

# The **NASA** Journal

VOLUME XLX NUMBER 5

MAY 2010

Dear DX Member  
 Please verify your reception of  
 our Radio Station **ZL2 Radio Prieto** on 1190  
 Kc. - 40 Km - 252 m w.h.  
 We have checked your report with  
 our Station log on the date and are pleased to  
 inform you that it is correct.

**ZL2**  
 Foreign Dept.  
**BOLIVAR 1356 - BUENOS AIRES - REP. ARGENTINA**

**ZYL-37**  
 11 100 K.C.  
 ONDA 1000 M

**LA VOZ DE BOGOTA**

**RADIO RURAL**  
 en día con  
 agricultura  
 através de

**XEQ XEQO**

**"La voz Dominicana"**  
 CIRCUITO RADIAL H127-H131-H141  
 REPUBLICA DOMINICANA  
 CIUDAD TRUJILLO  
 H127: 31. M - en 9735 K.C. - 7500 W  
 H137: 1040 K.C. - 10 000 W  
 H147: 49. M - 8970 K.C. - 7500 W

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| 5126 | BP-262 Cell Holder (3xAAA)     | 14.95   |
| 0498 | CP-18A Cigarette Plug & Filter | 29.95   |
| 5127 | CS-RX7 Software with USB Cable | 44.95   |
| 2771 | CT-17 Level Converter          | 139.95  |
| 5129 | LC-170 Carrying Case           | 26.95   |
| 5126 | MB-112G Belt Clip              | 9.95    |
| 0918 | OPC-474 RX7-RX7 Clone Cable    | 16.95   |
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## 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 (3.5 mm), antenna (3.5 mm) and 9 VDC input. The G4000A comes with: AC adapter, stereo earbuds, wind-up antenna. *Owners Manual*. Requires six AA cells (not supplied). The cabinet has a stunning titanium colored finish. 8"Wx5"Hx1.5"D. 1 Lb. 5 oz. One year limited warranty.

Order #4000 \$129.95  
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AN200 and FR350 are also sold separately.

### WORLD RADIO TV HANDBOOK 2010

This long established publication is filled with schedules, frequencies and addresses of shortwave broadcast stations. Organized primarily by country. Also includes a by-frequency listing of shortwave broadcast stations, radio club info., plus receiver reviews. *WRTH Pub. 2010 64th Edition*. List price \$34.95.

Order #3010 \$29.90



### WORLDWIDE LISTENING GUIDE

By J. Figliozzi.

Modeled on the author's popular *Worldwide Shortwave Listening Guide*, this new book covers all of today's formats: live on-demand, podcast, satellite, internet, digital, analog, AM, FM, SW and wifi. A great guide to what can be heard how, where and when! Spiral bound. 112 p. ©2008.

Order #0275 \$24.95



### PASSPORT TO WORLD BAND RADIO 2009

By L. Maigne. A *must have* book for every worldband listener. Provides complete visual data on all SWBC stations from 2.3 to 26 MHz. See at a glance: station name, location, frequency, time, language and power. (There will be no 2010 *Passport*). *IBS*. 528 p. List \$22.95.

Order #1009 \$18.80

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# NASWA Notes

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

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The club, under the leadership of **Richard Murphy** <richard.murphy@swri.org> has added another way for members to keep in touch by creating the North American Shortwave Association group on Facebook. 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 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!

Nothing beats forming a local NASWA Chapter to add some fun and excitement to our shortwave listening hobby. **Rich Parker** provides a very interesting narrative of what a typical Reading Area DXers meeting is like. See his write-up in this month's *Musings* column. I am sorry that I missed the last meeting since it was so festive. Maybe we should have scheduled the meeting for April 1st?

As the prime shortwave DX season slowly slips away, remember to continue to support the many fine columns the monthly *Journal* produces. Without your active support, our editors would be hard pressed to produce the excellent columns we come to expect. Continued support over the summer months is important. Loggings for our *Log Report* columns, QSL contributions for our *QSL Report*, news for *Listeners Notebook*, notes about station program for *Easy Listening*, articles for the *Shortwave Center*, musings, etc are

the foundation pieces for a good edition of *The Journal* each month. Thanks!

Congratulations to our friends at the Danish Shortwave Club International (DSWCI). Their bi-weekly electronic DX newsletter, the *DX Window*, just reached its 400th edition. The *DX Window* is ably edited by DX veteran **Anker Petersen** in Denmark. With its worldwide membership, the *DX Window* offers a unique, global perspective of the shortwave bands. Membership information is available through the club's website: [www.dswci.org](http://www.dswci.org).

Speaking of the DSWCI, they have just 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](mailto:schmidandy@aol.com) for complete ordering information.

The Radio Heritage Foundation has just released at its website [www.radioheritage.com](http://www.radioheritage.com).

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## Our Motto: Unity & Friendship

net the latest version of the *PAL Pacific Asian Log Radio Guide* covering all AM [medium-wave] radio stations across the region. The guide lists all known AM radio stations operating in the area with detailed information about operating times, languages, location, etc. There are more than 50,000 separately updated data entries across thousands of individual stations. Search the latest edition now at [www.radioheritage.net](http://www.radioheritage.net) - simply click on 'PAL AM Radio' in the Radio Guides factbox on any page. You can also search for shortwave stations in the region [PAL SW Radio], Australian narrowcast AM radio [Australia 1611-1701 AM], New Zealand Low Power FM Radio Guide [NZLPMF Radio] and the Borderless Radio Rankings [What is Borderless Radio]. These services are provided free to the community by the Radio Heritage Foundation, a non-profit organization connecting popular culture, nostalgia and radio heritage across the Pacific. Donations are welcome to support this service and annual supporter packages begin at US\$10 with full details at [www.radioheritage.net](http://www.radioheritage.net).

Don't forget that NASWA member and former columnist **T. J. "Skip" Arey** N2EI announced at the Winter SWL Festival that his book *Radio Monitoring A How To Guide* is freely available under a Creative Commons license. NASWA is happy to provide you with this hobby classic free of charge. All you need to do is 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.


Also, **AJ Janitschek** of Radio Free Asia has announced the fourth QSL card in their Radio Pioneer series is available commemorating Russian physicist, Alexander Popov. Among other things, Popov is credited with being the first to use an antenna in the transmission and reception of radio waves. AJ showed off this new card at the recent Winter SWL Festival in Kulpsville. It will be used for all confirmed RFA reception reports dated April 1 - June 30, 2010. RFA welcomes all reception report submissions at [www.techweb.rfa.org](http://www.techweb.rfa.org) (follow the QSL REPORTS

link) not only from DXers, but also from its general audience. Reception reports are also accepted by email at [qsl@rfa.org](mailto:qsl@rfa.org), and for anyone without Internet access, reception reports can be mailed to: Reception Reports, Radio Free Asia, 2025 M. Street NW, Suite 300, Washington DC 20036. Upon request, RFA will also send a copy of the current broadcast schedule and a station sticker.

Finally, you can still enter Adventist World Radio's (AWR) DX program "Wavescan" annual DX contest which runs through July 31, 2010. The contest - "2010 Station Profiles" - has five parts. The details are contained in last month's Journal. All contest entries should be postmarked by July 31st. Return postage would be welcome (international currency, mint postage stamps, or IRCs). A self addressed return envelope, business size or half quarto size, would also be welcome. 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. The only address for the AWR Station Profile DX Contest is: Station Profile DX Contest, Box 29235, Indianapolis, Indiana 46229 USA.


For a decent website that is relevant for those who seek to understand radio from the inside, check out <http://www.thisweek-inradiotech.com/>. This is the home of the TWIRT podcast. Each week they provide a new show with current news, commentary, ideas, fun, and tips help broadcast engineers. It's mostly about radio engineering, but TV and other audio engineers will find the podcasts useful, too. Thanks to AJ Janitschek of Radio Free Asia for passing it along.

Please remember to direct all communications about subscriptions, bulletin delivery issues, Mother'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](mailto: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. 

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## FRENDX: Twenty-Five Years Ago (May 1985)


Stephen G. Moye's first Contact column appeared in *Frendx*. Ed Pyatt was looking for 1963 and 1965 issues of the WRTH for \$20.00 each. Don Momen was selling his Icom R-70 for \$450.00. In *Technical Topics*, Editor James Herkimer ran an article written by Kurt Enkenhus about the Sony ICF-2010 Receiver. In Bill Cole's Computer Corner, the home computer as a link to rapid DX communication was discussed with emphasis on the new ACE bulletin board system. The Easy Listening column debuted under the editorship of Alex Batman. Due to space limitations, Editor Sam Barto had to hold back some good North American QSLs promising that they would appear next month. In Update, Editor Tom Alleman published news from Juan Carlos Codina in Peru. In Log Report Section D, Editor Wallace Treibel noted that 302 reports were received this month compared to 201 the prior month. John Kapinos finished his last Log Reporters column with John F. Henault scheduled to take over beginning next month. Kap noted he has made his reservations for the ANARC Convention in Milwaukee July 19-22. 

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## Calendar Of Events

- May 13-14** *Annual Meeting.* The 2010 National Association of Shortwave Broadcasters and US DRM Group will be held in Hamilton, Ontario on 13 and 14 May 2010. It will be hosted by Galcom International. Additional information will be available at a later date.
- May 14** *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: [ctreditor@aol.com](mailto:ctreditor@aol.com). The URL for the BADX guys is <http://www.naswa.net/badx/>
- May 15** *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](mailto: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.
- May 15** *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](mailto:antennapig@siscom.net). For additional information about MONIX, check out their web site at <http://www.siscom.net/~mmeece/monix.html>
- May 17** *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 3<sup>rd</sup> Monday of each month. Info, Curt Phillips, 919-773-4522, <mailto:curt@nerdster.net> or <http://nerdster.net>.
- May 28** *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](mailto:rdangelo3@aol.com)) for further information about future meetings.
- 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](mailto:mikewb@dircon.co.uk) or phone 01462 643899.

- 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.
- 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: tiszzi2035@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.

### Contribute!

Send your loggings and QSL information off to our Distributing Editor, Bob Montgomery (Address: 86 Pumpkin Hill Road, Levittown, PA 19056). **Note: this is a new postal address!** He will forward them to the appropriate editor. Remember, Bob also distributes QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: [rmonty23@verizon.net](mailto:rmonty23@verizon.net).

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## Musings

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

### **Edward J. Nawrocki, 2302 South Ridge Ave., Kannapolis, NC 28083**

While keeping a log is important, for me listening to some far off country that I'll never visit is the hunt. The trophy is the verification QSL card or letter.

Having grown up in the New York City area in the 1950's, I bought my first shortwave radio, a used Hallicrafters S-38 from Harrison Electronics in lower Manhattan. I remember an area in lower Manhattan called "radio row" where you could walk down several streets and buy anything electronic from surplus tubes to old military radios. The merchandise was on the sidewalk in boxes just like the old vegetable stands.

But getting back to the S-38, I strung up about 20 feet of wire between my bedroom and my sisters and heard mostly stations from Europe and Asia. I had a bunch of QSL cards and would give a lot to have them old cards back.

But that was the past. Today I think is important that we let these stations know that we listen to them regularly and the importance a QSL from them is even if it cost us a buck or two.

I also feel there will be a resurgence in shortwave broadcasting after these countries see how easy it is for the Internet to be compromised.

### **Richard W. Parker KB2DMD, 1205 Sleepy Hollow Road, Pennsburg, PA 18073**

The monthly meeting of the Reading Area DXers is always a spectacular event, but the gathering on 26 March was beyond extraordinary. I knew this evening was going to be a bit different when I arrived at The Flying Dog (the hot spot of eastern Pennsylvania), and saw two large vans in the parking lot - one marked "Icom" and the other "Japan Radio Corporation". I hurried into the restaurant to see what this was all about.

Apparently, Icom and JRC have been following the "Musings" column in the Journal for quite some time, and they've been very much impressed by the dedication of the RADX crew. To show their appreciation for these stalwarts of shortwave, they each sent a "Mobile Hospitality Center" to provide for the evening's merriment.

Inside the restaurant, a long table had been set up which was separated from the usual clientele by velvet ropes. Here, a scrumptious repast of Porterhouse steak, lobster, shrimp, and every imaginable fixing was served by world class chefs. Three half-barrels of a specialty brewed Dortmunder had been flown in from Germany especially for the event, and attractive Geisha girls provided entertainment and massages.

After dinner, the company reps invited the attendees to drop their name into a crystal punch bowl. A grand prize from each company would be awarded to two lucky participants - an Icom IC-R9500 wide band receiver, and a JRC NRD-630 HF receiver!

The bowl was shaken, and a thoroughly breathtaking Japanese damsel reached in to draw the first name. I nearly fainted when she read it aloud: "Richard Parker". It was like a dream, I HAD WON THE R-9500! The entire bar was cheering, and they're not even radio people! Confetti filled the air, and an enormous 3-D television screen set up by our hosts presented a sensational fireworks display.

Next, our hostess again dipped her dainty fingers into the bowl to draw the evening's final winner. Wonder of wonders, it was our own Ed Mauer – he was the recipient of JRC's NRD-630! Again the bar erupted into hurrahs, punctuated by the televised fireworks display, live orchestra, and infectious gaiety. After the fanfare had subsided, Ed leaned across the table to ask if I might possibly be interested in trading radios with him. Apparently, the super-technology of the "9500 so appealed to him that he has been unable to get a decent night's sleep since it had first been introduced. "Sure", I told him, "no problem". I kind of liked the '630s spartan simplicity, and the magic of the evening had me in a sublime mood.

In addition to our radios, Ed and I must have taken home at least 35 pounds of exquisite food, carefully wrapped by our hosts and packed into Icom and JRC "doggie boxes". Two of the untapped Dortmund barrels were loaded into my truck by the Icom porters, and what remained of the third I donated to the bar's patronage.

What a remarkable event it was. Driving home with my new NRD-630, two barrels of superb German beer, and 17 pounds of exotic food, I couldn't help but feel bad for Rich D'Angelo, Ron Hunsicker, Rich Cuff, Tom Ledoux and Dave Turnick for deciding not to attend. Fellows, you were indeed missed. However, Ed and I managed to have a nice time by ourselves!

**Bob Fraser, 255 Lincolnton Avenue, Belfast, ME 04915-7404**

The April Journal seemed quite funereal but the end of the radio as we know it is definitely in sight. However, I did enjoy the reminiscing and a few prompted my memories.

I must be older than all you people put together (77 actually). I was always into radio as a little kid. The radio and library books were the only entertainment, even a movie ticket (50 cents) was beyond my means in the Depression and World War II.

A major landmark in my radio life was in the late summer of 1940. I was going up to bed that evening and paused to look out a window. I noticed a ladder of red lights peeking above the distant forest beyond the pasturelands. My grandmother told me that it was the new WBZ towers just built on Nantasket Beach. Imagine, listening to a station while seeing the source of the program! Not too much later, I noticed other nearby radio towers – WRUL, the big shortwave station in nearby Scituate, MA, and the distant Bell radiotelephone station WOU. In time, I would hear these too.

As I got older, I got pretty good at tuning distant stations on the AM only radio. At times, I could pull KDKA out from behind WBZ. Radio was then big networks and the same program could be heard on several stations at the same time. Some stations, I soon discovered, delayed a program for later broadcast so I was able to hear a favorite for a second time.

I got into shortwave in the summer of 1973 with the purchase of an Astronaut 6 multi-band at a nearby Radio Shack. It had AM, FM, SW, and the Public Service Bands. I was in hog heaven.

The very first SW station I heard was Australia and then HCJB. Both were coming in like gangbusters and I remember being completely unimpressed with a signal from the other side of the world. I had read so much of shortwave that I expected a good clear signal.

Steve Price's remark on the nightingale signal of Radio Baghdad prompted another memory. When I was in high school in the late 1940's, a relative gave me a subscription to the "Open Road for Boys" magazine for Christmas. One issue had a feature on SW and mentioned the mechanical bird signal of Baghdad adding that it had been used since

1939. Thirty years later, I was able to hear this bird as I tuned in Baghdad. It had a few squeaks and I wondered at the time if it was still the same bird. It also reminded me of reading, as a kid, a fairy tale of a Chinese emperor who thought his mechanical singing bird was better than the real thing.

Over the years, I have had a number of radios, usually small ones due to lack of room. I even turned down a friend's offer of his NRD-525 (he was upgrading) because I had no space. I've tried to get more and more coverage. At one point, I borrowed a radio which had long wave, hearing first the Boston Lightship just offshore and its code "Z", then Highland Light's (Cape Cod) near identical "Q" signal. That hooked me for that band.

People seem to think that going digital or putting the stations on the Internet will bring back shortwave radio. No, it won't. What is now missing are the wonderful programs that used to be on: Australia's "Saturday Night Country," HCJB's "DX Partyline," Cracker Barrel," and "Passport," the BBC's "Seeing Stars," "Goon Show," and "Round the Horne," Russia's "Audio Book Club," "Roundabout the Soviet Union," and a host of more. One that should be mentioned was Netherlands "Happy Station," perhaps the most popular of them all.

And the stations interacted with their listeners with the DX and Mailbag programs. Besides the QSL cards (which are getting harder to receive), they offered pennants, magazines, travel brochures, T-shirts, caps, coffee cups! And contests too. I once won a set of camel bells from Turkey.

Sadly, it is all gone now or just about. I saw the same thing happen years ago when the wonderful programs on domestic AM radio moved to the new TV. Where once you used your imagination, now you can watch a flickering picture with your brain in neutral. Those in charge of radio stations today have no idea of radio, they were all raised in the TV era.

One thing I quickly learned as I listened to SW was that people are the same all over. These people were immensely proud of their country, their heritage, and their customs and they wanted the world to know about them.

Victor Goonetilleke raised an interesting point of SW vs. the Internet. I would guess that one quarter of all listeners write to a radio station. I wonder what the percentage is on Internet and e-mail? Where or how do they get the numbers anyway?

I have enjoyed radio over the years in various ways. One winter's evening years ago, I tracked an approaching blizzard by listening to WMEX, Boston, then to WPTR, Albany, then WKBW, Buffalo, and WCKY, Cincinnati. At times I have had the fun of listening to the increasing static of an approaching thunderstorm. I hope this isn't my future in radio listening.

**Toshi Ohtake <ohtaket@kyp.biglobe.ne.jp>, P. O. Box 44, Kamakura 248-8691, Japan**  
The first topic is Radio St. Helena Day 2009 QSL card. Japan Short Wave Club has the honor of sponsoring QSL cards and envelopes of Radio St. Helena Day 2009 aired on 14th of November, 2009. The cards have been just printed out, and sample copies were airmailed from Mr. Kipp of Germany, who has been taking care of this revival project since 2006.

The basic card design is the same as 2007 and 2008 QSL cards, showing the call sign of ZD7RSD, but pictures shown in the card are panoramic views of Prince Andrew School in the islands and amateur radio club members of the school, who are enjoying contacting with people outside of St. Helena islands by using the ICOM transceiver donated by Japan Short Wave Club. The call sign of the station is ZD7PAS, or ZD7 Prince Andrew School.

The statistics of the number of the reception reports for Radio St. Helena Day 2009 are not available yet but Japan again ranked first in the number of reception reports sent, and it was the same ranking as the last year, according to Mr. Kipp, who heard from Mr. Gary Walters, the Station Manager of Radio St. Helena.

Due to the fact that RMS St. Helena carrying all the mail from out side countries is being in a dry dock for repair for a few weeks, so the QSL arrival in St. Helena will be in June or July. Accordingly the 2009 QSL cards are expected to be sent in late July or August from St. Helena Islands.

This is all for this month. Wishing you FB DXing! Toshi Ohtake, Japan Short Wave Club

**Mark Coady <mark.coady@sympatico.ca>, 829 Fife Bay Marina Lane, Peterborough, ON K9J 6X3**  
I know it's early but at the just concluded Spring Shadow Lake Radio Camp, we decided to avoid the time change over the first weekend of November. Our Fall Shadow Lake Radio Camp will be held on the weekend of October 29 - 31. Keep your calendars free for this fun event.

In a related matter, the power cord assembly for the multicoupler arced and burned out just as we were shutting down for the weekend. Upon my return home, I found that the black (hot) lead is burned and separated at the connection to the multicoupler. The connector has tiny soldered connections in a cramped area - darn near impossible to repair. If anyone knows where a replacement power connector, or the entire connector and power cable, can be found, let me know either via this list or at my e-mail below. I have already checked Fair Radio Sales and they have nothing at the moment. The unit is a Sylvania CU-1280.

Remember that line from Star Trek when Bones had to treat the Horta, a rock eating creature? Well, I feel a little the same way as I managed to fix the multicoupler, with the tiny, cramped, soldered power connections that we use at Shadow Lake Radio Camps. I painstakingly soldered one connection and then applied heat shrinkable tubing to act as an insulator. Then I repeated the process for the other two connections. I also replaced the short power cord with a heavy duty but longer and far more pliable one which should last for several years.

I think I'm ready to tackle Ten-Tec's digital SW receiver kit now.

**Brad Grier <bradgrier@aol.com>, 400 Southridge Dr, South Sioux City, NE 68776**  
I have been a member of NASWA since about November 2007. After attending the Fest 3 times and reading the monthly gem, "The NASWA Journal", for that long I thought it was probably time for the relative "newby" to write my own small piece.

At the ripe old age of 53 I decided I would like to learn about shortwave radio, no family history, no other incentive, just a desire to learn. I stopped by my local Radio Shack; picked up the cheapest shortwave they had and became hooked. Havana, CRI, Radio Prague, VOA and all of other stuff you could get on an Eton 300 in Nebraska got me started.

I regret the disappearing broadcasters, the crappy propagation, and the fact it isn't easy finding pirates in Nebraska. I greatly enjoy my new friends from the Fest, the foreign programming I can still get and the doom and gloom domestic broadcasters. I will never forget the time I was laying in bed listening to my Eton G5 and got my first numbers station. I jumped up from bed (in the dark) and informed the members of my family that were still up. They didn't get much a thrill from it but that was their loss.

I was recently in Columbus, OH on business. I remembered the Columbus Area NASWA chapter and gave Mike Rohde a call. He and I had an enjoyable evening and I thank him for his hospitality.

You can dwell on the decline if you want but that won't bring in any new hobbyists. Introduce someone to the hobby; it will be new and fresh to them.

### **Gianni Serra, Roma, Italy**

Ciao from Roma. Since last November 30th 2009, I moved, with all office staff, to a new workplace at about one hour away from my home, by car & very noisy subway, so I usually had time for radio listening during weekends only.

Finally it's DXing time! After several months with nothing of interesting on Tropical Bands, at the end of the first ten days of April, I caught some rare Radios from Latin America, such as the presumed R. San Miguel on 4699.97, the tentative Brazilian R. Educacao Rural on 4925 (talking with its typical Brazilian intonation), and some unidentified (presumed) LA Radios on 4775 & 4990. And here what I listened about other usual Radios on 60 meters (from April 1st to 11th): some Indian, Chinese & Tibetan Radios (at evening, some of them not logged) - Tajikistan 4765.05v (early evening and night) - 4780 Djibouti (strong before sunrise) - strong 4840 WWCR (some hours before and after sunrise) - 4845 Mauritania (strong at evening) - fair VOA 4930 via Botswana (before sunrise only) // 4960 Sao Tome (audio at about 1 second of delay & just before and after sunrise too) - 4975 V.o.Russia via Tajikistan (at evening with its usual lyric music program) - 4975.96v Uganda UBC R. (some evenings) - 5005 R. Nacional, Equatorial Guinea (listened some late evenings only) - 5010 India & Madagascar (some evenings both mixed co-channel, usual India stronger than RTV Malagasy).

About usual Latin American Radios on 60 meters (on Sunday 4/11 also listened more than one hour after sunrise here in Rome at around 0430 UT ): 4885.01 R.Clube do Para; 4914.97v R. Dif. Macapa; 4985 R. Brasil Central; Cuban 5025 R. Rebelde; new 5040 R. Habana in Spanish (heard with its IS at 0458 till 0500 then some IDs in English , then again brief IS at 0501 & ID ), 5044.99v R. Cultura do Para. Last but not the least, R. Vision on 4789.93v (some late nights & on April 11, sometimes with qrm splats by strong Djibouti on 4780).

On 90 meters Tropical Band, I caught Radio Exterior de Espana, via Costa Rica on 3350 kHz (March 28 and April 11) & presumed R. Sondergrense, South Africa, on 3320 kHz.

Let's hope for the best conditions on Tropical Bands for the next days.

### **Joe Wood <joekennethwood@usa.net>, Greenback, TN**

As all of us know, it can be very difficult to obtain International Reply Coupons from our local Post Offices. I just noticed that the USPS website now has them. They are listed under the "For Mailing and Shipping" tab under the "International" sub directory. The price is now \$2.10 each. There are still stations that request IRC's in lieu of cash, and in some areas, it is against regulations to send US currency.


### **Henry Slade <hslade2@gmail.com>**

I enjoy and use the Flash Sheet in my shortwave listening. Is there a way I could take the listing and put them in TIME vs. FREQ order?


Richard A. D'Angelo <rdangelo3@aol.com>, 2216 Burkey Drive, Wyomissing, PA 19610  
Last month I forgot to include some QSL information so that is where I will begin this month. First up is verification from Radio New Zealand International with a full data "60 Years Serving the Pacific Special Anniversary QSL" card. Next, is a North American pirate station. Pirate Radio Boston verified an electronic report with a full data "Scenes of Stoneham #1 - The Dairy Dome" card including a copy of the Reactivation Show Play List, lyrics and a CD of the program from v/s Charlie Loudenboomer. Radio Nederland - Tinang 1 verified with a full data "Cleaning the canals in Weesp" card. Finally, Trans World Radio - Meyerton verified through Sentech with a full data letter from v/s Sikander Hoosern, HF Coverage Planning who indicated the transmitter is a 250 kW Brown Boveri, located at the Meyerton Transmitting Station in South Africa at geographical coordinates 26S35 28E08.

Bob Fraser hit upon a few nostalgic chords in his musing when he mentioned a bunch of programs that I recall from my shortwave youth. There were a lot of interesting programs back in those days. Today the limited focus seems to be on news and news features rather than a more complete program line up. Everyone seemed to have a contest going way back then. Today I know China Radio International runs contests regularly but I am not aware of others.

QSL returns have been somewhat erratic this year. Some good bursts of activity but for the most part a lot of waiting for nothing to happen. Sometimes it can be a little discouraging. Perhaps I need to make a list of summer targets to attack over the next few months to keep my interest up.

Here is this month's meager showing on the QSL front. The Ethiopian clandestine, Ethiopians for Democracy, verified via Nauen with a standard full data Media Broadcast attachment from v/s Michael Puetz. Another Nauen verification, this time from Trans World Radio who verified an electronic report with an electronic reply from Kalman Dobos in Vienna who thanked me for my reception report "which ended up in my inbox" and promised to send a postal QSL card. Kalman indicated that the WRTH e-address of twre@twr-europe.org "is outdated so it is not used any more." That implies it is still valid just not in active use. Finally, Radio Kuwait responded with a no data form "Thank you for all your reports on our transmissions" letter in for a follow-up report (1463 days in total) from v/s Layali Mulla Hussain, Head of Frequencies Propagation Section. Included were a nice desk calendar and a handful of pocket calendars. 

### **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. 

# Shortwave Center

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

We start this month's column with some news and notes from the NASB.

## Last Call for the 2010 NASB Annual Meeting

The NASB's 2010 annual meeting will be held May 20-21 jointly with the 2010 DRM USA annual meeting in Hamilton, Ontario, Canada. Anyone with an interest in shortwave radio – listeners, broadcasters, consultants, etc. – is very welcome to take part. The meetings are being hosted by NASB associate member Galcom International, which is based in Hamilton. It is still possible to make a last-minute registration for the meetings, which will be held on Thursday and Friday, May 20 and 21, and there are still a few hotel rooms left at the Mohawk College Conference Center. Below is the agenda and further information about the meetings. The registration form can be found on the NASB webpage at [www.shortwave.org](http://www.shortwave.org). Click on "Annual Meeting."

As usual, the two-day meeting will be combined with the DRM USA annual meeting. The agenda for the two days includes the taping of a television show about shortwave radio, a tour of the Galcom factory where it makes fix-tuned shortwave receivers, talks and lectures about shortwave radio with a focus on Canada this year, the annual NASB business meeting and a tour to world-famous Niagara Falls, complete with dinner. Here's a look at the preliminary agenda:

Thursday May 20, 2010

8:30 am - Live taping of the "100 Huntley Street" syndicated television show

10:30 am - Crossroads Christian Communications facility tour

11:00 am - Tour of the Galcom International factory

12:00 pm - Barbecue Lunch at the Galcom factory

1:00 pm - DRM USA Meeting at Mohawk College, moderated by Charlie Jacobson of HCJB. Presentations will include a summary of the March DRM Consortium meeting in Amsterdam, a report on the DRM test broadcasts carried out by HCJB in conjunction with the U.S. International Broadcasting Bureau which began last August, and an update by John Wineman on the DRM Diversity Receiver project at LeTourneau University.

2:30 pm - Coffee Break

3:00 pm - DRM USA Meeting continues

4:00 pm - Meeting Ends

4:30 pm - Bus Tour and Dinner, Niagara Falls

Friday May 21, 2010

9:00 am - NASB Meeting begins at Mohawk College Conference Center.

9:15 am - The Ontario DX Association and Shortwave Station CFRX - Steve Canney of the Ontario DX Association, which acts as QSL coordinator for Toronto shortwave station CFRX, will talk about their very successful shortwave club and the verification service they provide to CFRX.

10:00 am - Profile of WEWN - Glen Tapley of NASB member Eternal Word Television Network will review the history of their shortwave station WEWN in Alabama and will offer a slide presentation of the station's antenna field, transmitters and studios, and

a bit of information about the EWTN television network.

10:30 am - Coffee Break

11:00 am - The NASB Shortwave Listener Survey - Dr. Jerry Plummer of WWCR will give a presentation about the survey and its importance. The survey will be officially inaugurated today at the NASB annual meeting.

11:15 am - The NASB and its involvement in recent High Frequency Coordinating Conferences in Punta Cana and Kuala Lumpur. Plans will also be announced for the next HFCC Conference to take place in Switzerland in August of this year.

11:30 am - Does Shortwave have a Future? Some say it's dead; others think it could be on the brink of a renaissance.

12:00 pm - Lunch (catered at Mohawk College)

1:00 pm - NASB Business Meeting

5:00 pm - Meeting Ends

Everyone with an interest in shortwave radio is invited to attend the NASB/DRM USA annual meeting in Hamilton. There is a C\$55 registration fee (that's 55 Canadian dollars) per person, which includes lunch and coffee breaks on both Thursday and Friday at the Mohawk College Conference

Center. For those who wish to participate in the optional tour to Niagara Falls on Thursday afternoon/evening, there is an additional C\$55 fee. Galcom has arranged for accommodation at the Mohawk College student residence, or there is alternative accommodation at the Courtyard Marriott. More information can be found on the NASB website, [www.shortwave.org](http://www.shortwave.org), Click on "Annual Meeting."

Those who plan to attend the NASB/DRM USA annual meeting should fill out the registration form which is on the NASB website. If you have any questions, please feel free to contact Jennifer at [galcom@galcom.org](mailto:galcom@galcom.org) or Jeff White at [radiomiami9@cs.com](mailto:radiomiami9@cs.com).

Note that for those coming from long distances, you can fly into either the Buffalo Niagara International Airport in Buffalo, New York; or the Toronto International Airport in Canada. Hamilton is located about equal distance between the two airports (about an hour or so driving time). There is bus transportation from Buffalo airport to Hamilton, and there is bus or train transportation from the Toronto airport to Hamilton. Or, of course, it is convenient to rent a car at either airport and drive to Hamilton. Hamilton also has its own international airport, with service by WestJet and Flyglobespan airlines.

We look forward to seeing many of you at the NASB annual meeting in May!

## Radio Free Asia Releases Fourth Radio Pioneer QSL Card

Radio Free Asia announces the release of the fourth QSL card in its Radio Pioneer series. The card honors Russian physicist Alexander S. Popov. Popov demonstrated that a receiver could detect the electromagnetic waves produced by lightning discharges in the atmosphere many miles away. In 1895, Popov was able to receive and detect the radio waves produced by an oscillator circuit. In 1897 he successfully sent a ship-to-shore transmission over a distance of three miles and then persuaded

Russian naval authorities to begin installing radio equipment in its vessels. Just two years later he had increased the distance of ship-to-shore transmissions to 30 miles. Popov is credited with being the first to use an antenna in the transmission and reception of radio waves. The QSL card debuted in March at the 2010 NASWA SWL Winter Fest in Kulpville, Pennsylvania and will be used for all confirmed RFA reception reports dated April 1 - June 30, 2010

# Radio Heritage Foundation

The Radio Heritage Foundation extends warm greetings to all veterans, friends and families as we remember on April 25 2010.

Our good friends at Australian Old Time Radio have generously made available a wonderful series of mini-radio documentaries that tell the stories of Australian heroes over the years.

Some of you may be familiar with the series 'Citation' and now is a chance to listen to it again:

"On [www.australianotr.com.au/Citation.asp](http://www.australianotr.com.au/Citation.asp) you will find our latest project to Commemorate ANZAC Day. The shows are only available on the site until the end of April."

We invite everyone to download and listen to these programs.

We also remind you that our Armed Forces Radio Service [AFRS] Memories features at [www.radioheritage.net](http://www.radioheritage.net) are always available for free community access.

Although these concentrate on the American WWII stations in the Pacific, some veterans may remember them. In New Zealand, 1ZM in Auckland was handed over to AFRS in 1944 and became part of the Mosquito Network centered in New Caledonia.

We also have a special feature on the AAAS stations that broadcast for Australian personnel in the SW Pacific region and later in the occupation forces with Japan.

There was also a New Zealand station at Kure which some people may recollect. As always, if anyone has memories of listening to or being involved with any of the stations - including the later stations in Korea, Malaya and Vietnam - we're always pleased to hear from you.

Again, our warm greetings as we pause to remember, and an invitation to enjoy the stories and memories of these AFRS and AAAS stations, their music, personalities and events, and also the 'Citation' series of radio documentaries.

Radio Heritage Foundation is a registered non-profit connecting popular culture, nostalgia and radio heritage across the Pacific. Our global website [www.radioheritage.net](http://www.radioheritage.net) offers free community access to all content although donations are welcome to support our various services and annual supporter packages start from US\$10 with full details at [www.radioheritage.net](http://www.radioheritage.net)

(via [bclnews.it](http://bclnews.it))

## ARRL April 8, 2010

Once touted as "the most successful BPL deployment in the nation," the City of Manassas, Virginia has decided to get out of the BPL business, once and for all. At a Special Meeting on Monday, April 5, the Manassas City Council -- acting on a recommendation from the Manassas Utilities Commission -- unanimously voted to discontinue Broadband over Powerline (BPL) Internet service as of July 1, 2010 to the

approximately 520 residents and businesses who currently subscribe to the service; these customers were told that they have three months to find a new Internet service provider...

Full story at <http://www.arrl.org/>

*[Ed. Note: Hooray! Time to bury this ridiculous idea once and for all.]*

# World Cup Special Events Station

Amateur Radio special event station ZS10WCS will be on the air between now and July 12th (the first operation began in September 2009).

Activity is to celebrate the 2010 Soccer World Cup being held in South Africa between June 11th and July 11th.

The callsign will be operated by members of various South African Radio League (SARL) affiliated clubs.

Operations through May 31st will only be on the air over weekends. However, operations between June 1st and July 12th, will be on the air 7 days a week.

Frequency band selections and times will be dependent on propagation conditions.

Preferred frequencies are:

CW - 3510, 7010, 14010, 21010 and 28010

SSB - 3780, 7080, 14180, 21280 and 28480 kHz

Electronic QSL cards must be sent to: [wcs@sarl.org.za](mailto:wcs@sarl.org.za)

All stations logged will get a special QSL card via the Bureau.

Direct QSL can be sent to:

PO Box 1721, Strubensvallei, 1735, South Africa.

Please include a self-addressed envelope (DL size) and 1 IRC or 1 USD.

## Obituary: Charlie Gillett

The Times

March 18, 2010

The radio DJ credited with discovering Dire Straits has died after a long illness.

Charlie Gillett, presenter on BBC Radio 3 and World Service, passed away in a London hospital on Wednesday. He was 68.

The Lancashire-born broadcaster, a big supporter of world music, contracted an autoimmune disease, and last week suffered a heart attack.

Known to millions of listeners for his World Service programme Charlie Gillett's World of Music, he wrote an acclaimed history of rock'n'roll, *The Sound of the City*, in the 1970s.

And in 1976 he played Sultans of Swing from the demo tape of an unknown band called Dire Straits on his Radio London show *Honky Tonk*.

World Service director Peter Horrocks said he was an inspiration whose spirit of adven-

ture and passion for the rich diversity of global music opened the ears of the world.

"His broadcasts brought together music and radio fans from far flung corners of the globe," he said. "His postbag was one of the biggest, most affectionate and diverse in Bush House, which confirmed his special place in listeners' lives.

"He was a very special broadcaster and he will be sorely missed."

Two months ago Gillett stepped back from his regular slot on Radio 3's *World on 3* for health reasons.

At the time Roger Wright, the station's controller, said: "Radio 3 has always valued Charlie's immense knowledge and passion for world music which has been much enjoyed by listeners."

Gillett, who was born in Morecambe and brought up in Stockton-on-Tees, Cleveland, discovered several stars of world music while on Radio London. They include Youssou N'Dour, Salif Keita, and the young singer

of Portuguese fado music, Mariza.

In the mid-1970s he formed a partnership with his dentist and went on to manage Kilburn and the High Roads, whose lead singer was Ian Dury.

Notable successes on his label and publishing company, Oval Music, were Lene Lovich's Lucky Number and Paul Hardcastle's No 1, 19.

In 1979 he moved to commercial station Capital Radio, where he began to feature music from around the world. More recently he appeared on BBC London.

He is survived by his wife Buffy, their daughters Suzy and Jody, their son Ivan, and two grandchildren.

## Solomon Star 18 March 2010

The Solomon Islands Broadcasting Corporation is back on air after the Solomon Islands Electricity Authority (SIEA) restored electricity following a long power blackout at its Henderson transmitter.

General Manager, Cornelius Rathamana, said he was pleased that the people of Solomon Islands were again able to hear broadcasts from both 1035 AM and 5020 Shortwave. He said SIEA power to the area was cut early on Tuesday morning.

It is thought a storm caused trees to fall and break the lines between the Lunga Power Station and the Henderson sub-station.

SIBC began broadcasting again throughout Solomon Islands on 1035 AM and 5020 Shortwave just after midday yesterday.

*[The three previous items via Mike Terry postings on DXLD listserve]*

*We close this month with a most welcome book review provided by member Richard Murphy. Thank you, sir!*

## The Science of Radio by Paul J. Nahin

(Springer, ISBN 1-0-387-95150-4)

Reviewed by Richard Murphy

Shortwave radio listeners can pursue their hobby easily without ever exploring electromagnetic physics or history. This is not to say that we do not want to know the first order principles behind radio or the ancestry of that sleek ICOM receiver on our desktop. Unfortunately, many of the books that cover these subjects are either excessively dry -- like a text book for engineering students or treat the history of radio as a side show to more interesting historical events. Paul Nahin cures both of these ills as he is one of the most entertaining and lucid technical writers around.


By interweaving the theoretical and technological histories of radio, Nahin creates a fascinating amalgam that can entertain

and enlighten radio enthusiasts at all technical levels. Read this book for its history if mathematics is not your bag. Most of the pioneers and key experimentalists are mentioned here, with Maxwell and Faraday getting their due and Tesla and DeForest receiving the right amount of debunking. Nahin points out that many of the early experimenters were really groping in the dark for solutions to problems, and it is surprising how long it took for the theory to actually guide the design of circuits. Some of the early mechanical inventions used in transmitters were quite clever and in some cases, very dangerous. Who today knows the original use of a "coher" and an "alternator?" Why were spark-gap transmissions abandoned in favor of the more familiar amplitude modulated transmissions? Nahin answers these questions along with many others that require mathematics to reach the answers. While other books cover

Maxwell's famous equations in more mathematical detail, few provide such a lucid picture of just what is going on with electric charges and electric and magnetic fields. If shortwave listeners had a saint, he would be John Poynting, because the Poynting vector explains why electromagnetic waves leave the antenna and propagate through space.

However, this is not a history book even though a great deal of it could stand alone as one. Nahin clearly loves mathematics and is quick to introduce vector calculus and partial differential equations with the same relish as Perry Mason cross-examining a witness. Even if you do not like math, you can appreciate the sublime beauty of Euler's identity: . Nahin is not shy in his use of mathematics here and he patiently walks the reader through the mathematics of AM sidebands and Fourier series, both of which involve invoking Euler's identity and doing calculus with complex variables. It is worth trying to follow this stuff because it does

enhance the understanding of the physics for the typical reader. In the latter chapters, more practical information is introduced on circuits, so readers must don their electrical engineer hat and explore resistors, capacitors, and inductors. He even suggests a simple experiment you can try with two heterodyne radios that illustrates the clever magic of the heterodyne concept. Finally, the appendices (and the MATLAB exercises and problems) are really a mini-course in circuit design.

While this subject matter could easily fall into the 'mash-up' category, Nahin makes it work with his clear writing style and clean treatment of every topic. The historical materials add a human face to perhaps one of the most important technologies human kind has invented. Every electrical engineer should have this book on their bookshelf, every shortwave listener can enjoy the history, and those in between will find this book fascinating. 

## Greetings from Radio New Zealand !

*This is to advise that we will be calling you in our MAILBOX programme to be broadcast as follows:*

**FRIDAY 12 SEP GMT**

at 0725 GMT on 6.105 & 9.540 Mhz

at 0945 GMT on 9.530 & 11.780 Mhz

**SATURDAY 13 SEP GMT**

at 2315 GMT on 15.280 & 15.110 Mhz

**GOOD LISTENING !**

# Kim's Column

Dr. Kim Andrew Elliott • 5001 25th St. North • Arlington, VA 22207 • [ibcast@mail2kim.com](mailto:ibcast@mail2kim.com)  
<http://www.kimandrewelliott.com>

## Ethiopia jams VOA Amharic, thoroughly

In early March, shortwave technical monitors and shortwave listeners (the former tend to come from the ranks of the latter) noticed that VOA Amharic broadcasts were jammed. This was not a complete surprise, because Ethiopia had dabbled with jamming in the past. But this was not dabbling. In March, I listened on the IBB RMS system, and found all five of the VOA Amharic frequencies blocked by white noise. This was the case with both the Addis Ababa and Nairobi remote receivers, so it wasn't ground-wave jamming in Addis. By late April, VOA Amharic was on nine frequencies, and at least one or two are getting through.

I don't think I've ever heard such successful jamming. Usually, a jammed VOA service would get through on at least one frequency. Does Ethiopia have some superpower transmitters? Or does U.S. international broadcasting no longer have the transmitter capacity to overcome jamming?

As we know, the best way to overcome jamming is to use as many frequencies as possible, from as many transmitting sites as possible. This forces the target country government to buy a transmitter to match every incoming frequency. But it also increases the chances that propagation will favor at least one of those frequencies from one of those sites. For listeners with the patience to try all the frequencies, the broadcast will get through.

In the Soviet days, VOA and Radio Liberty transmitted at or just after dusk in the U.S.S.R. U.S. transmitters from Morocco and Spain could use the higher daytime frequencies that would not work for the Soviet jamming transmitters under darkness. (This is review for NASWA members.) Too bad the IBB site at Morocco is closed, because it could be put to similar use to overcome

Ethiopian jamming. (The broadcast time would probably have to be changed from mid-evening to earlier.) The surviving VOA shortwave transmitters at Botswana and São Tomé are 100 kW units.

The other big jamming story carried into April. EU foreign ministers are talking tough to Iran about its jamming of broadcast satellites, but so far they haven't proposed any specific sanctions.

## Encountering the history of international radio

Jonathan Marks writes in his Critical Distance Weblog writes: "I have been gradually digitizing old editions of Media Network in an attempt to rescue tapes before they crumble into pieces of ferric oxide and polyester. I plugged my Revox tape recorder into the line-input of a Zoom H2 recorder, and the results are amazing. In fact, since these programmes were broadcast on shortwave, this is the first time people have been able to hear these documentaries in 'studio quality.'" The results, so far, are in the Media Network Vintage Vault—[jonathanmarks.libsyn.com](http://jonathanmarks.libsyn.com).

Jonathan is using a Zoom H2. I bought an Olympus DM-520 for the same purpose: mainly to digitalize my old cassette recordings of shortwave broadcasts, and maybe some of my old VOA Communications World programs. (Stored at the University of Maryland Library of American Broadcasting, they're not as memorable as the Media Network's.) I have been impressed by even the cheap digital voice recorders for recording off the radio or from tapes. You usually need an attenuating patch cord, although my DM-520 has a variable recording level.

Another source of international broadcasting history is Richard Cummings, an American retired Radio Free Europe employee who still lives in Germany. Look for his many

articles at Historytimes.com. His most recent is about a train in Czechoslovakia that was "hijacked" in 1951 and shunted across the border into Germany. RFE, of course, made hay from that story. Richard wrote *Cold War Radio: The Dangerous History of American Broadcasting in Europe, 1950-1989*, and his *Radio Free Europe's 'Crusade for Freedom': Rallying Americans Behind Cold War Broadcasting, 1950-1960* will be published later this year.

And, on the subject of history, Larry Magne has officially announced the end of his *Passport to World Band Radio*, and also the closing down of the accompanying website *passband.com*. Larry writes that some international broadcasters "reinvented themselves, while many phased down or terminated their shortwave operations. Add to that Sony's near-downfall, the growth of the Internet, and even the possible fading away of print publications — and it's sadly evident that the time has come to shutter *Passport's* declining operation."

Over the years, I've found that people in our hobby are somewhat interested in the content of shortwave broadcasts, but much more interested in the signals that carry that content, and much, much more interested in the receivers that pick up those signals. *Passport* therefore hit the right buttons. I'm grateful to Larry for his many contributions to shortwave — oops — world band broadcasting, and I'll miss *PWBR*.

## Goodbye to VOA Hindi


The memo came around on March 25. The VOA Hindi program "America Live" would be canceled as of April 1 (probably by the time you read this). All VOA webcasts will also end as of that date. VOA Hindi has been off radio for a while, but has continued as a television and web service. Now even that will end, and the employees will have to retire or find work elsewhere. I have suggested that Hindi become the eighth language of the U.S. public diplomacy web-

site *America.gov*. That way, India suddenly needs international broadcasts, the VOA Hindi talent will be on the government payroll and immediately available to get back behind the camera or in front of the camera. My e-mail to this effect has not yet been answered.

Another goodbye, maybe. Worldspace, the international satellite broadcasting service that once billed itself as a replacement for inferior shortwave, has received permission from a Delaware bankruptcy court to de-orbit its satellites. A deal for Liberty Media to take over Worldspace has fallen through, and Worldspace is now really, finally, utterly out of cash. It doesn't even have the money to pay staff to keep its two satellites in proper orbit. To prevent the satellites from colliding with other, still-solvent geostationary satellites, they will actually be super-orbited, sent to a higher, geo-moving-around orbit, into perpetuity. So far, no word that that has actually happened.

## DRM publishes receiver requirements

And, then, there is Digital Radio Mondiale (DRM), the technology that is trying to make shortwave FM-like. As announced at *DRM.org*: "The DRM Consortium's Technical Committee has completed the technical requirements for receivers designed for the DRM system below 30 MHz. This Minimum Receiver Requirement (MRR) document describes the minimum performance required for the technical parameters that provide a fully functioning DRM receiver." Check *DRM.org* for that document. Would availability for sale at a radio store be one of those minimum requirements? Maybe the next DRM document should be a Minimum Ionospheric Requirement.

*Views expressed are my own. More at [www.kimandrewelliott.com](http://www.kimandrewelliott.com), posts to which can be 'followed' at [twitter.com/kaedotcom](https://twitter.com/kaedotcom) (with no boring personal stuff)* 

# Listener's Notebook

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Times are UTC and frequencies in kHz.

**ANTARCTICA** 15476, LRA 36, *R Nacional Arcángel San Gabriel*. I received an e-mail which informed that they began transmissions this year on Mar 15 with a new schedule: 1200-1500 UTC and only on Mondays, Wednesdays and Fridays. Here is the e-mail: "Querido Manuel : Comenzamos nuestra transmisión del año 2010 el 15 de marzo, salimos al aire los lunes, miercoles y viernes de 9 a 12 hs, (hora Argentina), contanos si lograste sintonizarnos, siempre estamos en la misma frecuencia. Esperamos tu pronta respuesta, un saludo cordial conductoras de LRA 36." (Méndez, Mar 29). Noon broadcast? (Ed/DSWCI DX Window)

**ARGENTINA** 15820 LSB, *Feeder Argentina*, 0140-0210, Mar 21, relaying la emisora 101.5, English and Spanish pop songs, ann Latina program: Dando Vueltas. "...tus artistas preferidos Latina te pone bueno...suenan tu musica, suenan tus canciones, suena Latina; a partir de las 22 la Previa en Latina...". (Rodríguez). I suppose it was from the Argentine Armed Forces. (Ed/DX Window)

**AUSTRIA** *Radio Austria International* schedule is now to Europe 0500-0615 on 6155, to Asia/Australia Monday to Saturday 1200-1230 on 17715, to Central America 0000-0030, North America 0030-0100 and South America 0100-0130 all Monday to Saturday on 9820. Short English news bulletin heard at 0609 March 30 on 6155. (Mike Barraclough/WDXC DX News)

**AZERBAIJAN (Nagorno-Karabakh)** *Voice of Justice* heard today in Azeri on approx. 9678 s/on 1303-1330 cl/down. Presumed A-10 schedule: Tue and Fri 1300-1330 rep. Wed and Sat 0500-0530 on 9677.7. In the programme was announced the address, as in Passport 2006 (Rumen Pankov-BUL, wwdxc BC-DX TopNews March 30)

**BAHRAIN** 9745, on March 27 in AM, nx in Arabic, advertisements till 0215 and new type ID "Bahrain Daulia" or it was the name of the next prgr? (Rumen Pankov-BUL, wwdxc BC-DX TopNews March 29) 9745 Radio Bahrain (Abu Hayan) (Extremely Tentative), 2239-2258, 4/18/2010, Arabic. Traditional Middle Eastern music. No announcements heard. Very weak signal, down in the noise most of the time, but audible on peaks until

Romania's IS at 2258. Received on USB side, but so weak that it cannot be definitively described as USB only. Log is very tentative. The only other station listed on 9745 at this time is Voice of Han in Chinese. Finally hearing Bahrain seems too good to be true, but the Wellbrook loop has reduced noise just enough to allow some previously inaudible signals to occasionally be heard. Any other ideas regarding the identity of this station? (Jim Evans, TN/NASWA Yahoo Group)

**BELARUS** Summer A-10 of *Radio Belarus*, Minsk in English: 2000-2200 on 7255, 7360, 7390

*Belarusian Radio HS-1* in Belarusian:

0400-0700 11930 MNS 250 kW / 072 deg to EaEu

1500-1700 7255 MNS 250 kW / 072 deg to EaEu

(R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews March 22)

6010, *Belaruskaje Radyjo*, Brest, 2245-2310, Mar 30, Belarusian song programme, this winter scheduled 23 hours a day: \*0200-0100\*, 54454 heard // 6040, 6070 and 6080 all weaker. From April \*0300-2100\*! (Petersen and Ritola/DX Window)

**BHUTAN** 6035, *BBS* (tentative), March 24. Thanks to the timely tip from Giampiero Bernardini! Recently I have checked here from about 1330 to 1400 to only find PBS Yunnan in Chinese with no other station noted. Today at 1346 tune-in clearly heard two stations mixing together. BBS seemed to improve over assume Yunnan by 1350; played unique indigenous music/singing; announcer taking several on-air phone calls in assume Dzongkha (clearly not in Chinese); matches their schedule and as heard here in the past during this time period; played one pop song; after 1400 there was too much QRM from the adjacent splatter to decipher what was happening. Needs more monitoring now that they have increased their power! 1410-1432, March 29. Improved reception; clearly made out a few words in English; man and woman alternating with assume news stories; too weak and with adjacent splatter to fully understand any of the items; 1421 series of pop songs; after 1430 seemed to be a talk, but became unusable. No ID heard, but am sure it's them! Today had very good

propagation, so we still need to monitor this on these good days! (Ron Howard/NASWA Yahoo Group) 6035, BBS. Not that it means much, but I did get an email from Ngawang Dorji, BBS Bhutan transmission head. I had asked if there was something different about their broadcast that enabled me to suddenly be able to hear them (such as something different about the 50 KW transmitter or perhaps with more power?), but he only responded with a generic: "sir, thank you listening to our station... your report is correct... wish you best of luck" (Ron Howard/NASWA Yahoo Group, Apr 7) 6035, BBS (presumed), 1245-1300, April 14. Two stations mixing together; one clearly was PBS Yunnan/Voice of Shangri-La in Vietnamese; so I presume the other was BBS; in vernacular with indigenous singing/chanting. Being able to positively ID Yunnan as one of the stations here makes me even more confident that I am indeed hearing BBS. (Ron Howard/NASWA Yahoo Group)

**BOLIVIA** 4451.2, *R Santa Ana*. Santa Ana de Yacuma, 2328-2350, Apr 01, end of programme: "El Mensajero de la Mosquitania", then the programme: "Serenata feliz aniversario, con mensajes musicales", ID: "...Radio San Ana una amistad que no se olvida..." (Rodriguez/DX Window)

5952.47, *R Pio XII*, Siglo XX, 2250-0040, Apr 05-06, Quechoa report from an event with shouting, Spanish ann with a jingle, 32332. (Petersen/DX Window)

6135.049v *Radio Santa Cruz*, 0917, Spanish, mensajes by a woman, then talk by a man with mentions of "Santa Cruz" and local time check. Unstable carrier, drifting up and down by a few Hertz but otherwise very good. 19 March. (David Sharp, NSW Australia via Wilkner/NASWA Yahoo Group)

**BRAZIL** 4825/6105/9675, *R Canção Nova*, Cachoeira Paulista, SP, remains inactive on their SW frequencies. (Cássio)

4865, *R Verdes Florestas*, Cruzeiro do Sul, AC, \*0940-1000, Apr 02, opening melody, ann: "...amigo ovinte bom dia; in este instante esta entrando no ar a Radio verdes Florestas, transmitindo em ondas medias en na frecuencia da 940 kHz, ondas tropicais frecuencia da 4865 kHz. Convitamo a voce a juntar con nosotros hasta as 22 horas, aqui sempre espera a melhor musica e noticia en primeira mano; que Deus conceda a todos un bom dia..." (Rodriguez)

4985, *R Brasil Central*, Goiania, GO, 0601-0712, Mar 17 and 25, Brazilian songs, talk in Portuguese, ID: "Radio Brasil Central,

Onda Media, 1270 kHz, 50 kW, Ondas Curtas, 11815 kHz, 7,5 kW, Onda Tropical, 4985 kHz, 10 kW. Radio Brasil Central, Goiania, Goias, Brasil". 24322. (Méndez)

5015.20, *R Brasil Tropical*, Cuiabá, MT, 0808, Apr 08, Programme "Alvorada Sertaneja", weak signal. (reactivated, identified with the support of the DXer Itamar Nunes from Cuiabá, MT, Brazil). (Cássio)

5045, *R Cultura do Pará*, Belém, PA, 2248-0158, Mar 04, 16, 23 and 26 "A Voz do Brasil", ID at 2301: "Radio Cultura, Pará, Amazonia, Brasil", "gooooooooooollllllllll", the first time I hear live sport on this radio, 24322. (Bernardini, Beryozkin and Méndez)

5970, *R Itatiaia*, Belo Horizonte, MG, 2230-2250, Apr 01, ann Vidrio e Vidrios. Madereira Parana. Programme scenery, "...Itatiaia a radio de Minas..." (Rodriguez)

7842.5, *R Diário da Manhã*, pirate from unknown location, first reported by Renato Uliana and Eduardo Castaldelli. Heard in São Carlos too around 2000 and 0300. At 0300 with the program "Alma Cabocla". (Cássio)

11765, *Super R Deus é Amor*, Curitiba, PR, 1940-2335 and 0625-0923, Mar 14, 16, 18, 25 and 28, Portuguese programme "A Voz da Libertação, para todo o territorio nacional, en Sao Paulo som 6 horas e 42 minutos", ID: "Vostede esta en sintonia con Super Radio Deus e Amor, 1210 AM, ondas curtas, 11765 kHz, 25 metros, 9565 kHz, 31 metros, 6060 kHz, 49 metros", 33333 // 9565. (Bernardini, Boli and Méndez) [Unless noted otherwise all via DX Window]

**CHINA** 4940, *Voice of Strait*, 1500-1530, April 4. A full half hour Sunday "Focus on China" program; IDs: "This is the Voice of Taiwan Strait News Radio"; then "This is the Voice of Strait. Fuzhou, China"; news items about China (national recycling campaign; water diversion project to bring water to Beijing; etc.). Mostly poor; this program will be unusable for me in a few weeks due to too much daylight; will have to wait till later in the year to hear this program again. The good news is that they still consistently use the "This is the Voice of Taiwan Strait News Radio" ID at 1300. (Ron Howard/NASWA Yahoo Group)

5050, *Guangxi Beibu Bay Radio*, 1311-1346, Apr 14. Mostly in Vietnamese with pop songs; BoH multi-language IDs ("This is Guangxi Beibu Bay Radio"); list of countries and frequencies for FM. (Ron Howard/NASWA Yahoo Group)

6035, *PBS Yunnan/Voice of Shangri-La*, 1245-1300, Apr 14. Non-stop talking in Vietnamese; pips; English ID ("This is the Voice of Shangri-La"); mixing with presumed BBS/Bhutan. Nice to find they still have the English ID! (Ron Howard/NASWA Yahoo Group)

**CLANDESTINE** 3919.49, *R Voice of Kurdistan*, Sulaimaniya, Northern Iraq, 0255-0310, Mar 24, Kurdish talk and song, 0300 Farsi ID: "Im Radyo Sedaye Kordestane", theme from classical music and Farsi talk, ex 0400. Seems to have changed to Daylight Saving Time like Iraq! 55545! The Iranian jammer was on regular 3929.06 not disturbing its target. (Petersen/DX Window)

3929, "*Dengi Kurdistan Iran*" prgr. 1 observed s/on 0257 and cl/d 0333 (jumping to 3914-3932 range to avoid the jammer. "Dengi Kurdistan Iran" prgr2 s/on 0304 and cl/d 0335 on stable 4880 not jammed. The transmissions were shortened, not as earlier as 1-1/2 hour duration - all on Mar 25, but on Mar 27 s/ons were at 0157 and 0204 resp., maybe due to the DST in Iran? (Rumen Pankov-BUL, wwdxc BC-DX TopNews Mar 29)

6297, *National Radio of the Saharan Arab Democratic Republic* transmitter is in Algeria, 8 kilometres north of Rabouni, the West Saharan administration camp and 14 kilometres south of Tindouf village. (Wolfgang Bueschel/WDXC DX News)

7425, new clandestine *Radio Xoriyo Ogadenia* in Somali at 1815-1845 from Armenia to East Africa. On air Mon/Fri only. (R. Bulgaria DX Mix News via wwdxc BC-DX TopNews April 5)

15165, *Voice Of Djibouti* via Sentech 23 days after I sent French & English e-mail reports to [http://www.lavoixdedjibouti.com/index.php?p=1\\_2\\_Contact#s](http://www.lavoixdedjibouti.com/index.php?p=1_2_Contact#s). I received the following e-mail: "Merci beaucoup Wendel pour votre rapport d'information. La Voix de Djibouti est la première radio libre et indépendante dans l'histoire de la République de Djibouti (ancienne colonie française devenue indépendante en 1977). Notre objectif est de promouvoir la démocratie, les droits de l'homme et la liberté d'expression en fournissant des informations véridiques et sans censure aux djiboutiens au pays comme à l'étranger. Merci encore de votre information. Sincères Salutations. La Voix de Djibouti".

The web translates this as: "Wendel, thank you very much for your report information. The Voice of Djibouti is the first free and independent radio in the history of the Republic of Djibouti (former French colony became independent in 1977). Our goal is to promote the democratization, human rights and freedom of expression by providing truthful information without censorship to Djibouti in the country and abroad. Thank you again for your information. Sincerely. The Voice of Djibouti". (Wendel Craighead/DXplorer) 15165, La Voix de Djibouti. I received this email reply in 31 days for a reception report + audio file e-mailed on Feb 25 in French/English to [info@lavoixdedjibouti.com](mailto:info@lavoixdedjibouti.com): "Thank you very much Mr Gupta for your report. We appreciate your feedback. 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. Again we appreciate your feedback and thank you for your information. La Voix de Djibouti". (Gupta/DX Window) I sent them a reception report in French and on Mar 13 they sent me this answer from [info@lavoixdedjibouti.com](mailto:info@lavoixdedjibouti.com): "Cher Internaute. Merci de l'intérêt que vous portez pour cette nouvelle Radio. Faites passer le message au reste du Monde pour qu'on sache objectivement ce qui se passe en République de Djibouti. La Voix de Djibouti". (Fransson/DX Window)

Summer A-10 schedule of *La Voix de Djibouti* in Ar/Fr+local 1530-1630 on 15165\* UNID transmitter/ISS(?) to EaAf. On air Thu only. \* QRM 1530-1600 AWR in Hindi & 1600-1630 WYFR in Oromo, both on 15160, also 1530-1630 BBC in Russian on 15170. (DX Mix)

15410 *Radio Y'Abaganda* (Ababaka) (presumed), via France, 1729-1738, 4/3/10 (Sat.). A non-stop recorded loop consisting of a brief tones (Dave Kenny says was "Live 365" jingle) and man talking, but too weak to make out what was said nor what the language was; very poor reception. Programming in vernacular started at 1738, after the loop. Saturday broadcasts only, to Uganda. (Howard/NASWA Yahoo Group) The new Media Broadcast schedule shows *Radio Y'Abaganda* (Ababaka) listed at 1700-1800 Saturday on 15410 via Issoudun, France. Googling I found that this seems to be a new target broadcast on shortwave to Uganda from an existing internet-only radio station in support of a Bugandan group. The online stream had lively African music with English announcements for "Buganda Internet Radio". (Tony Rogers, British DX Club email list via WDXC DX News)

15630, *R Mada International*, via Kishinev, Moldova (300 kW / 170 degrees), A-10 schedule in French to Madagascar on Sa/Su only at 1530-1600. QRM co-channel ERA-5 Voice of Greece in Greek. (Ivanov via BC-DX Apr 07). Ex 15660. (Ed/DX Window)

15645, *Free North Korea Radio* 1300-1500 from DB in Korean (TopNews)

Schedule for *Miraya FM* from March 28 is per their website 0300-0600 on 9740, 1400-1700 on 15650. (Mike Barraclough/WDXC DX News)

Summer A-10 schedule of *R. Dabanga* in Arabic Sudanese to Sudan:

0300-0355 5915 SMG (new transmission)

0430-0525 13600 MDC and 13730 DHA Sat/  
Sun til 0555)

1530-1725 11500 MDC and 13730 WER

(Bulgarian Radio via wwdxc BC-DX TopNews April 16)

**CONGO (People's Republic)** 6115.000 *Radio Congo*, 1824, French, talk by a woman with several African references ("Libreville" and "Cameroon") but NO clear ID. Suffering heavy splatter on both sidebands. 20 March. (David Sharp, NSW Australia via Wilkner/NASWA Yahoo Group) 6115, R Congo, Brazzaville, 1636, Apr 03, best on LSB, football talk in French, abrupt hi-tempo music cut in, good. (Bell/DX Window)

**CONGO (Dem. Republic)** 5066.765t *Radio Candip*, 1604, someone here in French, very weak with talk by man. Faded out or off by 1611. Needs more work. 20 March. (David Sharp, NSW Australia via Wilkner/NASWA Yahoo Group)

**CROATIA** Summer A-10 schedule of *Croatian Radio HS-1* in Croatian from Deanovec:

0459-0758 6165

0759-1358 7320

1359-2028 6165

2029-0458 3985v

(DX Mix)

**ECUADOR** 4781.6, *R Oriental*, Tena, 2220-2331\*, Mar 06, reactivated (not heard since Dec 2007. Editor Petersen), social protest songs which were very popular in the 70's with performers like Facundo Cabral, Alberto Cortez and Mercedes Sosa, ID with TS: "...Radio Oriental cordialmente le informa la hora 5 de la tarde con 15 minutos, 5, 15 minutos...Oriental le acompaña...". Promo of programme: La

cadena del Presidente, sabados 10 de la mañana (this program is a version of Correa, Alo Presidente by Hugo Chavez and Uribe Community Councils). At 2300 complete ID: "...la radio al servicio de todos, Oriental con sus frecuencias 1100 y 4780 kHz llega donde otros medios no alcanzan; Oriental la emsiora comercial mas popular de la amazonia ecuatoriana..." 4781.6, R Oriental, Tena, 2230-2304\*, Mar 20, Spanish ann phone number 2887700. Message from Gobierno Municipal in Tena. "Amigos, amigas es Oriental de Tena..." (Rodriguez/DX Window)

4814.95 *Radio El Buen Pastor*, Saraguro Loma Loja. 0910 musica linda, good signal 4 April. (Robert Wilkner/DXplorer)

**ENGLAND** *Eglise du Christ*, new time & freq, 1400-1430 on 15245 WOF in French Thur. (TopNews)

**ERITREA** 7175.00, *Voice of the Broad Masses of Eritrea*, Asmara (p), 1910-2000\*, Mar 17, talk by man and woman in an Arabic dialect with a few interludes of music from the Horn of Africa, 1942 Arabic songs, 1959 closing ann and martial song. Late broadcast, 43443 QRM HAMS. (Petersen/DX Window)

**FINLAND** This Saturday morning (Apr 3) I heard again *Scandinavian Weekend Radio* back on 5980, 6170 and 11720 with rather strong signals in Finnish. From 1300 it will also use 11690. It only broadcasts the first Saturday each month, but a month ago the studio was unusable because of flooding! They are welcomed back! (Anker Petersen, Denmark/DXplorer)

**GERMANY** 6140, *MV Baltic R*, via Wertachtal, \*1000-1040, Su Mar 07, German opening ann: "Hier ist 'em vau' Baltic Radio. Wir senden auf Kurzwelle auf 6140 kHz", also ID in English, Hard Beat Rock music and local news in German, 55555 totally covered R Habana Cuba which was heard until 1000 with 35444. (Petersen). On the air 1000-1100 the first Su each month. (Taylor, Mar 06/DX Window)

6140, *MV Baltic Radio* relay service Schedule for Summer 2010: 1st Sunday - MV Baltic Radio; 2nd Sunday - R Gloria International (New Time Slot); 3rd Sunday - European Music Radio. We wish you good listening and good reception! (Taylor/DX Window)

**HUNGARY** Summer A-10 schedule of *Hungarian Radio* in Hungarian from Jaszbereny:

0100-0200 6150  
0400-0500 3975  
1000-1100 6025  
1600-1700 6140  
2100-2200 3975

(R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews) Preliminary reports indicate that Media Broadcast's Wertachtal, Germany facility will take over on 1 July 2010 effectively removing Hungary as a radio country. - RAD

**INDONESIA** 3344.97, *RRI Ternate* 1237-1304 Apr 4. Vocal mx hosted by YL to 1302, then chat in Bahasa Indonesia. Surprisingly good signal. (Wilkins/DXplorer)

3995.03, *RRI Kendari* 1258-1315+ Apr 4. SCI in progress at 1258 tune-in; Jak berita program commenced at 1259:35, beginning with time check for 20.00 Waktu Indonesia Barat; back to local programming at 1307 (sub-continental mx). Good signal, peaking over S-9 on the meter. (Wilkins/DXplorer)

4749.95, *RRI Makassar* 1331-1342 Apr 4. M ancr taking many phone calls; finally some mx at 1340. Good signal, as usual. (Wilkins/DXplorer)

4869.93 *RRI Wamena* 1336-1345\* Apr 4. Soft vocal mx; carrier left air at 1345. Weak, as usual, so could not make out much, even today, a very good Indo morning. (Wilkins/DXplorer)

4925, *RRI Jambi*, 1327-1345, March 24. Heard again after being off-the-air for a while; signal seemed slightly stronger than last time I heard them; played mostly Islamic type music/singing; 1441 seemed to be live phone conversation; started out fair, but by 1446 tune-out was poor. Very nice to find them back again! (Ron Howard/NASWA Yahoo Group)

**IRAN** *Saut Falestin "Voice of Islamic Palestinian Revolution"*

Arabic 0330-0427 9610 11875  
(WWDXC TopNews)

**KOREA (North)** 60 minute English to Europe from *Voice of Korea* now at 1300, 1500, 1800 and 2100 on 13760 and 15245. (Allen Dean) Heard here at 1310 March 29, 13760 weak, 15245 fair strength but the broadcast kept cutting out every minute, 10 minutes later they resumed and stayed on the air but with a weaker signal. (Mike Barraclough/WDXC DX News)

**KYRGYZSTAN** 4010.000 and 4050.000, 1717, both on but with little more than just

a carrier. Have noted both in past weeks with low modulation but at least readable. Now, I'm not hearing any program content. 19 March. (David Sharp, NSW Australia via Wilkner/NASWA Yahoo Group)

**LAOS** 7145, *Lao National R.*, Vientiane, 1343-1400\*, April 15. Tuned in expecting to hear their domestic news in English, but instead had nice selection of non-stop Laotian songs; suddenly off with never any ID. Did not sound like their normal FM programming they usually run after the news; not // 6130. A one day event? Yesterday's anomaly of non-stop Laotian songs after 1343 was explained today (April 16). They have special programming during their New Year festivities; 1330-1400\*; in English with usual canned ID, but the domestic news was pre-empted by information about their New Year's activities of traditional songs, dress and dance; into non-stop Laotian songs; 1358 the usual canned segment in Laotian till 1400\*. (Ron Howard/NASWA Yahoo Group)

**LIBYA** Summer A-10 of *LJBC - Voice of Africa:*

Swahili  
1200-1357 on 17725  
1200-1357 on 21695

English  
1400-1557 on 17725  
1400-1557 on 21695

French  
1600-1657 on 15660  
1600-1657 on 17725  
1700-1757 on 11995  
1700-1757 on 15215

Hausa  
1800-1857 on 11995  
1800-1857 on 15215  
1900-1957 on 11600  
1900-1957 on 11995  
(Radio Bulgaria DX Mix News)

**MALAYSIA** *Voice of Malaysia* now being heard regularly in Lancashire each morning on 15295 in English, there is a news bulletin at 0900. (Allen Dean/WDXC DX News)

**MALAYSIA (Sarawak)** 5030.02 *Sarawak FM* 1218-1242 Apr 17. Malay pops hosted by YL in Bahasa Malaysia; occasional ad strings (and/or program notes); noted a couple of "Sarawak FM" jingles. Good QRM-free signal. (Wilkins-CO/DXplorer)

7270, *Wai FM* via RTM, 1218, April 12. In vernacular; EZI/pop songs; 1229-1257; usual program of non-stop indigenous music and

chanting; ToH: 1+1 pips and news; many Wai FM IDs; fair to poor with light QRM. 1346-1400: Wai FM programming; ToH: 1+1 pips; 1400-1405: I am confused by this news segment that starts and ends with a brief canned musical fanfare with announcer over the music saying about three-four words, one of which seems to be "Limbang" and followed by clear references to "Wai FM". In the past I had thought this was a "Limbang FM" segment, but now I am not sure what to make of both "Limbang" and "Wai FM" being given together at the start and end of the news. In the past Wai FM had a website that did show they relayed some of Limbang FM, but that site is gone. Limbang's website < http://www.rtmlimbang.net/piagamr.html > is of no use pertaining to any relays by Wai FM. Perhaps someone knows more about this and can explain the "Limbang" references? (Ron Howard/NASWA Yahoo Group) 7270.01 Wai FM 1258-1337 Apr 12. IS on xylophone-like instrument; YL with nx in Bahasa Malaysia at 1300; back to Wai FM (jingle) at 1310 w/man chatting in lang.; vocal mx at 1315. Noted occasional references to Limbang but think it is Wai being relayed. Not sure what the Limbang references are, or when/if Limbang FM is still relayed on 7270. VG signal. (Wilkins-CO/DXplorer) 7270, Wai FM via RTM, 1400 news in vernacular. My April 14 observation of "Berita R-T-M Limbang" at the start and end of the news has been confirmed by Dan Sheedy on April 15. At 1400 just after the pips and fanfare he heard: "berita RTM Limbang [mumble mumble] Sarawak, Wai FM". He noted that the news at 1100 and 1300 had just the usual RTM/Wai FM IDs. Thank you very much Dan for your assistance with this! So it seem perhaps they are saying it's local news about Limbang that is going out over Wai FM or could it perhaps be news produced in conjunction with Limbang FM? (Ron Howard/NASWA Yahoo Group)

**MEXICO** 6185, *XEPPM, R Educación*, México D. F., 0720-0900, Mar 17, 24 and 25, songs and music, ID at 0802: "Radio Educación, 1060 AM, transmitiendo desde... Colonia del Valle, Radio Educación, 85 años", programme ann, "Dos de la mañana con 4 minutos, Radio Educación, llevando variedad musical a todo el mundo a través de la onda corta, 6185 kHz, banda de 49 metros y a buena parte de México en 1060 Amplitud Modulada", classical music, 34333. (Méndez and Wagai/DX Window)

**MOLDOVA** 9665, *Radio PMR* noted at 0040 in German then in English at 0045 with IS then fanfare and man with "This is Tiraspol, capital of the Pridnestrovie Moldavian Republic" then news. Further monitoring

suggests that the rotation of English/French/German/English/French/German/French/German noted in March is being repeated but on this new frequency and at a new time from 0000 - 0200. Voice of Russia takes over at 0200. (Mark Coady via NASWA Yahoo Group)

**MONGOLIA** *Voice of Mongolia* English broadcast 1530-1600 on 9665 now being heard on a regular basis in Lancashire. (Allen Dean/WDXC DX News)

**MYANMAR** 5985.78v, *Myanma R.*, 1351-1352, April 9. In vernacular; theme music at start and end of their often heard standard slogan; in English it would be something like: "Only with stability and peace will the nation develop. Only with stability and peace will democratization process be successful. Anarchy begets anarchy, not democracy. Riots beget riots, not democracy. Democracy can be introduced only through constitution. We favor peace and stability. We favor development. We oppose unrest and violence. Wipe out those inciting unrest and violence. VOA, BBC sowing hatred among the people. RFA, DVB generating public outrage. Do not allow ourselves to be swayed by broadcasts designed to cause trouble." Clear mention of "VOA, BBC" and "RFA, DVB"; have often heard this slogan in English during their English segment after 1530; poor-fair. (Ron Howard/NASWA Yahoo Group)

7185.76v, *Myanma Radio*, 1217-1233, April 1. Last heard here during this time period in mid-March. Remains to be seen if a real change or a one day event. In vernacular and pop songs; NOT // with 5770, 5915 nor 5985.78v during this time period. 1348-1355\*: heard carrying a Minorities and Distance Learning Services lecture in English and WAS // to 5915. After 1355\*, noted 5915 still continuing on (observed in the past with sign-off at 1511). Needs more monitoring! (Ron Howard/NASWA Yahoo Group)

**NIGER** 9704.99, *LV du Sahel*, Niamey, 2115-2145+, April 9, reactivated? Tentative log with vernacular talk. Local tribal chants. Local music. Poor to fair in noisy conditions. (Alexander/NASWA Yahoo Group) Full ID at 2201. Well done Brian!! (Tony (VE3NO) Ward/DXplorer) I checked 9705 now at 2225 (April 09) and found Niger with a phone-in program in French playing a French pop song, ID: "Radio Niger" and several mentions of Niger and Niamey, SINPO in Denmark: 45434. Thanks a lot to Brian Alexander for alerting us! (Anker Petersen/DXplorer) 9704.99, *LV du Sahel*, Niamey, 2115-2301\*,

April 9, Reactivated. Tune-in to vernacular talk. Local tribal chants. Local music with flutes and vocals. French talk after 2200 with phone talk and Euro-pop music. Qur'an at 2253:30-2259. Short flute IS and choral National Anthem at 2259. Quick test tone at 2301 and off. Poor to fair in noisy conditions at tune-in but improved to a fair to good signal by 2200. Strong co-channel QRM at 2257 made reception very difficult at that point. (Alexander/NASWA Yahoo Group)

**OMAN** 15140.022 *Sultanate of Oman Radio*, 1434, English, news by man, stories about the Israeli settlement dispute, unrest in Thailand and Moroccan trade delegation visits Oman. "You are listening to Radio Sultanate of Oman. The next news bulletin will be at 10 o'clock." 19 March. (David Sharp, NSW Australia via Wilkner/NASWA Yahoo Group)

**PAKISTAN** *Radio Pakistan* noted March 29 with English news at 1100 on 15100 and new 17720. Latter very strong but extremely distorted modulation, 15100 fair with fading, modulation better than on 17720 but still poor. Brief announcement in Urdu 1105 and off 1106:30 after anthem. (Mike Barraclough/WDXC DX News)

**PAPUA NEW GUINEA** 3290, *R. Central* with relay of "Radio Gadona" "Central 95.5 FM", 1237-1401\*, April 19. Mostly in Tok Pisin; DJ with music request show (island songs, pop, Bob Seger with "Against the Wind", etc.) and live phone calls; "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 call and "News Roundup" in English (Supreme Court order; massive land slide; etc.) IDs for "Radio Gadona" and "Central 95.5 FM", along with their phone number; full IDs of both SW and FM frequencies before sign off, along with National Anthem. R. Gadona is a new FM station that started this year to provide coverage for the Central Province. Very enjoyable listening! Audio in naswayg "Files > Sounds" with ID and schedule. Listening to my audio clip some more, I can now make out several "N-B-C Central" IDs, as well as the "Radio Gadona" and "95.5 FM" IDs. Maybe others can pick out even more details. (Ron Howard/NASWA Yahoo Group)

**PERU** 4789.937 *Radio Vision*, 0755, Spanish, tune-in to hear lengthy ID by a man, and into huaynos. Really good signal. 17 March. (David Sharp, NSW Australia via Wilkner/NASWA Yahoo Group) 4789.96, R

*Visión*, Chiclayo, 0058-0415, Apr 02 and 10, folk music, ID in Spanish: "Radio Vision una radio para todo, transmitiendo simultaneamente desde sus estudios en pleno corazon de Chiclayo, Juan Fanning 457 con una programacion hecha para el deleite de todos los publicos; una radio con corazon abriendo el camino de la verdad y la fe; Radio Vision transmitiendo para el Perú y el mundo...", religious talk from Iglesia Pentecostal La Cosecha about Jesús, El Señor and El Diablo, 35343. (Petersen and Rodriguez). Noted at 0643-0652, Apr 09, religious talk, 14321. (Méndez). Also heard at 0900-0910, Apr 02, regular program for a moment, but by 0905, the format turned to religious. Signal was better than usual suggesting that they may have worked on the transmitter? They seemed to be off the air last week, so that might be a possibility that they did something to the transmitter. Signal was fair. (Bolland/DX Window)

4824.4, *R La Voz de la Selva*, Iquitos, 1201-1230, Mar 21, relaying FM. Música romántica, ballads and pop in Spanish. "Quédate en los 983.9 de LVS" more music "...emocionáte con LVS". It seems to operate only in the mornings with schedule approx. 1200-1500. ID does not say "La Voz de la Selva", but only "LV S" or "L V S Digital". (Rodriguez/DX Window)

4950.1, *R Madre de Dios*. Puerto Maldonado, 0034-0110, Mar 21, adv for Madre de Dios private school. Sure, School holiday! time ann: "...7 de la noche con 44, hora exacta en el país, mas música a través de Madre de Dios 4950 señal que integra esta region de Madre de Dios..." (Rodríguez/DX Window)

5014.4, *R Altura*, Cerro de Pasco, \*1057-1120, Mar 07, opened with non-stop folk music, at 1110: "Altura su mejor compañía ...", then complete ID: "Desde la ciudad mas alta del mundo; Cerro de Pasco, ubicada a los 4360 metros sobre el nivel del mar...Altura la emisora mas potente del Perú en los 5010 kHz, 750 Kcs, 102.5 en la frecuencia modulada y en cadena con Radio La Hualca de Vilcabamba en los 9.33 FM...". (Rodriguez/DX Window) Wikipedia says that the city has a population of 70,000, elevation 13973 feet. (Mike Barraclough/WDXC DX News)

5039.21, *Radio Libertad*, Junin noted 1040 on 21 March with good signal. 1030 to 1110 on 24 March with excellent strong signal, impressive, rustic traditional Peruvian music, om IDs, Time Checks, slow a minute or two, ments of Santa Cruz, 1045 excellent fade up of signal, y! rustic vocal...fading down by 1110. On 25 March Radio Havana Cuba

dominant, very narrow filter to hear Libertad, RHC off at 1058\*. Libertad with good signal, On 26 March, RHC sign off at 1100 again permitting ten to twenty minute logs of Radio Libertad. (Wilkner/DXplorer & NASWA Yahoo Group)

5120.5, *Ondas del Suroriente*, Quillabamba, 2340-2355, Mar 06, ann Alianza para el Progreso (A political movement, not Kennedy's programme from 60-70), local news in the programme: Radioperiodico de Opinion La Pluma, time ann: "... 6 de la tarde con 44 minutos, 6 de la tarde con 44 minutos usted sintoniza Radio Ondas del Suroriente a nivel nacional, Ondas del Suroriente con la poderosa onda corta; Ondas del Suroriente 3 frecuencias". \*1129-1150, Mar 21, opening ann: "... Muy buenos días Ondas del Suroriente inicia su transmisión correspondiente al día de hoy en sus tres frecuencias..." (Rodríguez/DX Window)

5460, *R Bolívar*, Bolivar, 0028-0055, Mar 22, messages in Spanish: "...esta es la hora, son las 7 de la noche con 30 minutos la hora puntual que les recuerda Bolívar la radio...", advs from Telefónica delta, Cerveza Cusqueña. "...más potente, más nítida, Bolívar señal ganadora..." (Rodríguez/DX Window)

6047.2, *R Santa Rosa*, Lima, 2210-2310, Apr 02, transmission from la Catedral del Sermon de la 7 palabras. From 2230 with the Spanish service from R Vatican. At 2300 ann the celebrations of the Holy Week, ID: "...Radio Santa Rosa primera emisora catolica del Perú..." Strong QRM from HCJB, at times best in LSB. (Rodríguez/DX Window)

6192.25, *R Cusco*, Cusco, 1044-1050, Apr 04, Spanish greetings and Huaynos; received after s/off NHK R Japan at 1030\*, 24422. (Slaen/DX Window)

**PORTUGAL RDP Internacional**, a voz de Portugal no Mundo, broadcast schedule effective from Mar 28 to North America:

2300-0200 9715, 11630, 12020 (Mon-Fri)  
1200-2000 15560 (Sat & Sun)  
2000-2300 13755 (Sat/Sun Special events only)

Reception reports to Paula Nunes Teixeira, Antenas Internacionais, paula.teixeira@rtp.pt, RDP Internacional, Av. Marechal Gomes da Costa 37, 1849-030 Lisboa - Portugal. (Station Direct)

**RUSSIA** 5920 (ex: 6075), *GTRK Kamchatka*, 0710-0800 (ex: 0810-0900), March 29. As happens every year when they change the time, the frequency and schedule

changes. Heard their local/regional programming "Radio Rossii Kamchatka" via the Yelizovo transmitter site on the Kamchatka peninsula; same format as I reported March 24; frequent mentions of Kamchatka and "Radio Rossii Kamchatka" IDs, with BoH "This is Kamchatka"; mostly fair with moderate hum. Very nice not to contend with WBOH causing QRM here! Before 0710 and after 0800 found // 5940 and 7320, both via the transmitters at Arman, west of Magadan and // 7200 via the transmitter site outside Yakutsk. In researching past posting to dxldyg, I found that Kai had provided excellent information on the various sites. Thank you Kai! (Ron Howard/NASWA Yahoo Group)

Summer A-10 of *Radio Rossii* in Russian from Minsk:

0400-0800 on 12070  
0825-1300 on 13665  
1325-1700 on 9470 NF  
1725-2100 on 7220 NF (DX Mix)

**SLOVAKIA** A10/Summer 2010 schedule for *IRRS-Shortwave*, effective 28 Mar 2010 - 31 Oct 2010

IRRS-Shortwave (Milano, Italy)

|       |           |               |                        |
|-------|-----------|---------------|------------------------|
| 7290  | 1800-1900 | Mon-Thu       | Eu/N.Af English (1)    |
| 7290  | 1800-2000 | Fri, Sat, Sun | Eu/ME/Af English (1)   |
| 9515  | 0800-0900 | Sat           | Eu/ME/N.Af English (1) |
| 9515  | 0930-1200 | Sun           | Eu/ME/N.Af English (1) |
| 9740  | 0300-0600 | Daily         | Af English, Arabic (2) |
| 15650 | 1500-1800 | Daily         | Af English, Arabic (2) |

(1) To Europe, Middle East and N Africa;  
(2) to Africa

For more information: IRRS-Shortwave, PO BOX 10980, I-20110 Milano, Italy. email: info@nexus.org. (Alokesh Gupta/ARDXC)

Subject: IRRS-Shortwave & European Gospel Radio A10 schedule, effective March 28, 2010

Hello There from Milano, Italy, Please check IRRS-Shortwave and European Gospel Radio A10 schedule effective Sunday March 28, 2010 online at: [http://www.nexus.org/NEXUS-IBA/Schedules/IRRS-SW\\_A10.html](http://www.nexus.org/NEXUS-IBA/Schedules/IRRS-SW_A10.html).

Here are the major changes for the A10 season:

1) we are moving the week-end morning slot each Saturday (10-11 CEST) & Sunday (1130-1400 CEST) up +5 kHz to 9515, so that listeners in the Far East & Pacific may

try some DX reception of our broadcasts, away from interference caused by a station in the Far East outside our main target area for this particular broadcast (Europe & N Africa).

2) We are also shifting our early morning slot Mon-Thu on behalf of European Gospel Radio to the evening on 7290, where you can find us daily from 1800-1900 (ending at 2000 on Fri-Sat & Sun).

Next Saturday, March. 27, 2010, still on 9510 from 0900-1000 CET (0800-1000) you can hear a special program from Radio Rasant, the students' radio program from Sundern (Germany). Please remember to tune each Saturday morning CEST to the IPAR (<http://www.nexus.org/IPAR>) slot, where you can hear programs from Radio Joystick, Radio City (the radio of the cars), 39 Dover Street, Radio Rasant, World of Radio and DX Partyline. Check our program schedule online for more details.

While other stations leave the airwaves, your continued support is very important to keep us on the air. Comments on our programming are very much appreciated to all those who support us financially and keep our station alive. Please send your reception reports and especially your comments on our programming by email to: [reports@nexus.org](mailto:reports@nexus.org) or visit our web site at <http://www.nexus.org>. You can also subscribe to our low-noise mailing list to receive updates on our schedule. Check our home page at <http://www.nexus.org> for details. Please keep in touch, and let our member broadcasters and all of us here in Milano know how you receive our signal in your part of the world. Thanks! (Ron Norton NEXUS-Int'l Broadcasting Association, email: [ron@nexus.org](mailto:ron@nexus.org) <http://www.nexus.org> - Direct)

**SOMALIA** The Somali Islamist movement al-Shabab has banned the BBC and closed down transmitters broadcasting the Somali language service inside the country. Al-Shabab accused the BBC of fighting against Islam and supporting the transitional federal government, which the rebels are fighting to overthrow. The group said the BBC had been broadcasting the agenda of crusaders and colonialists against Muslims. The BBC said it was strictly impartial and spoke to all sides in the conflict. The BBC has been broadcasting its services in Somali, Arabic and English across the country on a series of FM frequencies for at least a decade, and surveys suggest it is one of the most widely listened-to news services in Somalia. Al-Shabab ordered all of the BBC's transmitters to be shut down. A statement by al-Shabab

demanding that any organisation transmitting the BBC, or the Washington-based Voice of America, should cancel their contracts. Al-Shabab and its allies control most of southern and central Somalia and all but a few districts of the capital, Mogadishu. They have been fighting to establish an Islamist administration of their own in place of the current government. The BBC's broadcasts have been taken off the FM bandwidth, but are still available on shortwave and the internet. In response to the statement, the head of BBC Africa, Jerry Timmins, said the organisation spoke to all sides in the conflict, including al-Shabab, adhered to strict standards of impartiality and editorial independence and rejected any suggestion otherwise. (BBC News via Arnaldo Slaen/DXplorer)

**SOUTH AFRICA** Select Sentech A10: Effective from 28 March 2010 to 30 October 2010

**Radio Bar Kulan**

1600-1700 9930 Somali

**Channel Africa**

|           |       |            |
|-----------|-------|------------|
| 0300-0355 | 6135  | English    |
| 0300-0500 | 3345  | English    |
| 0500-0800 | 7230  | English    |
| 0600-0655 | 15255 | English    |
| 0800-1200 | 9625  | English    |
| 1200-1300 | 9625  | Nyanja     |
| 1300-1400 | 9625  | Lozi       |
| 1400-1600 | 9625  | English    |
| 1500-1555 | 15660 | Swahili    |
| 1600-1655 | 15235 | French     |
| 1700-1755 | 9675  | English    |
| 1900-2000 | 3345  | Portuguese |

**EDC**

1600-1700 11770 Various languages\*

\* Every day but Friday

**Hirondelle Foundation**

0400-0500 11690 French

**Radio Sonder Grense**

|           |      |           |
|-----------|------|-----------|
| 0500-0800 | 7285 | Afrikaans |
| 0800-1600 | 9650 | Afrikaans |
| 1600-0500 | 3320 | Afrikaans |

**RTE**

1930-2030 6225 English

**SA Radio League**

|             |       |         |
|-------------|-------|---------|
| 0800-0900*  | 7205  | English |
| 0800-0900*  | 17570 | English |
| 1905-2005** | 3215  | English |

\* Sunday \*\* Monday (Alokesh Gupta/ARDXC)

**ST HELENA ISLAND** Please note that there will be a delay in sending the RSD 2009 QSL cards from St. Helena, due to: (a) the ship RMS St. Helena being in dry-dock for repairs for six weeks in March and April and, (b) the fact that the package containing the QSL cards can not reach Cape Town in time, and (c) Gary Walters and his family going on a well-deserved and much needed holiday to Cape Town during May and June and part of July.

The St. Helena government is attempting to organize a special voyage of a different cargo vessel from the UK to St. Helena. If successful, the ship is expected to sail from the UK in the later part of June and to arrive St. Helena in early July. It is expected that the QSL cards will be on board.

On 25 January, Gary Walters wrote that RSH had received about 300 reception reports and that they expected to receive about 400 reports in total—about the same as in 2009 for RSD 2008. As in 2009, the largest number of reports came from SWLs in Japan. Radio St. Helena will, most likely, not be able to post the RSD 2009 QSL cards to DXers until late July or early August. (Robert Kipp)

**TAJIKISTAN** 4765, *Tajik Radio*, Dushanbe, Tajikistan Mar.6 at 1315-1330 in Tajik(presumed). SIO222. Talk & local music. ID was heard as "Radio Tajikistan" (Kamehara/Japan SW Club)

**TUNISIA** Summer A-10 of *RTTunisia* in Arabic:

|           |       |
|-----------|-------|
| 0400-0610 | 9725  |
| 0400-0610 | 12005 |
| 0500-0730 | 7275  |
| 0700-0830 | 7335  |
| 1700-2110 | 9725  |
| 1700-2110 | 12005 |
| 1800-2210 | 7225  |
| 2000-0010 | 7345  |

(DX Mix News)

**TURKEY** Shortwave Broadcasting Schedule of *Voice of Turkey* 28 Mar 2010–31 Oct 2010 To the Americas

|         |      |      |      |
|---------|------|------|------|
| English | 5975 | 0300 | 0400 |
| English | 9830 | 2200 | 2300 |
| Spanish | 9770 | 0100 | 0200 |
| Spanish | 9870 | 0100 | 0200 |

(Alokesh Gupta/ARDXC)

**UGANDA** *Dunamis Shortwave* on 4750 in the 60 meter band from 6:00-10:00 p.m. local Uganda time (1500-1900). Send your reports to [mail@biblevoice.org](mailto:mail@biblevoice.org) or mail to: BVB, P. O. Box 425, Station E, Toronto,

Ontario, Canada M6H 4E3. (Direct Bible Voice Broadcasting Schedule)

4975.97, *UBC R*, Kampala, 2340-0100, Mar 29/30, all-night broadcast of Afropop music with ann mostly in vernacular, mentioning Uganda three times already during the first minute of listening! The announcer took phone-in calls and also spoke English: "Good Morning to you", "How are you?", 34333. QRM from Urumqi in Uighur on 4980. (Petersen/DX Window)

**URUGUAY** 5873 *Em. Chaná*, Tacuarembó (Unofficial), on 1145 on Apr 2, ad string read by young woman. ID on passing. Found them here fq after sms telephone contact with owner confirming that: "From Fri Apr 2, b/cst every day "all day", with more pwr than before." (Nominal fq 5750, seems more stable than formerly when the xmtr suffered of severe fqcy drifting). QRK 3/2. (Horacio Nigro, Uruguay/DXplorer)

6045U. *Radio Sport 890*, Montevideo, noted again today Apr 21, at 1039, with fair signal simulcasting not MW890 but its partner station, CX8 R Sarandi, Montevideo, with its morning newscast. Sometimes silent, so must be under direct testing. As always noisy reception (i.e.: sort of white noise) produced from presumed wireless internet antenna bleeding in my environment. (Horacio Nigro, Uruguay/DXplorer)

**USA EWTN Global Catholic Network** has entered into an agreement with Catholic News Agency to share news and resources from around the world to Catholics and those interested in the Catholic faith, Catholic news and Catholic perspectives. To showcase this expanded news service, EWTN has launched a new website, [www.ewtnnews.com](http://www.ewtnnews.com). "EWTN is proud of the many ways it continues to provide news to Catholics around the world," said EWTN Executive Vice President Doug Keck. "Our news outreach already includes xclusive television programs such as 'The World Over' with EWTN News Director Raymond Arroyo and radio's Vatican Insider' with Rome Bureau Chief Joan Lewis, plus daily television and radio "news links," and now we've added a full -blown Internet news service."

Alejandro Bermúdez, who serves as CNA's editor-in-chief, said that this new agreement is a major expansion of a partnership that began years ago. "The agreement gives each organization an avenue to use its strengths to provide high quality, accurate reporting on matters of interest to the Catholic community and beyond," he said. EWTN President and CEO

Michael P. Warsaw noted that EWTN launched its online service in 1996, making it a pioneer in the use of the worldwide web to deliver Catholic News and information. He encouraged viewers to log onto the new website and enjoy its greatly expanded content.

"This new project with CNA continues our history of using every means of technology to share the faith with people around the globe," he said. "I believe this is an important step forward for EWTN, CNA and for the delivery of Catholic news around the globe." EWTN Global Catholic Network, in its 29th year, is available in over 150 million television households in more than 140 countries and territories. With its direct broadcast satellite television and radio services, AM & FM radio networks, worldwide short-wave radio station, Internet website, www.ewtn.com, and publishing arm, EWTN is the largest religious media network in the world. (From Catholic Online via Arnaldo Slaen/DXplorer)

**WMLK:** Solomon Meyer sent us the obituary regarding his father, Elder Jacob O. Meyer. Elder Meyer will be greatly missed by the NASB family. He'd been an active participant in the NASB for many years, including spending several terms as a Board Member. (Dan Elyea, NASB Secretary/Treasurer)

**UZBEKISTAN A-10 for CVC The Voice Asia**  
via Tashkent:  
Hindi to India

0000-0400 6260  
0400-1100 13630  
1100-1400 9655  
1400-2000 6260

Hindi to South Asia

0100-0400 9975

(R Bulgaria DX Mix News, Ivo Ivanov, via wwdxc BC-DX TopNews March 20)

**VANUATU 5055, R. Vanuatu,** Port Vila Mar 2 at 0844-0920 in unknown language. SI0343. Talk and telephone interview. ID at 0859 as "Radio Vanuatu" (Ishizaki/Japan Shortwave Club) 5054.97, R. Vanuatu (presumed), heard randomly from 1244 to 1403, Apr 6. First time I have heard this here above threshold level! Non-stop EZL/pop songs; no announcements noted, hence "presumed". Some 5050 QRM. Bruce Churchill also noted the improved reception today during the same time period (Ron Howard/NASWA Yahoo Group)

A note from the engineer who set up the new TXERS at Pt Vila, they are now running at 1.5 kw, and have a protection system that

folds them back if a fault is detected. More parts are being sent and an engineer from NZealand will finish up the loose ends this month. Both frequencies should be at 5kw soon. (i.e., 5055 and 3945) TXERS are solid state running class E with PDM modulators. Reports are requested on the audio quality compared with other stations on HF. Two other stations planned, with similar TXERS are, GUYANA for a 10 KW version of his design, using 3290 and 5950, the holdup here is the AC power at the site. The TXERS were built a year ago. Next is Liberia for STAR RADIO on 4025, but might have to go up to 5 or 6 megs to fight off the D layer. Vanuatu is easily heard here on both frequencies, but I'll keep an ear open on the other two countries. All from Mr. Mjlabadia HF engineer. Remember ALL these are intended for local domestic reception in the respective countries. Who said SW was dead! (Don Rhodes Apr 9, Australia/Electronic DX Press)

**ZAMBIA A-10 of CVC International**  
in English via Lusaka:

0400-0600 9430 alt. 5925 0400-0500  
0600-1900 13590  
1900-2200 5940

**Christian Voice** in English via Lusaka:

0600-1700 6065  
1700-0600 4965

(Radio Bulgaria DX Mix)

Parliamentary Committee on Broadcasting and Information Services chairperson Mwansa Kapeya has expressed concern at the collapse of ZNBC's radio one signal to rural areas like Mpika. In an interview from Mpika, Kapeya, who is PF member of parliament for Mpika and a former broadcaster who worked for ZNBC for 38 years, blamed the government for the corporation's lack of radio spare parts. "Radio has proved to be the most significant media in disseminating informative and educative programmes to majority of Zambians. For the first time in the history of radio signal delivery in this country, large parts of the Zambian community especially the rural area has been completely cut off from knowing what is happening in and outside Zambia by ZNBC radio.

In short, ZNBC radio has completely collapsed," Kapeya said. "When broadcasting was cared for by previous governments, spare parts for radio transmitters were procured expressly to ensure minimum service outage. The short wave services have been off air since February 1, 2010 and as I speak to you the situation is still the same."

He said the government had neglected rural people who depended on ZNBC radio one.

"What I have noticed is that the problem with our current government is that of indecision. It's very difficult for our government to make a decision on how to buy the required spare parts from the suppliers in the United States of America," he said. Kapeya asked the government to quickly address the radio signal problems. "As a veteran broadcaster myself, who served ZNBC for 38 years, I have always advised those concerned especially the government never to use methods that will tend to push away credible spare parts suppliers for radio and encouraging dubious dealers in substandard products," Kapeya said.

"Public efficiency is being adversely affected in the name of checks and balances. For this kind of inertia by our government is a clear indicator that this MMD government has completely neglected rural areas from where they command a lot of support during general elections." He commended The Post for its role in information dissemination to urban and rural Zambia. "We in Mpika are so grateful to The Post newspaper for being the only media providing valuable information to the people of Mpika on a daily basis including other rural districts, which are completely cut off by ZNBC radio. The Post is the only media that we depend on here in Mpika," said Kapeya. (Post Zambia via Slaen/DXplorer)

**UNIDENTIFIED** 4900, listening from 0040-0130+ (Apr 20) to unid station here. Started w/apparent religious program. Yl w/ constant refrains over several different announcers with what sounded like "naomo". Possible amen in lang. Never got a definite fix on Lang. Perhaps an Andean dialect. Several mx bridges heard with Andean flutes. Throughout period CODAR has been killing the signal so it has been very difficult getting any positive program details. Announcers continued past 0100 w/ more commercial style format. Banter continued until 0129 when they went into all mx. Andean style and traditional SS pop songs. Signal has been pretty good but again that CODAR has been a killer. (Steve Wood/NASWA Yahoo Group)

**PUBLICATIONS** The annual magazine for serious DXers "BCL Life 2010" (all in Japanese) was published on March 29 by Sansai Books Co. Ltd. They published "Restarting BCL 2008" and "Restarting BCL 2009" respectively in 2008 and 2009, and succeeded in making many middle-ages (40-50 years old), who were once the "radio

boys" in 1970s, to resume their DX listening hobby with more sophisticated sense.

This is the first Japanese annual magazine for serious DX listeners. "BCL Life 2010" consists of, "Practical Use of PERSEUS receiver", "DX life in the apartment houses", "Making Small Loop Antenna", "Know more about NHK-World Radio Japan", "Little DXpedition with Antenna", "Practical Study of Accessory Equipments for DXing", "DXing in Overseas", "DXing with old Panasonic COUGAR2200 receiver", "Chinese Radio Catalogue", "QSLs & Screenshots of Overseas TV/FM DXing", "Document on St. Helena Day 2009", "DRM reception on shortwave", "DXing with military receivers", "DXing North American MW stations", "Challenging to Overseas TV/FM DXing", "Improving the power of external antenna", In-depth introduction of 13 shortwave stations with Japanese language programs, 8 stations with foreign language programs.

A5 160 pages, with a supplement B6 64 pages "BCL Radio Frequency Data Book"(listing 3300 waves on shortwave). All the articles are written by active DX specialists in Japan. See <<http://www.sansaibooks.co.jp/cgi-bin/list.cgi?detail=383>> (Takahito Akabayashi-JPN, wwdxc BC-DX TopNews March 30)

In "BCL Life 2010", I wrote the 18 pages article "Practical Study of Accessory Equipments". In the article, I rated, Active Loop Antenna for 2.2-20 MHz"? Loop7" (Japan), Quantum QX Loop v2.0 (USA), Tuned Preamplifier for 150 kHz-100 MHz DPA-100B (Japan), Digital Noise Filter NEIM1031 (UK), Synchronous Detector SE-3 MkIV (USA), Noise cancelling Signal Enhancer MFJ-1026 (USA).

In the "In-depth information of the radio stations" section, interesting information about Radio Pyongyang is given. It was revealed that Mr. Pak Ampok, a famous announcer of Radio Pyongyang Japanese section in the 1970's was executed by shooting due to the purge by Kim Il Sung. Best Regards. (Takahito Akabayashi-JPN, wwdxc BC-DX TopNews March 30)

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](mailto:rdangelo3@aol.com) (please indicate in the subject that your contribution is for Listeners Notebook). Thanks! 73, Rich



# QSL Report

Sam Barto • 78 Blakeman Road • Thomaston, CT 06787

Verification of Reception  
(QSL) form  
Voice of America  
Washington, D.C. 20237  
USA  
www.voanews.com



Date: 11-July-2008  
Time (UTC): 04:24  
Frequency: 9575 KHz  
Relay: Madagascar

We are pleased to confi  
Date: .....  
UTC Time: .....  
Frequency: .....  
Site: .....

Satellite antennas at the International Broadcasting Bureau Transmitting Station in Germany help to relay VOA radio and TV programs around the world

**CANADA: Radio Japan - NHK**  
World 6110 via Sackville  
f/d "galloping Horses over  
the Snow in Hokkaido" in  
@ 1 mo. (Nawrocki-NC).

**CHINA, PEOPLES REPUBLIC OF:**  
China Radio International  
9690 f/d "The Great Fam-  
ily of the Chinese Nation-  
Dong Ethnic Minority Gro-  
up" cd. in 1 mo. (Nawro-  
cki-NC).

**CZECH REPUBLIC: Radio Prague**  
7355 f/d "Czech Writers -  
Milan Kundera (1929)" cd.

in 1 mo. (Nawrocki-NC).

**DIEGO GARCIA: Armed Forces Radio Network** 4319 f/d "Armed Forces Radio and  
Television Service" cd. in 1 mo. (Nawrocki-NC).

**KOREA, REPUBLIC OF: Radio Korea International - KBS World** 9650 f/d "Nat-  
ure of Korea - 2010-2012 Visit Korea Year" cd. in 1 mo. (Nawrocki-NC)  
**MALAGASY REPUBLIC: Radio Nederland** 11655 f/d "Windmill on the River  
Gaasp" cd. in 1 mo. (Nawrocki-NC).

**STATION NOTES: Radio Bata** 5005 v/s Julian Esono Ela, Presentador Pro-  
grama Cartas del Oyente. Addr: Apartado Postal 749, Bata, Guinea Equ-  
atorial. La Voix de Djibouti 15165 WEB: www.lavoixdedjibouti.com  
Email: info@lavoixdedjibouti.com Radio Bar-Kulan 15750 v/s David  
Smith Email: barkulanradio@gmail.com WEB: www.bar-kulan.com La Voz  
del Guaviare "RCN" 6035 v/s Jairo Hernan Benjumea, Relaciones Publi-  
cas. Email: lavozdelguaviare@hotmail.com Frecuencia Popular 5485.6  
Addr: Atahualpa 1073, Los Olmos, Peru. Radio Candela 6104.7 WEB:  
www.candela.fm Radio Mil 6010 Email: ingeniero@nrm.com.mx Radio Ned-  
erland 6015 via Moosbrunn Addr: P.O. Box 222, NL-1200 JG, Hilversum,  
The Netherlands. Open Radio for North Korea 11640 via Kamo Addr: P.

O. Box 158,  
Mapeoul  
121-600,  
South Korea.  
via PLAY DX

**Short Wave Shiokaze**

**RESQUE! Abductees by N.Korea**

|  |  |
|--|--|
| <p><b>Shiokaze One</b><br/><b>9785KHz</b><br/>毎日 5:30~6:00<br/>第一放送<br/>日本語</p> <p>via Barbours,<br/>D'Angelo and<br/>others</p> <p style="text-align: center;">北朝鮮向け<br/>短波放送「しおかぜ」<br/>ご支援ありがとうございます。<br/>7/26/2006<br/>7:30pm - 7:57pm J.S.S<br/>9855KHz</p> <p>とどけ。海を越えて！<br/>すべての拉致被害者を必ず助け出します！<br/>この放送は、皆様のカンパにより制作、運営されています。<br/>*放送時間、放送周波数が変更する場合があります。</p> | <p><b>Shiokaze Two</b><br/><b>9485KHz</b><br/>毎日 22:00~22:30<br/>第二放送<br/>日本語<br/>朝鮮語<br/>英語<br/>中国語</p> <p style="text-align: center;"><b>COMJAN</b><br/>特定失踪者問題調査会<br/>TEL: 03-3684-5054 FAX: 03-3684-5059<br/>URL: http://www7.shokaze.kai.jp</p> |
|--|--|

**NEW ZEALAND:**  
Radio New Zealand International  
The Voice of the Pacific 9765 f/d cd. in 1 mo. (Nawrocki-NC).

**PAKISTAN: Radio Pakistan**  
7535 "Historic Building of Islamabad Collage in Pes-

hwar" cd. in 3 mos. for \$2.00 and a taped report. (Smith-MA).

**PORTUGAL: Deutsche Welle 5905** via Sines f/d "Walled In - Germany's Inner Border" cd. in 1 mo. (Nawrocki-NC).

**TINIAN (Northern Mariana Islands): Radio Free Asia** f/d "Panda" cd. w/ station sticker and schedule in 71 ds. (Wilkins-MO)...Freq. was 5810...Sam. This one is out of order because I originally typed it as Sainpan...Sorry.

**SEYCHELLES: BBC Relay Station**

9410 very nice personal f/d ltr. showing the transmitter site in 87 ds for \$2.00. v/s Herve Cherry, Senior Transmitter Engineer, VT Group, BBC Indian Ocean Relay Station, POB 448, Victoria, Seychelles. Email: herve.cherry@vtgroup.sc Very nice stamps on the envelope. (Wood-TN).

**TURKEY: Voice of Turkey - TRT 6040 f/d cd.** in 1 mo. (Nawrocki-NC).

To Richard D'Angelo

This is to confirm your reception report of our broadcasts...

Transmitter location Monte Carlo  
Date May 22 2007  
Time 0840 - 1002 UTC  
Frequency 9400 kHz

**QSL**

Thank you for your report! Regular reports from our listeners help us serve you better. You will automatically receive a copy of our next transmission schedule.

We wish you joy as you listen to Trans World Radio and look forward to hearing from you again!



Sincerely,

Beth Chick

PO Box 141, A-1235 Vienna, AUSTRIA  
PO Box 176, NL-3780 BD Voorhuizen, THE NETHERLANDS



**USA: WJHR 15550 via Milton, FL** p/d paper QSL w/ pink lettering in 8 ds. w/ religious info. for \$1.00 (Wilkins-MO). **WOCR563 1700 AM Arlington (VA)** 10 watts f/d beautiful cd suitable for framing in 2 wks. The station is operated by the Office of Emergency Management in Arlington, Va. I verified

**STATION NOTES: Radio Polonia** 5965 via Wertachtal Email: QSL-Shortwave@media-broadcast.com v/s Michael Puetz. **Radio Trauand R.T.R. Europa 5965 via Juelich** Email: rtr-radio@skynet.

Addr: Postfach 15, B-4730 Raeren, Belgium. beWEB: www.rtr-radio.de Addr: RTR Radio Europa, Postfach 1142, DE-52157 Roetgen, Germany. **Radio 700** 6005 via **Funkhaus Euskirchen** WEB: www.radio700.de Addr: Funkhaus Euskirchen e.V, Kuchenheimer Strasse 155, DE-53881 Euskirchen, Germany. **Radio ZUSA** 6045 v/s Reinhard Kaiser. ...via PLAY DX...Sam.



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this station in 2006. At that time the call was **WQYB206** and it was known as **Arlington Alert**. Same exact QSL Certificate. (Barto-CT).

**VIETNAM: The Voice of Vietnam** 6175 f/d "TNVN" cd. in 1 mo. I'm not totally sure but this may of been a Sackville relay...Sam. (Nawrocki-NC).

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This ends another QSL Column. At least this month we got in a full two pages. Best of QSLs.

Sam

# Contributors' Page

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

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

The following members sent in contributions:

|                                    |  |
|------------------------------------|--|
| Brian ALEXANDER, Mechanicsburg, PA | TenTec RX-340 AOR AR-7030 100' LW                  |
| Scott BARBOUR, Intervale, NH       | R8, R75, MLB-1, 200' Beverage                      |
| Mark COADY, Bridgenorth, ONT       | Eton E-1, SPR-4, 70' LW, Kaito KA-35               |
| Rich D'ANGELO, Wyomissing, PA      | TenTec RX340, Lowe HF150, DX Sloper                |
| Mick DELMAGE, Sherwood Park, AB    | Kenwood R-5000, KLM 7-30 MHz Log                   |
| Gerry DEXTER, Lake Geneva, WI      | NRD-515, NRD-545, E1                               |
| Jim EVANS, Germantown, TN          | RX340, R8B, 30 m wire                              |
| Glenn HAUSER, Enid, OK             | FRG-7, DX-398, SW-07, ATS-909, YB400 lw            |
| Ron HOWARD, Asilomar Beach, CA     | NRD545, etón E-5, 160' longwire                    |
| William McGUIRE, Cheverly, MD      | DX-380   |
| Kevin MOLANDER, Martinez, CA       | YB400PE, 5m reel antenna                           |
| Robert MONTGOMERY, Levittown, PA   | NRD535D, R390A, RX320, HF150, SE3, T2FD,           |
| Sheryl PASZKIEWICZ, Manitowoc, WI  | NRD-515, AOR 350                                   |
| Jim RONDA, Tulsa, OK               | NRD-545, R75, E1 and Eavesdropper                  |
| Harold SELLERS, Vernon, BC         | E-1 and Sony AN-1 antenna                          |
| Giovanni SERRA, Rome, ITALY        | NRD-525 AD Sloper                                  |
| Jerry STRAWMAN, Des Moines, IA     | R-8, Wellbrook 330S, 1.1m loop                     |
| Mark TAYLOR, Madison, WI           | R-75, Sat 800, G313E, E1                           |
| Robert WILKNER, Pompano Beach, FL  | NRD535D, Drake R7                                  |
| Ed WLODARSKI, NJ                   | RX340, 100' lw                                     |
| Joe WOOD, Greenback, TN            | Eton E1, DX-390, Grundig Mini 100 PE, whip antenna |

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FOR SALE: A 2007 GMC truck with small camper trailer and radio rig. This outfit was shown at the 2010 SWL Winter Fest at Kulpsville. Asking \$8,000. For more information call L. Sweeney, Jr. at 518-827-3001 or e-mail penny8888@midtel.net.

## Tropical Band Loggings

Scott Barbour • P. O. Box 893 • Intervale, NH 03845 • srbjswl@yahoo.com


- 2310 **AUSTRALIA VL8A** Alice Springs 1205 ABBA song followed by The Hollies, "Long Cool Woman"; 1207 ID "ABC National Radio in the Territory"; fair; best of the VL8's; 3/18. (Sellers-BC) 1228 The VL8's making a good showing from t/in; best heard in quite a while; Aussie talk; nx promo coming up, "on 783, ABC Alice Springs" W ancw w/ ID; 1230 ABC nx sounder & 10 minutes of nx re the Territory; such as at 1235 that its population has just exceeded 227,000; at first 2310 & //2325 were about same lvl & close to 100% readable except during brief fades; audio also on //2485 but a lot weaker; 1240 on to Nightline prg & by 1245, 2325 had faded to much weaker than 2310; Enid sunrise today was 1228; also looked for R. Symban-2368.5 at 1234 & thought I could detect a carrier; 3/25. (Hauser-OK) 1103 Melbourne vs. Adelaide football & "ABC National Radio" ID at 1104; surprisingly f-g; 3/27. (Coady-ONT) 1020 Noted here during bandscan; v. weak; 4/4. (Wilkner-FL) 1308 Two M ancws re money & personal finance issues; fair; //2325-fair; //2485-v. poor[ at 1334 W ancw w/ nx; sports & wx; 2310 & 2325 f-g; 2485-fair; 4/13. (Sellers-BC)
- 2325 **AUSTRALIA VL8T** Tennant Creek 1234 W ancw w/ nx; p-f; much weaker //2310 & 2485; 2310 best on the 18th; 3/16-18 (Strawman-IA) 1040 Aussie football; //2310-v. weak; 3/27. (Coady-ONT) 0935 M ancw w/ nx; 4/5 & 13. (Wilkner-FL)
- 2485 **AUSTRALIA VL8K** Katherine 0935 M ancw w/ nx; 4/5 & 13. (Wilkner-FL)
- 2850 **NORTH KOREA KCBS** Pyongyang 1237 Full KK chorus & orchestra; S5 sig; 3/16. (Strawman-IA)
- 2859.82H **COSTA RICA Radio San Carlos** 0140-0202\* 2nd harmonic; 2 x 1430v; lcl pop mx; SS ancments; promos & ads v. weak; threshold sig but fair on peaks; 3/20. (Alexander-PA)
- 3145 **UNIDENTIFIED** 0210-0256 M preacher in EE w/ diatribe against Obama; call-in at 0216; continues w/ venom against Kobe Bryant's \$90 million, 3 year contract; no ID at 0230; call-in number: 319-237-8001 at 0242; "Overcomer Ministry" at 0256 by Bro. Stair; no carrier next day but on suddenly at 0059; no listing for anyone on 3145 in 2010 WRTH; 4/7. (Golden-NY){WWRB usually here at this time-FS Ed}[what he said; see below!-ed.]
- 3145 **USA WWRB** Morrison 0119 Moved a UT hour earlier; already on w/ Bro. Scare; 3185 w/ other prgrmng & WWCR on 3215 which WWRB now uses only until 0100; then changing to 3145 which continues to be an unregistered freq; tho perhaps the FCC knows about it; 3/15. (Hauser-OK)
- 3200 **SWAZILAND TWR** Manzini 0305-0316 M w/ long relg talk in (P) listed Ndebele; seemingly gone at 0326 so either off earlier than listed or simply lost in the rising noise lvl; v. poor; 4/9. (D'Angelo-PA)
- 3220 **PNG R. Morobe** Lae 1143 (T); US pop oldies w/ M ancw in Tok Pisin; f/out by 1148; initially I thought it might be a harmonic of 1610; but it was not // a weak stn there; poor; 3/27. (Taylor-WI)
- 3240 **SWAZILAND TWR** Manzini 0316-0328 M ancw in (P) listed Shona; end of prg at 0323 followed by diff. M talk over instrumental mx; ID at 0325 followed by opening of listed Ndaug prg w/ another ID; p-f; 4/9. (D'Angelo-PA)
- 3250 **HONDURAS R. Luz y Vida** San Luis 1143 SS hymn; fair; seemed to be a second carrier slightly offset; which would be N. Korea; 3/15. (Hauser-OK) 1105 open carrier; 1125 s/on; 4/7. (Wilkner-FL) 1107 Orchestral version NA; 4/8. (Wilkner-FL)
- 3250 **NORTH KOREA V. of Korea** Pyongyang 1134 (P); W ancw w/ extended JJ talk; SS relg mx via co-ch. Honduras; 3/27. (Taylor-WI)
- 3255 **SOUTH AFRICA BBC** Meyerton 0428 BBC nx; ID & prg promol; fair; 3/18. (Taylor-WI) 0426 EE rpt re World Cup; p-f; 3/21. (Ronda-OK)
- 3260 **PNG-NEW GUINEA TERRITORY R. Madang** Madang 1323 Popular-style PNG vcels; v. poor; 4/13. (Sellers-BC)
- 3290 **PNG-NEW GUINEA TERRITORY R. Central** Boroko 1018-1030 M ancw in Tok Pisin w/ extended relg talk; 4/10. (Wlodarski-NJ) 1252 Country-style mx; 1303 M in Tok Pisin w/ nx followed by mx; poor; improving to fair; 4/13. (Sellers-BC)
- 3309.98 **BOLIVIA R. Mosoj Chaski** Cochabamba 0900-0930 Noted here w/ good sig; 4/4. (Wilkner-FL)
- 3315 **PNG R. Manus** Lorengau 1020 Noted here during bandscan; 4/7. (Wilkner-FL)
- 3320 **SOUTH AFRICA R. Sonder Grense** Meyerton 0427 (P); Rpt re range fire; in EE translated, in sections, into Afrikaans; it is interesting to hear an essentially lcl story; fair; 3/18. (Taylor-WI) 0420 Two M ancws in Afrikaans; into lite classical mx; good; 3/21. (Ronda-OK) 0309-0332 (P); Two M ancws in vern.; EE songs; M & W ancws w/ talk & mx; (P) ID at BoH; best heard in SSB w/ fast QSB & strong static crashes; poor w/ NIR12; 4/5. (Serra-Italy) 0112 M ancw w/ prg of opera mx; M & W w/ brief talk at 0128 & "Blue Danube" instrumental piece to 0137; "Radio Sondergrense" ID & more opera mx; fair but noisy; 4/7. (Coady-ONT)

- 3325 **INDONESIA RRI Palangkaraya** 1401 Lcl nx in Indo followed by nice series of lcl IDs; almost fair; 3/22. (Howard-CA)
- 3325 **PNG-BOUGAINVILLE R. Buka** Buka 1225 Choral anthem at 1229; into W w/ ancments; pop mx at 1230; professional sound; S5-6; 3/16. (Strawman-IA) 1249 M anc in Tok Pisin speaking to several others via telephone; 1320 re-check w/ light mx; poor; improving to fair; 4/13. (Sellers-BC)
- 3325 **UNIDENTIFIED** 1440-1510 Some singing w/ periods of mx; v. muted but quite audible; (P) PNG; this will be tough to ID; 3/26. (Molander-CA)
- 3329.57 **PERU Ondas del Huallaga** Huánuco 1012-1037 Noted here w/ hyper W anc; good; 9/4 & 13. (Wilknor-FL) 2345 Noted here w/ strong sig; 4/14. (Wilknor-FL)
- 3340 **HONDURAS HRMI Comayagua** 1138 (P); Interview in EE re missionary trip & pastoral training in Central &/or S. America; fair; 3/27. (Taylor-WI) 1143 Ancr in SS re Christianity over mellow mx; fair; 4/10. (Taylor-WI)[nice! DBS-12 lists last log 12/09!-ed.]
- 3345 **INDONESIA-MOLUCCAS RRI Ternate** 1303 (P) Only Asian sig on 90m; nothing on usual 3325; talk; pretty sure it's Indo; 1305 to mx; 3/19. (Hauser-OK)
- 3345 **PNG R. Northern** Popondetta 1304 EZL PNG vcls; poor; 4/13. (Sellers-BC)
- 3350 **COSTA RICA REE Cariari** de Pococi 0336-0343 Interview by W anc; mx bit & M anc w/ "Radio Exterior de Espana" ID & brief ancments; talk w/ M & W anc; best heard in USB w/ mild rustle & crackle at times; fast QSB; fair; 3/28. (Serra-Italy)
- 3365 **PNG R. Milne Bay** Alotau 1319 Popular-style PNG vcls; poor; 4/13. (Sellers-BC)
- 3375.11 **BRAZIL R. Municipal** São Gabriel da Cachoeira 2345 Noted here on lower freq; 4/7. (Wilknor-FL) 3375.33 0940-1000 Noted here w/ exc. musica; 4/1 & 13. (Wilknor-FL) 3375.5 0957-1015 W anc in PP w/ lcl ancments over mx; 1010 W anc w/ ID; good; fade to poor by 1015; 4/10. (Wlodarski-NJ)
- 3385 **PNG-NEW BRITAIN R. East New Britain** Rabaul 1220 Pop mx; S5 sig; 3/16. (Strawman-IA) 1236-1304\* DJ w/ pop songs; suddenly off; poor; did not hear an ID, but definitely PNG; have not heard PNG for a while now, so I am glad they are still on SW; 3/16. (Howard-CA)[Get 'em while you can; all PNGs switching to FM in near future-ed.]
- 3905 **PNG-NEW IRELAND R. New Ireland** Kavieng 1221-1302 DJ in Tok Pisin; playing pop songs; clear ment. of PNG; mostly poor; also noted 3315-R. Manus was on today; but w/ weaker sig; 3/23. (Howard-CA) 1145-1200 M anc in Tok Pisin; short selex of pop mx at 1158; then more talk at 1200; weak; v. readable when in the clear; but bothered most of the time by ARO QRM; other PNGs w/ no audio this morning; 4/9. (Evans-TN)
- 3912 **SOUTH KOREA V. of the People** Kyonggi-do 1202 Fanfare at 1203 into animated discourse by M; operatic vcl by W; weak; could tell lang was KK but not much else; 3/17. (Strawman-IA)
- 3925 **JAPAN R. Nikkei** Tokyo-Nagara 1239 Light classical mx; S7-8 sig; 3/16. (Strawman-IA) 0958-1005 Classical mx; 1000 W anc w/ ID followed by nx; fair w/ occ. ARO QRM; 4/11. (Wlodarski-NJ)
- 3985 **CROATIA Hrvatski Radio** Deanovec 0215 M & two W anc in Croatian w/ ments. of "Deanovec" & "Hrvatski" overtop of "Blue Danube" mx; good w/ ham QRM; 3/27. (Coady-ONT)
- 3985 **SOUTH KOREA Echo of Hope** Hwaseong 0944 (P); Alternating M & W anc in KK; poor w/ noise; likely DPRK jamming on freq; 3/20. (Taylor-WI)
- 3990 **CHINA Xinjiang PBS** Urumqi 1210 Lcl mx & W anc in Uighur; poor w/ ARO QRM; 3/18. (Sellers-BC)
- 3995 **INDONESIA-SULAWESI RRI-Kendari** 1255 Audible w/ mx in Indo; ID in what sounded like a jingle at 1259; poor; 3/15. (Ronda-OK)
- 4050H **USA KWMO** Washington 1235 Quick check; ment. of Milwaukee Brewers; (P) usual third harmonic of KWMO Washington MO; as I tuned down 1 MHz from WWRB 5050 which was still Biling; 4/4. (Hauser-OK) 0540 Something odd; ticks exactly every second; rather like WWV during minutes when no tone is added; but no marker at ToM (top of minutes); could it be a HIFER conveying some lcl wx info?; no, at 0542 W anc "We're The Mouth, 1350 AM"; which is the slogan of KWMO here on its usual third harmonic; followed by dead air w; no tix; as the automation fails for all to hear; 4/11. (Hauser-OK) [The Mouth?!?-ed.]
- 4319U **DIEGO GARCIA AFN** 2350 Nx items; f-g; 4/14. (Wilknor-FL)
- 4330 **CHINA Xinjiang PBS** Urumqi 1215-1230 Mostly talk in non-tonal lang; definitely not CC; but occ. bits of CC-style mx; fair w/ ute bursts; this is the longtime distinctive WO0B freq of the CNR-8 svc in Kazakh; 100 kW non-direxional per Aoki; 4460 Beijing was also in as it is most mornings; unlike 4330; 3/18. (Hauser-OK)[WO0B?-ed.] 1217 (P); Ancr w/ fast moving prg including several audio clips; v. interesting C. Asian indigenous mx; fair; 3/27. (Taylor-WI)
- 4409.8 **BOLIVIA R. Eco** Reyes 0023-0030 Noted here w/ ID; 4/8. (Wilknor-FL) 2330-2340 M anc w/ musica; 4/14. (Wilknor-FL)
- 4450 **NORTH KOREA KCBS** Pyongyang 1215 Choral mx in KK; poor; 3/15. (Ronda-OK) 1155 Operatic vcls by W; poor overall on noisy band; 3/20. (Strawman-IA)
- 4451.11 **BOLIVIA R. Santa Ana** Santa Ana de Yacuma 2330-0030 Noted here during bandscan; nothing during 0900-1030; 4/7-8 & 11. (Wilknor-FL)

- 4460 CHINA *CNR-1* Beijing 0948 (P); Alternating M & W ancrs in CC; fair; 3/20. (Taylor-WI) 1157 W ancr w/ CC chatter; poor sig w/ storm static; 3/20. (Strawman-IA) 1221 (P); Ancr w/ contemporary CC mx; I was not able to find a // right then poor; 3/27. (Taylor-WI)
- 4699.95 BOLIVIA *R.San Miguel* Riberalta [UTC?-ed.] Rpted on this alternative freq; seems to be two txmitters; 4/14. (Wilkner-FL) 4699.97 2354-0039 (P); M & W ancr w/ SS talks; occ. over mx; pips at 0001 & M ancr; increasing audio from 0009; more talk & mx; best heard in USB w/ fast QSB & rustle; poor-v. poor w/ NIR12; 4/9 & 10. (Serra-Italy) 1008-1015 M & W ancrs w/ SS relg talk; over mx at times; 1011 bells tolling followed by M ancr w/ ID; fair; 4/11. (Wlodarski-NJ) 4700 2345 Noted here during bandscan; 4/14. (Wilkner-FL)
- 4716.64 BOLIVIA *R. Yura Yura* 0000; 1000 Noted here w/ usual W ancr; 4/14. (Wilkner-FL)
- 4746.8 PERU *R. Huanta 2000* Huanta 1039-1045 W ancr w/ SS relg talk; fair; 4/10. (Wlodarski-NJ)
- 4750 BANGLADESH *Bangladesh Betar* Shivar 1420-1440 (P); M ancr in unid. lang.; intervals of lcl sounding mx; rather muted sig; if it had been EE it would still have been hard to understand; mixing w/ unid. co-channel stn; I still consider this unidentified until I can actually hear ID or something similar; 3/26. (Molander-CA)[co-ch. unid most likely RRI Makassar-ed.]
- 4750 INDONESIA-SULAWESI *RRI-Makassar* 1130-1235 M ancr in Indo; fair; slipping to poor; 3/15-16. (Ronda-OK) 1235 Pop mx reached S8 on peaks; 3/19. (Strawman-IA) 1237 Good sig in Indo well atop the co-ch. from China and/or Bangladesh; still audible an hour later; among a number of 60m sigs; there was mx a shade below 4870 at 1238 & 1245 which fits only for RRI Wamena; as measured by others; & on 4870 in Aoki but hard to believe the listing of only 300 watts; 4/4. (Hauser-OK)
- 4765 TAJIKISTAN *Tajik Radio* Yangiyul 0222-0234 Lcl chants & M ancr in unid. lang. 0224-0227; mx bits & a few brief ancmnts; M & W ancr w/ talk; freq drifted to 4765.06 during prg; best heard in SSB w/ fast QSB & strong rustle; poor; 4/5. (Serra-Italy)
- 4780 DJIBOUTI *RTD* Atta 0317 (P); Sports cmntary; probably futbol/soccer; in (P) Afar; fair; 3/19. (Taylor-WI) \*0300-0340 S/on w/ NA; opening AA ancmnts at 0301; Qur'an at 0302; AA talk at 0313; HoA mx; fair; 3/20. (Alexander-PA) 0320 M ancr in (P) AA w/ ment. "Djibouti"; f-g; 3/27. (Coady-ONT) 0308-0320 M ancr w/ Kor'an recitation by; AA talk at 0311; poor w/ CODAR & minimal fading; 4/9. (Evans-TN)
- 4781.5 BOLIVIA *Radio Tacana* Tumupasa 1029 (T); In SS w/ ranchero-like mx & other lively mx; M & W ancrs w/ several ads & promos; (P) ments. of "La Paz", "Bolivia" & "Tacana"; fair; 3/28. (Coady-ONT)[R. Oriental Ecuador-4781.6v rpted here recently-ed.]
- 4789.94 PERU *R. Vision* Chiclayo 0155-0207 Usual M ancr in SS over loudspeaker; sing-song prayer; "Alleluja..Gloria, gloria..la palabra de Dios.."; choral mx w/ flutes; more talk; best heard in LSB to null het; just over static crashes; fast QSB; poor w/NIR12; 4/5. (Serra-Italy)0900-1100 Occ. silent during this period; 4/13. (Wilkner-FL)
- 4796.49 BOLIVIA *R. Lipez* Uyuni 1010 Noted here during bandscan; 4/13. (Wilkner-FL)
- 4800 MEXICO *XERTA* Mexico City 1000 M ancr w/ full ID; often noted, but seems irr.; 4/4. (Wilkner-FL)
- 4805 BRAZIL *R. Difusora do Amazonas* Manaus 0930-1000 Noted here w/ good mx; 4/13. (Wilkner-FL)
- 4814.95 ECUADOR *R. El Buen Pastor* Saraguro Loma Loja 0910 Musica linda; good; 4/4. (Wilkner-FL)
- 4824.49 PERU *LV de la Selva* Iquitos 2330; 1030 Noted here during bandscan; 4/13 & 14. (Wilkner-FL)
- 4825 BRAZIL *R. Canção Nova* Cachoeira Paulista 0910 Orchestral mx; fair; 4/4. (Wilkner-FL)
- 4835 INDIA *AIR Gangtok* 1140 W ancr in Hindi; first thought this was R. Maranon but the lang was Hindi & not SS; poor; 3/15. (Ronda-OK)
- 4835.52 PERU *R. Marañon* Jaen 1020 Noted here, with narrow filter, under adjacent 4840; 4/13 & 14. (Wilkner-FL)[I wish WWC&R would leave 60m & WWRB would give the 24 hour thing a rest-ed.]
- 4840 INDIA *AIR Mumbai* 1716-1730\* W w/ Hindi chants; lcl instrumental mx; M ancr & final ancmnt at BoH then off at 1730; best heard in SSB & CW mode w/ moderate rustle; good; 3/21. (Serra-Italy) 1726-1730\* M w/ vcl chants; ancmnt at 1728; mx pause & final ancmnt then off at 1730; best heard in SSB w/ moderate static; almost fair; 4/4. (Serra-Italy)
- 4845 MAURITANIA *R. Mauritanie* Nouakchott 0004 Traditional African choral mx accompanied by string instruments; 3/15. (Ronda-OK) 0102 AA vcls; accompanied by plucked instrument; decent audio modulation; S8 w/ fading; 3/17. (Strawman-IA) 2355-0045 Ancr w/ AA talk & distinctive indigenous Sahel mx; on later than usual; booming in; vg; 3/20. (Taylor-WI) 2230 M. Eastern vcl mx & W ancr in AA; good; 3/26. (Coady-ONT)
- 4845.2 BRAZIL *R. Cultura Ondas Tropicais* Manaus 0950 Choral NA; ID w/ kiloHertz; 4/13. (Wilkner-FL)
- 4850 INDIA *AIR Kohima* 1224-1450 Mostly in vern. except at 1303 in EE w/ "today's and tomorrow's program highlights"; freq given for both 639 kHz & SW; EE from 1350-1400 w/ nx/wx & 1400-1440 w/ prg "Calling All Nagaland" w/ "Sunday evening western mx prg, Yesterday Once More, coming to you from the studios of All India Radio Kohima"; 3/14. (Howard-CA) 1340-1357\*

- Nx/sports/wx in vern.; repeated in EE; Nagaland Chief Minister Rio addressed the meeting of Naga People's Front held today at "the NPF central office in Kohima"; etc.; almost fair; 3/18. (Howard-CA) 1210-1400 Usual format; in vern. & EE; 3/23; 25-26. (Howard-CA)
- 4857.4 **PERU R. La Hora** Cusco 2350 Noted here during bandscan; 4/8 & 11. (Wilkner-FL)
- 4865 **BRAZIL R. Alvorada** Londrina 0950 Choral NA; 4/13. (Wilkner-FL)
- 4894.94 **BRAZIL R. Novo Tempo** Campo Grande 2350 Noted here during bandscan; 4/13. (Wilkner-FL)
- 4885.01 **BRAZIL R. Clube do Para** Belem 0247-0255 Two M ancrs in PP w/ ID & ancments; one LA ballad; best heard in SSB w/ fast QSB & S9+15 of peak w/ strong audio!; mild rustle; good; 3/28. (Serra-Italy)
- 4914.97 **BRAZIL R. Difusora de Macapa** 0308-0320 Slow songs & ballads; M ancr in PP w/ freq & IDs; jingles & ancments; best heard in USB w/ lite CODAR; fast QSB w/ S9+10 of peak; moderate rustle & crackle; almost fair; 3/28. (Serra-Italy)
- 4920 **INDONESIA-PAPUA RRI Biak** 1243 M & W ancrs in Indo; sounded like a phone-in request prg; Euro pop song at 1249; poor w/ CODAR; occ. peaks to fair; 3/15. (Ronda-OK)
- 4925 **BRAZIL R. Educacion Rural Tefe** 0055 Lively PP songs; poor w/ CODAR; 3/16. (Ronda-OK) 0940 Orchestral mx & M w/ID; 4/8. (Wilkner-FL) 0104-0115 (T); M ancr w/ typical Brazilian intonation; started best in USB; then best heard in LSB nulling carrier on 4920 w/ NIR12 & inter-audio filter; poor-v. poor; 4/10. (Serra-Italy)
- 4925 **INDONESIA RRI Jambi** 1327-1345 Played mostly Islamic type mx/singing; seemed to be live phone conversation; v. nice to find them back again!; 3/24. (Howard-CA)
- 4940 **CHINA V. of Strait** Fuzhou 1500-1525 "Focus on China" Sunday prg in EE; usual canned IDs: "This is the Voice of Taiwan Strait News Radio" & "This is the Voice of Strait, Fuzhou, China"; nx items; today only a 25 minute prg; not the usual half hour; 3/14. (Howard-CA) 1207 M & W ancrs w/ CC banter; fair; 3/15. (Ronda-OK)
- 4949.9 **PERU R. Madre de Dios** Puerto Moldanado 1030-1040 Opening to Florida w/ slow M ancr en espanol; f/out; several times mixing w/ EE lang ute; 4/1-3 & 7. (Wilkner-FL)
- 4955 **PERU R. Cultural Amauta** Huanta 2330 Noted here during bandscan; 4/14. (Wilkner-FL)
- 4964 **INDIA AIR Shimla** 1258 Is it possible they are testing a new txmitter?; open carrier; by 1302 had some audio of SC mx/singing; by 1311 was on 4965.0 w/ just an open carrier & no audio; 3/27. (Howard-CA) 4965 1436-1500 Prg of SC songs; 1500-1512 talk, but too weak to ID lang; 1512 switched over to Delhi prgming; not often I hear this one!; 3/16. (Howard-CA)[nice catch-ed.]
- 4965 **ZAMBIA CVC Lusaka** 0140 Promo w/ creepy B movie-like laughter; "One Africa" ID into Christian pop mx; fair but noisy; 4/7. (Coady-ONT)
- 4970 **INDIA AIR Shillong** Not heard at all on 3/18/; heard intermittently 3/19 at 1424; but earlier was mostly off-the-air; wonder if the problem is with their power supply there in NE India?; AIR Kohima has recently also been heard with several breaks in their b/casts; power outages? (Howard-CA)
- 4975.96 **UGANDA UBC Kampala** 2043-2054 Afropops w/ occ. M ancr; best heard in SSB w/ fast QSB & rustle; ute at times nulled in USB w/ inter-audio filter; fair; 3/20. (Serra-Italy) 4976 0332-0410 Noted w/ continuous soft pop vcl selex; brief talk by M in lcl lang. ment. "Uganda" at 0340; more mx; ID at 0401 by M ancr followed by W ancr w/ nx; p-f; 4/9. (D'Angelo-PA)
- 4980 **CHINA Xinjiang PBS** Urumqi 0035 CC or (P) Uighur talk; orchestra mx; 3/15. (Paszkiwicz-WI)
- 4985 **BRAZIL R. Brasil Central** Goiania 2330 Consistently the strongest 60m sig; at this time; much weaker sig at 0950; 4/13 & 14. (Wilkner-FL)
- 4990 **UNIDENTIFIED** 0227-0303 Non-stop mx; (P) LA ballads; best heard in SSB w/ fast QSB & strong static crashes; v. poor/ barely audible w/ & w/out NIR12; 4/1. (Serra-Italy)[most likely Apintie, see below-ed.]
- 4990 **SURINAME R. Apintie** Paramaribo 0401-0430 EZL pop mx; short ancments by W ancr in Dutch; poor to moderate sig; peaking 0420-0425; best in years; finally making it out of the noise for extended periods; 3/15. (Evans-TN) 0306 Wide variety of pop songs in EE & Dutch; IDs in Dutch at 0342; still audible past 0400; //97.1 FM via the internet; poor w/ fair peaks; 3/17. (Ronda-OK) 0911 M ancr in Dutch; jazzy versions of some hymns; more talk to 0918 & child's voice w/ "Radio Apintie" ID; fair; 3/27. (Coady-ONT) 0546 (P) Weak carrier w some mx & axually a bit stronger than adjacent 4985-RBC; v. unusual; must be R. Apintie; which rarely makes an appearance here; 4/11. (Hauser-OK) 0945-0955 Modern, relg type mx; fair sig but modulation was weak; 4/11. (Wlodarski-NJ) 1000; 0000 A regular here during bandscans; 4/14. (Wilkner-FL)
- 5000 **HAWAII WVVH** Kekeha 0943 W time ancments; solar indices at 0945; good; //2500-Ft. Collins; 3/27. (Coady-ONT)
- 5005 **EQ. GUINEA R. Nacional** Bata 2219 Afropops; M ancr in lcl lang; NA at 2301 recheck to 2304 & off; p-f; 3/26. (Coady-ONT)

- 5010 **INDIA AIR Thiruvananthapuram** 1213 Grayline condxs on 60m were much improved; well after lcl sunrise; only problem being our high lcl noise lvl; first noticed on 5010 w/ EE nx at 1232-1235; some of it about India; 1235 into another lang; Aoki does not ment. this EE segment; just 1530-1545; several other intriguing carriers; some w/ audio such as 4760 & 4800 but the only other sig comparable to 5010 was 4920-Chennai at 1238 w/ M & W ancrs in S. Asian lang. & that carrier still audible at 1328; 4/4. (Hauser, OK)
- 5010 **MADAGASCAR RTV Malagasy** Antananarivo 0254 On suddenly w/ choral mx at 0254; into ID sequence at 0300; musical selex's w/ occ. W ancr; sliding to poor at 0349 recheck; fair; best in USB; 3/16. (Ronda-OK) 0356-0410 (P); M & W ancrs; sometimes w/ echo-FX prior to 0400; v. poor w/ some fading & much noise; audible only in USB; heard here for last 2 nights; 3/16. (Evans-TN) 0318 W ancr w/ indigenous mx; large room audio sound; p-f in lcl S7 band noise; 3/18. (Strawman-IA) 1959-2041 Non stop pops; brief M & W ancrs at 2011; more mx prg w/ rap & Afropop; brief M ancr at times; best heard in USB w/ rustle & moderate crackle at times; fair; 3/20. (Serra-Italy)
- 5020 **SOLOMON ISLANDS SIBC** Honiaria 1039 Discussion prg in EE; 1042 "thank you very much"; theme & contemporary mx; "This is Solomon Islands Broadcasting, I'm (?)" ; TC; theme mx & start of diff. prg; 3/19. (Taylor-WI) 1245 I had thought SIBC was no longer leaving the carrier on all night; but I could detect one w/ BFO & don't know what else it could be; 3/22. (Hauser-OK) 1152-1200 US oldies w/ DJ chatter in EE; ancmnts by W; anthem; 1200 off w/ carrier continuing; f-p; 3/27. (Taylor-WI) 1115-1155 Good mx; 1155 Havana-5025 splatter dominated; 4/5. (Wilkner-FL) 1046 Island mx; 4/8. (Wilkner-FL) 1030-1035 Lcl type mx followed by M ancr in Tok Pisin; TC & ID; good w/ 5025-Rebelde splatter; 4/10. (Wlodarski-NJ)
- 5025 **AUSTRALIA VL8K** Katherine 2131-2147 W ancr w/ nx; correspondents w/ many ment. Australia & ID as "ABC news"; pop mx at 2141; best heard in LSB; nulling strong het w/ NIR12 & inter-audio filter; strong crackle; poor-barely audible at times; //4910-Tennant Creek; poor-v. poor w/ Tibet splash on both 4905 & 4920; 3/21. (Serra-Italy)
- 5030 **MAYLASIA-SARAWAK RTM** Sarawak FM Kuching 1035 (P); Ancr in listed Malay; Qur'an chants; poor; 3/19. (Taylor-WI) 1253 Pop mx; strong enough for Cuba 5025 not to be a problem; 1255 singing PSA or commercial ment. Malaysia; 1300 2-pip timesig at least 10 seconds late; then talk; news; fair; 3/19. (Hauser-OK) 1340-1353; 1600\* Pop mx; singing "Sarawak FM" ID as part of montage of audio clips; mostly fair but poor by s/off w/ 1+1 pips; 3/19. (Howard-CA) 1231-1234 The final Muslim call to prayer of the day; Isha, night prayer; 3/26. (Howard-CA) 1420-1500 Lots of pop mx & "subdued" M ancr; two pips & ID at ToH; vg; 3/26. (Molander-CA) 1406 In Malay w/ Western pop mx; discussion over telephone; f-g; 4/13. (Sellers-BC)
- 5039.29 **PERU R. Libertad** Junin 1100 Musica de Peru with Havana-5040 off; 4/9. (Wilkner-FL)
- 5040 **CUBA RHC** Havana 2330 A few days ago RHC said it would start operations on 5040, 3/22 at 2300; indeed on w/ v. good sig amid EE; Arnie Coro says it's a NVIS antenna w/ limited coverage; but like Rebelde-5025; it really gets out horizontally as well as vertically; kept monitoring 5040 & heard: 0000 FF; 0100 Creole; 0130 FF & 0200 SS; supposed to run SS all the way until 1100 but at 0540 noticed it was off; not sure when it quit; but maybe around 0500 when other txmitter/freq changes are made; 3/22. (Hauser-OK) 0154-0210 W ancr w/ FF talk until prg end at 0157; long dead period before ID & M ancr w/ SS nx; f-g; 3/24. (D'Angelo-PA) 2338 Juan Carlos w/ feature re metric system in use in Cuba; W w/ ID at 2342; M ancr w/ mailbag prg; fair; 4/7. (Coady-ONT) 0705 RHC check when you never know which freqs will be on w/ which lang; 5040 & 6010 in EE; "Ed Newman" opening the mailbag on this UT Thursday; 6060, 6120 & 6150 in SS; 5970 off; 4/8. (Hauser-OK)
- 5040 **EQUADOR LV del Upano** Macas 0221 (T); Ancr w/ brief SS talk; musical bridge; talk w/ two ancrs; off 0223 mid-sentence; I wonder if they ran long & forgot to turn the txmitter off?; good; 3/24. (Taylor-WI)[nope; see above-ed.]
- 5040 **INDIA AIR Jeypore** 1710-1720 Hindi vcl chants; best heard in SSB; just over static crashes; at times RTTY on lowside; poor; 4/4. (Serra-Italy)
- 5044.92 **BRAZIL R. Cultura do Para** Belem 0000-0030 Noted here in PP; v. strong; 4/8. (Wilkner-FL) 5044.98 0805-0820 Lively Brazilian mx; PP ID ancmnts at 0817; good; 4/9. (Alexander-PA) 2321-2339 PP mx prg w/ pop & rock songs; ancmnts & many IDs at 2330 & an ad; then chatting over mx; best heard in USB & CW mode w/ lite, fast QSB & S9+20 of peak; exc. strong audio, similar to lcl stns in MW; Rai & Vatican Radio txs in Rome!; 4/9. (Serra-Italy) 5045 2317 Instrumental versions of 60's hits; M ancr in PP w/ full ID at 2332; vg; 3/26. (Coady-ONT)
- 5050 **CHINA China Huayi BC** Chengdu 1214 Prg in CC; 1230 into non-stop pop CC songs; no s/off ancmnt; just tips at 1300 & off; well above the QRM from co-ch. Guangxi Beibu Bay Radio; 3/15. (Howard-CA)
- 5050 **CHINA Guangxi Beibu Bay Radio** Nanning 1217 M & W ancr in Vietnamese; poor but audible; something here each day this week but identifiable audio only; 3/15. (Ronda-OK)[Two diff. stns logged on same freq; 3 minutes & 15k miles apart!-ed.] 1300 Multi-language IDs: "This

- is Guangxi Beibu Bay Radio"; "Weather Report" in Vietnamese w/ wx for many cities such as Kuala Lumpur, Singapore, etc; played mostly Vietnamese pop mx; some AIR Aizawl QRM; 3/15. (Howard-CA)
- 5050 **USA WWRB** Morrison 0544-1318 Running much longer hours; testing?; nothing but Bible readings heard; not the Alex Scourby version but someone else w/ stilted KJV & occ. mx background; considerable distortion & ACI to Brasil-5045 but that was still audible unlike 24 hours earlier when WWRB was splattering down to 5035; next check at 1200; still (again?) on the air w/ more of same; blocking any chance of hearing Vanuatu-5055; still on at 1210, 1232 & 1306 but gone by next check 1318, when, however, 3185 was still audible w/ Bro. Scare; // much stronger 9385; 3/18. (Hauser-OK) 1220 Still on extended sked w/ Bible readings; or not exactly; tho in stilted KJV EE; adding dramatizations w/ angry crowd noises; diff. voices M & W; even mx; I had a feeling something awful was about to happen to J.C.; modulation distorted as usual & splattering to the low side where there was an intermittent blob circa 5042; 3/25. (Hauser-OK) 0428 Recently expanded to all-night operation; was always running Biblical dramatizations in EE when I tuned across it; but in SS instead w/ prgrmng called "Con la Biblia Abierta"; did not recheck until 0601 when 5050 was back in EE; 4/6. (Hauser-OK)
- 5055 **VANUATU R. Vanuatu** Port Vila 1005 (P); Alternating M & W ancrs; poor; first time for me!; 3/19. (Taylor-WI)
- 5059.99 **CHINA Xinjiang PBS** Urumqi 1657-1709 M & W ancrs w/ CC banter; diff. M & ancments also over mx; best heard in LSB to null RTTY; moderate static crashes; lite QSB & het; fair; 4/4. (Serra-Italy)
- 5070 **USA WWCR-3** Nashville 2218 Already on instead of 12160; 3/14. (Hauser-OK) 0121 Blessed relief from the ranting of Pastor Pete Peters; just open carrier on 5070; 5890 & WTWW 5080; meanwhile at 0123 there were a couple of familiar computer audio cues briefly filling the void; until PPP finally cut on, in progress, at 0133 on all three freqs; 3/19. (Hauser-OK)
- 5075 **CHINA V. of Pujiang** Shanghai 1246 (P) Going from mx to CC talk; vs. ute beeps from 5078; must be V. of Pujiang-Shanghai supposedly only 15 kW southward; partly in Amoy per Aoki; 3/22. (Hauser-OK) 1203 Ancr w/ CC popular mx; ancments; short talks by various ancrs; back to mx; fair; 3/27. (Taylor-WI)
- 5080NF **USA WTWW** Lebanon 0006-0203 Tuned by to note big sig w/ EE relg fare; re-tuned at 0140 to another "anti" prg complaining census forms; prayer seemingly against Congress & health care bill w/ Pastor Pete Peters on his Scriptures for America Worldwide prg; weird, strange prg w/ sloppy production techniques; ID at 0200 ment. they were performing prg tests; more Peter J. Peters after ID; strong, exc. sig for what its worth; 3/17. (D'Angelo-PA) 1137 Still running until 1200; noted w/ PPP vs. the ute beeps on 5078; 3/18. (Hauser-OK)
- 5120.33 **PERU Ondas del Suroriente** Quillabamba 1020-1030 Noted here during bandscan; next day at 2345; 4/13-14. (Wilkner-FL)
- 5459.87 **PERU R. Bolivar** Cd. Bolivar 0000-0022 Noted here during bandscan; 4/8. (Wilkner-FL)
- 5485.6 **PERU R. Frecuencia Popular** Olmos 0043 Flute mx; excited talks; (P) ID; TCs; improving by 0120; 3/15. (Paszkievicz-WI)
- 5485.5 **UNIDENTIFIED** 0141-0203\* M ancw w/ prg of OA vcls w/ flute mx; SS talk & ancments; off w/ apparent closedown ancments; no NA; poor w/ moderate noise but deep fades; 3/15. (D'Angelo-PA) [see above-ed.]
- 5580.2 **BOLIVIA R. San Jose** San Jose de Chiquitos 2345 Noted here during bandscans; 4/8 & 14. (Wilkner-FL) 5580.3 0117 Flute mx; weak; 3/15. (Paszkievicz-WI)
- 5765U **GUAM AFN** Barrigada 1058 In EE w/ Worldwide NPR spot; "Airforce report"; "Morning Edition", which I think was in the late afternoon in Guam; good; 3/19. (Taylor-WI)
- 5755 **USA WTWW** Lebanon 0541 Ex-5080 & instead found back on 5755 w/, what else?; Pastor Pete Peters //5890-WWCR; so it looks like somebody complained; likely the ute on 5078; WTWW continues to be heard at night on 5755, ex-5080, ex-5755; such as 0130 3/24; 3/23. (Hauser-OK)
- 5770 **MYANMAR Myanmar Defense Forces BCS** Taunggyi 1511-1528\* Regular prgrmng w/ pop mx 7 talk; in vern. until s/off ancment & indigenous theme mx until off; 3/26. (Howard-CA)
- 5835 **N. MARIANA ISLANDS RFA** Tinian 1359 Good open carrier; 1400 Radio Free Asia theme joined in progress & EE ancment that Cantonese would follow; 4/4. (Hauser-OK)
- 5890 **USA VOA** Greenville 0007 Checking freq usage now for "A Fondo"; the VOA/Radio Marti joint production; now 0000-0100 Tue-Sat; //9885 over DentreCuban jamming & 7340 w/ no jamming; 3/19. (Hauser-OK)
- 5890 **USA WWCR-4** Nashville 0330 Confirmed w/ new WORLD OF RADIO airing, #1506; vg; 4/5. (Hauser-OK)
- 5900 **BULGARIA R. Bulgaria** Sofia 0401-0411 W ancw w/ ID & nx in RR; jazz at 0409; M ancw at 0410; poor-moderate w/ fading; //7400-weaker in a noisy portion of the band; 3/17. (Evans-TN) 

# International Band Loggings

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- 5910 **COLOMBIA Marfil Estereo** Puerto Lleras in SP 0904, ranchero-like music, panpipe-like tones and an OM with talk and ID, talk about "Salute de salvos", good (Coady ONT 3/27)
- 5920 **RUSSIA Trans World Radio** relay via Irkutsk in Kuruk vernacular 1415, YL/OM announcers with several mentions of "TWR", music in the background, very good (Molander CA 3/26)
- 5940 **RUSSIA Radio Rossii** via Magadan in RS 1245, coloratura soprano, interview, poor signal but in the clear and well-modulated, //7200 Yakutsk (Hauser OK 4/10)
- 5985 **MYANMAR Myanmar Radio** Yangon in EG 1556, C&W music to 1604, talk in EG but unable to understand due to CRI QRM, non-stop ezl orchestra music, NA and off 1630 (Howard CA 3/26)
- 6010 **CANADA R Sweden** relay via Sackville in EG 0140, IDs, talk on Swedish history, feature on the use of DNA to date the skull of Swedish Saint, tune by local musician, sudden cutoff in the middle of tune at 0158, IS and ID by YL in Swedish, very good (Montgomery PA 4/1)
- 6020 **ALBANIA China R Int'l** relay via Cerrik in EG \*0100, YL with news, feature "People in the Know" with Thomas Rippe, fair to good (Coady ONT 4/8) in EG 0015, talk on Google's problems in China and "Beijing Hour" feature (Ebrecht CO 4/3) in EG \*0100, ID, report on Google's problems in China, mention of President Obama, good (McGuire MD 3/24)
- 60496v **MALAYSIA Asyik FM** via RTM Kuala Lumpur in Malaysian 1224, DJ with pop songs, "Asyik FM" jingles, final Muslim call to prayer of the day, more pop music, almost fair (Howard CA 3/25)
- 6055 **SPAIN REE Noblejas** in FR/EG 2303, ID, news, commentary on EU summit (Ebrecht CO 4/3) in EG \*0000,, IS, time pips, fanfare, YL with ID, program highlights, news, very good (Coady ONT 3/24)
- 6060v **BRAZIL Super Radio Deus e Amor** via Curitiba in PT 2301, ID, announcements, religious talk, poor with adjacent channel splatter, //11765 good (Alexander PA 3/26)
- 6070 **CANADA CFRB** Toronto in EG 1420-1500, talk show w/comments about Michael Moore and Ann Coulter, talks about G20 conference and required security, ID "news talk 1010" MW outlet being relayed by CFRB (Montgomery PA 3/24)
- 6070 **NORTH KOREA Voice of Korea** via Kanggye in JP 1201, IS, NA, into Japanese programming, on top of CFRB Toronto but soon faded underneath, poor (Sellers BC 3/18)
- 6075 **RUSSIA Radio Rossii** via Petropavlovsk in RS 0810-0900, local/regional program, ID "Radio Rossii Kamchatka", non-stop talk, phone #, ID in EG 0830, end of local program 0900 (Howard CA 3/24)
- 60899v **NIGERIA Radio Nigeria Kaduna** in Hausa 2135-2207, local tribal chants, talk at 2200, more tribal music, good signal until 2207 when covered by Anguilla s/on (Alexander PA 4/3)
- 6105 **GERMANY Trans World Radio** relay via Nauen in EG \*0658, IS, ID, program called "Rendezvous" followed by another ID and "Through the Bible" program, fair to good (D'Angelo PA 3/31)
- 6120 **IRAN Islamic Republic of Iran Broadcasting (IRIB)** relay via Kamalabad in EG 0308-0330, talks about education costs in the USA and about George Washington and his invasions, total negative comments about the US and how the US uses U238 uranium as armor on tanks and in shells used by the tanks, also how the US is causing cancer for US troops as well as Iraqi soldiers (Montgomery PA 3/27)
- 6130 **ALBANIA R Tirana** in EG 0130, ID, frequencies, skeds, news from AB parliament (Ebrecht CO 3/24)
- 61348v **BOLIVIA R Santa Cruz** in SP 1000, local music, ID, announcements and promos, g (Alexander 4/10)
- 6145 **CHINA China R Int'l** via Beijing in EG 2316, talks about China buying Volvo away from Ford Motors ID at 2319, strong signal w/slight fades (Montgomery PA 3/29)
- 6150 **HUNGARY Radio Budapest** in HG 0142-0200\*, discussion by two YLs, instrumental music, IS alternating with IDs in several languages including EG, fair to good (D'Angelo PA 4/4)
- 6155 **INDIA AIR** Bangaluru in Urdu 0038, typical subcontinent music, ID in EG, news w/Pakistan mentioned several times, strong signal w/slight fades (Montgomery PA 3/30)
- 6155 **AUSTRIA RAI** Moosbrunn in GM 0541, trumpet voluntary, schedule and program announcements, IDs, postal and e-mail addresses, news, fair (Taylor WI 3/28)
- 6160 **CANADA CKZN** St. Johns, Newfoundland in EG 2210, CBC News and feature "The World Ahead" a program re Thai protests, Shroud of Turin, CBC promos, fair (Barbour NH 4/10)
- 6165 **CHAD RNT N'Djamena** in FR 0457-0537, Afro-pop and hi-life music, talks, local drums, poor to fair, also heard 2150-2230\* with similar programming and NA at s/off, with light QRM (Alexander 3/26) in FR 2219-2238, news and reports at t/in, pop ballads, passing mention of N'Djamena, light pops with DJ between selections, fair-good (Barbour NH 4/10)
- 6170 **NEW ZEALAND RNZI** in EG 1016, "Late Edition" featuring a report by Mary Wilson on farming from "Checkpoint" program, very good (Coady ONT 4/7) in EG 1053, program details, OM with song form the opera Aida, ID, s/off at 1059 and requesting retuning to 9655, good (Wlodarski NJ 4/10)

- 6185 **MEXICO Radio Educacion XEPPM** Mexico City in SP \*0000, NA sung by a choir, frequency and program details, "Musicana Mexicana", ID in EG and SP, ballad, excellent (Kivell FL 3/28) in SP 0950, highly spirited and emotional OM with talk, brief torch song, ID and station info, fair to good (Coady ONT 3/27) in SP 0804, nice program of soft local music, full IDs in SP and EG, fair signal (Delmage AB 4/10) in SP 0545 with great music, mostly romantic, no QRM!! (Hauser OK 4/7)
- 6240 **MOLDOVA V of Russia** relay via Kishinev in EG 0255, ID at ToH, news, talks about Russian language in various countries, strong signal w/some fades (Montgomery PA 3/23)
- 6270 **EGYPT R Cairo** Abu Zaabal in EG 0306, ID, news 0309, tourist info, mentioned new culture center, music w/YL vocalist, 4 time pips 0315, NA and another ID at s/off, exc signal (Montgomery PA 3/25)
- 6890 **ETHIOPIA R Fana** Addis Ababa in Amharic 0347, Horn of Africa music, talk by OM, music at 0354, announcements, news(p), very poor (Evans TN 4/9) in Amharic \*0258, s/on with IS, talk, Horn of Africa music starting at 0306, weak but readable, //6110 weak under Cuba (Alexander PA 4/10)
- 7335 **ROMANIA RRI** Bucharest in EG \*0000, IS, ID, "Radio Newsreel", news, good (McGuire MD 3/30)
- 7440 **UKRAINE R Ukraine Int'l** Lviv in EG 0200, ID, frequencies, skeds, addresses (Ebrecht CO 4/3)
- 7575 **PHILIPPINES VOA** relay Tinang in EG 1304, Jazz America, contact info and responding to listener in Yukon, Oklahoma, VOA news, report from DXer Dan Robinson at the White House (Hauser OK 4/10)
- 9335 **SYRIA R Damascus** in EG 2125, fanfare, ID, YL with a press review, into local music at 2130, fair, //12085 (Coady ONT 3/27)
- 9445 **INDIA AIR** Bangalore in EG 2140, YL/OM with a feature about India adopting "E Governance", very good, //6180 and 7550 (Coady ONT 3/27)
- 9575 **ROMANIA RRI** Bucharest in SP \*2200, IS, ID, frequency, schedule, news, g (McGuire MD 3/23)
- 9580 **GABON Afrique Numero Un** via Moyabi in FR 2128, Doo Wap gospel show, fantastic music mostly featuring James Brown, titles of songs mostly mentioned in EG, good (Kivell FL 3/12)
- 9600 **MARIANAS ISLANDS Vatican Radio** relay via Tinian Island. in CH \*2200, IS, ID, chimes, religious programming, good (McGuire MD 3/30)
- 9635 **MALI RTV du Mali** Bamako in FR \*0800-0840, s/on w/FR announcements, flute IS, local African music, talk in Vernacular, rustic African music at 0820, poor to fair (Alexander PA 3/27)
- 9665 **MOLDOVA Pridnestrovie Radio PMR** in EG 0045, IS, fanfare, OM with ID "This is Tiraspol, capital of the Pridnestrovie Moldavian Republic", into news, good (Coady ONT 3/30)
- 9665 **MOLDOVA Voice of Russia** relay via Maiac in EG 0223, YL with feature "News and Views", into instrumental music, ID 2130, more news, feature re orthodox people in Russia, fair (D'Angelo PA 4/1)
- 96651v **BRAZIL Radio Voz Missionaria** Florianopolis in PT 0120, preacher and contemporary PT religious music, weak in noisy conditions, //11749v and 5939v (Alexander PA 4/10)
- 9690 **NIGERIA V of Nigeria** Ikorodu in Hausa 0820, talks by two OMs, brief instrumentals break and continuation of talks, local string music and announcements, fair (Serra ITALY 3/23) in Hausa 0827, "Talking Drums", promo, tinny strings music, poor (Barbour NH 3/30)
- 97042 **ETHIOPIA R Ethiopia** Addis Ababa in Vernacular 2041-2054\*, Horn of Africa music, announcement by YL 2050, back to music until s/off, fair over Niger on 9705 (Barbour NH 4/10)
- 9705 **NIGER La Voix du Sahel** Niamey in FR/Hausa? 2132, talk or speech by OM in Hausa?, tribal music, flutes, YL with talk and announcements in FR, upbeat local pop music, poor to fair (Evans TN 4/10) in Hausa? 2054-2124, radio drama? with occasional music bits continuous t/out, in the clear after Ethiopis s/off (Barbour NH 4/10) in FR 2250, Celine Dion tune, short IS and NA at 2257\* (Delmage AB 4/10) reactivated station in FR/Hausa? 2115-2301\*, talk in Hausa? at tune-in, local tribal chants, local music with flutes and vocals, talk in FR after 2200 and Euro pop music, Qur'an from 253-2259, short flute IS and choral NA, quick test tone at 2301 and off, poor but improved to good by 2200 (Alexander PA 4/9)
- 9730 **VIETNAM V of Vietnam** Hanoi in EG 1605-1632, YL/OM discussing international news, ID, more news, very brief periods of music b/w the various news items, weak w/static (Molander CA 4/1)
- 9750 **JAPAN NHK Radio** Ibaragi in JP 1042, banter b/w several announcers to 1055, announcement and music bits, IS snippet, ID over light music, 3+1 pips and into news, fair (Barbour NH 4/10)
- 9765 **NEW ZEALAND RNZI** in EG 0800, OM reading news, ID, local songs for Pacific Islands music program, almost fair reception (Serra ITALY 3/23)
- 9820 **CHINA CNR-2 China Business Radio** in CH 2310-0006, talk features, music fanfare, announcements and ID, discussion program from 2331, another fanfare, 5+1 pips, news, fair (D'Angelo PA 3/16)
- 9920 **PHILIPPINES FEBC** Manila via Bocaue in Vernacular 1118, ballad at tune-in, announcements and music bit, IS, into music, booming signal (Barbour NH 3/22)
- 9930 **PALAU T8WH** Koror in EG 1231, religious talks, Bible verses, "Eternal Good News", ID, Oklahoma contact info at 1243, promo of sorts 1245, "Amazing Grace" feature, poor (Barbour NH 3/28)

- 11620 **SPAIN** *REE* Noblejas in FR \*2000, IS, ID, frequency, schedule, news, good (McGuire MD 3/29)
- 11720 **PHILIPPINES** *Radio Pilipinas* in EG/Filipino 1730, s/on suddenly in mid-song, ID, schedule in both languages, more IDs – some spoken or sung, talk by OM in Filipino, g, //15190 p-f (Sellers BC 4/17)
- 11735 **ROMANIA** *RRI* Bucharest in EG 1714, news, ID, culture program, good (Sellers BC 4/17)
- 11750 **AUSTRALIA** *HCBJ Australia* via Kununurra 0729, music, ID, talk program w/music pauses at times, phone calls, poor to fair with QRM and hets (Serra ITALY 3/13)
- 11760 **CUBA** *RHC* Havana in EG 2056, IDs, talk mentioning that Cuba has been on the air for 45 years, Cuban music, fair (Sellers BC 4/17)
- 11765 **BRAZIL** *Super Radio Deus e Amor/Radio Tupi* via Curitiba in PT 0100, religious talk, ID, promos and announcements, religious music, emotional preacher, poor to fair, //6060 (Alexander PA 4/10)
- 11900 **CHINA** *China Radio Int'l* in EG 1719, talks covering arts and entertainment, including two OMs discussing movies, fair-good, //9695 poor (Sellers BC 4/17)
- 11945 **AUSTRALIA** *R Australia* in EG 0734-0806, interview for program "Dateline Pacific", ID, talk by two OMs about Australia matters, music breaks, news, feature, f-p, //9475 (Serra ITALY 3/22)
- 11985 **RUSSIA** *V of Russia* Moscow in EG 1643, ID, classical music, interview, poor (Sellers BC 4/17)
- 11990 **KUWAIT** *Radio Kuwait* in EG 1930-2058\*, pop song into OM introducing feature "Human Civilization" mentioning a great Arab scholar, and an introduction to history, then YL w/lots of musical production, rock and pop music with a gospel-tinge, news headlines, fair reception (Hauser OK 3/25)
- 12085 **SYRIA** *Radio Damascus* in EG 2125, OM w/talk features, fanfare, ID at 2127 followed by Syrian local vocals, fair signal, //9330 poor (D'Angelo PA 3/25)
- 12095 **THAILAND** *R Thailand* in EG 0035, ID, economic news, report on Vietnam, g (McGuire MD 3/23)
- 13640 **ALBANIA** *R Tirana* in EG \*1530, IS, ID, frequency, schedule, news, good (McGuire MD 3/24)
- 15190 **PHILIPPINES** *Radio Pilipinas* via Tinang in EG/Filipino \*1730, s/on w/music and vocals, ID, announcements in Filipino, local music, OM speaking in Filipino w/some EG words and sentences, talking re American naval base and World War II, poor but improving to fair-good (Sellers BC 4/10)
- 15190 **EQUATORIAL GUINEA** *R Africa* Bata in EG 2006, "Calvary Hour" with OM preacher requesting listeners to write "we would be glad to hear from you", poor-fair (Kivell FL 3/8) in EG 2006, Gospel song, OM giving contact info for R Africa and thanking listeners for listening, into recorded Christian program from California, fair-poor with low modulation (Sellers BC 4/17)
- 15225 **PHILIPPINES** *R Veritas Asia* via Palauig in Vernaculars 1220, YLs with talks in language, song, IS, ID, frequency quote over music, OM w/talk in Kachin?, good audio (Serra ITALY 3/24)
- 15235 **SOUTH AFRICA** *Channel Africa* Meyerton in EG 1740, feature on mobilizing against malaria, ID (Fraser ME 3/12)
- 15275 **THAILAND** *R Thailand* Udon Thani in EG 0216, ID, features "Take on Thailand" and "Broadcast to the US West Coast", fair signal (Ebrecht CO 3/3)
- 15430 **ROMANIA** *RRI* in EG 1545-1557\*, Letterbox replying to several listeners and signing off until next EG program at 1800, gave all its SW frequencies and only some of the frequencies for the following day at 1200, good signal, //15105 weaker (Hauser OK 3/26)
- 15630 **PAKISTAN** *R Pakistan* Islamabad in Tamil 1323, South Asian music, into talk, news summary? With frequent mentioning Pakistan, Washington, Robert Gates, and America, tinny band playing unfamiliar national anthem and off at 1332, good level with hum and flutter (Hauser OK 3/24)
- 15710nf **SLOVAKIA** *Miraya FM* in AR 1428-1510, talk, ID, jingles, local music, fair (Alexander PA 3/28)
- 15745 **SRI LANKA** *SLBC* Colombo in EG 0145-0222, announcer w/British accent singing "Happy Birthday to You" and playing Beach Boys and Beatles music, ID 0215, into religious program, signal rather weak with lots of static (Molander CA 3/27)
- 15760test **UNITED KINGDOM** *UK Rocks the World* test transmission 1501-1552, playing non-stop rock music with IDs and twitter/e-mail addresses given throughout broadcast, good to start with but bad QRN noise around 1520, some improvement by 1545 and onward (Delmage AB 4/4)
- 17745 **PORTUGAL** *Sudan Radio Services* relay via Sines in Sudanese? 1519, clear IDs, mentioned Khartoum and Nairobi, Kenya, OM singing "Give me strength, give me faith, many times I've crossed the river" very good with some static (Molander CA 3/26) in EG 1536, OM/YL talking about elections with mention of Sudan, brief music, YL talking about the National Election Commission and discussion re appropriate behavior if your candidate loses, fair with very deep fades into the noise (Evans TN 3/27)
- 17770 **PHILIPPINES** *R Pilipinas Overseas* via Tinang in EG 0208-0234, upbeat announcer saying hello to a bunch of people, 'send in dedications to 920-3928', ID, feature "Hot Summer in the Philippines", fair signal with some fading and static (Molander CA 3/27)

# Times & Frequencies In English

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Compiled by Mike Barraclough from station schedules, monitoring observations and reported updates.  
Updates and corrections are always welcome.

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Core DX, Nagoya DX Circle

Relay sites: a= Ascension, A= Almaty, Kazakhstan, b= Bonaire, c= Sackville Canada, d= Dhabbaya, UAE, D=  
Dushanbe, e= Espana (Spain), E= Emirler, Turkey f= WYFR Florida, F= Issoudon, France, g= Agat, Guam,  
G= Montsineri, French Guyana, h= Havana, H= Horby Sweden, k= Kigali Rwanda, K = Kishinev, Moldova, L=  
Sri Lanka, L = Sitkunai, Lithuania, m=Meyerton, RSA, M= Moosbrun, Austria, N=Nauen, Germany o=  
Bamako Mali, p= Tinang, Philippines, P= Palau, q= Cerrick/Flaake, Albania, r= Russia (various), s= Sines  
Portugal, S= Singapore, t= Talata, Madagascar, T= Tinian, u= Skelton/Rampisham UK, U= Tashkent,  
Uzbekistan, v= Taiwan, V= Santa Maria de Galeria, Vatican, w= Werchatal Germany, x= Xian/Kashi/  
Kunming/Urumschi China, y= Yamata Japan, Z = Zambia

Abbreviations: /= target area divider, 1st< or >2nd half hour, Af= Africa, As= Asia, CA= Central America,  
Eu= Europe, FE= Far East, LA= Latin America, ME= Middle East, NA= North America, Nat = National,  
Pa= Pacific, e= east, n= north, s= south, w= west, Int= International, R= Radio, VO= Voice of

|                  |                 |                               |
|------------------|-----------------|-------------------------------|
| ALBANIA R TIRANA | 0030-0045 NA    | 9860 Tuesday to Sunday        |
| ALBANIA R TIRANA | 0145-0200 NA    | 7425 Tuesday to Sunday        |
| ALBANIA R TIRANA | 0230-0300 NA    | 7425 Tuesday to Sunday        |
| ALBANIA R TIRANA | 0330-0400 NA    | 7425 Tuesday to Sunday        |
| ALBANIA R TIRANA | 1430-1500 NA    | 13755 Monday to Saturday      |
| ALBANIA R TIRANA | 1845-1900 Eu    | 7520 13640 Monday to Saturday |
| ALBANIA R TIRANA | 2000-2030 Eu NA | 7465 13640 Monday to Saturday |

|                    |              |       |
|--------------------|--------------|-------|
| ANGUILLA CARIBBEAN | 1000-2200 NA | 11775 |
| ANGUILLA BEACON    | 2200-1000 NA | 6090  |

Relays Dr. Gene Scott University Network

|               |              |                             |
|---------------|--------------|-----------------------------|
| RAE ARGENTINA | 0200-0300 NA | 11710 Tuesday to Saturday   |
| RAE ARGENTINA | 1800-1900 Eu | 9690 15345 Monday to Friday |

|            |               |                   |
|------------|---------------|-------------------|
| AWR AFRICA | 1800-1830 Af  | 3215m 3345m 9610m |
| AWR AFRICA | 2100-2130 WAF | 11955M            |

|          |               |                                  |
|----------|---------------|----------------------------------|
| AWR ASIA | 1200-1230 As  | 15435w                           |
| AWR ASIA | 1330-1400 SAs | 11860g Monday, Tuesday, Saturday |
| AWR ASIA | 1500-1530 SAs | 11720g                           |
| AWR ASIA | 1530-1600 As  | 15255w                           |
| AWR ASIA | 1600-1630 SAs | 11720g 11805g                    |
| AWR ASIA | 1630-1700 SAs | 11740g                           |
| AWR ASIA | 2130-2200 As  | 11850g                           |
| AWR ASIA | 2230-2300 As  | 15320g                           |

|                |              |                                       |
|----------------|--------------|---------------------------------------|
| HCJB AUSTRALIA | 0245-0300 As | 15400                                 |
| HCJB AUSTRALIA | 0730-0930 Pa | 11750                                 |
| HCJB AUSTRALIA | 1230-1330 As | 15400 (Saturday and Sunday 1130-1330) |
| HCJB AUSTRALIA | 1445-1530 As | 15340                                 |

|                 |                 |   |
|-----------------|-----------------|---|
| RADIO AUSTRALIA | 0000-0100 As Pa | 9660 12080 13670 13690 15240 15415> 17715 17750 17795 |
| RADIO AUSTRALIA | 0100-0200 As Pa | 9660 12080 13670 13690 15240 15415 17715 17750 17795  |
| RADIO AUSTRALIA | 0200-0400 As Pa | 9660 12080 13670 13690 15240 15415 15515 17750 21725  |
| RADIO AUSTRALIA | 0400-0500 As Pa | 9660 12080 13670 13690 15240 15415> 15515 17750 21725 |

|                     |           |          |   |
|---------------------|-----------|----------|---|
| RADIO AUSTRALIA     | 0500-0600 | As Pa    | 9660 12080 13630 13670 13690 15160 15240 15415> 17750                       |
| RADIO AUSTRALIA     | 0600-0700 | As Pa    | 9660 12080 13630 13670 13690 15160 15240 15290* 15415> 17750 *Sat/Sun       |
| RADIO AUSTRALIA     | 0700-0800 | As Pa    | 9475 9660 9710 11945 12080 13630 15160 15240                                |
| RADIO AUSTRALIA     | 0800-0900 | As Pa    | 9475 9485 9580 9590 9710 11945 12080 13630                                  |
| RADIO AUSTRALIA     | 0900-1100 | As Pa    | 9475 9485 9580 9590 11945 12080   |
| RADIO AUSTRALIA     | 1100-1200 | As Pa    | 5995 6020 9475 9485 9560 9580 9590 9965P 11945                              |
| RADIO AUSTRALIA     | 1200-1300 | As Pa    | 6020 9475 9485 9560 9580 9590 9965P 11945                                   |
| RADIO AUSTRALIA     | 1300-1400 | As Pa    | 6020 9485 9560 9580 9590  |
| RADIO AUSTRALIA     | 1400-1500 | As Pa    | 5995 6080 7240 9475> 9590 11660>  |
| RADIO AUSTRALIA     | 1500-1600 | As Pa    | 5995 6080 7240 9475 9590 11660  |
| RADIO AUSTRALIA     | 1600-1700 | As Pa    | 5995 6080 7240 9475 9710 11660  |
| RADIO AUSTRALIA     | 1700-1800 | As Pa    | 5995 6080 9475 9580 9710 11880  |
| RADIO AUSTRALIA     | 1800-1900 | As Pa    | 6080 7240 9475 9580 9710 11880  |
| RADIO AUSTRALIA     | 1900-2000 | As Pa    | 6080 7240 9475 9500 9580 9710 11880   |
| RADIO AUSTRALIA     | 2000-2100 | As Pa    | 6080* 7240* 9500 9700 11650 11660 11880 12080* *Sat/Sun                     |
| RADIO AUSTRALIA     | 2100-2200 | As Pa    | 9500 9660 9700 11650 11660 11695 12080 13630 15515                          |
| RADIO AUSTRALIA     | 2200-2300 | As Pa    | 9660 11875v 12080 13630 15230 15240v 15360 15515 15560                      |
| RADIO AUSTRALIA     | 2300-2400 | As Pa    | 9660 11875v 12080 13670 13690 15230 <15240v 15360 15415> 15560 17750> 17795 |
| RADIO AUSTRIA INT   | 0609-0612 | Eu       | 6155 Monday to Friday   |
| RADIO BANGLADESH    | 1230-1300 | As       | 7250  |
| RADIO BANGLADESH    | 1745-1900 | Eu       | 7250  |
| BELARUS RADIO MINSK | 2000-2200 | Eu       | 7255 7360 7390  |
| RADIO BULGARIA      | 0200-0300 | NA       | 9700 11700  |
| RADIO BULGARIA      | 0630-0700 | Eu       | 9600 11600  |
| RADIO BULGARIA      | 1730-1800 | Eu       | 5900 7400   |
| RADIO BULGARIA      | 2100-2200 | Eu       | 5900 7400   |
| RADIO BULGARIA      | 2300-2400 | NA       | 9700 11700  |
| RADIO CANADA INT    | 0000-0057 | SEAs     | 11700x  |
| RADIO CANADA INT    | 0005-0104 | NA       | 6100 Tuesday to Saturday  |
| RADIO CANADA INT    | 0100-0159 | SEAs     | 9620E   |
| RADIO CANADA INT    | 1500-1557 | As       | 11675x 15125x   |
| RADIO CANADA INT    | 1505-1705 | NA       | 9515  |
| RADIO CANADA INT    | 1700-1759 | Eu       | 5850H Saturday  |
| RADIO CANADA INT    | 1800-1859 | Af       | 9530x 11765u 17735 17810u   |
| RADIO CANADA INT    | 2000-2059 | Af       | 15235 17735   |
| RADIO CANADA INT    | 2305-0004 | NA       | 6100 Monday to Friday   |
| CHINA RADIO INT     | 0000-0100 | NA/Ew/As | 6020q 9570q/ 7350 / 6075 6180 7415 11790 11885 13750 15125                  |
| CHINA RADIO INT     | 0100-0200 | As       | 6180 9535 11870 15125 15785   |
| CHINA RADIO INT     | 0100-0200 | NA/Eu    | 6080c 6020q 9570q 9580h 9790c/ 9470 9675                                    |
| CHINA RADIO INT     | 0200-0300 | As       | 11770 13640   |
| CHINA RADIO INT     | 0300-0400 | NA/As    | 9690e 9790h/11770 13750 15110 15120 15785                                   |
| CHINA RADIO INT     | 0400-0500 | NA/As    | 6020c 6080c/13750 15120 15785 17730 17855                                   |
| CHINA RADIO INT     | 0500-0600 | NA/Af/As | 6020c 6190c/11710q 17505/ 11895 15350 15465 17505 17540 17730 17855         |
| CHINA RADIO INT     | 0600-0700 | Af/As    | 11710q 17505 /11895 13660 15350 15465 17505 17540 17710                     |
| CHINA RADIO INT     | 0700-0800 | Eu/Af/As | 13710q 17490 /15125 /11895 13660 15125 15350 15465 17540 17710              |
| CHINA RADIO INT     | 0800-0900 | Eu/Af/As | 13710q 17490 /15625 /11620 11895 15350 15465 15625 17540                    |
| CHINA RADIO INT     | 0900-1000 | Eu/As/Pa | 15270 17490 17570 /11620 15350 17750 /13790 15210                           |
| CHINA RADIO INT     | 1000-1100 | Eu/Pa    | 17490 /13790 15210  |
| CHINA RADIO INT     | 1000-1100 | NA/As    | 6040c/11610 11635 13590 13620 13720 15190 15350                             |
| CHINA RADIO INT     | 1100-1200 | Eu/NA/As | 13650q 17490 / 6040c 11750 / 5955 11650 11660 11795 13590 13645 13720       |
| CHINA RADIO INT     | 1200-1300 | As       | 5955 9460 9600 9645 9730 11650 11660 11690 11980 13645                      |
| CHINA RADIO INT     | 1200-1300 | Eu/Pa    | 13650q 13790 17490 / 9760 11760   |
| CHINA RADIO INT     | 1300-1400 | NA/As    | 9570h 9650c 15260c/ 5955 9730 9765 9870 11660 11980 13755                   |
| CHINA RADIO INT     | 1300-1400 | Eu/Pa    | 13610 13790 / 9760 11760  |
| CHINA RADIO INT     | 1400-1500 | NA/As    | 13740h/ 5955 9765 9870 11665 11675 11765                                    |
| CHINA RADIO INT     | 1400-1500 | Eu/Af    | 13610 13790 /13685e 17630e  |
| CHINA RADIO INT     | 1500-1600 | Eu/Af    | 11965 13640 /13685e 17630e  |
| CHINA RADIO INT     | 1500-1600 | NA/As    | 13740h/ 5955 6095 7325 7410 9720 9800 9870                                  |
| CHINA RADIO INT     | 1600-1700 | Eu/Af    | 11940 11965 13760 / 7420 9570 9720 11900                                    |
| CHINA RADIO INT     | 1600-1700 | As       | 6060 6165 7235 7265 7420  |
| CHINA RADIO INT     | 1700-1800 | Eu/Af    | 6145 9695 13760 / 9570 11900  |
| CHINA RADIO INT     | 1700-1800 | As       | 6090 6140 6165 7235 7265 7410 7420  |

|                                  |           |          |   |
|----------------------------------|-----------|----------|---|
| <b>CHINA RADIO INT</b>           | 1800-1900 | Eu       | 6175 9600 13760                                       |
| <b>CHINA RADIO INT</b>           | 1900-2000 | Af As    | 7295 9435   |
| <b>CHINA RADIO INT</b>           | 2000-2100 | Eu/Af    | 5960q 7285q 7415 9600 / 5985 7295 9440                |
| <b>CHINA RADIO INT</b>           | 2000-2100 | As       | 7295 9440   |
| <b>CHINA RADIO INT</b>           | 2000-2130 | Af       | 11640o 13630o   |
| <b>CHINA RADIO INT</b>           | 2100-2200 | Eu/Af    | 5960q 7285q 7415 9600/ 7205 7325                      |
| <b>CHINA RADIO INT</b>           | 2200-2300 | As       | 9590  |
| <b>CHINA RADIO INT</b>           | 2300-2400 | Eu/NA/As | 7350 / 5990h 6145c 11840c/ 5915 7410 9610 11690 11790 |
| <b>VOICE OF CROATIA</b>          | 0200-0215 | Eu NA    | 3985 7375w 7375N                                      |
| <b>VOICE OF CROATIA</b>          | 1600-1615 | Eu       | 6165 Monday to Saturday                               |
| <b>VOICE OF CROATIA</b>          | 1600-1605 | Eu       | 6165 Sunday   |
| <b>VOICE OF CROATIA</b>          | 1805-1815 | Eu       | 6165 Monday to Friday                                 |
| <b>VOICE OF CROATIA</b>          | 1805-1810 | Eu       | 6165 Saturday   |
| <b>VOICE OF CROATIA</b>          | 2215-2230 | Eu LA    | 3985 7375w  |
| <b>CUBA RADIO HAVANA</b>         | 0100-0500 | NA       | 5970 6000 6160  |
| <b>CUBA RADIO HAVANA</b>         | 0500-0700 | NA       | 5970 6000 6010 6060                                   |
| <b>CUBA RADIO HAVANA</b>         | 2030-2130 | NA       | 11760   |
| <b>CUBA RADIO HAVANA</b>         | 2300-2400 | CA       | 5040  |
| <b>CZECH RADIO PRAGUE</b>        | 0000-0027 | NA       | 9790  |
| <b>CZECH RADIO PRAGUE</b>        | 0100-0127 | NA       | 7345  |
| <b>CZECH RADIO PRAGUE</b>        | 0300-0327 | NA       | 7345  |
| <b>CZECH RADIO PRAGUE</b>        | 0330-0357 | ME       | 9445  |
| <b>CZECH RADIO PRAGUE</b>        | 0600-0630 | NA       | 9955 via WRM1 Monday to Friday                        |
| <b>CZECH RADIO PRAGUE</b>        | 0700-0727 | Eu       | 9880  |
| <b>CZECH RADIO PRAGUE</b>        | 0900-0929 | ME       | 17650   |
| <b>CZECH RADIO PRAGUE</b>        | 0900-0930 | NA       | 9955 via WRM1 Saturday and Sunday                     |
| <b>CZECH RADIO PRAGUE</b>        | 1030-1057 | Eu       | 9880  |
| <b>CZECH RADIO PRAGUE</b>        | 1300-1329 | Eu       | 11600   |
| <b>CZECH RADIO PRAGUE</b>        | 1400-1430 | NA       | 9955 via WRM1   |
| <b>CZECH RADIO PRAGUE</b>        | 1600-1627 | Eu       | 9740  |
| <b>CZECH RADIO PRAGUE</b>        | 1700-1727 | Eu       | 9740  |
| <b>CZECH RADIO PRAGUE</b>        | 2000-2027 | Eu       | 5930  |
| <b>CZECH RADIO PRAGUE</b>        | 2130-2157 | Af       | 9410  |
| <b>CZECH RADIO PRAGUE</b>        | 2230-2257 | NA       | 9440  |
| <b>EGYPT RADIO CAIRO</b>         | 0200-0330 | NA       | 6270  |
| <b>EGYPT RADIO CAIRO</b>         | 1215-1330 | sAs      | 17870   |
| <b>EGYPT RADIO CAIRO</b>         | 1600-1800 | Af       | 12170   |
| <b>EGYPT RADIO CAIRO</b>         | 1900-2030 | wAf      | 11510   |
| <b>EGYPT RADIO CAIRO</b>         | 2115-2245 | Eu       | 6270  |
| <b>EGYPT RADIO CAIRO</b>         | 2300-0030 | NA       | 11590   |
| <b>EQ GUINEA R AFRICA</b>        | 0700-1200 | Af       | 15190 Monday to Friday (Saturday, Sunday 0600-1330)   |
| <b>EQ GUINEA R AFRICA</b>        | 1700-2300 | Af       | 15190   |
| Transmissions Irregular          |           |          |   |
| <b>RADIO ETHIOPIA</b>            | 1600-1700 | Af       | 7165 9560   |
| <b>RADIO FRANCE INT</b>          | 0400-0430 | Af       | 7425 9805 Monday to Friday                            |
| <b>RADIO FRANCE INT</b>          | 0500-0530 | Af       | 11995 13680 Monday to Friday                          |
| <b>RADIO FRANCE INT</b>          | 0600-0630 | Af       | 11615 15160 17800 Monday to Friday                    |
| <b>RADIO FRANCE INT</b>          | 0700-0730 | Af       | 13675 Monday to Friday                                |
| <b>RADIO FRANCE INT</b>          | 1200-1230 | Af       | 21620   |
| <b>RADIO FRANCE INT</b>          | 1600-1700 | Af       | 15605   |
| Schedule valid until September 4 |           |          |   |
| <b>RADIO FRANCE INT</b>          | 0400-0430 | Af       | 9805 11995 Monday to Friday                           |
| <b>RADIO FRANCE INT</b>          | 0500-0530 | Af       | 11995 13680 Monday to Friday                          |
| <b>RADIO FRANCE INT</b>          | 0600-0630 | Af       | 9765 15160 17800 Monday to Friday                     |
| <b>RADIO FRANCE INT</b>          | 0700-0730 | Af       | 13675 Monday to Friday                                |
| <b>RADIO FRANCE INT</b>          | 1200-1230 | Af       | 17800   |
| <b>RADIO FRANCE INT</b>          | 1600-1700 | Af       | 15605   |
| Schedule valid from September 5  |           |          |   |
| <b>GERMANY D WELLE</b>           | 0000-0100 | sAs      | 9885i 15595r 17525r                                   |
| <b>GERMANY D WELLE</b>           | 0300-0400 | As       | 12005i 15595d   |

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| GERMANY D WELLE                        | 0400-0500 | Af       | 6180s 7240k 12045d 15400l                      |
| GERMANY D WELLE                        | 0500-0530 | Af       | 6180s 7430u 9700k 9825m                        |
| GERMANY D WELLE                        | 0600-0630 | Af       | 7325s 15275k                                   |
| GERMANY D WELLE                        | 0900-1000 | As       | 15340S 15640S 17820l                           |
| GERMANY D WELLE                        | 1600-1700 | As       | 6170l 9485l 9540l 15410u                       |
| GERMANY D WELLE                        | 1900-1930 | Af       | 6150k 11795u 17865s                            |
| GERMANY D WELLE                        | 2000-2100 | Af       | 6150k 11795u 11865s                            |
| GERMANY D WELLE                        | 2100-2200 | Af       | 11865k 15640k                                  |
| VOICE OF GREECE                        | 0500-0600 | Eu       | 11645  |
| VOICE OF GREECE                        | 1305-1400 | Eu As Pa | 9420 15630 Sunday                              |
| KTWR GUAM                              | 0820-0900 | sAs      | 15170 Sunday to Friday                         |
| KTWR GUAM                              | 0830-0910 | Pa       | 11840 Monday to Saturday                       |
| KTWR GUAM                              | 1400-1435 | SAs      | 9975 (Monday and Thursday 1400-1425)           |
| All INDIA RADIO                        | 1000-1100 | Pa As    | 7270 13695 15020 15260 15410 17510 17800 17895 |
| ALL INDIA RADIO                        | 1330-1500 | sAs      | 9690 11620 13710                               |
| ALL INDIA RADIO                        | 1745-1945 | Eu Af    | 6120 6280 7400 7410 7550 9415 9445 11935       |
| All INDIA RADIO                        | 2045-2230 | Eu Pa    | 6280 7550 9445 9910 11620 11715                |
| ALL INDIA RADIO                        | 2245-0045 | As       | 6055 7305 9705 9950 11645 13605                |
| VOICE OF INDONESIA                     | 0200-0300 | As Am    | 9525   |
| VOICE OF INDONESIA                     | 0800-0900 | As Am    | 9525   |
| VOICE OF INDONESIA                     | 1000-1100 | As Am    | 9525   |
| VOICE OF INDONESIA                     | 1300-1400 | As Am    | 9525   |
| VOICE OF INDONESIA                     | 1900-2000 | As Am    | 9525   |
| VoIR IRAN                              | 0130-0230 | NA       | 7245 9495                                      |
| VoIR IRAN                              | 1030-1130 | seAs     | 15600 17660                                    |
| VoIR IRAN                              | 1530-1630 | seAs     | 7305 9600                                      |
| VoIR IRAN                              | 1930-2030 | Eu/Af    | 5945L 6205 7205 7215 9800                      |
| IRELAND RTE                            | 1930-2030 | Af       | 6225m  |
| IRELAND                                | 1500-2230 | Eu       | 3910 6295 12255 Reflections Europe Sunday      |
| IRRS                                   | 0800-0900 | Eu ME Af | 9515 Saturday                                  |
| IRRS                                   | 0930-1200 | Eu ME Af | 9515 Sunday                                    |
| IRRS                                   | 1800-1900 | Eu ME Af | 7290 Monday to Thursday                        |
| IRRS                                   | 1800-2000 | Eu ME Af | 7290 Friday, Saturday, Sunday                  |
| Transmitter believed to be in Slovakia |           |          |  |
| RADIO JAPAN                            | 0500-0530 | Eu/NA    | 5975u/ 6110c                                   |
| RADIO JAPAN                            | 0500-0530 | At/As    | 11970F/15205U/ 17810                           |
| RADIO JAPAN                            | 1000-1030 | As/Pa    | 9605 11780U/ 9625 9840                         |
| RADIO JAPAN                            | 1200-1230 | NA/Eu    | 6120c/ 9790w                                   |
| RADIO JAPAN                            | 1200-1230 | As/Pa    | 9695 / 9625                                    |
| RADIO JAPAN                            | 1300-1330 | As       | 11985  |
| RADIO JAPAN                            | 1400-1430 | As/Eu Af | 11705 11985 /21560F                            |
| KOREA KBS WORLD R                      | 0200-0300 | LA       | 9580   |
| KOREA KBS WORLD R                      | 0800-0900 | As       | 9570   |
| KOREA KBS WORLD R                      | 1200-1300 | NA       | 9650c  |
| KOREA KBS WORLD R                      | 1300-1400 | As       | 9570 9770                                      |
| KOREA KBS WORLD R                      | 1600-1700 | Eu       | 9515   |
| KOREA KBS WORLD R                      | 1800-1900 | Eu       | 7275   |
| KOREA KBS WORLD R                      | 2200-2230 | Eu       | 3955u  |
| VO KOREA PYONGYANG                     | 0100-0200 | As/LA    | 7200 9345 9730/ 11735 13760 15180              |
| VO KOREA PYONGYANG                     | 0200-0300 | seAs     | 13650 15100                                    |
| VO KOREA PYONGYANG                     | 0300-0400 | As       | 7200 9345 9730                                 |
| VO KOREA PYONGYANG                     | 1000-1100 | seAs/LA  | 11735 13650/ 11710 15180                       |
| VO KOREA PYONGYANG                     | 1300-1400 | Eu/NA    | 13760 15245/ 9335 11710                        |
| VO KOREA PYONGYANG                     | 1500-1600 | Eu/NA    | 13670 15245/ 9335 11710                        |
| VO KOREA PYONGYANG                     | 1600-1700 | ME Af    | 9990 11545                                     |
| VO KOREA PYONGYANG                     | 1800-1900 | Eu       | 13760 15245                                    |
| VO KOREA PYONGYANG                     | 1900-2000 | ME Af    | 7210 9975 11535 11910                          |
| VO KOREA PYONGYANG                     | 2100-2200 | Eu       | 13760 15245                                    |

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| <b>RADIO KUWAIT</b>                               | 1800-2100 Eu        | 11990   |
| <b>LAOS LNR Vientiane</b>                         | 0600-0630 As        | 7145  |
| <b>LAOS LNR Vientiane</b>                         | 1330-1405 As        | 7145  |
| <b>LIBYA VO AFRICA</b>                            | 1400-1600 Af        | 17725 21695                                       |
| <b>VOICE OF MALAYSIA</b>                          | 0600-1000 As Pa     | 6175 9750 15295                                   |
| <b>MOLDOVA RADIO PMR</b>                          | 0000-0015 NA        | 9665 Monday to Friday                             |
| <b>MOLDOVA RADIO PMR</b>                          | 0045-0100 NA        | 9665 Monday to Friday                             |
| <b>MOLDOVA RADIO PMR</b>                          | 1700-1715 Eu        | 6240 Monday to Friday                             |
| <b>MOLDOVA RADIO PMR</b>                          | 1745-1800 Eu        | 6240 Monday to Friday                             |
| <b>MOLDOVA RADIO PMR</b>                          | 1830-1845 Eu        | 6240 Monday to Friday                             |
| <b>VOICE OF MONGOLIA</b>                          | 0930-1000 As        | 12085   |
| <b>VOICE OF MONGOLIA</b>                          | 1530-1600 As        | 9665  |
| <b>TWR MONTE CARLO</b>                            | 0700-0750 Eu        | 6105N 9800 (Saturday 0715-0750, Sunday 0645-0850) |
| <b>RADIO NETHERLANDS</b>                          | 1000-1100 As        | 11895T 12065p 15110p                              |
| <b>RADIO NETHERLANDS</b>                          | 1400-1600 As        | 11835t 15745t                                     |
| <b>RADIO NETHERLANDS</b>                          | 1800-1900 Af        | 6020t 15535w                                      |
| <b>RADIO NETHERLANDS</b>                          | 1900-2000 Af        | 7425t 11610k 11970F 15535w                        |
| <b>RADIO NETHERLANDS</b>                          | 2000-2100 Af        | 7425t 11610k 11970F                               |
| <b>RADIO NEW ZEALAND</b>                          | 0459-0658 Pa        | 11725   |
| <b>RADIO NEW ZEALAND</b>                          | 0659-1058 Pa        | 6170  |
| <b>RADIO NEW ZEALAND</b>                          | 1059-1258 Pa        | 9655  |
| <b>RADIO NEW ZEALAND</b>                          | 1259-1550 Pa        | 6170  |
| <b>RADIO NEW ZEALAND</b>                          | 1551-1835 Pa        | 7440  |
| <b>RADIO NEW ZEALAND</b>                          | 1836-1950 Pa        | 9615  |
| <b>RADIO NEW ZEALAND</b>                          | 1951-2150 Pa        | 11725   |
| <b>RADIO NEW ZEALAND</b>                          | 2151-0458 Pa        | 13730   |
| <b>VOICE OF NIGERIA</b>                           | 0445-0700 Eu Af     | 15120   |
| <b>VOICE OF NIGERIA</b>                           | 0900-1500 Eu Af     | 9690  |
| <b>VOICE OF NIGERIA</b>                           | 1500-1600 Eu Af     | 15120   |
| <b>VOICE OF NIGERIA</b>                           | 1800-1900 Eu Af     | 15120   |
| <b>VOICE OF NIGERIA</b>                           | 1900-2000 Eu Af     | 7255  |
| <b>RADIO OMAN</b>                                 | 0300-0400 Af        | 15355   |
| <b>RADIO OMAN</b>                                 | 1400-1500 Eu        | 15140   |
| <b>RADIO PAKISTAN</b>                             | 1100-1104 Eu        | 15100 17720                                       |
| <b>RADIO PAKISTAN</b>                             | 1600-1615 Af ME     | 7530 11565 11585                                  |
| <b>PALAU KHBN</b>                                 | 0030-0100 As        | 15710 Sunday                                      |
| <b>PALAU KHBN</b>                                 | 0130-0300 As        | 15710 Sunday                                      |
| <b>PALAU KHBN</b>                                 | 0300-0400 As        | 15700 Sunday to Friday                            |
| <b>PALAU KHBN</b>                                 | 0530-0700 As        | 15700 Sunday                                      |
| <b>PALAU KHBN</b>                                 | 0800-1000 As        | 9930  |
| <b>PALAU KHBN</b>                                 | 1000-1100 As        | 9930  |
| <b>PALAU KHBN</b>                                 | 1000-1100 As        | 15725 Tuesday, Thursday, Saturday                 |
| <b>PALAU KHBN</b>                                 | 1200-1400 As        | 9930 Saturday and Sunday                          |
| <b>PALAU KHBN</b>                                 | 1400-1500 As        | 9930 Saturday                                     |
| <b>PALAU KHBN</b>                                 | 1500-1600 As        | 9905 9965   |
| <b>PALAU KHBN</b>                                 | 1600-1900 As        | 9905 9930   |
| <b>PALAU KHBN</b>                                 | 1900-2200 As        | 9875 9930   |
| Carries religious broadcasters, mainly in English |                     |   |
| <b>RADIO PILIPINAS</b>                            | 0200-0330 As        | 11680 15285 15510                                 |
| <b>POLAND POLISH RADIO</b>                        | 1200-1300 Eu NA     | 11675M 11980u                                     |
| <b>POLAND POLISH RADIO</b>                        | 1800-1900 Eu        | 9655M   |
| <b>RADIO ROMANIA INT</b>                          | 0000-0100 NA        | 7385 9580   |
| <b>RADIO ROMANIA INT</b>                          | 0300-0400 NA SAs    | 7335 9645 11895 15340                             |
| <b>RADIO ROMANIA INT</b>                          | 0530-0600 Eu Pa SAs | 9655 15750 17760                                  |

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| RADIO ROMANIA INT   | 1100-1200 | Eu Af    | 15210 15430 17510 17670                    |
| RADIO ROMANIA INT   | 1700-1800 | Eu       | 11735                                      |
| RADIO ROMANIA INT   | 2030-2100 | Eu NA    | 9690 11880 11940                           |
| RADIO ROMANIA INT   | 2200-2300 | Eu NA As | 5960 7435 9790 11940                       |
| VOICE OF RUSSIA     | 0000-0200 | NA       | 9890                                       |
| VOICE OF RUSSIA     | 0200-0300 | NA/LA    | 15425/ 9665                                |
| VOICE OF RUSSIA     | 0300-0400 | NA/LA/As | 15425/ 9665/ 15585                         |
| VOICE OF RUSSIA     | 0400-0500 | NA/As    | 13775/ 15585                               |
| VOICE OF RUSSIA     | 0500-0600 | NA       | 13775                                      |
| VOICE OF RUSSIA     | 0600-0700 | Pa       | 15405                                      |
| VOICE OF RUSSIA     | 0700-0900 | As/Pa    | 17495/ 15405 17495                         |
| VOICE OF RUSSIA     | 0900-1000 | As/Pa    | 15170/ 17495                               |
| VOICE OF RUSSIA     | 1000-1100 | As       | 15170                                      |
| VOICE OF RUSSIA     | 1100-1200 | As       | 12065                                      |
| VOICE OF RUSSIA     | 1200-1300 | As       | 11500 11755                                |
| VOICE OF RUSSIA     | 1300-1400 | As       | 12065                                      |
| VOICE OF RUSSIA     | 1400-1500 | As       | 4975 6000 9455 11500                       |
| VOICE OF RUSSIA     | 1500-1600 | Eu/As/As | 12040/ 11985/ 4975 6000 9455 9660          |
| VOICE OF RUSSIA     | 1500-1600 | As       | 4975 9735 11985                            |
| VOICE OF RUSSIA     | 1600-1700 | Eu/As/As | 12040/ 4975 11985/ 11985                   |
| VOICE OF RUSSIA     | 1700-1800 | Eu/As/As | 12040/ 4975 11985/ 11985 13855             |
| VOICE OF RUSSIA     | 1800-1900 | Eu/As    | 12040/ 4975                                |
| VOICE OF RUSSIA     | 1900-2000 | Eu/As    | 12040/ 4975 5985                           |
| VOICE OF RUSSIA     | 2000-2100 | Eu       | 12040                                      |
| VOICE OF RUSSIA     | 2200-2400 | Eu/NA    | 9890                                       |
| S ARABIA R RIYADH   | 0930-1230 | Af       | 15250                                      |
| INT RADIO SERBIA    | 0030-0100 | NA       | 9675 Monday to Saturday                    |
| INT RADIO SERBIA    | 1830-1900 | Eu       | 6100                                       |
| INT RADIO SERBIA    | 2100-2130 | Eu       | 6100                                       |
| RADIO SLOVAKIA INT  | 0100-0130 | NA LA    | 5930 9440                                  |
| RADIO SLOVAKIA INT  | 0700-0730 | Pa       | 9440 11650                                 |
| RADIO SLOVAKIA INT  | 1630-1700 | Eu       | 5920 6055                                  |
| RADIO SLOVAKIA INT  | 1830-1900 | Eu       | 5920 6055                                  |
| S AFRICA CHANNEL AF | 0300-0400 | Af       | 3345 6135                                  |
| S AFRICA CHANNEL AF | 0400-0500 | Af       | 3345                                       |
| S AFRICA CHANNEL AF | 0500-0600 | Af       | 7230                                       |
| S AFRICA CHANNEL AF | 0600-0700 | Af       | 7230 15255                                 |
| S AFRICA CHANNEL AF | 0700-0800 | Af       | 7230                                       |
| S AFRICA CHANNEL AF | 0800-1200 | Af       | 9625                                       |
| S AFRICA CHANNEL AF | 1400-1600 | Af       | 9625                                       |
| S AFRICA CHANNEL AF | 1700-1800 | Af       | 9675                                       |
| S AFRICA R LEAGUE   | 0800-0900 | sAf cAf  | 7205 17570 Sunday                          |
| S AFRICA R LEAGUE   | 1905-2005 | sAf      | 3215 Monday                                |
| REE SPAIN           | 0000-0100 | NA       | 6055                                       |
| REE SPAIN           | 1900-2000 | Eu Af    | 9665 11620 Monday to Friday                |
| REE SPAIN           | 2200-2300 | Eu       | 9650 Saturday and Sunday                   |
| SLBC SRI LANKA      | 0100-0330 | As       | 6005 9770 15745 (0100-0430 Sunday)         |
| SWAZILAND TWR       | 0255-0325 | Af       | 3200 Sunday                                |
| SWAZILAND TWR       | 0430-0500 | Af       | 3200 4775 Monday to Friday                 |
| SWAZILAND TWR       | 0500-0600 | Af       | 3200 4775 9500                             |
| SWAZILAND TWR       | 0600-0645 | Af       | 11640m (Saturday and Sunday 0600-0615)     |
| SWAZILAND TWR       | 0600-0800 | AF       | 4775 6120 9500                             |
| SWAZILAND TWR       | 1425-1625 | Zimbabwe | 4760 Shona, Ndebele and English programmes |
| SWAZILAND TWR       | 1700-2030 | Af       | 3200                                       |
| RADIO SWEDEN        | 0130-0200 | NA       | 6010c                                      |
| RADIO SWEDEN        | 0230-0300 | NA/As Pa | 6010c/ 9510t                               |
| RADIO SWEDEN        | 1330-1400 | As Pa    | 15735                                      |
| RADIO SWEDEN        | 1430-1500 | As Pa    | 13820                                      |
| RADIO SWEDEN        | 1530-1600 | ME       | 13870                                      |

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| <b>RADIO SWEDEN</b>  | 1700-1730 | ME/As Pa           | 13870/ 13600   |
| <b>RADIO SWEDEN</b>  | 2030-2100 | Eu Af ME           | 9495t  |
| <b>RADIO SWEDEN</b>  | 2130-2200 | Eu Af ME           | 7460t  |
| <b>SYRIA R DAMASCUS</b>  | 2100-2200 | Eu NA              | 9330 12085   |
| Shortwave is irregular, most of the time only one transmitter on air |           |                    |  |
| <b>R TAIWAN INT</b>  | 0100-0200 | SAs                | 11875  |
| <b>R TAIWAN INT</b>  | 0200-0300 | ENA                | 5950f 9680f  |
| <b>R TAIWAN INT</b>  | 0300-0400 | WNA/SEAs           | 5950f/15320  |
| <b>R TAIWAN INT</b>  | 0500-0600 | WNA                | 5950f  |
| <b>R TAIWAN INT</b>  | 1100-1200 | SEAs               | 7445 11715   |
| <b>R TAIWAN INT</b>  | 1600-1700 | As                 | 11550 13840F   |
| <b>R TAIWAN INT</b>  | 1700-1800 | Af                 | 15690F   |
| <b>R TAIWAN INT</b>  | 1800-1900 | Eu                 | 6155F  |
| <b>TAJIKISTAN VO TAJIK</b>   | 0900-1000 | ME                 | 7245   |
| <b>TAJIKISTAN VO TAJIK</b>   | 1700-1800 | ME                 | 7245   |
| <b>RADIO THAILAND</b>  | 0000-0030 | NA                 | 15275  |
| <b>RADIO THAILAND</b>  | 0030-0100 | NA                 | 15275  |
| <b>RADIO THAILAND</b>  | 0200-0230 | NA                 | 15275  |
| <b>RADIO THAILAND</b>  | 0530-0600 | Eu                 | 17655  |
| <b>RADIO THAILAND</b>  | 1230-1300 | Pa                 | 9890   |
| <b>RADIO THAILAND</b>  | 1400-1430 | Pa                 | 9575   |
| <b>RADIO THAILAND</b>  | 1900-2000 | Eu                 | 7570   |
| <b>RADIO THAILAND</b>  | 2030-2045 | Eu                 | 9680   |
| <b>VOICE OF TURKEY</b>   | 0300-0400 | NA/As              | 5975 7325c/ 6165   |
| <b>VOICE OF TURKEY</b>   | 1230-1330 | Eu/As Pa           | 15450/ 15520   |
| <b>VOICE OF TURKEY</b>   | 1830-1930 | Eu                 | 9785   |
| <b>VOICE OF TURKEY</b>   | 2030-2130 | Eu                 | 7205   |
| <b>VOICE OF TURKEY</b>   | 2200-2300 | NA                 | 9830   |
| <b>UK BIBLE VOICE</b>  | 0030-0100 | SEAs               | 7405w Friday, Saturday, Sunday   |
| <b>UK BROADCASTING</b>   | 0700-0730 | WEu                | 5945w Sunday (0700-0745 Saturday)  |
| <b>UK NETWORK</b>  | 0700-0800 | Weu                | 7410w Monday   |
| <b>UK</b>  | 1145-1215 | China              | 5945r Saturday and Sunday  |
| <b>UK</b>  | 1415-1500 | SEAs               | 15265F Sunday (Saturday 1400-1500)   |
| <b>UK</b>  | 1500-1515 | SEAs               | 13740w Sunday  |
| <b>UK</b>  | 1530-1600 | SEAs               | 13740F Thursday (Saturday 1515-1545)   |
| <b>UK</b>  | 1530-1815 | ME                 | 13590N Sunday (1545-1600 Mon, 1545-1620 & 1700-1715 Tu, 1545-1600 We, 1545-1645 Th, 1545-1615 & 1730-1800 Fr, 1545-1800 Sat) |
| <b>UK</b>  | 1730-1800 | ME                 | 9645w Sunday (Saturday 1700-1800)  |
| <b>UK</b>  | 1800-1815 | Iran               | 11855N Saturday  |
| <b>UK</b>  | 1800-1830 | ME                 | 9430w Sunday (Friday 1830-1900, Saturday 1800-1900)  |
| <b>UK</b>  | 1800-1900 | EEu                | 6130w Sunday (Sat 1830-1845)   |
| <b>UK</b>  | 1845-1915 | Af                 | 11830w Sunday  |
| <b>UK FEBA</b>   | 1400-1430 | SEAs               | 12025d Sunday  |
| <b>RADIO UKRAINE INT</b>   | 0000-0100 | NA                 | 7440   |
| <b>RADIO UKRAINE INT</b>   | 0300-0400 | NA                 | 7440   |
| <b>RADIO UKRAINE INT</b>   | 0500-0600 | Eu                 | 9840   |
| <b>RADIO UKRAINE INT</b>   | 0900-1000 | Eu                 | 11620  |
| <b>RADIO UKRAINE INT</b>   | 1100-1200 | Eu                 | 11620  |
| <b>RADIO UKRAINE INT</b>   | 1900-2000 | Eu                 | 7440   |
| <b>RADIO UKRAINE INT</b>   | 2100-2200 | Eu                 | 6145   |
| <b>USA KJES</b>  | 0100-0230 | NA                 | 7555   |
| <b>USA KJES</b>  | 1300-1500 | NA                 | 11715  |
| <b>USA KJES</b>  | 1800-1900 | Pa CA <sub>m</sub> | 15385  |
| <b>USA KNLS</b>  | 0800-0900 | FE                 | 11765  |
| <b>USA KNLS</b>  | 1000-1100 | FE                 | 11765  |
| <b>USA KNLS</b>  | 1200-1300 | FE                 | 11765 12105  |
| <b>USA KNLS</b>  | 1400-1500 | FE                 | 11765  |

|                  |           |           |  |
|------------------|-----------|-----------|--|
| USA OVERCOMER    | 1400-1500 | Eu ME     | 6110M 13810N   |
| USA MINISTRY     | 1500-1600 | Eu ME Af  | 6110M 13810N 17485W                                  |
| USA PAN AMERICAN | 1400-1445 | As        | 15205w Sunday  |
| USA BROADCASTING | 1415-1430 | As        | 15205w Monday to Saturday                            |
| USA              | 1600-1630 | ME        | 13830w Sunday  |
| USA              | 1930-2015 | ME        | 6175w Sunday   |
| USA              | 1930-2030 | ME        | 6175w Saturday                                       |
| USA VOA          | 0300-0400 | Af        | 4930 6080 9855 15580                                 |
| USA VOA          | 0400-0500 | Af        | 4930 4960 6080 <9855 12080 15580                     |
| USA VOA          | 0500-0600 | Af        | 4930 6080 12080 15580                                |
| USA VOA          | 0600-0700 | Af        | 6080 12080 15580                                     |
| USA VOA          | 1400-1500 | Af        | 4930 6080 12080 15580 17585                          |
| USA VOA          | 1500-1600 | Af        | 4930 6080 12080 15580 17895                          |
| USA VOA          | 1600-1700 | Af        | 4930 6080 15580                                      |
| USA VOA          | 1700-1800 | Af        | <6080 12015 15580 17895                              |
| USA VOA          | 1800-1900 | Af        | 4930> 6080 9580 12015 15580 (Sat&Sun 4930 1800-1900) |
| USA VOA          | 1900-2000 | Af        | 4930 4940 6080 9850 15580 <17895                     |
| USA VOA          | 2000-2100 | Af        | 4930 <4940 6080 15580 (Sat&Sun 4940 2000-2100)       |
| USA VOA          | 2100-2200 | Af        | 6080 15580   |
| USA VOA          | 2030-0030 | Afg       | 7555   |
| USA VOA          | 1400-1500 | Eu ME     | 15530 17740  |
| USA VOA          | 1500-1600 | Eu ME     | 13570 15530  |
| USA VOA          | 0100-0200 | FE SAs Pa | 7430 9780 11705                                      |
| USA VOA          | 1200-1300 | FE SAs Pa | 7575 9510 9760 12075                                 |
| USA VOA          | 1300-1400 | FE SAs Pa | 7575 9510 9760 Saturday and Sunday                   |
| USA VOA          | 1400-1500 | FE SAs Pa | 7540 7575 9760 Monday to Friday                      |
| USA VOA          | 1500-1600 | FE SAs Pa | 7540 7575 12150                                      |
| USA VOA          | 2200-2300 | FE SAs Pa | 5895 5915 7460 7575 11955 Monday to Frida            |
| USA VOA          | 2300-2400 | FE SAs Pa | 5895 5915 7575 11955                                 |
| USA VOA          | 1730-1800 | Zimbabwe  | 4930 11605 15775 (1720-1740 Fri, Sat, Sun)           |
| USA WBCQ         | 0000-0100 | NA        | 7415 Sunday  |
| USA WBCQ         | 0300-0400 | NA        | 7415 Monday to Saturday                              |
| USA WBCQ         | 1400-2100 | NA        | 15420 Saturday                                       |
| USA WBCQ         | 1700-2100 | NA        | 15420 Sunday to Friday                               |
| USA WBCQ         | 1800-1900 | NA        | 9330 Monday to Friday                                |
| USA WBCQ         | 1800-2300 | NA        | 7415 Tuesday, Wednesday                              |
| USA WBCQ         | 1800-2400 | NA        | 7415 Sunday, Monday, Thursday                        |
| USA WBCQ         | 1800-0100 | NA        | 7415 Friday  |
| USA WBCQ         | 2100-2300 | NA        | 7415 Saturday  |
| USA WBCQ         | 2100-0200 | NA        | 5110 Sunday  |
| USA WBCQ         | 2200-0200 | NA        | 5110 Saturday  |
| USA WEWN         | 0000-0200 | Af ME     | 11520  |
| USA WEWN         | 0300-0500 | Af        | 9455   |
| USA WEWN         | 0500-0900 | Eu ME     | 9890   |
| USA WEWN         | 0900-1300 | Eu ME     | 11520  |
| USA WEWN         | 1300-1600 | SEAs      | 13835  |
| USA WEWN         | 1600-2200 | Eu ME     | 15610  |
| USA WEWN         | 2200-2400 | Af ME     | 11520  |
| USA WHRI         | 0000-0200 | EuAf NA   | 5875 5920 7315                                       |
| USA WHRI         | 0200-0300 | EuAf NA   | 6130 7315 7465                                       |
| USA WHRI         | 0300-0400 | EuAf NA   | 5875 7315 7465                                       |
| USA WHRI         | 0400-0500 | EuAf NA   | 5875 7315 7365 9825                                  |
| USA WHRI         | 0500-0600 | EuAf NA   | 5875 5920 7315 7365 11565                            |
| USA WHRI         | 0600-0700 | EuAf NA   | 5850 5875 7385 11565                                 |
| USA WHRI         | 0600-0700 | EuAf NA   | 5875 5920 7315 7365                                  |
| USA WHRI         | 0700-1000 | EuAf NA   | 5875 5920 7315 7365 11565                            |
| USA WHRI         | 1000-1200 | EuAf NA   | 5920 7315 7365 7385                                  |
| USA WHRI         | 1200-1300 | EuAf NA   | 5920 7315 7385 9410 15710                            |
| USA WHRI         | 1300-1400 | EuAf NA   | 9495 9840 11785 15710                                |
| USA WHRI         | 1400-1600 | EuAf NA   | 9495 9840 11785 15195 17510                          |
| USA WHRI         | 1600-1900 | EuAf NA   | 9495 9840 11785 17520                                |
| USA WHRI         | 1900-2000 | EuAf NA   | 9495 9840 11785 15665                                |
| USA WHRI         | 2000-2100 | EuAf NA   | 7315 9495 11745 11785 13660 15665                    |
| USA WHRI         | 2100-2200 | EuAf NA   | 7315 9495 9690 11785 13660                           |

**USA WHRI** 2200-2300 EuAf NA 7385 9785 11785  
**USA WHRI** 2300-2400 EuAf NA 5920 7315 9690  
 Not all frequencies used daily. Station broadcasts in English, Spanish, Russian and Hmong.  
 From September 6 21630 will be used 1500-1900 replacing 17510 and 17520.

**USA WINB** 1000-1500 NA 9265  
**USA WINB** 1500-2100 NA 13570  
**USA WINB** 2100-0300 NA 9265

**USA WJHR** 1400-2200 NA 15550  
 Station broadcasts in USB

**USA WRMI** 0000-2400 LA 9955  
 Station carries English and Spanish programming, World Radio Network relays where time unsold

**USA WRNO** 0100-0400 NA 7505

**USA WTJC** 0000-2400 NA 9370

**USA WTWW** 0000-1200 NA 5755  
**USA WTWW** 1200-2400 NA 9480

**USA WWCR** 0000-0100 NA 4840 5935 7465 9980  
**USA WWCR** 0100-0200 NA 3215 4840 5935 9980  
**USA WWCR** 0200-0900 NA 3215 4840 5890 5935  
**USA WWCR** 0900-1100 NA 4840 5890 5935 9985  
**USA WWCR** 1100-1200 NA 4840 5890 5935 9985  
**USA WWCR** 1200-1600 NA 7490 9980 13845 15825  
**USA WWCR** 1600-2100 NA 9980 12160 13845 15825  
**USA WWCR** 2100-2400 NA 7465 9350 9980 13845

**USA WWRB** 0000-0400 NA 3185 5050 5745  
**USA WWRB** 0400-1200 NA 3185 5050  
**USA WWRB** 1200-1300 NA 5050 9385  
**USA WWRB** 1300-2100 NA 9385  
**USA WWRB** 2100-2200 NA 3215 9385  
**USA WWRB** 2200-2400 NA 3215 5050 5745 9385

Schedule subject to daily variations dependent on time booked

**USA WYFR** 0000-0100 NA/LA 5950 6985 9505 15440 / 7360 7520  
**USA WYFR** 0100-0200 NA 6985 9505 15440  
**USA WYFR** 0200-0300 NA/LA 6985 9505 11835 / 5985 6100G 9385  
**USA WYFR** 0300-0400 NA/LA 6985 9505 /11740 15255  
**USA WYFR** 0400-0500 NA 6875 6985 9505 9680  
**USA WYFR** 0500-0600 NA 6875 6980  
**USA WYFR** 0600-0700 NA/LA 9680 / 5850 11580  
**USA WYFR** 0600-0700 Eu/Af 7520 /11530  
**USA WYFR** 0700-0800 NA/LA 5950 5985 6875 / 9505  
**USA WYFR** 0700-0800 Eu/Af 7520 / 9385  
**USA WYFR** 0800-0900 NA/Af 5950 5985 6875 / 7430  
**USA WYFR** 0900-1000 NA/As 5985 6875 9755 / 9465v  
**USA WYFR** 1000-1100 NA/As 5950 5985 6875 9755 / 9450r 9465v  
**USA WYFR** 1100-1200 NA/LA/As 5950 5985 9755 / 7730 9550 9625 /15560A  
**USA WYFR** 1200-1300 NA/LA 5950 5985 17795 /17555  
**USA WYFR** 1300-1400 NA/As 11830 11865 11910 17795 /11520v 11560v 12155D 13820A  
**USA WYFR** 1400-1500 NA 11830 11910 13695 17795  
**USA WYFR** 1400-1500 As 9365U 9615r 9865r 11560v 11725r 13810A  
**USA WYFR** 1500-1600 NA/LA 11830 11910 17795 /15770  
**USA WYFR** 1500-1600 As 6280v 11605d 15520d  
**USA WYFR** 1600-1700 NA/LA 11830 11865 13695 17795 / 6085  
**USA WYFR** 1600-1700 Eu/Af/As 18980 21455 /17540a 21525 /11850d  
**USA WYFR** 1700-1800 Eu/Af/NA 18980 21455 /17785a/13690 17795  
**USA WYFR** 1800-1900 Eu/Af 18980 / 5840m 6180m 7395t 9770d 13750w 17845  
**USA WYFR** 1800-1900 NA 13615 13690 17795  
**USA WYFR** 1900-2000 NA/LA 13615 13690 17795 / 6085  
**USA WYFR** 1900-2000 Eu/Af 18930 18980 / 3230m 6020t 7395t 9610w 9775d 17845  
**USA WYFR** 2000-2100 Eu/Af 7430K 17750 18980 / 6020t 7425w 9610w 15195a 17845  
**USA WYFR** 2000-2100 NA/LA 13615 17795 /17725  
**USA WYFR** 2100-2200 Eu/Af/NA 7430K 18980 / 7425w 12055a 17845 /13615 13690 17795

|               |           |         |                                      |
|---------------|-----------|---------|--------------------------------------|
| USA WYFR      | 2200-2300 | NA/Af   | 5950 11740 15440 /15770              |
| USA WYFR      | 2300-2400 | NA/LA   | 5950 11740 15440 /15255              |
| VATICAN RADIO | 0140-0200 | As Pa   | 7335 9580U                           |
| VATICAN RADIO | 0250-0320 | NA      | 7305 9610c                           |
| VATICAN RADIO | 0300-0330 | Af      | 7360 9660t                           |
| VATICAN RADIO | 0310-0330 | As      | 15460 via Radio Veritas, Philippines |
| VATICAN RADIO | 0500-0520 | Eu      | 4005 5965 7250                       |
| VATICAN RADIO | 0500-0530 | Af      | 9660 11625 13765t                    |
| VATICAN RADIO | 0630-0645 | Eu AsPa | 4005 5965 7250 9645 11740 15595      |
| VATICAN RADIO | 0630-0700 | Af      | 11625 13765 15570                    |
| VATICAN RADIO | 1200-1215 | NA      | 9830c Monday to Saturday             |
| VATICAN RADIO | 1530-1550 | AsPa    | 11850r 13765 15235                   |
| VATICAN RADIO | 1615-1630 | Eu      | 4005 5885 7250 15595                 |
| VATICAN RADIO | 1730-1800 | Af      | 11625 13765 15570                    |
| VATICAN RADIO | 1950-2020 | Eu      | 4005 5885 7250 9645                  |
| VATICAN RADIO | 2000-2030 | Af      | 7365 9755 11625                      |

|                 |           |       |               |
|-----------------|-----------|-------|---------------|
| VENEZUELA R NAT | 1500-1600 | LA/NA | 11680h        |
| VENEZUELA R NAT | 2300-2400 | LA/NA | 13680h 15250h |

Spanish and English programming

|                  |           |         |                     |
|------------------|-----------|---------|---------------------|
| VOICE OF VIETNAM | 0100-0130 | NA      | 6175c               |
| VOICE OF VIETNAM | 0230-0300 | NA      | 6175c               |
| VOICE OF VIETNAM | 0330-0400 | NA      | 6175c               |
| VOICE OF VIETNAM | 1000-1030 | As      | 9840 12020          |
| VOICE OF VIETNAM | 1100-1130 | As      | 7285                |
| VOICE OF VIETNAM | 1130-1200 | As      | 9840 12020          |
| VOICE OF VIETNAM | 1230-1300 | As      | 9840 12020          |
| VOICE OF VIETNAM | 1330-1400 | As      | 9840 12020          |
| VOICE OF VIETNAM | 1500-1530 | SEAs    | 7285 9840 12020     |
| VOICE OF VIETNAM | 1600-1630 | Eu SEAs | 7220 7280 9550 9730 |
| VOICE OF VIETNAM | 1700-1730 | Eu      | 9725M               |
| VOICE OF VIETNAM | 1900-1930 | Eu      | 7280 9730           |
| VOICE OF VIETNAM | 2030-2100 | Eu As   | 7220 7280 9550 9730 |
| VOICE OF VIETNAM | 2330-2400 | As      | 9840 12020          |

|                    |           |       |      |
|--------------------|-----------|-------|------|
| YEMEN RADIO SANA'A | 0600-0700 | ME Af | 9780 |
| YEMEN RADIO SANA'A | 1800-1900 | ME Af | 9780 |

|                    |           |     |       |
|--------------------|-----------|-----|-------|
| ZAMBIA CHRISTIAN V | 0400-0600 | Waf | 9430  |
| ZAMBIA CHRISTIAN V | 0600-1700 | Saf | 6065  |
| ZAMBIA CHRISTIAN V | 0600-1900 | Waf | 13590 |
| ZAMBIA CHRISTIAN V | 1700-0600 | Saf | 4965  |
| ZAMBIA CHRISTIAN V | 1900-2200 | Waf | 5940  |

Programming on the Southern Africa service is mostly in native languages



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A British Based DX Club

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| <b>WRTH CD Set</b><br>Both WRTH CDs for a special price   | \$99.00 ppd   |
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