theme, government PSA? mentioning Mexicana and Pemex, partial ID "Simonizas al 1190 de la amplitud modulada" (MW frequency), TC, classical music, good modulation but weak and fading vs noise level (Hauser OK 4/29)
- 6060 **CUBA La Voz de Venezuela** relay via Havana in SP, political commentary followed by a fiery speech very good (Fraser ME 4/15)
- 6055 **SPAIN REE** Noblejas in EG *0000-0102, North American transmission w/several features, requesting reception reports and comments at conclusion of broadcast, excellent signal (D'Angelo PA 5/3)
- 61348v **BOLIVIA R Santa Cruz** in SP 0100-0112*, SP pop ballads, ads, ID, abrupt s/off (Alexander PA 5/1)
- 6140 **COLOMBIA Radio Lider** Bogota in SP 0434, news, mentions of Colombia, ID "Cadena Melodia", pop music w/fast talking DJ, local ads and promos, fair w/noise (Coady ONT 4/29)
- 6155 **INDIA AIR** Bangaluru in Urdu 0020-0100, music, ID, news, S-8 w/fades (Montgomery PA 4/11)
- 6170 **NEW ZEALAND RNZI** in EG 0930-1000, ID, program details, classical harpsichord music, comedy skit, comedy "Building a Chicken House", pips 1000, ID, news, excellent (Wlodarski NJ 5/1)
- 6175 **CANADA V of Vietnam** relay in EG 0230, ID, news, feature on Russia, good (McGuire MD 5/9)
- 6180 **PORTUGAL Deutsche Welle** relay via Sines in EG *0400, ID, news, "Newslink" with in-depth features behind the news, TC at 0416, fair-good, //7240 Rwanda relay (D'Angelo PA 4/15)
- 6185 **MEXICO R Educacion** Mexico City in SP 0702-0728, full ID, frequency, talk about different types of Mexican "musica", vocal selections, fair to good (D'Angelo PA 4/20)
- 6190nf **NETHERLAND ANTILLES R Nederland** relay via Bonaire in DT *0100, bell chimes, ID, report on President Obama, mention of Gordon Brown, good (McGuire MD 5/12)
- 6195 **SINGAPORE BBC** relay via Kranji in EG 1329, promos for future "Soft Power" program, BBC podcasts and a technology report, news, fair signal (Sellers BC 4/27)
- 7110 **ETHIOPIA R Ethiopia** Addis Ababa in Amharic 0316-0400, OM hosting Horn of Africa vocals, ID at 0330, news, back to HoA vocals 0343, fair (D'Angelo PA 5/5)
- 7125 **GUINEA RTV Guinee** Conakry in FR 2324-2353*, OM w/long talk followed by a discussion with another OM, highlife vocals until carrier cut at 2353, fair w/sporadic ham QRM (D'Angelo PA 4/16)
- 71857v **MYANMAR Myanmar Radio** Yangon in Burmese 1406-1436*, running well beyond their normal s/off at 1330, lecture "Minorities and Distance Learning Services" with formulas and talking re "oxidation", "radio frequency", "molecule", etc., //5915 (Howard CA 4/19)
- 7200 **SUDAN Sudan Radio** Omdurman in AR 0326, Mideast music, brief talk, YL vocals, instrumental music b/w items, "Huna Omdurman...Sudan" ID 0334, YL with talk, good (Coady ONT 4/16) in AR *0238-0335, s/on w/Qur'an followed by talk, local music, chirping bird, good signal strength but QRM underneath from weaker Iran (Alexander PA 5/16) in AR 0404-0431*, news w/numerous mentions of Sudan and several remote reports, interview, fair-poor (D'Angelo PA 4/29) in AR 0257, traditional vocal music, announcements, pips at ToH, announcements and news, good (Evans TN 4/26)
- 7245nf? **IRAN VOIR Voice of Justice** in EG *0130, IS, ID, anthem, frequency, schedule, Koran reading, good (McGuire MD 5/4) ED: Could this be summer frequency in use already?

- 7260 **MONGOLIA** *Mongolian Radio 2* Ulan Bator in Mongolian 0212, very interesting indigenous singing accompanied by stringed and bowed instruments plus percussion, short introduction b/w songs, ID at 0225, abruptly off in mid-song at 0234, fair w/some ham QRM (Taylor WI 5/16)
- 7270 **MALAYSIA (Sarawak)** *RTM Wai FM* via Kuching in Malaysian 1327, two men with interview, announcements including a "Wai FM" ID, good (Sellers BC 4/19)
- 7295 **FRANCE** *Radio Algerienne* relay via Issoudon in AR *0400-0458*, sudden on w/instrumental music followed by quick ID, choral vocals, news, into Qur'an recitations, announcements and music, long talk and more vocals, more recitations, sudden off in mid-recitation, good (D'Angelo PA 5/16)
- 7375 **GERMANY** *Voice of Croatia* relay via Wertachtel in Croatian 2240, somber choral music, ID and schedule at 2247, into local music, good (Coady ONT 4/10)
- 7375 **GERMANY** *Voice of Croatia* relay via Nauen in EG *0200, ID, "Croatia Today", into news, good (McGuire MD 5/4)
- 7400 **BULGARIA** *R Bulgaria* in EG *0000, IS, ID, frequency, schedule, news, //9700 (McGuire MD 4/22)
- 9425 **INDIA** *AIR* Bangaluru National Channel in EG 1435-1500, the Wednesday edition of "Vividha", segment with "This is Earth Beat", feature about the environment and our impact on it, produced by Radio Netherlands Worldwide in partnership w/AIR (Howard CA 4/21)
- 9440 **CZECH REPUBLIC** *Radio Prague* in EG 2230, IS, ID, frequency, sked, news, g (McGuire MD 5/8) in EG 2248, feature "Sounds Czech" w/mazurkas and piano solos featured, good (Fraser ME 4/17) in EG at 2228, IS, ID, sked, Ian Willoughby with the news, very good (Coady ONT 4/27)
- 9526v **INDONESIA** *V of Indonesia* Jakarta in JP/EG 1258, ending Japanese programming w/address and IDs, into EG transmission 1300 w/ID, frequencies, website, "Sound of Dignity", news, g (Sellers BC 5/13) in EG 1312-1346, "Exotic Indonesia" a network program jointly broadcast live by VOT Jakarta and RRI Banjarmasin alternating news items from both places, editorial "Today in History" and "Focus", segment from Banjarmasin about diamonds, good with some hum (Howard CA 5/4) in EG 1300-1338, magazine segments, "News Around the Archipelago", "This Day in History", top headlines of the week and news in brief, travelog "Indonesian Wonders", "Music Corner", quite good modulation and not much hum (Hauser OK 5/9)
- 9580 **AUSTRALIA** *R Australia* in EG 1344, "World Football Weekly" a weekly program re soccer from around the world, mentioned results from Papua New Guinea, excellent signal (Kivell FL 4/2)
- 9665 **MOLDOVA** *Pridnestrovie Radio PMR* in EG/GM 0134, report on students visiting commemorative WWII sites in Baltic/Pridnestrovie regions, production credits, and contact information, IS and ID, into GM service, excellent signal (Barbour NH 5/14) in EG 0000, ID, report on WWII with mentions of Russia's involvement, good (McGuire MD 5/11)
- 9705 **NIGER** *La Voz du Sahel* Niamey in FR/Hausa? 2150-2301*, variety of local flute music, Afro-pops, rustic local tribal music and light instrumentals, Qur'an at 2254, sign off w/short flute IS and anthem, poor to fair signal (Alexander PA 5/1)
- 9740 **SLOVAKIA** *Radio Miraya FM* via Rimavska Sobota on AR 0316, talk by OM/YL, Miraya jingle and mention of Sudan followed by upbeat local music, talk re Sudan, news?, IDs, good (Evans TN 5/13) in AR/EG 0320-0425, Miraya jingle, news in EG 0401-0411, light instrumental music, into AR talk at 0415, poor signal with adjacent channel splatter (Alexander PA 5/15)
- 9745 **ROMANIA** *RRI Bucharest* via Tiganesti transmitter in SP 2324, OM with talk including numerous mentions of Bucharest and Romania, ID 2331, local music, fair-good (D'Angelo PA 5/12) in SP 2300 with IS, ID, frequency, schedule, and news, fair (McGuire MD 4/13)
- 9750 **SEYCHELLES ISLAND** *BBC* relay via Mahe in EG 0347, reggae music, "BBC Network Africa", ID, into World Cup/futbol news, fair at best (Barbour NH 5/11)
- 9840 **JAPAN** *NHK Radio Japan* via Ibaraki in EG 1010, interview re bio-diversity in Japan, ID followed by news magazine-type program, fair signal, //9625 (Barbour NH 5/11)
- 9870 **INDIA** *AIR Vividh Bharati* via Bangaluru in HD 0021, local music at tune-in, 5 time pips at 0030, ID, news?, back to music at 0035, S-9 signal w/deep fades (Montgomery PA 5/4)
- 9890 **RUSSIA** *Voice of Russia* Krasnodar in EG 0110, news at t/in, feature about Cannes Film Festival, into classical music, ID, talks about art and images painted differently due to various origins, small children singing, nice copy 20 db over S-9 (Montgomery PA 4/30) in EG *2200, IS, ID, news with report on the United Nations, good signal (McGuire MD 5/3)
- 975 **UZBEKISTAN** *CVC International* relay via Tashkent in HD 0158, upbeat music, ad/promo string from 0200 with "The Voice" zinger, YL announcer over music, ballad, fair w/QRM (Barbour NH 5/14)

- 11665 **CHILE CVC International** relay via Santiago in SP 0130, string of promos, brief mentions in EG of "One World", inspirational talk, ID "CVC La Voz" at 0135 (Coady ONT 4/23)
- 117108v **ARGENTINA RAE** General Pacheco in FR 0346-0401*, talks, IDs, light music selections, IS, ID and time pips at 0400 before s/off, poor to fair w/very deep fades (D'Angelo PA 4/16)
- 11715 **ROMANIA RRI** Bucharest in SP *1900, IS, ID, frequency, schedule, news, good (McGuire MD 5/3)
- 11715 **USA KJES** Vado, NM in EG 1438-1530, preaching with children repeating "Jesus Love the Little Children" song, ID 1500 asking listeners to let them know they can be heard, SP ID and programming followed, fair to good (D'Angelo PA 5/2)
- 11740 **GUAM KSDA Adventist World Radio** relay via Agat in EG 1644, story telling ending at 1645, ID and Poona, India address given, into hymn, fair signal (Sellers BC 5/1)
- 11780 **BRAZIL R Nacional da Amazonia** Brasilia in PT 0315-0344*, talk, IDs, announcements, news, BR pop tunes, carrier cut in mid-song, fair to good (D'Angelo PA 4/16)
- 11815 **BRAZIL R Brasil Central** Goiania in PT 0520, peppy music, TC 0524 as "duas e vinte-quatro", plug for some event coming May 28, ID, good signal but modulation a bit rough (Hauser OK 5/15)
- 11865 **PORTUGAL Deutsche Welle** relay via Sines in EG 2040, "Living Planet" with a feature on a solar powered catamaran, very good signal, //11795 Rampisham relay (Coady ONT 4/15)
- 15195 **ROMANIA RRI Bucharest** via Galbeni in RM 1325-1347+, great show of continuous Romanian folk music w/occasional RRI IDs (Hauser OK 5/8)
- 15260 **CANADA Chine Radio Int'l** relay via Sackville in EG *1300, ID, report on Thailand, mention of Pakistan, good (McGuire MD 5/4)
- 15410 **UNITED KINGDOM Deutsche Welle** relay via Rampisham in EG *1600, ID, report on nuclear summit, mention of Iran, good (McGuire MD 4/13)
- 15410 **RWANDA Deutsche Welle** relay via Kigali in FR 1225, discussion of strikes in Spain w/frequent voice-overs from comments in Castillian, IS/ID 1230, into "Club de l'auditeur", bit of Happy Birthday ditty and tribute to Togo's independence (Hauser OK 5/2)
- 15450 **TURKEY V of Turkey** Emirler in EG 1302, "Live From Turkey", Seref telling about how the Russian held him up 20 minutes inspecting his visas minutely, later discussing with YL the British election, "Question of the Month" plug, 1323 s/off and IS and piano variations, fair (Hauser OK 5/13)
- 15476 **ANTARCTICA LRA36** San Gabriel in SP 1253-1339, Andean music: singer, guitar, quena, quick ID and frequency at 1256, back to romantic music, story of a "santa imagen" which had visited various sanctuaries around South America, mentioned Cordoba, Tucuman, back to music 1303, YL with announcement 1323 but signal fading down though still audible at 1339 (Hauser OK 5/7)
- 15540nf **KUWAIT R Kuwait** in EG 1955-2112*, mostly continuous EG pop music, several IDs, news, closing announcements at 2058, anthem at 2059, into AR talks at 2100 and abrupt s/off at 2112, new frequency replacing 11990 for the EG service (Alexander PA 4/23) in EG/AR 1812-1900, continuous US pop tunes until 1830, 6 time pips and YL with comment, into news in both EG and AR, ID 1835 and back to music at 1835, good signal at S10 level (Montgomery PA 4/28)
- 15680 **GERMANY Radio Azadi** relay via Wertachtel in Pashto 1320, OM w/talk, local pop music behind talk at 1325 then music only, poor signal w/fading, //15090 slightly weaker (Evans TN 5/10)
- 15710 **SLOVAKIA IRRS** relay in EG 1410-1610+, no Miraya FM programming, US produced programming with US pop music, announcements 1431, promo and "music in our schools" at 1445, instrumental and inspirational music, IRRS ID and Milano, Italy address given, PSA for fire prevention, poor in noisy conditions (Alexander PA 5/1)
- 15760nf **UNITED KINGDOM UK Rocks the World** via Wooferton? In EG *1458-1558*, opened with Tom Petty "Freefalling", numerous IDs and requesting reception reports to website, YL with slogan "more music, less talk", s/off with final ID, fair to good w/fading (D'Angelo PA 5/16)
- 17680 **CHILE CVC International** relay via Santiago in SP, a fantastic inspirational song by a YL vocalist with a choir in the background, short comment by OM announcer, promo for upcoming program titled "Super Programs", good to excellent signal (Kivell FL 4/12)

Clandestine And Opposition Stations

- 5915nf **VATICAN CITY Radio Dabanga** relay in AR/Sudanese 0351-0357*, various OMs w/news reports and discussions, ID at s/off, quick closedown announcements, music, time pip, p-f (D'Angelo PA 4/20)
- 6030 **ETHIOPIA Radio Oromiya** in Oromo *0325-0347, IS, ID in Oromo, music fanfare, brief talks by OM followed by Horn of Africa vocals, fair to good w/deep fades (D'Angelo PA 5/3)

- 7460 **PRIDNESTROVIE Radio Payam-e Doost** via Kishinev in Farsi *0230-0315*, OM/YL talking over slow orchestral music, upbeat and Mid-east music with OM talking, poor-fair (Evans TN 5/13)
- 9665 **PRIDNESTROVIE Radio PMR** via Kishinev in EG/FR *2354-0021, OC w/test tones, at 0000 clock ticks followed by OM w/ID in EG "this is Tiraspol, capital of the Pridnestrovie Moldavian Republic", several features about the state university, news items, end program at 0013 w/ID and schedule, also encouraged listeners to write, YL with FR programming and ID in FR at 0014, vg (D'Angelo PA 5/5)
- 9740 **SLOVAKIA Radio Miraya FM** relay via Rimavska Sobota in EG/AR 0340-0403, talk by two OMs in EG, instrumental music bridge before conversation in AR began, at 0400 instrumental music followed by ID in EG, poor to fair but deteriorating rapidly by tune out (D'Angelo PA 5/1)
- 9875 **MADAGASCAR Radio Voice of the People** relay in EG/Vernacular *0400-0457*, s/on with Afro pop music and ID in EG and Vernacular, talk in Vernacular and EG from 0443-0457, ID and news concerning Zimbabwe, e-mail address, good signal (Alexander PA 5/15)
- 15410 **FRANCE Radio Y'Abaganda** (Sudan) relay via Issoudon in Swahili *1700-1745+, s/on with Afro pop music and African chorals, into the usual non-stop tape loop at 1706 consisting of tones and saying "we're sorry you've reached a station that is unavailable at this time. Please try again later", talk in Swahili at 1734, poor in noisy conditions, Saturday only. (Alexander PA 5/8)
- 15540nf **PRIDNESTROVIE Radio Xoriyo Ogadenia** relay via Kishinev in Somali *1430-1500*, sign on with Horn of Africa music, talk, some local tribal chants, more music, weakm M-F only (Alexander PA 5/7) in Somali 1435, Horr of Africa music, talk in Somali, poor-fair fading down some (Hauser OK 4/19) **SM**

On the Short Waves by Jerry Berg

<www.ontheshortwaves.com> **Update, March 26, 2010**—One of the nice things about CPRV is that by combining the QSLs from several donors you can get a broader picture of a station's QSL history. This week, look under "CPRV," "The QSL Gallery," "Shortwave Broadcast," "Africa - Tangier (Morocco)" and you will find a newly posted compilation of IBRA Radio QSLs. A Pentecostal organization based in Sweden, IBRA Radio ("International Broadcasting Association") began broadcasting in 1955 over Radio Africa Tangier. The power was 10 kw., and the station was fairly well heard in the U.S. afternoons. When all private stations in Tangier were ordered closed at the end of 1959, IBRA continued broadcasting over some small stations in other countries. However, it did not regain a major shortwave presence until 1971 when it began broadcasting over the new Radio Trans-Europe, Portugal, a joint relay project of Deutsche Welle and the former owner of Radio Africa Tangier. QSLers liked IBRA Radio because each language program verified with its own card sent from that particular language service's headquarters for reports sent to that QTH. So for a Norwegian program you wrote to Norway and the Norwegian program QSLed with its own card from Norway, for the the French service you wrote to France and obtained that service's QSL sent from France, etc. The QSLs shown are from 1957-59. They are in a single PDF file and appear in this order: Denmark; England; Finland; France; Germany; a generic "IBRA Tangier" QSL sent from Yokohama for a Japanese program; the Netherlands; two Norway cards; and three Sweden cards. These cards are from the collections of Roger Legge (USA), Jan Tuner (Sweden), Eric Ericsson (Sweden) and Jerry Berg (USA). A close look at the cards will show that most of the frequencies used by IBRA in those days were out of band: 9226, 9275, 9630, 9900, 11342, 11458, 11507 and 14858 kHz.—If you have any other IBRA QSLs from the 1950s, send along a JPG scan (150 dpi) and we will add them to the file.—Also this week, under "Specialized Resources," two more "Wavescan" episodes, March 21, 2010: "Original Mediumwave Stations in Pakistan," and "American Fax Radio-2."

<www.ontheshortwaves.com> **Update, April 4, 2010**—Under "Specialized Resources," we have added three more years of Carroll Weyrich's "The Pioneer Days" column in the NNRC bulletin, these from 1971, 1972 and 1973. Also in "Specialized Resources," a new Wavescan story (March 28, 2010), this time about VOA broadcasts from Lawrenceville, New Jersey.

<www.ontheshortwaves.com> Update, April 16, 2010—Over the years, pictures of radio stations, especially standard broadcast band stations, have often adorned postcards. Such cards have also depicted various other radio themes. Although not QSLs, they can be interesting to the listener-collector. We have begun a new section in "Specialized Resources" featuring groups of these postcard photos (or similar) of radio stations. Most are American broadcast band stations, but there will be some shortwave, humor and other radio-related cards as well. Our first posting is a group of six postcards of station WSB, Atlanta, Georgia, including a poem-schedule Christmas card from 1922; and four postcard views of WJAX, Jacksonville, FL.—Also in "Specialized Resources," we have posted three new "Wavescan" stories: from April 4, 2010, "Early SW Stations in the Philippines-The RCA Story"; and from April 11, 2010, "The Ticking Time Clock - Chronohertz WWV" and "The American Chronohertz Station WWV & the Russian Satellite Sputnik."

<www.ontheshortwaves.com> Update, April 30, 2010—Who doesn't have fond memories of the Radio Netherlands Happy Station program? Under "DX History/QSLs & Other Station Memorabilia," we have posted four Happy Station calendars. These are from 1967, 1968, 1969, and 1989. The 1969 calendar contains some great old photos of Happy Station host Eddy Startz, "and friends." The 1989 calendar is a montage of various Happy Station graphics, and is best viewed by setting your Adobe Reader to "four panel square" mode.—And under "Specialized Resources," you will find four new "Wavescan" scripts; from April 18, 2010, "World's First Wireless Station in Antarctica-The Macquarie Island Saga," and "The WWV Sister Stations," and from April 25, 2010, "The BBC on Shortwave: The Temporary Shortwave Station at Lisnagarvey in Northern Ireland," and "New Zealand Leads the Way - Early Wireless before Marconi!"

<www.ontheshortwaves.com> Update, May 8, 2010—Under "Specialized Resources," we have posted five more sets of "The Pioneer Days" column from the NNRC bulletin. In these columns, Carroll Weyrich looked back at what was happening in the NNRC from the 1930s through the 1950s. These columns were published in the years 1974 through 1978.—Also under "Specialized Resources" you will find two more "Wavescan" stories, both from May 2, 2010: "The VOA at Ocean Gate, NJ," and "Earthquake Radio in Haiti."

<www.ontheshortwaves.com> Update, May 11, 2010—In "DX History/Recordings," John Herkimer has posted a special Radio Canada International Shortwave Club LP recording produced in 1974 by Ian McFarland, producer and co-host of the Radio Canada Shortwave Club. Copies were offered as a prize in an RCI Shortwave Club survey contest. (Some copies were also available at various DX gatherings.) Side 1 of the LP contains an introduction by Jim Coward, host of the Radio Canada Shortwave Club; a long discussion about World DX Friendship Year 1973, originally broadcast on October 6, 1973 and featuring participation by Harry Van Gelder (Radio Nederland), Reg Kennedy and Henry Hatch (BBC), Arne Skoog (Radio Sweden), and Arthur Cushen (Radio New Zealand); and a segment on SWBC transmitting antennas. Side 2 contains segments on SW receiver specifications; interference (with examples of 14 different kinds); and the Northern Lights; plus a closing message from Ian McFarland. Thanks to John for this nice piece of SWBC history.—And under "Specialized Resources," two new "Wavescan" stories, both from May 9, 2010: "Early Mediumwave Stations in the New Pakistan," and "American Applause Cards." (For some examples of applause cards, search for "Applause Cards" in the "QSLs & Other Station Memorabilia" section of the "DX History" page of www.ontheshortwaves.com.)

<www.ontheshortwaves.com> Update, May 23, 2010—Under "Specialized Resources/Radio Postcards," you will find some new cards from Arkansas and Alabama. From Arkansas: KFPW, located in the Hotel Goldman, Fort Smith; the "radio receiving station" in the Hotel Mariana, Mariana; and an unidentified antenna array atop the AOJW ("Ancient Order of United Workmen") Building in Little Rock. From Alabama: WDNG, Anniston; WTBF, Troy; a photo of WJMO, Opelika; and an unidentified tower at Duncan Place in Mobile.—And under "Specialized Resources/Wavescan," two more stories (May 16, 2010): "Early Shortwave Stations in the Philippines" and "Radio Broadcasting from Japanese Ships." 

Company Store

Jim Strader KB1KYW • 74 Miller St. • Middleborough, MA 02346-3216 • jimstrader@msn.com

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

Publications

Shortwave Listening Guidebook by Harry Helms. A beginners guide to shortwave listening covering equipment and more.	\$19.95 +4.60 s/h US +8.00 s/h Can.
Joe Carr's Receiving Antenna Handbook A guide to high performance receiving antennas from longwave to HF and VHF.	\$19.95 +4.60 s/h US +8.00 s/h Can.
Joe Carr's Loop Antenna Handbook Comprehensive but readable guide to understanding and building loop antennas.	\$16.50 +4.60 s/h US +8.00 s/h Can.
Radio Monitoring: the How-to Guide by Skip Arey. Guide for new listeners to MW, HF, VHF and above.	17.95 +4.60 s/h US +8.00 s/h Can.
Passport to Worldband Radio 2008 Great source of information about shortwave stations, frequencies in use and schedules.	\$18.90 +4.60 s/h US +8.00 s/h Can.
World Radio and TV Handbook 2008 Long considered to be the bible for shortwave listeners.	\$26.90 +4.60 s/h US +8.00 s/h Can.
Fine Tuning's Proceedings Reprint Catalogs Complete list of articles from this hobby classic. Choose from 1) 5 page version with article titles or 2) 20 page version with article abstracts.	1)\$2.00 ppd 2)\$5.00 ppd
The World QSL Book Gail Van Horn's new CD-delivered book (PDF format) about all aspects of QSLing.	\$18.00 +3.00 s/h US +6.00 s/h Can.
1947-1958 or 1959-1970 WRTH CD CD compilation of the 1947 to 1958 or the 1959 to 1970 WRTHs.	\$60.00 ppd
WRTH CD Set Both WRTH CDs for a special price	\$99.00 ppd
NASWA Country List and Awards Program Booklet	\$3.00 PP US \$5.50 elsewhere
NASWA T-Shirts Return of a favorite in NASWA blue with the club logo.	\$14.00 S-XL 16.00 XXL +4.60 s/h US +8.00 s/h Can.
NASWA Sweatshirts Return of a favorite in NASWA blue with the club logo.	16.00 S-XL XXL s/h US s/h Can.
NASWA Coffee Mugs 11 oz. white mug with the club logo on two sides. Return of a favorite with the club logo in NASWA blue.	+4.60 s/h US s/h Can.
NASWA Ball Caps NASWA blue ball cap with velcro closure and NASWA logo embroidered on the front	+8.00 s/h US s/h Can.

Please make all checks payable in U.S. funds to "The NASWA Company Store".



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