

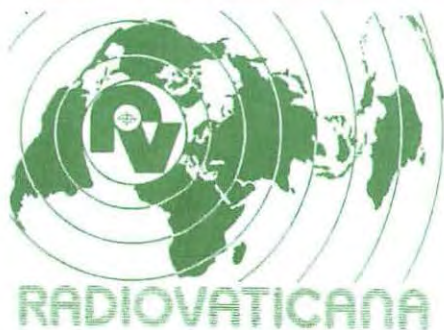
# The **NASA** Journal

VOLUME XLVIII NUMBER 5

MAY 2008



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jesus christus*



# Quality Equipment From Universal Radio

## ApexRadio 303WA-2

The Apex Radio 303WA-2 is a quality passive receiving antenna providing coverage from 30 kHz to 30 MHz. The antenna is designed for areas where space is a problem or when an unobtrusive installation is essential. The small size and relatively lightweight design is ideal for installation in a confined space such as apartment balcony. Since the 303WA-2 is passive it provides superior low noise performance, free of cross and inter-modulations. The 303WA has a "U" bolt metal fitting that will require a short stub mast (not supplied). The mast diameter can be 0.4 to 1.9 inches. The antenna has a total height of 6 feet. It comes with a pre-assembled 30 foot length of cable with a PL259 plug to connect to the antenna base and a BNC plug for your radio.

Order # 1026 \$119.95



## ApexRadio 700DTA

The Apex Radio 700DTA is a compact active antenna specifically designed to provide good medium wave and shortwave reception when large external antennas are not practical. The compact 700DTA employs a Hi-O manual tuning circuit plus and high gain amplifier providing 20dB gain from 500 kHz to 30 MHz. The 700DTA is housed in an aluminum high pressure die-casting case with superior electromagnetic shielded performance. The band selection knob selects: 0.5-1.6, 4-10, 7-20 and 12-30 MHz. The supplied telescopic antenna (6-23 inch) plugs into a BNC jack on top of the unit. Output to the receiver is a female 50 ohm BNC jack. This antenna is supplied with a 10 foot BNC to BNC coax cable. Operation is from a 9 volt battery.



Order #3872 \$179.95



## King of the Satellites - Six Five O The Grundig Satellit 650

By Thomas Baier.

Here is the book Satellit 650 owners have been waiting for. Clearly the famous Satellit 650, was the "king" of the Grundig Satellit line. Author Thomas Baier, draws from his sources in Germany to report all about this famous world band receiver. Over 100 pictures are featured in this 80 page book. Learn about variants, production numbers, disassembly, adjustments, bulb replacement and much more. The Owner's Manual and circuit schematic are also fully reproduced. This is a "must have" reference for anyone lucky enough to own a Satellit 650. 80 Pages 8 1/2 x 11 inch. First Edition - Second Printing. ©2007

Order #0650 \$22.95

## KAITO-ELECTRONICS INC. KA33

The Kaito KA33 is an active shortwave, wire loop antenna that covers AM plus shortwave 3.9 to 22 MHz. The KA33 has dual outputs. If your portable shortwave radio has an 1/8 inch mini antenna jack you can plug this antenna directly in. For shortwave radios without an antenna jack, you also get simple clips for direct connection the radio's telescopic whip antenna. The control box has an LED to remind you when the antenna is turned on. There is a Tuning Knob on the control box that should be adjusted as you change frequency. This antenna is designed for indoor use only and requires two AAA cells (not provided).

Kaito KA33 Order #3670 \$36.95



## KAITO-ELECTRONICS INC. KA35

The Kaito KA35 is an active shortwave, medium wave loop antenna that covers 100 kHz to 30 MHz. It features an interchangeable a Ferrite element (that provides a degree of directionality) and a telescopic whip element. This antenna has a built-in fixed battery. This battery is rechargeable via the built-in solar cell, the supplied AC adapter or via a computer USB cable. Output is to a junction cable that, in turn, has output to a 3.5mm mini plug. (Please note the BNC jack is strictly to the junction cable). This antenna is designed for indoor use only.

Kaito KA35 Order #4835 \$89.95



## Listening to Longwave The World Below 500 KiloHertz

By Kevin Carey.

Listening to Longwave is your introduction to the fascinating "basement band" of the radio spectrum. Key features of this book include:

- ✓ Who is on the air — when and where to listen.
- ✓ Receivers, converters and antennas for effective longwave reception.
- ✓ Longwave listening tips.
- ✓ Monitor the sounds of nature: Whistlers, Tweeks, Dawn Chorus and other radio atmospheric.
- ✓ Longwave navigation beacons, time stations, broadcasters, time stations and NAVTEX weather broadcasts.
- ✓ License free experimenter's band.

Universal Radio ©2007 98 pages.  
Order #0024 \$6.95

## HY POWER AB-SWL-SL

The new Hy Power AB-SWL-SL sloper will cover the 120 to 11 meter shortwave broadcast bands plus MW. It is constructed with 12 gauge insulated wire and stainless hardware. This 62 foot antenna accepts either a PL-259 or twinlead (neither supplied).

AB-SWL-SL Order #5062 \$89.95

## USED GEAR

Visit our website for great used equipment values. It now features photographs of select items and an informative archive of hundreds of previously sold radios.

## ApexRadio SPL-2

The SPL-2 allows two shortwave receivers to be connected to one antenna without interaction and with minimal signal loss. A very high degree of isolation (over 30 dB) between both receivers ensures that each receiver can be tuned and operated as if it were connected to its own antenna. The SPL-2 can also be used in reverse. That is, as an antenna combiner for two antennas to one receiver. This device is operational from 1 MHz to 650 MHz. This is a passive (not amplified) device. The SPL-2 uses three SO-239 jacks.

SPL-2 Order #5043 \$119.95



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\$50-\$100=\$6.95, \$100-\$500=\$9.95, \$500-\$1000=\$14.95.

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Prices and specs are subject to change.  
Prices shown are after mfg.'s coupons.  
Returns are subject to a 15% restock fee.

**Don Jensen**, Chairman of the club's Country List Committee (CLC) announced the appointment of **Jim Ronda** of Tulsa, OK, for an indefinite term on the CLC. Jim replaces **John Sgrulletta** who recently passed away. In Don's own words, "I first became acquainted with Jim many years ago when he was teaching at Youngstown State University in Ohio, and we shared an interest in 1930s vintage radio columns. We reconnected more recently. Jim soon will be retiring from his collegiate teaching career at the University of Tulsa. Some of you may know Jim as one of the country's preeminent scholars on the history of the American west. I believe Jim's dxing and academic background will add significantly to our future committee efforts." Welcome aboard Jim!

**Anker Petersen** and **Bent Nielsen** of the Danish Shortwave Club International (DSWCI) inform us that the 51 year old DSWCI with experienced dxers in 33 countries all over the world as members has just issued the 10<sup>th</sup> edition of its annual Domestic Broadcasting Survey (DBS). This survey is divided into four parts: Part 1 is the 36<sup>th</sup> edition of the Tropical Bands Survey covering all active broadcasting stations on 2300-5700 kHz. Part 2 covers domestic stations on international shortwave bands above 5700 kHz broadcasting to a domestic audience. In Part 3 all active Clandestine shortwave stations are listed with schedules and identifications. Finally, Part 4 indicates deleted frequencies between 2 and 30 MHz which have not been reported heard during the past five years, but may reappear. The DBS is a must for every dxer! All buyers of DBS-10 will get a username and password to the monthly updates on the tropical bands published as "Tropical Bands Monitor" on the club's website. The similar data from 2005, 2006 and 2007 are available at [www.dswci.org/tbm](http://www.dswci.org/tbm) to anybody. The 36 pages

A-4 size DBS-10 is available by e-mail as PDF format file (about 175 KB). A limited number is also available printed on paper. It is sold by the treasurer: DSWCI, c/o Bent Nielsen, Egekrogen 14, DK 3500 Vaerloese, Denmark. The cost for the e-mail edition is DKK 40,00 or US\$9.00 or €5,00 or £4,00 or SEK 50,00 or IRC 5. The cost for the printed edition is DKK 80,00 or US\$17.00 or €11,00 or £8,00 or SEK 105,00 or IRC 9. A comprehensive review of the latest Domestic Band Survey will appear in the next month's Shortwave Center.

The 2008 National Association of Shortwave Broadcasters and the USA DRM Group Annual Meeting will take place May 8 and 9 in Cary (just outside of Raleigh), North Carolina, hosted by NASB member Trans World Radio. A full two day agenda is planned which can be viewed at [www.shortwave.org](http://www.shortwave.org). The conference hotel for the annual meetings is the Comfort Suites hotel, located at 350 Ashville Avenue in Cary, North Carolina (a suburb of Raleigh), zip code 27518. Initially, I had planned to attend this meeting with its interesting coverage of DRM activities and updates about the NASB. However, it now looks like my schedule will not allow me to attend. If any NASWA members plan to attend, please consider making a report back to the membership on this event. Thanks!

**A. J. Janitschek** of Radio Free Asia (RFA) sent an announcement that RFA is offering its 21<sup>st</sup> QSL card honoring German physicist and radio pioneer, Heinrich R. Hertz. This is the second QSL card in their "radio pioneer" series. Heinrich Rudolph Hertz (1857-1894) was the first to broadcast and receive radio waves. He demonstrated the existence of electromagnetic waves by building equipment that not only produced radio waves, but also detected them. His experiments with electromagnetic waves led to the

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## Our Motto: Unity & Friendship

development of the wireless telegraph and the radio. His name is also used for radio and electrical frequencies; hertz (Hz). The QSL card will be issued for all valid RFA reception reports from April 1–June 30, 2008. Future QSL cards will include other radio pioneers like Nikola Tesla, Reginald Fessenden, and others. RFA encourages listeners to submit reception reports. Reception reports are valuable to RFA as they help the station evaluate the signal strength and quality of transmissions. RFA confirms all accurate reception reports by mailing a QSL card to the listener. 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 listening 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, USA. Upon request, RFA will also send a copy of the current broadcast schedule and a station sticker.

Every two years, the Digital Radio Mondiale (DRM) Consortium holds elections. Late March, the members of the Steering Board, the key players of the DRM Consortium, were elected. After 10 years as Chairman of DRM Consortium, Peter Senger retired from both DRM and his position of DRM Director at Radio Deutsche Welle. His successor is Mrs. Ruxandra Obreja, Controller Business Development, BBC World Service. She was unanimously elected as new Chair of the DRM Consortium. In a presentation, she noted her vision mentioning that "DRM is on the threshold of a new era. Thanks to the brilliant work of our technical colleagues over the past ten years, the DRM standard is now mature. The challenge for all of us is to ensure that in the next few years the DRM standard is taken up on a mass scale. I see this as both the biggest challenge for the consortium and me personally." Only time will tell if this is true or not although it is very interesting that someone from the BBC, an organization that is abandoning shortwave at an incredible pace, would be selected for this position. The DRM also elected two Vice Chairmen: Jochen Huber of TransRadio SenderSysteme Berlin AG

and Giuseppe Allamano of RAI Way. Michel Penneroux of TDF was re-elected as Commercial Committee Chair. Lindsay Cornell of the BBC was re-elected as Technical Committee Chair. DRM's Treasurer and EB Chair, Albert Heuberger of Fraunhofer Institut IIS, stepped down from his DRM role. Alexander Zink of Fraunhofer IIS was elected as Treasurer and Vice Chairman of the DRM Association. Jochen Huber of TransRadio SenderSysteme Berlin AG is now the Executive Board Chair. DRM elected five new companies to its Steering Board: Analog Devices, Dolby Laboratories, RAI Way, SWR Südwestrundfunk and TDF. They join the re-elected Steering Board members BBC, Continental Electronics, Deutsche Welle, Fraunhofer IIS, Hitachi Kokusai Electric Ltd., Robert Bosch GmbH, RIZ Transmitters, TDF, Thomson Broadcast & Multimedia, TransRadio SenderSysteme Berlin AG, VT Communications and WRN.

Don't forget about the recently formed NASWA Yahoo Mail Group moderated by **Dan Ferguson**. This group is for, and limited to, members/contributors to *NASWA's Journal* and other NASWA publications to discuss reception of shortwave radio broadcasts, program content, propagation and equipment. Discussions should be related to any aspect of the hobby from reception conditions, loggings, program content, hot news and information as well as radio equipment and accessories. In other words, the same type of material that you would tend to see in *The Journal* or the *Flashsheet*. 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*. With your request to join, please leave your name, location, and enough information in the comment box so the moderator can determine that you are a NASWA member/contributor. Whatever you say in the comment box is seen only by the moderator—it is not seen by members of the group. Subscribe by going to <http://groups.yahoo.com/group/NASWA/>. Thanks Dan for launching this exciting new venture for the club. The rest is up to you, the membership, to determine the success of this operation.

The Danish Shortwave Club International will hold its Annual General Meeting on 14 June 2008 and DX Camp from 13 through 15 June 2008 at Vardeborg, Vejers Beach, Denmark. This Danish affair is always a good time so if Europe in June is in your plans then you may want to consider this friendly DXer gathering. Nothing beats meeting other like-minded radio hobbyists. The location is close to the North Sea which seems to enhance the DX during these gatherings. For further information contact **Bent Nielsen** (bent.elin@webnetmail.dk), Egekrogen 14, DK-3500 Vaerloese, Denmark. Participation fee for the DX Camp is US\$80.00.

Interested in participating in a contest of a former shortwave broadcaster? Radio Moldova International offers the following: "Dear friend! We announce you that in the second half of May, RMI launches the 3rd edition of the traditional contest "Discover the Republic of Moldova". We invite you to participate, to test your knowledge, to find new things and discover an unknown Moldova. Invite your friends to participate in the contest, gain a new experience and get to know in such a way a beautiful country full of charm. Your interests and attempts will be rewarded. As usually, there will be offered the Grand Prix- a trip to Moldova in October at the traditional Wine Festival and a rest to the picturesque agropension. "The water meadow house" that is waiting for you with many surprises. Other presents are waiting for you, as well. Take your chance! Participate in the contest. "Discover the Republic of Moldova".

**Bob Padula's** 34<sup>th</sup> edition of the *Australian Shortwave Guide* (ASWG-34) is still available. The ASWG-34 is a no-frills reference, covering the seven-month international shortwave transmission period commencing March 31 2008, and concluding on October 26 2008, known as the A08 International Transmission Season. With several hundred entries, it provides comprehensive information of shortwave broadcasting schedules for transmissions intended for Australia, New Zealand and the Pacific Islands, for broadcasts in all languages. The complete schedules for Radio Australia and CVC-Australia are included. The ASWG has been around for a

long time and was first published in 1982 as a supplement to an early Australian commercial electronics magazine. When that magazine ceased operations in 1992, it became an independent publication, ultimately transforming itself into the "Australasian Shortwave Guide", and subsequently became "Shortwave Broadcasts to Australia and Oceania". The ASWG-34 is available for US\$10.00 / €1 / £6 / A\$10—cash, five international reply coupons, Australian mint stamps to the value of A\$10, international bank transfer, international bank draft, PayPal. Cash payment in any other currency is acceptable, to the equivalent of AUS\$10. All payments should be sent to: Robert J. Padula, 404 Mont Albert Road, Mont Albert, Victoria 3127, Australia.


The stimulating Reading Area DXers had another meeting on March 28, 2008 at The Flying Dog in beautiful and majestic Earlvilleville, PA. Once again the usual agenda of informal discussions, passing around some old radio related magazines, and some food and drink was the order of the day. A good time was had by all. The group's next meeting was scheduled for Friday, April 29, 2008. If you would be interested in attending future gatherings please contact me so I can get you on the Reading Area DXer distribution list. That way any changes in time, date, venue, etc can be rapidly transmitted to all concerned. Meeting with fellow hobbyists is a great way to add enjoyment to our fine hobby.

Although we are in the midst of spring DX conditions, summer is quickly approaching. Are you getting the latest hot information about what is happening on the shortwave bands? Having the club's electronic *Flashsheet*, now over 320+ issues old, in your hands each week you will be up to date with news and information about the DX scene as the season progresses. If you have not signed up for the club's electronic *Flashsheet* service, you are missing out on timely news and information that will enhance your shortwave listening pleasure. It is now time for you to get on the distribution list for the club's electronic *Flashsheet* to stay up-to-date. The changing DX conditions will bring different DX opportunities and

new listening targets. The club's electronic *Flashsheet* helps members stay on top of the action with breaking shortwave news and information. If you are a current member of the club and want to receive the electronic *Flashsheet* just drop **Rich D'Angelo** (rdangelo3@aol.com) a note with your e-mail address, location and membership expiration date from your mailing label. You can participate by sending your latest logs to the electronic *Flashsheet* edited by **Mark Taylor**, markokpik@tds.net. Each week the electronic *Flashsheet* brings a lot of exciting, late breaking DX news and information to our members. The electronic newsletter is an excellent supplement to the monthly *Journal* for the timely dissemination of DX loggings


and breaking news. This is a service that is only available to our members. Deadlines are posted in the *NASWA Flashsheet* each week.

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 electronic address, weoliver@comcast.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 1983)

71 new and re-joining members were welcomed in the Roll Call column including Dan Sheedy of Encinitas, CA. John Creamer volunteered to respond to beginner questions about antennas, receivers, etc. In John Herkimer's *Shortwave Center* Al Sizer continued with his article about "The Mystique of the QSL" with comments from Jerry Berg, Richard E. Wood and Gerry Dexter. Bill Krause wrote "The Home Computer as a Tool for the DXer" while Don Jensen's "On To the Top" series continued with Part Six (How Can I QSL Those Rare DX Stations?). In *It Sounds to Me!* column edited by John Moritz, list logging is discussed by John Kapinos. In *Vintage Vignettes*, Bill Taylor presented Part III of Understanding Power Supplies. Sam Barto noted that *QSL Report* featured QSLs from Radio Malabo and Radio Nacional, Bata with 97 countries reported this month. Sam ended the column by noting that he was getting married in two hours. Jerry Berg's *Log Report Section B* noted four new stations being reported: 5025 Parakou; 5286 Moundou; 5974 Macarena; and 6080 Cultura de Porto Alegre. Nick Pappas thanked 69 reporters in the *Log Reporters* column. 

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## Calendar Of Events

- Apr 29 Meeting.** The Reading Area DXers will hold another meeting at The Flying Dog in majestic Earlville, PA (Route 562 and Airport Road). Members gather around 5:30 PM near the bar area before heading into the restaurant for dinner and further discussions. Contact Rich D'Angelo (2216 Burkey Drive, Wyomissing, PA 19610; 610-678-0937; rdangelo3@aol.com) for further information about future meetings.
- May 8/9 Annual Meeting.** The 2008 National Association of Shortwave Broadcasters and US DRM Group will be held in Cary, NC at the Trans World Radio headquarters. The two day schedule includes lunches and dinner sponsored by Media Broadcast, Thomson, Inc and WMLX, and Continental Electronics.
- May 9 Meeting.** Boston Area NASWA Chapter. The Boston Area DXers have found a new location for meetings. Inquiries about the BADXers may be sent to Paul Graveline at 978-470-1971 or Internet: ctcreditor@aol.com. The URL for the BADX guys is <http://www.naswa.net/badx/>

- May 19 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>curt@nerdster.net.
- Jun 13–15 Annual General Meeting (AGM) and DX Camp. The Danish Shortwave Club International** will hold its AGM June 14th and DX Camp from June 13th through June 15th at Vardeborg, Vejers Beach, Denmark. For further information contact Bent Nielsen (bent.elin@webnetmail.dk), Egekrogen 14, DK-3500 Vaerloese, Denmark. Participation fee for the DX Camp is US\$80.00.
- Jun 14 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX)** meets at the Lebanon Citizens' National Bank (LCNB), 425 West Central Avenue (Ohio 73), Springboro, Ohio at 7:00 PM. For more information contact Mark Meece at 937-743-8089 or e-mail at <antennapig@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>
- Aug 16, 2008 Convention. 2008 Madison-Milwaukee Radio Get-together.** The 15<sup>th</sup> Annual Madison-Milwaukee Get-together for DXers and Radio Enthusiasts will take place on Saturday, August 16, starting at 1 PM CDT. This year's venue is Milwaukee WI, and Tim Noonan will be hosting. Further information will be released as it becomes available.
- Sep 5–7, 2008 Convention. The 2008 European DX Council Conference** is scheduled for Vaasa, Finland on 5–7 September 2008. Former EDXC Secretary General Risto Vahakainu of the Finnish DX Association is coordinating the event. Their website is under construction at <http://www.netikka.net/edxc2008/>. Further information will be made available at a later date.
- Sep 12–14, 2008 Convention. The 2008 IRCA Convention** will be held at the Days Inn in Flagstaff, Arizona on Route 66 from 12 to 14 September 2008. Room rates are \$65.00. There will be station tours, an auction and a banquet. Further information will be released as it becomes available.
- Sep 26–28, 2008 Conference. The Pacific Radio Conference** to be held in Wellington, New Zealand on 26-28 September 2008. You'll find more information about the conference at [www.radioheritage.net](http://www.radioheritage.net). Please email [info@radioheritage.net](mailto:info@radioheritage.net) or write to the Radio Heritage Foundation, P. O. Box 14339, Wellington 6241, New Zealand.
- Oct 3–5, 2008 Convention. The New Zealand Radio DX League** will hold its 60<sup>th</sup> Anniversary celebration from 3 to 5 October 2008 in Oamaru, New Zealand. The program will consist of the 2008 Annual General Meeting, a celebratory luncheon and opportunities for DXing. More details to follow.
- Nov 12 Awards. The Association of International Broadcasters awards gala** will be held in London, England with the presentation of international television and radio awards. AIB Media Excellence Awards and Diner Pensant LSO St. Luke's, 161 Old Street, London EC1V 9NG. The cost of each place at the Dinner at the early-bird rate (valid to 30 June 2008) is £175 plus UK VAT @ 17.5% (£30.62), giving a total cost of £205.62 per place.
- Mar 13–14, 2009 Convention. The 22<sup>nd</sup> Annual Winter SWL Festival**, sponsored by NASWA, will be held at the Best Western—The Inn at Towamencin on 13<sup>th</sup> and 14<sup>th</sup> March 2009. 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](mailto:rdangelo3@aol.com)) or Ralph Brandi (Internet: [ralph@brandi.org](mailto:ralph@brandi.org)). 

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## Musings

Jim Ronda <james-ronda@utulsa.edu>, Tulsa, OK

Thanks very much for the invitation to join the NASWA Country List Committee. I'm pleased to accept. Don thought it might be appropriate for me to offer something of a personal and professional introduction.

I began shortwave DXing in the late 1950s while growing up in suburban Chicago on what some have called "the crabgrass frontier." Like Jerry, my first receiver was an Allied Radio Knight Kit Ocean Hopper—a three-tube regenerative receiver with a round tuning dial marked from 1-100, giving only the wildest of guesses about frequency. As I recall, my first log was Radio Australia and Keith Glover's Mailbag program. In college and graduate school I drifted away from all hobby pursuits. In the late 1970s, while teaching at Youngstown State University, I got back into DXing with a Panasonic RF-5000 and then moved up to a Drake SW4A and an FRG-7. I joined NASWA early on and looked forward each month to my copy of FRENEX. Like many others I thought that Bill Eddings had a large staff in an impressive building and that Charlie Loudenboomer was the Spirit of Truth personified! With more luck than skill I did manage to verify 100 countries. Some of you may know that John Moritz was one of my students at YSU. The demands of family and career edged me out of the hobby. In 1990 I moved to Tulsa. In February 2005—for reasons that now elude me—I decided to get out the FRG-7 (I had foolishly sold the Drake) and give a listen. Needless to say, I was hooked and in short order I was on the phone to Universal beginning a series of orders that have finally given me an NRD-545, an R-75 with Kiwa mods, and an E-1. And of course I quickly rejoined NASWA. Truth to tell I've had a great time back in the hobby. And being part of a listening group that includes Don, Mark Taylor, and Jerry Strawman has added to my sense of belonging. I can't say that I am a systematic DXer with an extensive target list. I really like the surprise of the hunt.

In my professional life I currently hold the H. G. Barnard Chair in Western American History at the University of Tulsa and I'm a past president of the Western History Association. I've written fairly widely in the history of the exploration of the West; I've also been the scholar-consultant for eight museum exhibitions including a large one at the Library of Congress; and I've done a number of TV documentaries including two with Ken Burns. My new book is entitled THE WEST THE RAILROADS MADE and is the companion book to a museum exhibition of the same name. As Don mentioned, I will retire from the university and the Barnard Chair at the end of May. Forty years in the academy is probably long enough. I will stay on at the university as Scholar-in-Residence at the library but will no longer have any teaching or committee responsibilities. And as my Dad always said—you should leave before they ask you to leave!

I look forward to being part of the conversation when a new country emerges and/or the political geography of the world suddenly shifts!

3/29 was a wonderful Indonesian morning; many thanks to Mark Taylor, Don Jensen, and Jerry Strawman for such an enjoyable and productive listening session.

Thanks, Jim

Martin A. Field, 128 Oak, Hillsdale, MI 49242-1345

Congratulations to Brian Alexander on receiving the William P. Eddings Award for 2008. I was so honored last year. When I receive my certificate, I am going to display it on the wall of my radio room.

The DXer's Directory referred to in the April issue of The Journal was compiled by Fred Osterman of Universal Radio. My photo along with nine others are on the front cover. In its eighty-five pages the directory has twenty-six photos of DXers plus information on many more as well as information on radio clubs around the world. The first, it was published in 1985, my twenty-fifth year as a DXer. Next year will be my fiftieth.

73, Marlin

**Toshi Ohtake <ohtaket@yahoo.co.jp>, 5-31-6- Tamanawa, Kamakura 247-0071, Japan**  
Japan Shortwave Club ("JSWC") new address. April is the beginning of our new financial year and JSWC has transferred all administration activities to Tokyo area from Sendai. New address of JSWC is JSWC, c/o T. Ohtake, 5-31-6 Tamanawa, Kamakura 247-0071, Japan. E-mail address is jswchq@live.jp.

The Winter SWL Festival 2008 was another successful event of the year, and I enjoyed meeting so many friends and exchanging a lot of information. My surprise was seeing David Norrie, President of NZRDXL who was here in Tokyo last Fall.

This is all for this month and wishing you good DXing!! Toshi Ohtake, Japan Short Wave Club.

**Ron Hunsicker ronhuns@ptd.net , 1238 Cleveland Avenue, Wyomissing, PA 19610-2102**  
Put the new random-wire up today and, according the S-meter on my R8, it is good for 6-10 dB over the dipole cut for 43M (except around 43M, of course). Part of the system is an impedance matcher that changes the (I'm told) 450 ohms of a random wire antenna to 50 ohms of my coax. That is good for a few dB, too.

Instead of the multi-strand copper coated steel that I have used in the past, I used a single 16 gauge conductor of copper-coated steel. Stiff stuff, but I wrapped it loosely and then soldered the wrap with Radio Shack "silver containing solder." Weller guns are good for something! Also, Dacron cord instead of some-kind-of-rope-from-Home-Depot. All from TheWireMan. I had a number of questions and he was very cooperative and helpful. Also, for the first time, I used thimbles to protect the plastic insulators from the wire.

I think, though, that the antenna is not working properly: I thought that, at around 0100, there would be shortwave broadcasters every 5 KC on 31 meters, but it was more like every 100 KC. The antenna must be grounded somewhere....

Ron

**Gerry Dexter, Lake Geneva, WI**

DX 'ing with one wing has its frustrations. I can barely take logging notes, and reading them later is like pouring over the Dead Sea scrolls. Equal adventures come with one-handed keyboard entry - the usual typos are replaced with an entirely fresh collection.

Ger

**Glenn Hauser Enid, Oklahoma**

Voice of Turkey announced their 2008y contest during Live from Turkey on March 25, as heard on webcast [6050 broadcast at 1950]: this essay writing contest is titled "Why the Voice of Turkey?" Tell us about ourselves — are you pleased with our programming? Suggestions to make it better? Satisfied? Maximum two pages [undefined]. Deadline 7/31/08 [postmark or receipt?]. There will be 8 winners of a 12-day holiday in Turkey

beginning this October. Send to Voice of Turkey, P. O. Box 333, 06443 Yeneshehir, Ankara, Turkey, or englishdesk@trt.net.tr. That's a paraphrase of the announcement which no doubt will be heard many more times. IIRC, no one writing in English won last year

gh

**Bill Bergadano ka2emz@verizon.net, New Jersey**

I'd like to tell you about my father. Dad never won a NASCAR race, wrote a Pulitzer prized novel or was a movie director. Instead he taught me right from wrong, to say thank you and yes please. Without ever saying 'this is what you are supposed to do'. I just learned from his examples. Maybe that's what got me through the 5 years of caring for him after his 2 strokes in 2003. It's funny, on March 8th I won the Icom R75 at the fest, at 9:46 PM; and exactly 3 weeks later? We received the call that he had passed away in the hospital. The time of the call? Yes, 9:46PM. Dad in 1974, bought me my first shortwave radio. He used to kiddingly say about my daily trips to the post office in the late 1970s "if anyone is keeping the post office in business you are!" The point of my writing is to tell you all, life is just to quick- and take my advice; the night he passed away I drove like a wild man to the hospital, and cradled my lifeless fathers body while crying in hysterics one thing was totally clear—I never said "dad I love you" when he was alive; so, whatever you do, don't make my mistake—tell your parents you love them. Tell them and thank them for putting you in this world. However we turned out, we cannot blame anyone else but ourselves. I am now living with a lot of self hatred and self bitterness for what I never did; if my words can get someone else to do what I didn't, then that's for the better.

To let you know, dad was a Master Sergeant in the Korean War; he was stationed in Austria in EOD with the Army Corp of Engineers, his main mission was to find land mines the Nazis had left from WWII and detonate them without use of maps to find them. Dad never ever let me want for a thing, making sure mom and I always had what we wanted and needed. Be it food, shelter or his protection. He was buried with FULL military honors in Arneytown here in New Jersey; every once in a while a C141 lumbers out of McGuire AFB some 7 miles away right over the cemetery, so dad you get a military fly over daily. And Fort Dix where he trained in the Army is right next to McGuire.

I know a lot of dads are and were like mine. I know my words may open a lot of heartache that's faded over time for those who have lost a loved one. But I wanted you to know about my father, Bill Bergadano (January 2, 1930- March 29, 2008).

Rest in peace dad, I am tremendously proud of you. Bill

**Mike Rohde <merohde@columbus.rr.com>, Columbus, OH**

I have a g313e which I like very much. I agree having the power for the radio come through the USB cable would be nice but Win Radio opted not to do that for some reason. Below is an off hand review that I had sent to another NASWA member not long ago. I mentioned that I like the many, many choices for band width on this radio. I believe that in order to get that capability on the 303 you have to buy the professional demodulator option.

I have since bought an RX-340 that should not be taken as a slight to the 313. Both the 303 and 313 are good radios but can't compare to the RX-340 overall.

I have had my WinRadio G 313e for about 4 months now. In a nut shell I love this radio. I also have an NRD-535D that I still use but the G313 is used about 90% of the time. The 313 seems to have a lower noise floor and signals that I can get on it are sometimes inaudible on the 535D. I also love the ability to specify any (or nearly any) bandwidth.

I have always felt very limited with the bandwidth selections on the 535D. I do have problems tuning SSB on the 313 but that might just be my inexperience with SSB. The 535D does a pretty nice job with SSB but occasionally I have problems there as well.

I build my own computers so as compared to say most Dells my computer does emit a good deal of RF. I bought a USB extension cable to get the radio further away from my computer. I am not certain that the computer is causing any problems but in the future I would like to buy a Dell (or another computer that I can verify the emissions on prior to buying) just for the purpose of using with the radio.

I have really gotten hooked on the visual aspects on the 313 i.e. the spectrum analyzers (so much so that I am working on getting an analyzer set up on the RX-340). An example would be last night I was listening to a station up around 11 MHz and had the analyzer set up to scan 6.90 MHz to 6.96 MHz. looking for pirates on 6.925 and the general area. So, once in a while I would run a scan and look for new spikes in the freq. range while still monitoring the 11 MHz. contacts.

At this point, I can imagine only a few upgrade paths, a RX-340 or possible a Flex radio if and when they come out with a receiver only version.

The day before the winter fest I bought the DRM license for the 313 and it works great. For \$50 it can not be beat. This attests to the flexibility of the concept of SDR. All I had to do is install the software on my computer and it was DRM ready.

I also have the WinRadio advanced digital suite. I bought this hoping to use it to reduce noise but I am still trying to figure out how to use it effectively.

A few more comments regarding the noise blanker and the notch filter. The noise blanker does not seem to do much although the same can be said about the 5353d so maybe I don't have the type of noise here where that type of filter is effective or needed. I have not used the notch filter much but I would give it a 50/50 score.

Sorry, to go on so much. I'd love to hear about your experience/ opinions about his radio. I have not had it that long so maybe we can learn some things from each other.

All in all it is a great radio and fun to use.

Regards, Mike

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

I couldn't agree more with Dr. Ferrioli's assessment of the "Marion's Attic" program on WBCQ (March Journal). The music is wonderful. It is indeed unfortunate that there are very few radio programs playing this type of music. However, WBCQ carries another show that plays tunes of a similar genre — "Behavior Night". This also airs over their 7415 transmitter, from 2200-2300 UT. In the winter, this program is usually a much easier catch for us here in Eastern Pennsylvania, as WBCQ's 41 meter signal is often skipping over us by the time Marion's Attic airs at 0200UT. If you enjoy music dating from the turn of the century till the mid-40s or so, I'd highly recommend either of these fine shows.

**Kenneth E. McCartney, 2351 Manoa Lane N., Toledo, OH 42615**

I think John's idea for monitors is a good one. I would support such a publication. The price would depend on the length, method of printing, postage, etc.

I recall the DX Directory of several years ago but my copy is lost—I don't think I was in it—I wanted to be in the second issue but one was never forthcoming. The Ontario DX Association published "Radio in my Life" and the "Reminisces of Dr. Williamson", both of these I have.

The new pub should have a longer article on one of the "giants" of the hobby—Hauser, Cones, D'Angelo, etc.—and one or two snippets by an "elder" less active (I'm 60 years in the hobby) or a beginner.

I would assist in any way I can.

Just joined NASWA after getting active again, previously I was a member of the NNRC, ISWC and many others over the years.

Thought you might enjoy the stationary from a long defunct club. Does NASWA publish a membership list? (*Ken used stationary from the International Short Wave Club in London which was founded in 1929. Unfortunately, the club no longer publishes a membership directory -RAD*)

73, Ken WPE8ABL and KC8CCU

**Jerry Strawman, Des Moines, IA**

Propagation Note: Conditions have improved from one week ago. Despite the improvement, the upper Midwest/ plains area is still subject to overall low signals, compared to the left and right coasts. Most low band signals that make their way to the coasts show up only as hets at this QTH. Seasonal noise levels are increasing due to t-storms in the southern plains.

Jerry

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

The Readings Area DXers meetings are starting to become a regular feature around here. There are six regulars to date (myself, Rich Cuff, Ed Mauger, Dave Turnick, Mark Ferrioli, and Ron Hunsicker). It looks like we may pick up two more with Dan Cashin and Rich Parker expressing interest plus Ron may have recruited another radio guy from the area. It is quite a lot of fun to gather with fellow radio hobbyists every once in a while to talk about radio-related stuff. Who else but radio listeners can tolerate other radio listeners, hi!

This month's QSL batch is a little light. It starts off with the Korean Central Broadcasting Station which was verified by the Voice of Korea with a full data card. The package of goodies included a copy of The Pyongyang Times, two nice looking 2008 calendars, program schedules for Voice of Korea and a Radio Pyongyang pennant. A full data card was received from Radio Ukraine International upon its return to the shortwave bands. Family Radio via Dhabayya verified with a full data card plus an assortment of Harold Camping literature, schedules and two stickers in 6 days from Oakland address. Finally, CVC Zambia verified an electronic report with a brief electronic letter plus a full data color map attachment "card" in Excel for transmissions in the 13 MHz band.

73, Rich

# Shortwave Center

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## Poderia ser "48 anos em companhia do rádio"

### John Sgrulletta's Shortwave Radio Experiences

by John Sgrulletta

Pedro has asked me to write an article describing my experiences in short-wave radio. Originally, I thought he wanted me to concentrate on Brazilian stations I have logged and verified. But he also wanted me to describe how I started in the hobby.

I have found over the years that many stories exist on how someone is introduced to the hobby. Some followed their fathers who also listened to distant stations on the radio. With no television or video games, many children grew up with only a radio in the house and their curiosity made them turn the pointer up and down the dial, discovering radio listening by chance. Others began their careers in broadcasting and took up the hobby of listening as an extension of their work.

For me, it was a book my parents bought for me for Christmas in 1957 called "There's Adventure in Electronics". In the book, a 12-year old builds an Allied Knight Kit "Space Spanner" radio. I was 10 years old when I read the book and then saved my money and built the same radio in 1958 as the boy did in the book. I still have that book. I recall listening to Radio Australia, the BBC and other big broadcasters.

In 1960, I decided to buy a commercial receiver and purchased the Hallicrafters S-107 Mark II. With this radio came a manual, of course, but also a logbook and an article on how to verify the radio stations being heard. I did not know you could write to these stations. My first verification (QSL) came from Belgium in April of 1960 at the age of 12. I verified 25 countries in my first 2 years of report writing.

I traded in the Hallicrafters (got \$30 us for it. Imagine what it is worth now!) for a Ham-

marlund HQ-100AC in July 1965. It was this radio that I used to log and verify my first Brazilian station- Rádio Bandeirantes on 12 June 1967. Next, I bought a Drake SPR-4 radio in 1973. It was not digital, but had what is called "direct frequency readout" using a series 500 khz crystals that are plugged into a circuit board. It was accurate to 1 or 2 khz, so I was able to tune into stations based on frequency and then wait for their station identification.

In 1985, I bought my first digital radio- a Japan Radio Corporation NRD-515 which I still use today as my main receiver (by the way I also have the 1965 Hammarlund and 1973 Drake receivers and both still work very well).

It was in the mid-1980s when I decided to try for one of the North American Shortwave Association's (NASWA) awards—"20 Brazilian States Verified". I belonged to this club in 1966-1967 but then went into the military. I did not rejoin until 1972 and I have been a member ever since. As you might imagine, it would take a while to hear at least 20 Brazilian states in the U.S. and then much longer to get 20 of them verified, especially since I had only one Brazilian QSL at this time.

Up to this point, I was a "country counter" where I would hear one station in one country, get a QSL then try for another station in another country. That is why Rádio Bandeirantes was my only Brazilian QSL for more than 15 years. So, in 1983, I started writing and verifying stations such as Rádio Rural Santarem and Rádio Cultura do Para (at the time, a rare second QSL from a Brazilian state as I already had Para verified). Then Rádio Nacional do Brasil, Rádio Brasil Central, Rádio Inconfidência and Rádio Aparecida were verified in 1984. So far, I was writing reports and getting QSLs without any assistance since I communicated with many of the stations in English.

That changed in 1986 when a fellow DXer, Eudson Monteiro Lima, who I believe was connected to the Rádio Nacional network somehow, became a "QSL Manager" for the Nacional stations. Thanks to him, I QSLed Rádio Nacional de Macapá, Rádio Nacional de Manaus, Rádio Nacional de Boa Vista and Rádio Nacional de Porto Velho from February 1986 to March 1989. I also received QSLs during this period direct from Rádio Universo and Rádio Gaucha. So as the 1990s began, I had 11 states verified.

I was still "counting countries" at this time and a number were difficult to get. This limited my time for trying to get QSLs from Brazil and over the 1990s, I added 7 more states, the most notable to me being Rádio Integração (I have not heard of anyone who verified this station over the last few years that it was broadcasting before it went completely off the air) and Rádio Globo in Rio (my first e-mail QSL). In 2000, I added Emissora Rural do São Francisco, Pernambuco for Brazilian state #19 but that left me one short.

This is where Pedro came to the rescue. I met Pedro at the SWL Winterfest in 1998 or 1999 and we spoke briefly. I began to e-mail Pedro and soon we were communicating on a somewhat regular basis. I mentioned about my hope to QSL Espírito Santo or Tocantins and gave him reports for both when he visited the U.S. to do some classes. Ironically, he was at a college only about a mile from where I worked. He took the reports and managed to get not one or the other verified but both! For Rádio Capixaba, he contacted a friend of his (I am sorry but I cannot find his name, please help here Pedro) from DXCB who lived in Vitória. For the other, Pedro took it upon himself to call the station and arrange for the QSL, so he helped me add not one but two new states to my total raising it to 21 states verified. I now proudly have a 20 States Verified certificate in my collection thanks to direct answers from many stations, but especially from Eudson Monteiro Lima for 4 Rádio Nacional stations/states and Pedro M. C. de Castro for 2 other stations/states—Rádio Capixaba and Rádio Anhanguera. I could not have done this without them.

After getting to 21 total states, I realized I had a grand total of almost 30 Brazilian stations verified. From 2000 to 2004, I sent out many reports to Perú—almost 70. 39 of stations verified (many with help) and counting the one I had from 1973, I have a total of 40 Peruvian stations verified.

So I thought I would see how far I could go with Brazil. Those stations verified at a much higher rate, but a lot of this was due to the efforts of Pedro. He managed to write some stations, call others, type up cover letters for many reports, helped to translate my tape recordings or audio files I would send him, helped convert files recently to .mp3, printed out and sent QSLs and generally did just about everything but hear the station for me! It has paid off and he has gotten replies for me from Rádio Record, Rádio Anhanguera (Goiaânia), Rádio Municipal (São Gabriel) in addition to Capixaba and Anhanguera (Tocantins) above. By the beginning of this year, I had a total of 48 Brazilian shortwave QSLs.

Pedro also asked for and received the help of José Moura who visited Radio Record for me—waiting 2½ hours to be received at the station to secure my 49<sup>th</sup> Brazilian QSL. Shortly after getting this QSL, I received my 50<sup>th</sup> Brazilian QSL from Radio Oito de Setembro. This was accomplished with the help of Rafael Scapin of Descalvado who knows the station manager and forwarded my audio file to him. I now have 52 Brazilian stations verified.

I still have 17 reports out to other Brazilian stations, so I am hoping that I can increase my totals to 60 Brazilian stations verified some day. Pedro is already helping me with some of these. I could not have reached 50 nor have any chance of increasing the total to 60 without the help of Pedro and other members of DXCB. Thanks to all of you!!!

Just as important for me, Pedro was able to ask for and receive the help of Sérgio Partamian, who offered himself to make a personal appearance at Radio Globo in SP to get, for me, a rare medium-wave verification from Brazil. I have heard only 2 Brazilian medium-wave stations in New York and the

Radio Globo SP QSL was my first on that band. The Radio Globo SP verification gave me a total of 70 medium-wave countries verified. I now have 74 verified out of 76 heard. I have also verified 241 short-wave countries out of 242 heard.

Pedro also asked me about my first radio friends. I would have to say at the beginning of my hobby, I really was alone. Although my parents bought me the book, they were not interested in short-wave radio themselves. A neighbor gave me a 1930s era Stromberg-Carlson console radio in the early 1960s and I actually used it to write my report to Radio Cairo. I had some contact with the NASWA editor Bill Eddings, who was one of the early club presidents and with Hank Bennett who wrote a shortwave column in Popular Electronics and also was an editor in another club I belonged to, the NNRC or Newark News Radio Club which I joined in 1964 and stayed in it until it disbanded I think in the late 1970s. But actual friends to talk to about radio did not exist for me.

However, just like twin boys or girls, it seemed even though a lot of DXers were isolated in their own world, when we do finally get together, it is amazing how similar our pasts have been! This can be seen at conventions like Kulpville for the SWL Winterfest. Getting to know others just by sitting next to another DXer and "comparing notes" shows how similar the backgrounds are. I have been to the SWL Winterfest the last 10 years and am still meeting old friends that used to be names that I only recognized in radio articles or e-mail postings. It is very exciting when someone recognizes you and that person who comes up to you is a name that you have recognized for years in publications. It is a sign of mutual respect and you can not beat that feeling. And it is nice to put a name and a face together.

The SWL Winterfest had about 160 attendees in March of 2007 which is about the same as last year. It is a good sign that attendance has not gone down. What I thought was disturbing was looking around the room during the banquet. I saw only a handful of people under the age of 30! With video games for kids and satellite radio, high

definition tv, iPods, computers, the Internet with Internet Radio, you name it for children and young adults (and people of all ages) and the future of shortwave does not look good here in the U.S. Hopefully, it is not as bad as this in Brazil and other countries in Latin America. As I mentioned earlier in this article, Brazil and Peru are 2 bright spots in DXing shortwave.

We did have a good time, though, with forums on DXpeditions, scanning, the Zenith Trans-Oceanic Radio among others. Now in 2008, it will be my 11<sup>th</sup> year at this short-wave convention and the 21<sup>st</sup> SWL Winterfest altogether. Maybe some of the members of DXCB can make the trip up here to Kulpville for the occasion.

Pedro said to conclude the article with what the hobby of short-wave listening has given to me and if it changed my life. Then what I recommend for those who are getting into the hobby.

First the easy answer: Shortwave (as well as medium-wave, utility DXing, long-wave, listening to Ham operators) has given me thousands upon thousands of hours of listening enjoyment. From my first stations like Radio Australia, the BBC and Radio Moscow to right up to the station I am listening to right now on medium-wave as I type this article, I have enjoyed every minute of it. As I said, I am more of a country counter rather than easy listener as many are in the hobby. There is always a mix those of us who try to hear distant stations in languages we do not understand, waiting for that elusive station identification and going after QSLs to those listeners content with tuning in the BBC to hear the news in English.

There is always a battle (at least in the U.S. but not as much as it once was) of DXers versus Listeners. The truth is that we need each other. The two groups are so much a part of the total listeners out there, especially in NASWA, that losing either group would destroy everyone. I think now each group respects the other so the club looks strong. I hope the hobby does too. Since I started writing reports in 1960 to 2006, I have written at least 1 report in 46 of the

47 years. In 1980 we built our house so I did not write any reports. I have written over 100 reports only 3 times—in 1965, 2002 and 2004. I averaged about 50 reports per year from 1960 to 1999. From 2000 to 2006, I have averaged 90 reports, so I'm pointing out that my enthusiasm has not diminished for the hobby.

But the hobby has not only given me pleasure. Due to my interest in electronics, I received an Associate degree in Electronics and worked as an Electronic Technician for 5 years in one company—Singer Aerospace and the first 13 years in my present company—Bayer Corporation before getting management degrees and becoming a supervisor. So without shortwave, I do not think I would have been that interested in electronics and my whole career and life would definitely have been different.

Now the difficult answer: Just a short time back in the article I mentioned all the electronics available that are pulling potential listeners away from radio and into more exotic forms of communications and entertainment. How to gain more shortwave listeners? This will be difficult to overcome and it would have been worthwhile to speak to the few young people interested in this hobby and get to see what attracted them. Maybe a "plan" of the best methods of

attracting new listeners can be compiled into a small booklet and distributed to libraries, possibly sponsor an after school class or even a class that counts towards a high school diploma or college degree to at least show students what is available that possibly may lead to students taking an interest in the hobby. Amateur Radio Clubs used to thrive and maybe it would be easier to get young people to join together. All of the good that was done by Ham radio operators after the tsunami in the Pacific should not go unnoticed and maybe lead to an increase in listeners. It is a difficult situation but maybe we all can make some progress by joining together.

I hope you have found this article interesting. If you have any questions or comments, please pass them on to Pedro and he will contact me. Thank you.

*Editor's Note: Thanks to John's long time friend and DX colleague George Maroti who passed along the English/Portuguese version of this article penned by John Sgrulletta which appeared originally in the DX Club do Brazil's excellent monthly bulletin. The Portuguese translation was done by Pedro M. C. de Castro who has attended multiple Winter SWL Festival's in Kulpville. For publication in The Journal, I dropped the Portuguese text. -Rich D'Angelo.*


## HCJB's Jorge Zambrano

By Marlin A. Field

Jorge Zambrano has been recording a year's supply of his weekly program, "Musica del Ecuador," which will be aired on HCJB while he and his wife, Denise, are on furlough in the United States. *Passport to World Band Radio* some years ago ranked the program as one of the top programs on shortwave when it was aired as part of HCJB's English service to North America.

I met Jorge around twenty-five years ago when he and Denise were on another furlough and visited our church when Jim Wilbar was the pastor. They had met in Quito before that when Jim was a summer missionary for HCJB and had stayed in the

Zambrano home. More recently Jim returned to Ecuador, where he had a regular program on HCJB. While there he met his wife. When HCJB ended its English program, Jim, his wife, and daughter returned to the United States. The last I heard they lived in California.

Jorge has liver cancer, which was diagnosed in February, 2005. It seems to be healing. He is a program director for the Spanish language service. Denise is from Pennsylvania; they met when Jorge was in the United States. When we first met, we had them in our home along with their two children, a son and a daughter, who loved to explore what they considered our big house. The Zambranos are now grandparents; both children live in the United States. 

# Equipment Reviews

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## Microtelecom Perseus Software Defined Receiver

A sea change has occurred with receiver technology. Over the past three decades, digital technology has gradually supplemented and then replaced analog circuitry in modern radios. At first, microprocessors were put into radios for tuning and function switching and external computers were used to control receivers. The next transition was the replacement of hardware by software (digital signal processing). Now, we have reached the point where the computer (with the addition of a couple of outboard integrated circuits) is the radio. Not only has the internal hardware of the receiver been eliminated, but the control hardware of knobs and switches has been replaced by a computer mouse.

A software defined radio (SDR) is just that—a radio in which the desired radio frequency signal is digitized and then all further receiver functions such as demodulation, filtering and noise reduction are handled by software. This eliminates the need for mixers, transformers and filters and provides almost unlimited flexibility. Digital Signal Processing (DSP) has been in use for quite some time now, but generally has been used with a traditional superheterodyne front end, with the attendant problems of overload and spurious signals from the mixer circuits which are the basis of the design. In a SDR, the desired RF signal is directly sampled and then digitized for demodulation and filtering. SDR's can have phenomenal close-in strong signal handling performance as well as having the capabilities of DSP for excellent selectivity and noise and interference reduction. An additional advantage of SDR's is that the receiver's performance and feature set can be continuously upgraded through software updates.

The basis of the SDR's magic is the derivation of an in-phase and a 90 degree out-of-phase samples (I and Q respectively) of the incoming RF signal. There are several techniques to do this, such as the Quadrature Sampling Detector or by direct digital downconversion. By subsequent mathematical manipulation of the I and Q signals in a microprocessor, any type of demodulation can be accomplished. SDR's represent a completely new receiver topology. For more technical information on SDR's, go to [www.flex-radio.com](http://www.flex-radio.com) and click on "FAQS" from the drop-down "Products" menu as well as "Publications" from the "News" tab. The QEX series of articles, "A Software Defined Radio for the Masses" are particularly good. Also see [www.n9vv.com](http://www.n9vv.com) (scroll down to the link to "Introduction the the QS1R").

This review is a follow-on to Giampiero Bernardini's review of the Perseus in the March, 2008 *Journal*. The production version of the software is now available and it adds several new features to the beta software used for Giampiero's review. The Perseus receiver is designed and produced by the Italian firm, Microtelecom, led by Nico Palermo. Perseus is an acronym for "Pretty Excellent Receiver for Software-Eager Unperceivable Signals". The name may be somewhat lame, but the receiver isn't! It is designed for high performance over the range of 10 kHz to 30 MHz and has an intuitive, but flexible, user interface, which incorporates all the features one would expect in a top-notch communications receiver. It can also be used with third-party control software for specialized applications, such as spectrum analysis. One the radio's most exciting features is the ability to record up to 800 kHz of spectrum for later playback and analysis.

## The box

The Perseus is truly a black box measuring 1.5 × 4.25 × 6.5 inches (H×W×D). The front panel has small rectangular LEDs to indicate power, wideband mode and 10 and 20 dB attenuators (both light for the 30 dB attenuator selection). There is a red LED to indicate overload. The back panel has a USB 2.0 port, a coaxial jack for power (5 volts at 1 amp) and a BNC jack for RF input. The end caps of the enclosure are set into yellow gaskets which provide a nice visual contrast and more importantly keep the unit from sliding. The unit comes with a switching wall-wart power supply. Mine had a round pin European power plug, so I had to get an adapter. Unlike some switching type power supplies, this one is overall free from RF noise. Inside the box are the main components—a bank of half-octave bandpass filters, a 14 bit Analog to Digital converter (Linear Technology LTC2206-14) and the FPGA Digital Down Converter utilizing a Xilinx Spartan III XC3S250E.

The other vital component of the Perseus system is a computer. The current computer system recommendations to take full advantage of the receiver's capabilities are for at least a Dual Core Pentium with a 2.5 GHz clock speed and 500 MB of RAM, running Windows XP or Vista. A USB 2.0 port, a standard 16 bit sound card, mouse with center wheel and a minimum graphics resolution of 1024×768 are also required. Mine is running fine with a 2.33 GHz Core2Duo with 2 GB of RAM running the XP Pro operating system. If you do plan to take advantage of the recording feature, a large hard drive is a necessity, since 10 minutes of recording with an 800 kHz span width requires 3.6 GB of storage. A sound card is required for audio playback, but its quality is not important, as (unlike some Winradios) no signal processing is done by the sound card.

Installation consists of plugging in the power supply and connecting it to the radio, connecting the radio to a USB 2.0 port on the computer with the supplied cable and then installing the drivers and control

software. There is no instruction manual in English, but the software disk that came with my receiver had a Quick Start PDF file in English and there is comprehensive information on installation and operation in English on the web. The current software version is 1.0f.

## The interface

This is, of course, what is most exciting about SDRs, since the receiver itself is connect and forget. The Perseus and the Flex5000A software were my first exposure to using a real-time spectrum display and mouse tuning. I had used the static spectrum displays on the TenTec RX-350 and '320, but not much. With the Persus, the spectrum display is real-time and tuning is essentially instantaneous. A waterfall display is also an option. In one available tuning mode, one uses the mouse to point to a desired signal on the display, double left-click and the receiver tunes to that frequency (reminds me of shooting fish in a barrel!). The Perseus control interface is designed to resemble a standard communications receiver front panel with pushbuttons and sliders and will be intuitive to use for most hobbyists. Refer to <http://microtelecom.it/perseus/index.html> and click on the lower screen shot for a reference. The main portion of the panel is the spectrum display which can be set for span widths of 1.6/3.1/6.3/12.5/25/50/100/200/400/800 kHz. I'm tending to use the receiver as a conventional receiver (i.e. not recording spectrum for later analysis), so I find myself using the 200 and 400 kHz spans, which yield a less crowded display. There is also a secondary display window which shows the signal that the receiver is tuned to in more detail. The span width of the secondary window is determined by the filter bandwidth selected. The secondary display gives a visual representation of the signal's modulation, the filter passband and the notch filter.

All aspects of the receiver are controlled via the mouse, which needs left and right buttons and a scroll wheel. There are no

keyboard commands or shortcuts, with the exceptions that the notch function can be accessed by holding the control key instead of clicking the Notch button beneath the secondary display and frequencies can be directly inputted via the keypad. Many people are resistant to adopting computer controlled radios because there are no knobs — well, after a few minutes of adapting to the Perseus interface, I can say that I'm not looking back. I use a trackball, so I can access all receiver functions by moving my thumb and two fingers.

## Tuning

There are a myriad of tuning options available, in addition to the point and double click method. For band-scanning the mouse wheel can be scrolled in steps which are mode dependent (5 kHz for AM and 100 Hz for SSB are the defaults) but can be changed via the Up/Down arrows next to the Wheel Step window. The pointer must be over the main display or the frequency ruler at the bottom of the main display for scroll tuning. The frequency ruler can be shifted by pointing to it, holding a left-click and dragging the ruler. Beneath either end of the ruler are left and right "Click Frequency" arrows that can be clicked to tune in user selectable steps (default is 100 kHz with a range of various steps from 1 kHz to 1 MHz). The tuned frequency is displayed in the Frequency Pane with a resolution to one hertz. The receiver can also be tuned by pointing to any of the digits in the Frequency Pane and rolling the scroll wheel. I find scrolling the MHz digit to be the fastest way to jump between broadcasting bands. By double-clicking in the frequency pane, a direct frequency entry window pops up for direct frequency input via the keyboard. This is one thing I would like to see changed in the software — my preference would be to directly enter a frequency via the keypad without having to open a separate window. One last tuning method is to grab and drag the dial pointer in the main display, but this is only available if the "Center" button is deactivated in the "Tuning" window.

## The secondary display

This window (also known as the demodulation window) is the control center for filter selection and manipulation. The signal (both carrier and modulated sidebands) is displayed in the window and the filter passband is represented by a gray column within the window. If a wide enough filter is selected, adjacent channel signals are displayed as well. There are six filter selection buttons next to the secondary display window to choose different bandwidths ranging from 0.8 to 25 kHz — these are just starting points, as each filter can be dynamically varied by scrolling the mouse wheel while pointing to the secondary display window. The bandwidths are not infinitely variable, but the bandwidth steps are dependent on the selected bandwidth button, e.g. if the 12 kHz button has been clicked, the scroll wheel varies the bandwidth in approximately 50 Hz steps, for the 6 kHz button the steps are about 25 Hz and for the 3 kHz button the steps are 12 Hz. The -6 dB width of the chosen filter is shown numerically in the upper left corner of the demodulation window. The filter shape factors are excellent, with a quoted specification of 1:1.08 for the 2.4 kHz filter at the -6/-60 dB response points. The minimum filter width available is 57.2 Hz.

In addition to changing the bandwidth, the secondary display allows for several other functions. By double-clicking on the signal peak, the signal will be centered in the passband. A left drag will allow shifting the signal peak within the passband for fine tuning. By pointing to either side of the passband column and left dragging, the edges of the passband can be individually shifted. By right dragging, the entire passband can be shifted to effect passband tuning. If the "Notch" button is clicked (or the Ctrl key held down) the Notch filter is activated and the notch can be tuned to a desired frequency by a double click or variably tuned by a left drag. The width of the notch can be varied with the scroll wheel and it is deactivated with a right click. All of these adjustments are graphically

displayed in real-time, providing a visual indicator of filter adjustment in addition to the aural effects. This is another aspect of SDRs that I find fascinating.

## The other buttons

For a tour of the other features of the Perseus, I'll start in the upper left hand corner and work my way around the front panel. There are four stages of attenuation: off, 10, 20 and 30 dB. Below those buttons are buttons to select the preselector (1.7 MHz low pass filter and half-octave bandpass filters from 1.7 to 30 MHz), a pre-amp that yields about 4 dB of gain and Dither, a software function to reduce spurious signals. Next are the Amplitude controls to set the reference level and height of the waveform of the main (in Spectral mode) and secondary display. The level of the waveform can also be set with the Up/Down arrows at the right side of the main display. Continuing down the left side of the front panel are the Frequency pane and windows and control buttons for Span Width, Click and Wheel Step settings. Below this is the Tuning window with buttons for Center, Cal and CalClear. Clicking on the Center button puts the tuned frequency in the center of the main display. The Cal and CalClr buttons permit accurately calibrating the receiver to a frequency standard, such as WWV. This can be done on the fly, without having to open any configuration files. The calibration procedure is outlined on Guy Atkin's blog (see below). Next are the Sampling Rate selection buttons. Increasing the sample rate increases the frequency span covered by the receiver. Unlike the Flex-5000A, changing the sample rate doesn't seem to affect the filter performance of the Perseus. Below this are the input select buttons to choose between the receiver and recorded WAV files.

Along the bottom of the front panel are the controls for recording and playback of WAV files — again the Perseus can record up to 800 kHz of spectrum for a time limited only by the size of the computer's hard drive. To the right of the secondary display window are the sliders for adjusting the response

time of the main and secondary displays. Next to the right is the noise blanker control — the threshold level can be adjusted with a slider control. Then there is a column of seven pushbuttons. The top three are for the Marker function, which permits tacking the frequency and amplitude of up to four signals in the main display — the markers are invoked by a right click on the desired signal in the main display. The bottom four buttons are for the AGC — off, slow, medium and fast. The AGC parameters are not user adjustable. The lower right half of the front panel contains a large horizontal bar format S-meter which shows both S units and signal level in dBm. It can be set to respond to either average or peak signal level. Below the S-meter is a window that displays station information for the tuned frequency based on either the HFCC, EiBi or a user-defined database. The databases are in files stored with the program, not downloaded from the Internet, so they will need to be updated over time. To the far right of the lower half of the panel are the buttons and sliders for the noise reduction and volume controls. Between the main display window and the bottom half of the panel are the mode buttons — AM, Synchronous AM, CW, RTTY, USB, LSB, FM, DRM and USER (which feeds zero-IF IQ samples to the Virtual Audio Cable output for use with third-party applications). Synchronous detection is double sideband, but single sideband sync detection can be obtained by using passband tuning, as with the AOR AR-7030 or the early Drake R8. DRM detection requires the use of two separate external programs — Dream for decoding and Virtual Audio Cable to route the digital audio and avoid the need for two sound cards. The DRM Software Radio software is not supported. In the far bottom right is the status indicator for Vcom status. VCom stands for Virtual Com port — this feature allows the Perseus to be controlled by an external program using the CI-V instruction protocol. Finally, along the right-hand side of the main display, are the Up/Down arrows to adjust the reference level of the spectrum display and sliders to adjust the speed, brightness and contrast of the waterfall display.

## The Specs

The Perseus' specifications (at 14.15 MHz, as published by the manufacturer) are as impressive as its functions and controls. The frequency coverage is 10 kHz to 30 MHz. Selectivity stopband attenuation is > 100 dB and image rejection is 90 dB. The third order intercept is >31 dBm and dynamic range is 100 dB for SSB /2.4 kHz filter and 104 dB for CW/500 Hz filter (signal spacing not specified). The Minimum Detectable Signal level is -131 dBm in CW/500 Hz filter and -124 dBm in SSB/ 2.4 kHz filter, both with preamp on. SSB sensitivity is quoted at 0.39  $\mu$ V for 10 dB S+N/N (pre-amp off/preselector on). These are very respectable specifications—I look forward to seeing confirmation of the test results from either Sherwood Engineering or the ARRL.

## Operation

I found with the Flex-5000A that what seemed to matter most for successful operation was not the computer specifications, but how many processes were running in the background. The Perseus seems to be much more tolerant and runs without glitches or hiccups. The average CPU usage on my system is 10 per cent.

Based on my experience with the Perseus at the Winter SWLfest, the receiver needs a good antenna to perform properly. At the 'Fest, I tried the Perseus with an AOR Window loop and with a 20 feet length of wire—with either antenna, the Perseus was out-performed by an Eton E1 with its internal whip. This relative lack of sensitivity is not a problem at my home with either full-size wire antennas or outdoor active antennas. It is possible that some Perseus users with marginal antennas might benefit from a low-noise preamp ahead of the receiver, since the built-in preamp only provides about 4 dB of gain. I'm planning on trying a Kiwa shortwave pre-amp to see what difference that makes.

In operation, the Perseus is a dream. My quick tests for selectivity and resistance


to overload are trying to listen to the BBC on 6005 kHz with R. Habana on 6000 kHz, CKZU Vancouver 6160 kHz vs. R. Nederland on 6165 and R. Educacion, Mexico on 6185 kHz vs. R. Habana on 6180. In all cases (propagation permitting) I was able to obtain a listenable signal on the weaker stations. Splatter from the stronger stations was not completely eliminated, but significantly reduced allowing intelligible listening. The filter shape factors are super sharp and the available bandwidth steps are more than enough to find the right bandwidth for the received signal. I really enjoy being able to visualize the filter width vs. the signal's modulation in the secondary display. The notch filter is very sharp and deep. The notch width is variable and the effect of the notch is visible in the secondary display. The front-end seems to be very overload-resistant, with no breakthrough of mediumwave signals into the lower shortwave frequencies.

The audio output is crisp and clear, so a good set of computer speakers is called for. I've found the M-Audio Studiopro 3 to be a good choice for a non-subwoofer setup. My favorite speaker system with a subwoofer is the Klipsch Promedia 2.1. The AGC action is smooth and also contributes to the pleasant sound of the receiver. One feature that is missing is a RF gain control or, as found in the FLEX-5000A, an AGC Threshold control, which can be adjusted to reduce background noise to near inaudibility. Hopefully, this will be addressed in future software upgrades. The volume control appears to perform as a RF Gain control when the AGC is set to off. The noise reduction in the receiver is one of the best I've heard—it significantly reduces noise on the signal without altering the signal's intelligibility or introducing artifacts. The synchronous detector is very good, but will very rarely lose lock with deep signal fades. ECSS reception is very good—to the point that synchronous detection is almost redundant. Although I have not made much use of it, the ability to record a broad swath of spectrum for later analysis is quite exciting.

## The bottom line

Software defined radios represent a tremendous leap forward, not just in receiver design, but in the user interface as well. I have hardly turned on any of my other radios since getting the Perseus. It would be nice if the developer would publish a demo version of the software for perspective users to experience the interface and features. Hopefully, there will be a US distributor for the Perseus in the near future once FCC approval has been obtained, but ordering one from Europe is not that difficult—it can be ordered from Woodbox Radio in Italy with Paypal—current pricing for the US (March 2008) is 687.50 Euros, which appears to not include shipping. A US-made competitor to consider is the Quicksilver QS1R VERB which should soon be in production—it features open source software and will be able to sample and record up to 2 MHz of spectrum.

## Internet resources

The manufacturer's site: <http://www.microtelecom.it/perseus/>  
Guy Atkin's blog: <http://www.perseus-sdr.blogspot.com/>  
Yahoo discussion group: [http://groups.yahoo.com/group/perseus\\_sdr/](http://groups.yahoo.com/group/perseus_sdr/)  
A guide in English for operation of the Perseus along with recorded audio: <http://www.tadx.mediumwaveradio.org/perseus.html>  
SDRs in general: <http://www.radio-portal.org/sdr.html> 



# Kim's Column

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This column, with links, is available at this URL publicized only to NASWA members: <http://kimelli.nfshost.com/index.php?id=3407>

## The RFE/RL president and his territorial ambitions

Jeffrey Gedmin, president of Radio Free Europe/Radio Liberty Inc., since March 2007, spoke February 14 at the Center for Strategic and International Studies in Washington. This was my first chance to hear what this new top executive of U.S. international broadcasting has to say.

Quick review: Most people go to the trouble of tuning in foreign broadcasts to get news that is more comprehensive, reliable, and credible than the news they get from their domestic state controlled media. (We DXers listen for another reason, but we are in the minority.)

Because of the need for that credibility, the head of an international broadcasting entity ideally should be a journalist. A journalist who is dyed-in-the wool, gruff, grizzled, cigar-chomping, visor-wearing, with a three-day growth of beard. And that's if your director is a female. If the director is a male, he would look absolutely indescribable.

Jeffrey Gedmin does not have the heart of a journalist. He has the heart of an international policy wonk. He was obviously more interested in the political, ideological struggle between the United States and its adversaries, than in making sure that RFE/RL's journalism is fair, balanced, and independent.

"We're in the journalism business, the accuracy business, the objectivity business, the information business, the commentary business, but the value that's difficult to talk about, to quantify, of giving hope through these services to literally millions of people." Later in his talk, he put it more

bluntly: "Our mission is to promote democratic values and institutions."

The decision makers of U.S. international broadcasting can't just leave it at just plain, good journalism. There is always the "but." As in his boss, outgoing BBG chairman Jim Glassman's "but": "Journalism is the foundation of what we do, but, we are paid for by the U.S. taxpayer, we have a mission, we have a purpose."

So, more review: Why international broadcasting that contents itself with no-buts journalism? 1) It brings an audience, because that's why people tune in. 2) It bolsters the audience against the disinformation of dictators and terrorists, allowing the listeners and viewers to form their own opinions about current events. 3) It speaks well for the United States that its broadcaster provides a fair and accurate news service.

## The traditional disinformation about VOA

It is ironic that the "surrogate" international broadcast stations (RFE/RL and Radio Free Asia), ostensibly in the business of countering disinformation in their target countries, are themselves created and sustained by a campaign of disinformation about the Voice of America.

At CSIS, Gedmin said, "what we do is broadcast to our countries in their languages the news, the information, I like to say the responsible discussion, commentary, that they would have if they had a free independent media.... It's a big difference between us and the Voice of America. Voice of America ... has always been about us, about America, about American foreign policies, American society, culture, music, art, and sport, and theater, and politics." He said much the same thing at the Heritage Foundation on April 10.

Well, that's the mythological structure of U.S. international broadcasting. Yes, VOA does cover those American things, but it has an audience because it provides audiences with news and information about their own countries. BBC World Service does this, too, in a much bigger way, and to a much larger audience, than RFE/RL. Radio France International provides this service for francophone Africa, and Radio Australia for the Pacific.

All successful international broadcasting is surrogate broadcasting. RFE/RL and RFA are not so unique, except that they are dutifully deficient in their coverage of world news.

Nevertheless, Gedmin wants U.S. surrogate international broadcasting to expand. The last person to ask him a question at the CSIS event was from Nigeria. And he asked why RFE/RL does not broadcast to Africa.

Gedmin: "I personally believe that there's a very compelling case for more surrogate broadcasting. And you said it best, including in your country you know better than I, it's not just philanthropy, it's the strategic interest of the United States.... And so, you know, with me you're pushing on an open door, and if you want to give me your card and we'll visit our board and we'll stop by Congress and we're ready to do business."

Oh-oh. One area where U.S. international broadcasting enjoys particular success is Africa. A big reason for this is that all the resources of U.S. international broadcasting to Africa are concentrated in the VOA's African services. And because of this, African listeners can get African, world, and U.S. news all from the convenience of one radio station.

Under Gedmin's vision, the scarce talent, resources and budget for broadcasting in languages such as Hausa, Swahili, Amharic, and Kinyarwanda/Kirundi would be split into two stations that would compete with each other and duplicate each other's outputs.

In the late 1990s, proposals for a "Radio Free Africa" were floated by some members of Congress. VOA's then director Evelyn Lieberman responded by way of a preemptory self-

amputation. President Clinton announced plans to create a Radio Democracy for Africa as part of VOA.

In a rare victory for good sense in U.S. international broadcasting, the Radio Democracy for Africa idea withered and was eventually forgotten. U.S. international broadcasting to Africa remained unitary and effective.

But if Gedmin remains mounted on his new African surrogate hobby horse, the success now enjoyed by USIB in Africa could turn into failure, just about overnight.

On the other hand, creation of a new Radio Free Africa would have excellent boondoggle value. It would create a new bureaucracy, with a new director, associate director, assistant directors, senior advisors, special assistants, presidential management interns. Washington loves a boondoggle, and the distinguished fellows of the Washington think tanks (even those of the conservative persuasion) positively salivate at the prospect of a new agency and their promise of plum jobs.

## Farewell to Briech

The International Broadcasting Bureau's shortwave relay station at Briech, Morocco, ceased operation as an IBB facility on March 30.

The IBB Office of Engineering was planning some sort of send-off. Amazingly enough, I was asked for ideas. I proposed to do a live show on March 29 at 2000-2100 UTC, repeated March 30 at 0600-0700, on as many Morocco frequencies that could be spared. The program would interview relay station staff and experts in international broadcasting technologies, and take calls from listeners.

The idea was sent up the flagpole. A "no," or merely inaction, at any of the many, many layers of USIB management means that the live show won't happen. I never heard back, so the live Briech farewell didn't happen. If there was a farewell event, I heard nothing about it.

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



# Listener's Notebook

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<b>ANTARCTICA</b> 15476 <i>LRA 36 Radio Nacional Arcangel San Gabriel</i> , 1900-1920, Apr 15, when Africa No. 1 closed at 1900, Antarctica was heard with romantic songs in Spanish, weak signal which faded out at 1920, best heard in USB. (Koie, Denmark and Mndez, Spain/DSWCI DX News)		0900-1100	English	9475S 9580S 9590S 9710S 11880S 11945S 12080B 15415S
		0900-1100	Tok Pisin	5995B 6020S 9710S 12080B
		1100-1200	English	5995B 6020S 9475S 9560S 9580S 9590S 11880S 11945S 12080B
<b>AUSTRALIA</b> <i>Radio Australia</i> A08 Schedule:		1200-1300	English	6020S 9475S 9560S 9580S 9590S 11880S 11945S
0000-0030	Indonesian	15180D 15415S		
0000-0030	English	9660B 12080B 13690S 15240S 17715S 17750S 1775D 17795S	1300-1400	English
0030-0130	English	9660B 12080B 13690S 15240S 15415S 17715S 17750S 17775D 17795S	1300-1430	Mandarin
0130-0200	English	9660B 12080B 13690S 15240S 15415S 17715S 17750S 17795S	1400-1430	English
0200-0400	English	9660B 12080B 13690S 15240S 15415S 15515S 17750S 21725S	1430-1600	English
0400-0430	English	9660B 12080B 13690S 15240S 15515S 17750S 21725S	1600-1700	English
0400-0430	Indonesian	15180D 15415S	1700-1800	English
0430-0500	English	9660B 12080B 13690S 15240S 15415S 15515S 17750S 21725S	1800-1900	English
0500-0530	English	9660B 12080B 13690S 15160S 15240S 15515S 17750S	1900-2000	English
0500-0530	Indonesian	11745T 15180D 15415S	2000-2100	English
0530-0600	English	9660B 12080B 13690S 15160S 15240S 15415S 15515S 17750S	2000-2100	Tok Pisin
0600-0630	English	15415S Sa/Su	2000-2100	Mo-Fr
0600-0630	Indonesian	15180D 15290T	2000-2100	English
0600-0630	Indonesian	15415S Mo-Fr	2100-2200	English
0600-0630	English	9660B 12080B 13690S 15160S 15240S 15515S 17750S	2200-2300	English
0630-0700	English	9660B 12080B 13690S 15160S 15240S 15415S 15515S 17750S	2200-2300	BBCWS
0700-0800	English	9475S 9660B 9710S 11945S 12080B 13630S 15160S 15240S 15415S 17750S	2200-2330	Indonesian
0800-0900	English	9475S 9580S 9590S 9710S 11945S 12080B 13630S 15415S 17750S	2300-2330	English
			2330-2400	English

B=Brandon  
D=Darwin  
S=Shepparton  
T=Taiwan

(RA website, selected by Bueschel-DE/WWDXC BC-DX TopNews Apr 10)

**BELARUS** *Radio Belarus* A08 summer schedule:

**Kalodishchi BR-1**

0300-2100 6115 6080  
0400-0700 11930  
1500-1800 7105

**Radio Belarus**

1100-1700 7360 7390  
1700-2300 7105 7360 7390

(Sergey Alekseychik-BLR, "open\_dx" via RUSdx Apr 20/BC-DX)

**BOLIVIA** 4787.8 *Emisoras Bolivian* (t), Beni, 2336-0030, Mar 20, music by Vicente Fernandez and Roberto Carlos as musical greetings. TA: "...17 minutos para las 8 de la noche..." (UTC-4). At 0000 a religious transmission from a catholic church, very poor audio. No positive ID heard. (Rodriguez). Reactivated? Has been off since May 2004. (Petersen/DSWCI DX News)

**CANADA Radio Canada International** A-08 English schedule, all other languages see website at <http://www.rciviva.ca/rci/en/horaires.shtml>

0000-0057 11700ku  
0005-0105 6100sa Tu-Sa  
0100-0159 9620emr  
1500-1557 11675ku 17720ur  
1505-1705 9515sa 9800sa/DRM  
1800-1859 9530ka 11765sk 17735sa 17810sk  
2000-2059 11765hb 13650sk 15235sa 17735sa  
2305-0005 6100sa

emr Emirler, TURKEY

sa Sackville  
ka Kashi  
ku Kunming  
hb Hoerby  
sk Skelton  
ur Urumqi

(RCI website via wb via Alan Roe-UK, WWDXC-UK/DX Listening Digest)

**CHINA** 4830 *China Huayi Broadcasting Company*, Fuzhou, \*1200-1304, Mar 18 and 22, Mandarin. Carrier on at right around 1200 followed a few seconds later by audio, a presumed news report then a female presenter anchoring a program with various guests and callers on the phone with many "ni hao" (a standard "hello" greeting), "Wei. Wei." (a traditional Chinese phone greeting also roughly meaning, "Hello. Hello.") and the distinctive "ba ba ba" (number 888) and seemed like "shi" (number 4). Assume this must be a local phone number for this program? 5+1 pips heard at 1300amid a nearly faded-out signal. Was able to definitively // this to their streaming audio at [mms://218.5.3.181:1250/](https://mms://218.5.3.181:1250/). Apparently a reactivated frequency for CHBC. (Schieffelbein via NASWA and Howard/DSWCI DX News)

According to Zhoushan Meteorological Agency <<http://220.189.205.5>> *Zhoushan Maritime Meteorological Radio Station* started official shortwave transmission on March 23. They broadcast maritime meteorological information to about 100,000 ships in East China sea at 0000 0300 1100 UT. The signal is expected to reach as far as 1,000km from the station. Shortwave was thought to be the best solution for the "Last One Mile" problem to the fishery ships. The program contents weather forecast of 2 hours ago by China Central Meteorological Observatory, and disaster forecast by Zhoushan local Meteorological Observatory in case of emergency.

The frequency was not given, but I found and confirmed the broadcast on 3303 kHz USB at 1100 UT. The broadcast was given in Chinese for about 2.5 minutes everyday, giving the weather information of Taiwan straight. The mailing address of the station was investigated as: Meicen Road, Putuoshan, Putuo District, Zhoushan, Zhejiang, China telephone +86 580 8080277. Zhoushan is located in the island 100 km south east of Shanghai. (Takahito Akabayashi-JPN, wwdxc BC-DX TopNews Apr 19)

**COSTA RICA** Unidentified ELCOR transmitter, Guapiles, 5954.13, near local level on 23 April, 2008, tune in at 2131 with nonstop, mostly Spanish male vocals, abruptly off at 2155 after the last song ended. (Terry L Krueger, FL/DX Listening Digest)

Glenn, Do you have any up to date information on what is happening at *RFPF*? There had been talk of getting back on the air back in 2004 but I have not heard anything since then. Thanks, (Herb Susmann, NY)

Herb, Nor have I. I think it's safe to assume it's gone for good (from SW; still as a webcast). (Glenn Hauser-OK/DX Listening Digest)

**CROATIA** Summer A-08 of *HRT* HS-1 in Croatian via Deanovac:

0457-0756 6165  
0757-1356 9830  
1357-2056 6165  
2057-0456 3985v

(DX-MIX, Bulgaria)

**CYPRUS** 5930 *Cyprus BC Corp*, \*2215-2244\*, April 6, New Frequency, ex-6180. Sign on with Greek music. Greek opening announcements & radio-drama. Greek music. Sign off with Greek tune. Good signal. // 7210-poor, mixing with China Radio Int. and// 9760-very weak. (Brian Alexander, PA/Hard Core DX)

**CZECH REPUBLIC** Summer A-08 of *Radio Prague*:

0000-0030 Spanish 11665ASC (+ test  
7275ASC Mo-Fr)  
0000-0030 English 7345 9440  
0030-0100 Spanish 7345 9440  
0100-0130 English 6200 7345

0130-0200	Czech	6200 7345
0200-0230	Spanish	6200 7345
0230-0300	Czech	7345 9870
0300-0330	English	7345 9870
0330-0400	English	6080SAC 9445 11600
0400-0430	Russian	9445 11600
0430-0500	Spanish	9955RMI
0600-0630	French	5930 7345
0630-0700	German	5930 7345
0700-0730	English	9880 11600
0730-0800	French	9880 11600
0800-0830	Spanish	11600 15710
0830-0900	Czech	11600 15710
0900-0930	English	9880 9955RMI 21745
0930-1000	Czech	9880 21745
0930-1000	Spanish	9955RMI
1000-1030	German	6055 9880
1030-1100	English	9880 11665
1100-1130	Czech	11665 15710
1130-1200	Russian	11665 15710
1200-1230	German	6055 7345
1230-1300	Czech	6055 7345
1300-1330	German	9850*WOF Fr/Sa
1300-1330	English	13580 17540
1330-1400	English	9850*WOF Fr/Sa
1330-1400	French	13580 17540
1400-1430	Spanish	11625 13580
1400-1430	English	9955RMI
1430-1500	Russian	7345 13580
1500-1530	German	5930
1530-1600	Czech	5930 17485
1600-1630	English	5930 17485
1630-1700	French	5930 17485
1630-1700	German	11825ARM
1700-1730	English	5930 17485
1730-1800	Czech	5930 17485
1800-1830	Russian	5840DB
1800-1830	Spanish	5930 13580
1830-1900	French	5930 13580
1900-1930	Spanish	5930 13580
1930-2000	Czech	5930 11600
2000-2030	English	5930 11600
2030-2100	Spanish	5930 11600
2100-2130	Czech	9410 11600
2130-2200	English	9410 11600
2200-2230	French	7345 9415
2230-2300	English	7345 9415
2300-2330	Spanish	7345 9415
2330-2400	Spanish	6000SAC
2330-2400	Czech	7345 9440

ARM = Armavir, Russia  
 ASC = Ascension Island  
 DB = Dushanbe, Tajikistan  
 RMI = WRMI, USA  
 SAC = Sackville, Canada  
 WOF = Woofferton, U.K.

(DX-Mix, Bulgaria)

**ECUADOR** 4909.2 *Radio Chaskis del Norte*, Otavalo, 1000-1100, Mar 28 and 29, on the air again with

love song "...en la pequena amor...en mi corazon...tu es mi vida amor...," 1018 nice canned ID/promo by 2 men "?? Radio Chaskis del norte su nuevo radio. Las 4910 kHz musica por? ? Ecuatoriana," pleasant Ecuadorian music, weak signal on Mar 28, much stronger next day. (Bolland, Valko and Wilkner). Not reported since Jan 2008. (Petersen/DSWCI DX News)

**EL SALVADOR** *Radio CRET* which acc. to WRTH 2008 is inactive—is now on the air again -with test transmissions on its original MW frequency of 1080 kHz. What is more encouraging is that they emit a strong second harmonic on 2159.92 kHz. Monitored in Guatemala at 0230 UTC (Sunday night) with a strong signal which I anticipate will easily make it to North America and perhaps even Europe. One ID is: "Desde San Salvador transmite Radio CRET 1080 kHz en su senal de prueba." They also announced tel. 26710317 in case you catch the station and want to inform them about reception.

*Radio Imperial* which used to broadcast on 17 MHz till quite recently has neither transmitter nor aerial left at the stations premises in the outskirts of Sonsonate in Northern El Salvador, so I dont think that it is very likely they will ever return. They now operate on 810 kHz with 500W only. (Stig Hartvig Nielsen, Guatemala/Hard Core DX)

**EQUATORIAL GUINEA** *Radio Africa* is back! Not reported in ages on 15190, but strong signal S9+20 Friday April 11 from tune-in 2059 with lo-fi prayer, to gospel singing off-mike; it was the ending of a program, 2101 with contact info as embassy @ afc-mi.org or Box 714, White City, Saskatchewan S4L 5B1, Canada. Website <http://www.afcmi.org>.

2127 local ID, announcer spoke very slowly and clearly: Radio Africa, spelt radioafrica@myway.com to contact ministries by forwarding. Approximate schedule, rarely adhered-to, all in English on 15190:

**Radio Africa:**

1700-2300 daily

Either 0700-1200 or 0800-1300 Mo-Fr

**Radio East Africa:**

Either 0600-1330 or 0700-1600 Sa/Su only

(Glenn Hauser, OK, DX Listening Digest)

No trace of *Radio Africa* here again on 15190 this morning (Dave Kenny, England, April 23/DX Listening Digest)

I was under the impression that it was a bit more active in the mornings than in evenings, i.e. could be on in the morning even if not on in evening (Glenn Hauser/DX Listening Digest)

**ETHIOPIA** *Voice of Tigray Revolution* being heard on 5950 around 1825 after VOIRI signs off, generally fair to good reception now that adjacent channels

are clear especially now that there is no DRM on 5955. Station signs off at 1900. (Edwin Southwell, England, May World DX Club ContactDX Listening Digest)

**FRANCE** *Radio France International* in English in A08 season:

0400-0430 9805 11995  
 0500-0530 13680 15160  
 0600-0630 11725 15160 17800  
 0700-0730 13675  
 1200-1230 17800  
 1600-1700 15605 17605

(Bueschel-DE/WWDX BC-DX TopNews Mar 21)

**GABON** Noted on 16 April at 1840 the Gabon transmitter on 4777 is putting out weak/fair level harmonic on 9554. Mainly only a carrier as the fundamental was low modulated. Simultaneously signed off at about 1900. (Jari Savolainen, Finland/Cumbre DX)

**GERMANY** The German private broadcaster *Radio 700* has started test transmissions on 6005 kHz. The transmitter is located in Kall-Krekel and the power is 1 kW. The station broadcast also on FM, in cable and in Internet. The start of regular transmissions is planned for May 2008. (Radio 700 via Reijo Alapiha, Finland <http://finndxer.wordpress.com/>)

Updated A-08 of *Brother Stair* via Media Broadcast from Apr.8:

1400-1500 13810 JUL, ex 1400-1600  
 1400-1600 6110 JUL  
 1500-1600 17485 JUL  
 1900-2100 6175 WER

(DX-MIX, Bulgaria)

*Deutsche Welle* is changing its schedule in Germany to Australia/NZ via Bonaire at 0800-1000 UT to:

0800-0900 9855  
 0900-1000 5905

(Andy, Media Network blog/DX Listening Digest)

**GREENLAND** 3815 USB, *KNR* relay via maritime Tasilaq. In the brand new "radio-TV haandbogen" (in Danish) dated Apr 02 which Stig Hartvig Nielsen as a local expert publishes annually, the utility relay of Kalaallit Nunaata Radioa (*KNR*—Radio Greenland) no longer exists on 3815 USB from Tasilaq. It has not been definitely heard since Mar 2007. (Petersen/DSWCI DX News)

**INDIA** *All India Radio* frequency schedule to 26th October, 2008:

0000-0045 Tamil 7360 9835 9910  
 11740 11985 13795  
 0015-0430 Urdu 6155 7195 9595  
 0045-0115 Sinhala 7360 11740 11985  
 0100-0200 Sindhi 5990 7125 9635  
 0100-0430 Urdu 11620

0130-0230 Nepali 3945 7420 9810  
 11715  
 0215-0300 Kannada 11985 15075  
 0215-0300 Pushtu 9835 9910 11735  
 0300-0345 Dari 9835 9910 11735  
 0300-0430 Bengali 7420  
 0315-0415 Hindi 11840 13695 15075  
 15185 17670

0400-0430 Persian 11730 15770 17845  
 0415-0430 Gujarati 15075 15185 17670  
 0430-0530 Hindi 15075 15185 17670  
 0430-0530 Arabic 11730 15770 17845  
 0700-0800 Nepali 7250 7420 9595  
 11850

0800-1100 Bengali 7420  
 0830-1130 Urdu 7195 7250 9595  
 11620

0845-0945 Indonesian 15770 17510 17875  
 1000-1100 En\_GOS-II 7270 13695 15020  
 15260 15410 17510  
 17800 17895

1115-1200 Thai 13645 15410 17740  
 1115-1215 Tamil 7270 13695 15050  
 15770 17810 17860

1145-1315 Chinese 11840 15795 17705  
 1215-1245 Telugu 13695 15770 17810  
 1215-1315 Burmese 11620 11710 15040  
 1215-1330 Tibetan 7420 9575 11775  
 1230-1500 Sindhi 6165 7195 9620  
 11585

1300-1500 Sinhala 7270 9820 15050  
 1315-1415 Dari 7255 7410 9910  
 1330-1430 Nepali 3945 4860 7420  
 11775

1330-1500 En\_GOS-III 9690 11620 13710  
 1415-1530 Pushtu 7255 7410 9910  
 1430-1735 Urdu 3945 4860 6045  
 1445-1515 Bengali 7420  
 1500-1600 Baluchi 6165 7195 9620  
 11585

1515-1600 Gujarati 11620 13645 15175  
 1515-1615 Swahili 9950 13605 17670  
 1600-1730 Bengali 7420  
 1615-1715 Russian 9585 11620 15140  
 1615-1730 Persian 7115 9905 11585  
 1615-1730 Hindi 7410 9950 12025  
 13770 15075 17670

1730-1830 Malayalam 7115 12025  
 1730-1945 Arabic 9905 11585 13620  
 1735-1930 Urdu 4860 6045  
 1745-1945 En\_GOS-IV 7410 9445 9950  
 11620 11935 13605  
 15075 15155 17670

1945-2030 French 9905 13605 13620  
 1945-2045 Hindi 7410 9950 11620  
 2045-2230 En\_GOS-V 7410 9445 9910 9950  
 11620 11715

2245-0045 En\_GOS-I 9705 9950 11620  
 11645 13605  
 2300-2400 Hindi 9910 11740 13795

(Jose Miguel Romero Romero, Spain/Hard Core DX)

**IRAN IRIB A-08:**

0030-0130	Bengali	6025 7115
0030-0230	Spanish	9655 9905
0100-0230	Tajik	6175 7285
0130-0230	Kazakh	7115 9795
0130-0230	Urdu	7105 9480 9845
0130-0230	En-VOJustice	7235 9495
0230-0300	Uzbek	9740 11945
0230-0300	Hindi	15165 17635
0230-0330	Pushtu	7130 9605
0230-0530	Arabic	7375 11655
0300-0330	Russian	9650 11925
0300-0330	Armenian	7255 12025
0300-0630	Dari	11910 13740
0330-0430	S-F	9610 11875
0330-0430	Sorani	7255
0330-0430	Sorani	9905
0330-0530	Azeri	13710
0400-0500	Swahili	15265 15340
0430-0500	Hebrew	9610 11875
0430-0600	Turkish	11685 13640
0500-0530	Russian	9855 13750 17595 17655
0530-0630	Serb-Cr	13750 15235
0530-0630	Spanish	15530 17785
0530-1430	Arabic	13790 13800 15150
0600-0700	Hausa	17810
0630-0730	French	13710 15430
0630-0730	Italian	13770 15085
0630-0730	Albanian	13810 15235
0730-0830	Pushtu	11990 15440
0730-0830	Germany	15085 15430
0830-0930	Bengali	11705
0830-0930	Swahili	15240 17660
0830-1030	Arabic	9885
0830-1430	Dari	13720 9940
0930-1000	Armenian	9695 15260
1030-1130	English	15600 17660
1200-1230	Hebrew	13685 15260
1200-1300	Chinese	13735 15190 17635 17670
1230-1330	Malay	15200
1230-1330	Pushtu	9790 11730
1230-1330	Malay	17555
1300-1400	Kazakh	11665 13765
1330-1430	Japanese	13755 15555
1330-1430	Urdu	6000 9665 11695
1330-1630	Kurmanji	5990
1430-1530	Russian	7160 9580 9900
1430-1530	Bengali	6130 9520 12085
1430-1530	Hindi	11955 13805
1430-1530	Pushtu-M	5890
1430-1700	Azeri	6200
1500-1600	Uzbek	5945 9680
1530-1630	English	7370 9635
1530-1730	Urdu-M	5890
1600-1730	Tajik	5945 5955
1600-1730	Turkish	7165 9870
1630-1730	Pushtu	6000 7195
1630-1730	Armenian	7230 9780
1700-1800	Russian	3985 7175

1730-1800	Urdu	6175 7220
1730-1830	Germany	9940 15085
1730-1830	Serb-Cr	7295 9860
1730-1830	Swahili	7130 9655
1800-1900	Russian	6205 7235
1830-1930	French	9940 13755 15085
1830-1930	Hausa	7170 9925
1830-1930	Albanian	9545 9570
1930-2000	Italian	5910 7380
1930-2030	English	6205 7205 9800 9925
1930-2030	Russian	3985 7370
2030-2130	Albanian	9535 11830
2030-2130	Spanish	7300 9800
2100-2200	Japanese	9670 11990
2130-2230	Serb-Cr	7305 9810
2230-2330	Malay	5945 7310
2330-0030	Chinese	11820 11975 13715

M= Mashad (regional) broadcasting house programs

S-F = Sawt-Filistin (Voice of Palestine, Voice of the Palestinian Islamic Revolution) via IRIB

(IRIB via Swopan Chakroborty-IND/DX Listening Digest/Hauser-OK)

Tentative **IRIB** Tehran programs via Sitkunai, Lithuania B-07 A-08:

0630-0727	Italian	11670
1430-1527	Russian	6145
1730-1827	German	6180
1830-1927	French	7260
1930-2027	English	7260
2030-2127	Spanish	6055

(Bueschel-DE/WWDXC BC-DX TopNews Mar 30)

**JAPAN NHK World Radio Japan** thru October 26:

0000-0020	English	5960UKs 6145CAN 13650 17810
0200-0300	Japanese	5960CAN 11780SNG 11935BON 15195 15325 17560 17810
0230-0300	Portuguese	9660BON
0230-0300	Persian	7295FRA
0300-0400	Japanese	5960CAN 11935BON 15195 15325 17560 17810 15300
0330-0400	Russian	15300
0330-0400	Swahili	9555FRA
0400-0430	Chinese	15300
0400-0430	Spanish	6195BON
0400-0430	Arabic	7280FRA
0400-0500	Japanese	5960CAN 15195 15325 17560 17810 9825GER
0430-0500	Russian	9825GER
0430-0500	Korean	15300
0500-0530	English	5975UKr 6110CAN 11970FRA 15325 17810
0500-0530	Chinese	15300
0500-0530	Spanish	6195BON
0530-0600	Russian	11715 11760

0600-0630	Chinese	17860	2300-2320	Thai	13650
0630-0700	French	11970FRA	2300-2400	Japanese	11910 13680
0700-0730	Arabic	11905FRA			15265BON
0700-0800	Japanese	6145 6165 15195	2310-2340	Indonesian	17810
0800-0830	Russian	6145 6165	2320-2340	Vietnamese	13650
0800-0900	Japanese	9750 9825 11740SNG 15290FRA	2340-2400	Chinese	15195 17810
			2340-2400	Burmese	13650
0830-0900	Persian	15190GER			
0900-0930	English	9625 9825 11815 15590			
0900-1000	Japanese	9750 9795CAN 11740SNG 15290FRA			
0945-1030	Indonesian	9695			
1000-1030	Spanish	6120CAN 9710			
1000-1500	Japanese	9750 11815			
1030-1100	Burmese	11740SNG			
1030-1100	Portuguese	13630CAN			
1100-1130	Korean	6090			
1100-1130	Vietnamese	9695			
1130-1200	Thai	11740SNG			
1130-1200	Burmese	9695			
1130-1200	Chinese	6090			
1130-1200	Russian	11710UKr			
1200-1230	English	6120CAN 9625 9695 17585UAE			
1230-1300	French	15400FRA 17870FRA			
1230-1300	Korean	6190			
1230-1300	Vietnamese	11740SNG			
1230-1300	Thai	9695			
1300-1330	Chinese	6190 11740SNG			
1300-1330	Swahili	21560FRA			
1300-1345	Bengali	17595GER			
1310-1340	English	11985			
1315-1400	Indonesian	11705			
1330-1400	Russian	6190			
1345-1430	Hindi	17595GER			
1400-1430	English	11705 11705CAN 11985 13630UKr 21560FRA			
1400-1430	Korean	6190			
1430-1500	Chinese	6190			
1430-1515	Urdu	17595GER			
1500-1700	Japanese	9535 9750 11815 12045SNG 17735FRA			
1630-1700	Korean	6035			
1700-1900	Japanese	6035 7225 9835 11945FRA 13740UAE			
1800-1820	Russian	11970			
1900-1920	Russian	5955			
1900-2000	Japanese	9560			
2000-2100	Japanese	6085 9560 9625 11910			
2100-2200	Japanese	6085 9560 11665 11910 13640			
2200-2220	English	13640			
2200-2300	Japanese	9650UAE 11910 13680 15265BON			
2210-2230	Korean	9560			
2230-2240	Chinese	9560			
2240-2250	Chinese	9560 13650			
2250-2300	Chinese	13650			

Relay sites:

BON = Bonaire  
 CAN = Sackville  
 FRA = Issoudun  
 GER = Wertachtal  
 SNG = Singapore  
 UAE = Al Dhabbaya  
 UKr = Rampisham  
 UKs = Skelton

Remaining direct via Yamata-JPN site.

(NHK A-08 leaflet, Apr 2/WWDXC BC-DX)

**MADAGASCAR MADAGASCAR HAS 253 RADIO STATIONS**

Wednesday February 20, 2008 by Felana

Radio listening is an entertainment medium which remains the first source of information in Madagascar. More than 75% of Malagasy homes have radios and find it essential, especially during cyclone season.

In addition to households, drivers of private cars, taxis, and bush taxis choose radio to satisfy themselves and their customers; not to mention countless public restaurants, offices and other places.

Madagascar is the leader in number of radio stations per capita, both in the Indian Ocean and on the African continent.

Most stations are concentrated in the capital. There are some 70 radio stations in Tana, then comes Tulear with 47, Diego and Fianarantsoa, with respectively 40 and 38; and finally Tamatave 34 and Majunga 24.

Programs include serials [soap operas], dedications, discussions and other entertainments, as well as news and commentary.

An investigation of ratings carried out last July by the students in Media Communication of the University of Antananarivo concluded that RNM (Radio National Malagasy) is the most listened-to for news and information, while the remaining stations are preferred for entertainment. The survey also counted 11 illegal private radio stations.

(Translated from the French article at: <http://www.madagascar-tribune.com/253-stations-de-radio-a-Madagascar,4899.html>)

[Several independent or pirate stations used to transmit on shortwave too, although I haven't seen one reported in a good ten years - ed.]

**MYANMAR** On April 19, I heard a station on 5985.0 from 1416-1435, with EZL pop songs, in an Asian language with poor reception, due to adjacent splatter. Had first thought the language was right for *Myanma Radio*, but then they did not change over to English as they normally do at 1430, so I thought I must be wrong, but thanks to S. Hasegawa observations, it really was them with a new schedule for their English programming (starts at 1530 UTC). There was no sign of anything on the usual 5985.83. Have not checked on this again, as every day I have been involved in monitoring the activity of Lao National Radio on 6130, checking what was actually heard against their website schedule. (Ron Howard-CA/Cumbre DX)

**NETHERLANDS** *Radio Nederland Worldwide* summer frequency schedule 2008, extracted from the database of their operating schedule supplied by the Program Distribution Department:

0000-0100	Spa	9745BON	<i>CRI</i>
0059-0157	Eng	9845BON	<i>RNW</i>
0159-0357	Spa	9590BON	<i>RNW</i>
0159-0357	Spa	6165SIN	<i>RNW</i>
0200-0230	Swe	11550MDC	<i>RSW</i>
0200-0359	Jpn	11935BON	<i>NHK</i>
0230-0259	Por	9660BON	<i>NHK</i>
0230-0300	Eng	11550MDC	<i>RSW</i>
0230-0330	Mlg	3215MDC	<i>AWR</i>
0300-0357	Dut	6190BON	<i>RNW</i>
0300-0400	Ara	11790MDC	<i>RCI</i>
0359-0457	Dut	5975BON	<i>RNW</i>
0359-0457	Eng	6165BON	<i>RNW</i>
0400-0430	Spa	6195BON	<i>NHK</i>
0400-0430	Eng	9575MDC	<i>IBB</i>
0400-0500	Mul	11610MDC	<i>RVP</i>
0400-0500	Eng	12080MDC	<i>IBB</i>
0430-0500	Por	7340MDC	<i>IBB</i>
0459-0557	Dut	6165BON	<i>RNW</i>
0459-0557	Dut	6015NAU	<i>RNW</i>
0459-0557	Dut	6015NAU	<i>RNW</i>
0459-0557	Dut	6015NAU	<i>RNW</i>
0459-0557	Dut	9895NAU	<i>RNW</i>
0459-0557	Dut	9895NAU	<i>RNW</i>
0459-0557	Dut	9895NAU	<i>RNW</i>
0459-0557	Dut	9895NAU	<i>RNW</i>
0459-0557	Dut	9895NAU	<i>RNW</i>
0459-0657	Dut	9835ISS	<i>RNW</i>
0500-0530	Spa	6195BON	<i>NHK</i>
0500-0557	Dut	6120NAU	<i>RNW</i>
0500-0557	Dut	6120NAU	<i>RNW</i>
0500-0557	Dut	6120NAU	<i>RNW</i>
0500-0600	Por	9525MDC	<i>YFR</i>
0500-0600	Kur	15380MDC	<i>IBB</i>
0530-0600	Fre	13710MDC	<i>IBB</i> Mo-Fr
0558-0757	Dut	5955NAU	<i>RNW</i>
0559-0657	Dut	9625BON	<i>RNW</i>
0559-0657	Dut	11655ISS	<i>RNW</i> Mo-Sa
0559-0657	Dut	11935KCH	<i>RNW</i>

0559-0757	Dut	9895NAU	<i>RNW</i>
0559-0757	Dut	9895NAU	<i>RNW</i>
0559-0757	Dut	9895NAU	<i>RNW</i>
0559-0800	Dut	11655ISS	<i>RNW</i> Su
0659-0757	Dut	9625BON	<i>RNW</i>
0659-0757	Dut	6035WER	<i>RNW</i>
0659-0757	Dut	11935WER	<i>RNW</i>
0659-0757	Dut	11935WER	<i>RNW</i>
0659-0757	Dut	11935WER	<i>RNW</i>
0757-1000	Dut	955HB	<i>RNW</i> Mo-Fr
0757-1057	Dut	955HB	<i>RNW</i> Su
0759-1000	Dut	6035ISS	<i>RNW</i> Mo-Fr
0759-1000	Dut	12960RF	<i>RNW</i> Mo-Fr
0759-1000	Dut	6120WER	<i>RNW</i> Mo-Fr
0759-1057	Dut	9895NAU	<i>RNW</i> Su
0800-0900	Ger	9855BON	<i>DWL</i>
0800-0957	Dut	9700SAI	<i>RNW</i>
0900-0959	Ger	5905BON	<i>DWL</i>
0929-1015	Dut	6020BON	<i>RNW</i> Mo-Sa
0959-1057	Eng	13820KHB	<i>RNW</i>
0959-1057	Dut	9895NAU	<i>RNW</i> Mo-Fr
0959-1057	Dut	9895NAU	<i>RNW</i> Mo-Fr
0959-1057	Eng	12065P.K	<i>RNW</i>
0959-1057	Eng	15110PHT	<i>RNW</i>
0959-1057	Eng	11895TIN	<i>RNW</i>
0959-1057	Dut	13700WER	<i>RNW</i>
1000-1057	Dut	955HB	<i>RNW</i> Mo-Fr
1000-1057	Eng	5955WER	<i>RNW</i> Mo-Fr
1000-1200	Ger	5905BON	<i>DWL</i>
1057-1657	Dut	5955WER	<i>RNW</i> Sa/Su
1057-1657	Dut	5955WER	<i>RNW</i>
1057-1657	Dut	5955WER	<i>RNW</i> Sa/Su
1059-1127	Spa	6165BON	<i>RNW</i>
1059-1157	Dut	21560DHA	<i>RNW</i>
1059-1157	Ind	17585MDC	<i>RNW</i>
1059-1157	Ind	21480MDC	<i>RNW</i>
1059-1157	Dut	5955WER	<i>RNW</i> Mo-Fr
1059-1157	Dut	5955WER	<i>RNW</i> Mo-Fr
1059-1257	Ind	9795SNG	<i>RNW</i>
1059-1459	Dut	9895WER	<i>RNW</i> Sa/Su
1059-1459	Dut	9895WER	<i>RNW</i>
1059-1459	Dut	9895WER	<i>RNW</i> Sa/Su
1129-1157	Spa	6165BON	<i>RNW</i>
1157-1457	Dut	5955WER	<i>RNW</i> Mo-Fr
1157-1457	Dut	5955WER	<i>RNW</i> Mo-Fr
1159-1227	Spa	9715BON	<i>RNW</i>
1159-1227	Spa	9895BON	<i>RNW</i>
1159-1257	Ind	15640MDC	<i>RNW</i>
1159-1257	Ind	17585MDC	<i>RNW</i>
1159-1257	Dut	17745MDC	<i>RNW</i>
1159-1257	Ind	11920SNG	<i>RNW</i>
1159-1600	Dut	7235ISS	<i>RNW</i>
1159-1600	Dut	13825ISS	<i>RNW</i>
1159-1600	Dut	9595WER	<i>RNW</i>
1159-1657	Dut	13700ISS	<i>RNW</i>
1159-1657	Dut	13700ISS	<i>RNW</i>
1259-1357	Dut	17585MDC	<i>RNW</i>
1259-1357	Dut	5910P.K	<i>RNW</i>
1259-1357	Dut	9655PHT	<i>RNW</i>
1259-1357	Dut	12085PHT	<i>RNW</i>
1300-1400	Soni	15115MDC	<i>IBB</i>

1300-1400	Vie	17670MDC	<i>AWR</i>	2159-2257	Dut	17605BON	<i>RNW</i>
1359-1557	Eng	5830DB	<i>RNW</i>	2159-2259	Ind	7395PHT	<i>RNW</i>
1400-1430	Tib	17550MDC	<i>VOT</i>	2159-2357	Ind	9475PHT	<i>RNW</i>
1400-1557	Eng	9885MDC	<i>RNW</i>	2200-2300	Jpn	15265BON	<i>NHK</i>
1400-1557	Eng	11835MDC	<i>RNW</i>	2200-2300	Ind	7380MDC	<i>DWL</i>
1430-1530	Bur	17625MDC	<i>DVB</i>	2259-2357	Dut	11970BON	<i>RNW</i>
1459-1557	Dut	13700ISS	<i>RNW</i>	2259-2357	Spa	17605BON	<i>RNW</i>
1459-1557	Dut	13700ISS	<i>RNW</i>	2259-2357	Ind	6120SNG	<i>RNW</i>
1459-1557	Dut	9895WER	<i>RNW</i>	2300-2357	Dut	9525SAC	<i>RNW</i>
1459-1600	Eng	12960RF	<i>RNW</i>	2300-2359	Jpn	15265BON	<i>NHK</i>
1459-1657	Dut	13700ISS	<i>RNW</i>	2359-0057	Eng	9845BON	<i>RNW</i>
1459-1657	Dut	13700ISS	<i>RNW</i>	2359-0157	Spa	6165BON	<i>RNW</i>
1459-1657	Dut	13700ISS	<i>RNW</i>	2359-0157	Spa	9895GUF	<i>RNW</i>
1459-1657	Dut	13700ISS	<i>RNW</i>	2359-0157	Spa	9450SIN	<i>RNW</i>
1459-1657	Dut	13700ISS	<i>RNW</i>				
1459-1657	Dut	5955WER	<i>RNW</i> Mo-Fr	<b>Sites:</b>			
1459-1657	Dut	5955WER	<i>RNW</i> Mo-Fr	ARM = Armavir, Russia			
1530-1600	Tib	17550MDC	<i>VOT</i>	BON = Bonaire, Antilles			
1530-1630	Mlg	3215MDC	<i>AWR</i>	DHA = Dhabbaya, UAE			
1557-1657	Dut	9895NAU	<i>RNW</i>	DB = Dushanbe			
1557-1657	Dut	9895NAU	<i>RNW</i>	GUF = Montsinery, French Guiana			
1557-1657	Dut	9895NAU	<i>RNW</i>	HB = Horby, Sweden			
1559-1657	Dut	13840MDC	<i>RNW</i>	IRK = Irkutsk, Russia			
1559-1657	Dut	15335MDC	<i>RNW</i>	ISS = Issoudun, France			
1600-1700	Swa	9590MDC	<i>YFR</i>	KHB = Khabarovsk, Russia			
1630-1700	Mlg	3215MDC	<i>FLM</i>	KCH = Kishinev, Moldova			
1659-1757	Dut	6020MDC	<i>RNW</i>	MDC = Madagascar			
1659-1757	Dut	9895MDC	<i>RNW</i>	MEY = Meyerton, South Africa			
1659-1757	Eng	5955WER	<i>RNW</i>	MSK = Moskva, Russia			
1700-1800	Mul	7120MDC	<i>RVP</i>	NAU = Nauen, Germany			
1700-1800	Mul	13755MDC	<i>IBB</i>	ORF = Orfordness, UK			
1759-1857	Eng	6020MDC	<i>RNW</i>	PHT = Tinang, Philippines			
1759-1957	Eng	15535WER	<i>RNW</i>	P.K = Petropavlovsk Kamachatskiy, Russia			
1800-1830	Por	7125MDC	<i>IBB</i> Mo-Fr	SAC = Sackville, Canada			
1800-1900	Swa	5870MDC	<i>YFR</i>	SAI = Saipan, No. Marianas			
1800-1900	Eng	7395MDC	<i>YFR</i>	SIN = Sines, Portugal			
1830-1900	Fre	9815MDC	<i>IBB</i>	SNG = Singapore			
1830-2030	Fre	17550BON	<i>IBB</i>	SKN = Skelton, UK			
1859-1957	Eng	11660ISS	<i>RNW</i>	TAC = Tashkent, Uzbekistan			
1859-1957	Eng	15335NAU	<i>RNW</i>	TIN = Tinian, Philippines			
1859-2057	Eng	5905MDC	<i>RNW</i>	WER = Wertachtal, Germany			
1859-2057	Eng	7425MDC	<i>RNW</i>				
1900-2000	Eng	7395MDC	<i>YFR</i>				
1900-2100	Eng	6020MDC	<i>YFR</i>	<b>Org:</b>			
1959-2057	Eng	17810BON	<i>RNW</i>	AWR = Adventist World Radio			
1959-2057	Dut	9690ISS	<i>RNW</i>	CRI = China Radio International			
1959-2200	Dut	6125NAU	<i>RNW</i>	DVB = Democratic Voice of Burma			
1959-2200	Dut	6125NAU	<i>RNW</i>	DWL = Deutsche Welle			
1959-2200	Dut	6125NAU	<i>RNW</i>	FLM = Fianganana Loterana Malagasy (Malagasy Lutheran Church)			
2000-2030	Swe	7395MDC	<i>RSW</i>	IBB = International Broadcasting Bureau (USA)			
2000-2200	Dut	6040KCH	<i>RNW</i>	NHK = Radio Japan			
2030-2100	Eng	7395MDC	<i>RSW</i>	RCI = Radio Canada International			
2059-2157	Dut	17605BON	<i>RNW</i>	RNW = Radio Netherlands Worldwide			
2059-2157	Dut	17810BON	<i>RNW</i>	RSW = Radio Sweden			
2059-2159	Dut	15315BON	<i>RNW</i>	RVP = Radio Voice of the People			
2059-2200	Dut	5930WER	<i>RNW</i>	VOT = Voice of Tibet			
2100-2130	Swe	7420MDC	<i>RSW</i>	YFR = Family Radio			
2130-2200	Eng	7420MDC	<i>RSW</i>				
2159-2257	Dut	15540BON	<i>RNW</i>	Transmissions from Wertachtal are in DRM mode. (RN website)			

**NEW ZEALAND** *Radio New Zealand International*—ignore last month's schedule, here's the latest, which will probably change again before the ink dries:

0459-0658 11725 9890\*  
 0659-1058 7145 6170\*  
 1059-1258 9655 6170\*  
 1300-1550 6170  
 1551-1850 7145 6170\*  
 1851-1935 9615 9890\*  
 1936-1950 9615 11675\*  
 1951-2050 11725 11675\*  
 2051-2240 15720 13840\*  
 2241-0458 13840 15720\*

\* DRM

(RNZI/Hauser-OK/DX Listening Digest)

**PAKISTAN** The A08 schedule of *Azad Kashmir Radio Trarkhel* is as follows:

0045-0215 4790 kHz via Islamabad  
 0230-0425 4790 kHz via Rawalpindi  
 0900-1215 7265 kHz via Islamabad  
 1335-1430 4790 kHz via Rawalpindi  
 1445-1815 4790 kHz via Islamabad

(Aslam Javaid, Pakistan/DX Listening Digest)

**PERU** 4991 *Radio Manantial*(p), Ancash/Huancayo; 8-Apr. Spanish, 0050-0113 sounded like religious music, 0113-0120 male preacher talks "la palabra del Dios, amados oyentes...." Only with 4985 Radio Brasil Central, Goiania off, was viable this listening. (Lucio Otavio Bobrowiec, Brasil/Cum-bre DX)

**PHILIPPINES** *Radio Pilipinas* in A-08 schedule:

0200-0330 11880 15285 15510  
 1730-1930 9395 11720 15190

(HFCC / AOKI list, Apr 4/WWDXC BC-DX)

**PORTUGAL** *RDPi - Radiodifusao Portuguesa, "Radio Portugal"* A08:

0500-0645 7240 Mo-Fr  
 0645-0800 7240 11850 Mo-Fr  
 0700-0830 12000 Sa/Su  
 0800-1000 12020 Mo-Fr  
 0830-1000 11995 12000 Sa/Su  
 1000-1200 15180 21655 Sa/Su  
 1000-1200 12020 15180 15375 Mo-Fr  
 1200-1400 15180 15560 21655 Sa/Su  
 1200-2000\* 15560  
 1300-1500 15770 Mo-Fr  
 1400-1600 11905 15560 15680 21655 Sa/Su  
 1600-1900 11905 15195 21655 Mo-Fr  
 1600-2000 11905 15195 15560 21655 Sa/Su  
 1900-2000\* 9820 11945 21655  
 2000-2300\* 13755 Mo-Fr  
 2000-2300\* 15295  
 2000-2300\* 9820 11945  
 2300-0200 9715 11630 15295 Mo-Fr

\* = extra broadcasts.

(Carlos Goncalves-POR/DX Listening Digest/Hauser-OK)

**ROMANIA** Summer A-08 schedule of *Radio Romania International*:

0000-0100	Romanian	9525 11960
0000-0100	English	9775 11790
0100-0200	French	6130 9515
0100-0200	Romanian	9525 11960
0200-0300	Spanish	5975 9520 9645 11945
0300-0400	English	6150 9645 9735 11895
0400-0530	Chinese	11790 15215
0430-0500	Russian	7190 9555
0500-0530	French	7180 9655
0530-0600	English	9655 11830 15435 17770
0600-0630	German	7125 9740
0630-0700	Arabic	9685 9700 11730 11790
0700-0800	Romanian	9700 11970 15260 17720 "Curierul Romanesc" Su
0800-0900	Romanian	9700 11875 11970 15450 "Curierul Romanesc" Su
0900-1000	Romanian	11830 11925 15250 15380 "Curierul Romanesc" Su
1000-1100	French	11830 15250 15380 17785
1100-1200	German	9525 11775
1200-1300	Romanian	7165 11920 15195
1200-1300	English	11875 15220
1300-1330	Chinese	11795 15435
1330-1400	Russian	9790 11855
1400-1430	Italian	7170
1400-1500	Romanian	9760 11965
1400-1500	Arabic	11945 15160
1430-1500	Aromanian	7170
1500-1530	Ukrainian	7210
1500-1600	Russian	7325 9760
1530-1600	Serbian	6135
1600-1630	German	7460*
1600-1630	Italian	9620
1600-1700	Romanian	7205 9690
1600-1700	French	9680 11950
1630-1700	Aromanian	7135
1700-1730	English	7460*
1700-1730	Ukrainian	6135
1700-1800	Romanian	9625 11865
1700-1800	English	9535 11735
1730-1800	Serbian	6105
1800-1830	Italian	7130
1800-1900	Romanian	9625 11945
1800-1900	German	7160 9775
1830-1900	Aromanian	7130
1900-1930	Ukrainian	5910 7205
1900-2000	Spanish	9775 11715



1600-1700	Persian	7305Kr 9475SP 9360D 12035SP
1700-1800	English	4975D
1700-1800	Arabic	7305Kr 9360D 9835Sa 11610M 11795D 12065SP 13730M
1800-1830	Arabic	7305Kr 9360D 11610M 11795D
1830-1900	Arabic	7130N 7305Kr 9360D 11610M 11795D
1900-2000	Arabic	7285SP 7315N 9360D
2200-2300	Arabic	6145W

TO ASIA

0300-0500	English	15735Ko*
1000-1100	Korean	7165U 9765Ir 15470Ir
1100-1200	Chinese	5930Vl 7165U 7300Kh 7330U 12000Kh
1200-1300	Japanese	7265Ir 7175P
1200-1300	Vietnamese	7330U 12065Ct
1200-1300	Chinese	5930Vl 7300Kh 12000Kh 13590N
1200-1300	Korean	9490Ir
1200-1300	Urdu	11500D 15405N 15550M
1300-1400	Chinese	6045Vl 7300Kh 7330U 12000Kh 12065Ct
1300-1400	Japanese	7175P 7265Ir 9640N
1300-1400	Mongolian	5930Vl 13590N Mo- Sa
1300-1400	Hindi	11500D 11755D 15605M 15550M
1400-1500	Korean	5900Ir 9640N
1400-1500	Urdu	6070N 11500D 15550M
1400-1500	English	6045Vl 7330U 9745Ct 11755D 15660M
1500-1530	Hindi	6070N 9745Ct 11755D
1500-1600	English	4965D 9660X 9625N
1530-1600	Bengali	6070N 9745Ct
1600-1700	English	6070N 9405Ir 12120D 12055Sa
1700-1800	English	9405Ir 9850Ct

TO OCEANIA

0500-0700	English	17635Ko 21790Ir
0700-0900	English	17495D 17635Ko 21790Ir

TO AFRICA

1500-1600	Arabic	12030M 13855M
1600-1700	Arabic	7325Kr 11795D 12030M
1600-1700	French	9745Ct 11510Y 12000M 12040M
1600-1700	English	11985M 13855M
1700-1800	Arabic	11795D 12030M 12060SP
1700-1800	English	9850D 11510Ct 13855M
1700-1800	French	9745Ct 12040M
1800-1900	English	9745Ct 9850Ct 11510Y

1800-1900	Arabic	11795D 12030M 12060SP
1800-2000	French	11745SP 12000M 12040M 15465M
2000-2100	French	12040M 15455Kr

TO SOUTH AMERICA

0000-0100	Spanish	7200M 7300M 9665Ch 9830Kr 11510D
0100-0200	Spanish	7200M 7300M 9830Kr 9945D 11510D
2300-2400	Portuguese	7200M 7300M 11510D

TO NORTH AMERICA

0100-0200	English	7250Y 9665Ch 13775Vl 15425P
0200-0300	English	9480W 9665Ch 9860Va 13775Vl 15425P
0300-0400	English	9435P 9480W 9665Ch 9800Kr 9860Va 12065Ko 13775Vl 13635P
0400-0500	English	9435P 9665Ch 9800Kr 9860Va 13775Vl 13635P

\*=DRM

Sites:

Ch=Chisinau  
Ct=Chita  
D=Dushanbe  
Ir=Irkutsk  
M=Moscow  
Ka=Kaliningrad  
Kh=Khabarovsk  
Ko=Komsomolsk  
Kr=Krasnodar  
N=Novosibirsk  
P=Petropavlovsk  
Sa=Samara  
SP=St. Petersburg  
U=Ussurijsk  
Va=Vatican  
Vl=Vladivostok  
W=Wertachtal  
X=Xian  
Y=Yerevan

(April 15, Vadim Alexeew, VoR Russian world service, via Michael Bethge-D/WWDXC BC-DX TopNews)/(Never saw Ussurijsk site listed before - ed.)

Summer A-08 of **Radio Rossii** in Russian:

0400-0800	12070 MSK
0820-1300	13665 MSK
1320-1700	9470 MSK
1720-2100	7120 MSK

(DX-MIX, Bulgaria)

**SAIPAN KFBS A08 Program Schedule:**

0800-1415	Mandarin	11580
0900-1330	Russian	11650
1000-1030	Sasak	15580

1030-1130	Indonesian	15580	0130-0200	Telugu	9725DHA Su/Th/Fr
1230-1300	Madura	11850 Mo-We	0145-0200	various	9725DHA Mo/Tu/We/Sa
1230-1300	Gorontalo	11850 Th-Su			
1300-1400	Vietnamese	9920	0200-0230	Pashto	9725DHA
1330-1345	Tatar	11650 Mo	0200-0230	Urdu	12035DHA Mo-Sa
1330-1345	Kazakh	11650 Fr/Sa	0200-0300	Urdu	12035DHA Su
1330-1345	Uzbek	11650 Th	0230-0300	various	12035DHA Mo-Sa
1330-1345	Mari	11650 We	0230-0300	Dari	9725DHA
1330-1345	Udmurt	11650 Su/Tu	0800-0845	Arabic	1528MOS
1345-1400	Tatar	11650 Mo/Tu	1200-1230	Tibetan	15215DHA
1345-1400	Udmurt	11650 Su	1400-1415	Malayalam	12025DHA Mo-Sa
1345-1400	Kyrgyz	11650 Fr/Sa	1400-1430	English	12025DHA Su
1345-1400	Ossetic	11650 Th	1400-1445	Urdu	9500NVS
1345-1400	Chuvash	11650 We	1415-1430	various	12025DHA Mo-Sa
1400-1530	Russian	9465	1430-1445	Urdu	12025DHA
1530-1545	Ukrainian	9465 Tu	1430-1500	Hindi	9540TAC
1530-1545	Russian	9465 We-Mo	1430-1500	Pashto	9830ARM
1545-1600	Russian	9465 Su/We/Th/Sa	1445-1500	various	12025DHA Su-Tu
1545-1600	Ukrainian	9465 Mo/Tu/Fr	1445-1500	Kashmiri	12025DHA We-Sa
2230-2300	Vietnamese	12090	1445-1500	various	9500NVS
			1500-1530	Bangla	7370TAC
			1500-1530	Dari	9830ARM
			1515-1530	Baluchi	9840ARM Fr-Su
			1530-1545	Hazaragi	9830ARM
			1530-1545	Amharic	12125MEY
			1530-1600	Persian	9840ARM
			1545-1600	various	9830ARM
			1545-1600	Makonde	12125MEY
			1600-1630	Guragena	12125MEY Mo-We
			1600-1630	Amharic	12125MEY Th-Su
			1600-1630	Afar	11655ARM
			1630-1700	Amharic	9865DHA Th-Sa
			1630-1700	Tigrinya	9865DHA Su-We
			1630-1700	Amharic	12125MEY
			1700-1730	Orominya	6180DHA
			1700-1730	Somali	9865KIG
			1730-1757	Tigrinya	9865KIG
			1830-1900	French	7255MEY
			1900-1930	Arabic	7230WER 9550KIG
			1930-2030	Arabic	9550KIG
			2145-2215	Hassinya/Pulaar	11985ASC Th/Fr

(via Alokesh Gupta, New Delhi, dxldyg via DXLD)

**SERBIA A-08 schedule of International Radio Serbia:**

0000-0030	English	6185BIJ Mo-Sa
0100-0130	English	6185BIJ
1000-1300	Serbian	7200BEO
1300-1330	English	7200BEO
1330-1400	Serbian	7200BEO
1400-1430	Spanish	7200BEO
1430-1500	Arabic	7200BEO
1500-1530	Russian	7200BEO
1530-1600	French	7200BEO
1600-1630	German	7200BEO
1630-1645	Chinese	7200BEO
1645-1700	Albanian	7200BEO
1700-1715	Hungarian	7200BEO
1715-1730	Greek	7200BEO
1730-1800	Italian	7200BEO
1800-1830	Russian	6100BIJ 7200BEO
1830-1900	English	6100BIJ 7200BEO
1900-1930	Spanish	6100BIJ 7200BEO
1930-2000	Serbian	6100BIJ 7200BEO Su-Fr
1930-2030	Serbian	6100BIJ 7200BEO Sa
2000-2030	German	6100BIJ 7200BEO Su-Fr
2030-2100	French	6100BIJ 7200BEO
2100-2130	English	6100BIJ 7200BEO
2330-0030	Serbian	6185BIJ Su
2330-2400	Serbian	6185BIJ Mo-Sa

(DX-MIX, Bulgaria)

**SEYCHELLES [non] FEBA Radio Broadcast Schedule, Summer A08:**

0015-0030	Bangla	7375TAC
0030-0045	various	7375TAC Mo/Tu
0030-0045	Bangla	7375TAC Th-Sa
0030-0045	Hindi	7375TAC Su/We
0030-0100	Tamil	7225DHA
0045-0100	Hindi	7375TAC

**Sites:**

- ARM Armavir Russia
- ASC Ascension Island
- DHA Dhabayya
- KIG Kigali Rwanda
- MEY Meyerton S. Africa
- MOS Moosbrunn Austria
- MSK Moscow Russia
- NVS Novosibirsk Russia
- TAC Tashkent Uzbekistan
- WER Wertachtal Germany

(via Alokesh Gupta, India/DX Listening Digest/Hauser-OK)

**SOMALIA 7120.18 Radio Hargeisa (t),** Hargeisa, Somaliland, 1700-1730, Mar 24, talks in UNID language. There was a RTTY-station about 2 kHz above, making it difficult to get clear audio. Later when the RTTY signed off, the station played Horn of Afri-

ca-like music. Then, just before 1730 the huge carrier spoiled reception. Maybe my imagination, but there might have been a mention of Hargeisa during the speech. The tests might still be irregular. (Savolainen and Ritola in DXplorer). Nothing heard here on Mar 25 before or after CRI blocked the frequency \*1730-1827\* to Europe. (Petersen-DK/DSWCI DX News)

**SOUTH AFRICA (and NON) IRIN Radio** is now broadcasting news and information in Somali directly to listeners in Somalia and the Somali-speaking region.

Write at <feedback @ IRINnews.org> telling us where you are and if you can hear the program clearly, with any other comment.

Via Meyerton Sentech, South Africa site, language unknown:  
1730-1745 9665

(via Arnaldo Slaen-ARG, DXplorer Apr 5/Cumbre DX)

This is the UN's Integrated Regional Information Network, based in Nairobi. They have had a radio production service for quite a while, but as far as I know this just produced programs and relied on other stations to broadcast them. I think that this may be the first time they have hired SW transmitter air-time themselves. See <http://www.irinnews.org/radio.aspx> (Chris Greenway-UK/DX Listening Digest/hauser-OK)

SENTECH A08 transmissions from Meyerton

**AWR**

1700-1800	Swah/Masai	9600
1800-1830	English	3345
1800-1830	English	9610
1800-1830	English	3215
2000-2030	English	9655

**BBC**

0300-0330	Swahili	6050
0300-0400	English	6005
0300-0600	English	3255 6190
0400-0430	Swahili	9835
0400-0600	English	7120
0430-0530	Portuguese	3380 6145 7290 Mo-Fr
0500-0600	Kirundi	15400 Sa
0530-0600	Kirundi	15400 Su
0600-0700	English	6190 9860 11765
0700-0730	French	17695
0700-0800	English	6190 9860 17830
0800-1600	English	6190 9860
1330-1530	Swahili	11705 Sa
1500-1700	En/Sw/Kirun	7380
1600-2200	English	3255 6190
1700-1900	English	7380
1745-1800	Swahili	7230
1800-1830	French	5985 7345
2030-2100	Portuguese	3380 6135 7380 Mo-Fr

2100-2200	English	7120
2200-2300	English	6005

**Channel Africa**

0300-0400	English	3345 6105
0300-0400	Swahili	6120
0355-0500	English	3345
0400-0500	French	7390
0500-0600	English	7230 9735
0600-0700	English	7230 15255
0800-1200	English	9625
1200-1300	Chinyanja	9625
1300-1400	Siloli	9625
1400-1600	English	9625
1500-1600	English	15215
1500-1600	Swahili	15360
1600-1700	French	15235
1700-1800	English	15235
1900-2000	Portuguese	3345
2000-2200	English	3345

**CRI**

1500-1900	En/Chinese	6100
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**DW**

0500-0530	English	9825
1400-1500	Amharic	15410

**EDC**

0630-0700	Various	15660 Mo/We/Fr
1205-1235	Various	15140 Mo/Tu/Sa
1300-1330	Various	15325 Mo/We/Fr

**WYFR**

1900-2000	Swahili	5930
1900-2100	English	3230

**FEBA Radio**

1530-1700	Amharic	12125
1830-1900	French	7255

**Hirondelle Foundation**

0400-0600	Various	11690
1600-1700	French	11890

**IRIN Radio**

1730-1745	Unknown	9665
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**Radio France International**

0600-0700	Portuguese	11830
0700-0800	French	15170
1100-1200	French	17525
2000-2200	French	7160

**Radio Sonder Grense**

0000-0530	Afrikaans	3320
0530-0800	Afrikaans	7185
0800-1600	Afrikaans	9650
1600-2400	Afrikaans	3320

**SA Radio League**

0800-0900	English	7205 17570 Su
1900-2000	English	3215 Mo

**TWR**

0330-0345	Amharic	7215
0600-0615	English	11640 Sa/Su
0600-0645	English	11640 Mo-Fr
1557-1627	Kirundi	9675 Mo-Fr
1625-1655	Somali	9660 Su-Fr
1630-1800	various	9920 Mo-Th
1645-1730	various	9920 Sa
1645-1745	various	9920 Su
1645-1800	various	9920 Fr
1657-1712	Juba	9660 Mo-Fr
1718-1733	Yao	7265 Mo/We/Th/Sa
1718-1748	Yao	7265 Tu/Fr/Su
1830-1900	Fulfulde	9510 Th-Tu
1840-1925	French	9720 Su
1840-1940	Fr/Moore	9720 Mo/Tu/Th
1910-1940	Fr/Moore	9720 We
1925-1940	Moore	9720 Fr

**VOA**

1600-1630	Kirundi	11905
1700-1730	English	11835
1700-1800	Kurdish	11760
1800-2000	Port/French	7150
1830-2000	English	9885
1900-2000	Kurdish	9695
2000-2030	French	7150
2030-2100	Hausa	7150

(Kathy Otto-AFS, Sentech; via Alokesh Gupta, India)

**SRI LANKA** *Sri Lanka BC* new schedule. SLBC noted just now in Hindi from 1230 on 7190 11905 kHz. Must keep monitoring them for latest info.

0100-0330	English	6005 9770 15745
?? -0300	Hindi	7190 11905
0830-0930	Telugu	7190 11905
0930-1030	Malayalam	7190 11905
1030-1230	Tamil	7190 11905
1230-1533	Hindi	7190 11905
1600-??	Sinhala	11750

New ones in bold.

(Jose Jacob, India/DXIndia Apr 2/BC-DX/Bueschel-DE)

**SUDAN** According to info I received on 3 April from Persecution Project, 4750 *Radio Peace in South Sudan* has technical problems. They are either totally off or running very irregularly. They're trying to have things up and running in the near future. (Jari Savolainen, Finland/Cumbre DX)

**SWEDEN** Frequency change of *Radio Sweden* in various langs to ME from Apr.14:

1600-1630	Persian	Mo-We
1600-1630	Assyrian	Th/Fr
1600-1700		NF 11590 HB, ex 11540 as follows:
1630-1700	Kurdish	Mo-Fr

(DX-MIX, Bulgaria)

**UNITED KINGDOM** Frequency change for *BBC WS* in DRM mode:

0400-0500	NF 5875 KVI, ex 6195
0500-0700	6195 KVI

Additional frequencies for *BBC* in Arabic:

0400-0500	6195 SKN
1800-2000	6125 CYP


*BBC Darfur Salaam* in Arabic:

0500-0530	12015 CYP 13650 CYP
1700-1730	15515 CYP 17585 CYP

(DX-MIX, Bulgaria)

**UNITED STATES** A-08 *Radio Free Asia*:

0000-0030	Vietnamese	7520IRA 11850 11605TWN 13740SAI 15535VLD 15560TIN
0000-0100	Lao	15545TIN 15690IRA
0030-0130	Burmese	13820IRA 13865TIN 17835SAI
0100-0200	Uyghur	9350 9490LTU 11895UAE 11945UAE 17640TIN
0100-0300	Tibetan	9365KWT 11695UAE 11975WER 15225TIN 17730
0300-0400	Burmese	11605KWT/IRA 17830TIN
0300-0600	Mandarin	13760TIN 15130TIN 15635IRK 15680TIN 17615SAI 17880SAI 21550TIN 21690TIN
0600-0700	Mandarin	13760TIN 15165TIN 15635IRK 15680TIN 17615SAI 17880SAI 21550TIN
0600-0700	Tibetan	17510 17780KWT 21500TIN 21690UAE
1000-1100	Tibetan	15460LAM 17750KWT 21510KWT
1100-1200	Lao	9355SAI 15560IRA
1100-1200	Tibetan	7470 13830 15375UAE 17750KWT
1200-1400	Tibetan	7470 11590KWT 11605TIN 13830 15375UAE
1230-1330	Khmer	11870TIN 15525IRA
1230-1330	Burmese	9320IRA 9455TIN 13675TIN
1330-1400	Burmese	9320TIN 9475TIN 11540TIN
1400-1430	Burmese	9320TIN 11540TIN
1400-1500	Vietnamese	5855 9455SAI 9715TIN 11605TWN 11680 12140IRA
1400-1500	Cantonese	7280TIN 11595SAI
1500-1600	Korean	5870IRA 7210IRK 7490TIN
1500-1600	Mandarin	9455SAI 9905PAL 11540TIN 12005TIN 12025SAI 13675TIN 15495TIN

1500-1600	Tibetan	9370 11550KWT 11585TIN 11795UAE	2200-2300	Cantonese	9355SAI 11715TIN 11785TIN
1600-1700	Korean	5870TIN 7210IRK 7490IRA/TIN	2200-2300	Tibetan	5865TIN 7500TIN 9880LAM
1600-1700	Mandarin	9455SAI 9905PAL 11540TIN 11795 12025SAI 13675TIN 15530TIN	2230-2330	Khmer	7580TIN 13740IRA
1600-1700	Uyghur	9350IRA 9370 9555UAE 11750IRA	2300-0000	Mandarin	7540 11760TIN 11785TIN 15430TIN 15485SAI 15585TIN
1630-1730	Burmese	7505TIN 9305IRA	2300-0000	Tibetan	7470 7500KWT 9805UAE 9875TIN
1700-1800	Korean	5870TIN 7465TIN 9370IRA	2330-2400	Vietnamese	7525 11580 11605TWN 13740SAI 15535VLD 15560TIN
1700-1800	Mandarin	7260TIN 7280TIN 9355SAI 9455SAI 9540TIN 9905PAL 11540TIN 11795 13625TIN	(RFA website/Gordon Brown-UK, NWDXC April 4/BC-DX)		
1730-1830	Burmese	7505IRA 9300TIN	<b>VOA Radio Aap Ki Duniya</b> reintroduces SW service for Urdu:		
1800-1900	Korean	5870TIN 7210TIN 7465TIN	0100-0200	7145 IRA 11805 UDO	
1800-1900	Mandarin	7280TIN 7355TWN 9355SAI 9455SAI 9540TIN 9865TIN 11540SAI 11700 13625TIN	1400-1500	9580 KWT 15790 UDO	
1900-2000	Mandarin	7260TIN 7355TWN 9355SAI 9455SAI 9850TIN 9865TIN 9905PAL 11700 11785TIN 13625TIN 15510TIN	Additional transmissions of <b>WYFR Family Radio</b> via VT Communications:		
2000-2100	Mandarin	7260TIN 7355TWN 9355SAI 9455SAI 9850TIN 9905PAL 11700 11740TIN 11785TIN 13625TIN	1300-1400	English 17630 DHA 17715 DHA	
2100-2200	Korean	7460 9385TIN 9770TIN 12075SAI	1400-1500	English 17715 DHA	
2100-2200	Mandarin	7105TIN 7355TWN 9850TIN 9905PAL 11740TIN 11935TIN 13625TIN	1700-1900	Turkish 15760 WOF	
			(DX-MIX, Bulgaria)		
			<b>KTBN</b> appears to be history. Nothing on 7505 at 1350 UT check March 31, nor on 15590 at 1805. I suppose the QRT was at 0600 or 0700 UT March 31, as ambiguous info from station was that it would be at "midnight March 31" instead of UT April 1. BTW, they had been missing for a few days in a row more than once several months ago, and I bet these were temporary deliberate closures to assess whether anyone noticed and the SW station was worth keeping. Now we know the answer. Keep an ear, however on 15590, 7505, plus 7355 in case <b>WRNO</b> really reactivates in April. (Glenn Hauser, OK/DX Listening Digest) 		



# Pirate Radio Report

Chris Lobdell • P.O. Box 146 • Stoneham, MA 02180-0146 • crlobdell@verizon.net

Hello and welcome to the May 2008 edition of the *Pirate Radio Report*. Springtime conditions have arrived and static is on the rise. The good news is that the longer days are causing pirate signals to be heard longer in the evening before dropping MUFs cause fade-outs. Lots of activity during the past few weeks as well, including replays of Radio Metallica and UPMB.

Many thanks to the following fine folks who made this column possible. Mark Schiefelbien-MO, Joe Wood-TN, George Zeller-OH & The NASWA *Flashsheet*.

**TCS—The Crystal Ship** noted on 5385.5 AM from 2353-0152 on April 20<sup>th</sup>-21<sup>st</sup>. Program of rock music with some mx by The Doors, but over a dozen selections were various classic rock tunes by The Who. During the latter portion of the program they had their usual political commentary on issues of the day from a left wing perspective. OM IDs used their usual slogan of the V. of the Blue States Republic. IDs by a YL had a different slogan of "this is pirate radio." Announced a // xmtr on 6700 kHz, but 6700 produced little here other than a weak het. Fair to good signal on 5385.5, with some fading down at times. Gave Belfast address. [Zeller-OH]

**Radio Metallica Worldwide**, another blast from the past, was heard on 6925 kHz AM from 2235 until 2250 sign off on April 13<sup>th</sup>. Relay of the famous pirate. Thx to Mark T. for help with this one. It sounded like somebody was looping bits of RMWW and Dr. Tornado. Themes from "The Flintstones" and "Green Acres." "Secret Agent Man" playing in background. Mentions of Blue Ridge Summit, ID as "This is Radio Metallica Worldwide, 69-55 (sic) shortwave" and off with "Take care." [Wood-TN]

**Sycko Radio**, noted on 6925 USB, from 0049-0109. Sycko and Uncle Bob with music by Robert Plant, Kiss, and others. Several IDs. Most of the mx was unreadable as were Uncle Bob's comments. Sycko was coming in better. P-F. [Wood-TN]

**United Patriot Militia Bingo**, a blast from the past, was noted on 6925 AM at 2355-0049 sign off on April 7<sup>th</sup>. Bingo games being called amid parody sketches and clips from what I assume was the real (and defunct) United Patriot Radio, off at 0049. Solid signal. Good. [Schiefelbien-MO] UPMB was a parody of sorts of United Patriot Radio/KSMR, a station run by a militiaman Steve Anderson of KY. He was on the run from the police for a while but was finally captured.

**The Wave**, an apparent new one, heard on 6925 USB 2219-2242\* on April 19<sup>th</sup>. Program of rock mx such as "Ride Captain Ride," and new age music. Very weak signal. [Zeller-OH]

**Voice Of Hell**, logged on 6925 USB \*2158-2334\* on March 29<sup>th</sup>. It's been a long time since I heard this one, which apparently was last active in 1992 if am not mistaken considerable dire sounding instrumental music. Occasional talks over the music by an man. Multiple clear IDs. Mentioned QSLs but I did not copy an address. In the old days this one used to use the now defunct Fall River mail drop. [Zeller-OH].

**WHYP—The James Brownyard Memorial Station** heard on 6925 AM from 2315-2341 sign off on April 4<sup>th</sup>. The first log of Mr. Brownyard's station since Halloween 2005. James Brownyard and Uncle Schleckstein with IDs and a promise to return to the air soon. Music by Styx and an instrumental blues tune. Nice to hear this station again. (Wood-TN).

**Wolverine Radio**, heard on 6925 USB from 2302 to 2316 sign off on April 11<sup>th</sup>. Program of rock music w/Joe Walsh and other groups. Their ID still sounds like Long Range R. to me, but everybody else thinks that the guy is saying Wolverine R. So I will go along with the majority, although that is not what the ID sounds like. Heard no address. [Zeller-OH]

Happy Pirate DX!!



# QSL Report

Sam Barto • 78 Blakeman Road • Thomaston, CT 06787

**H R X K**

LA VOZ DE LA MOSQUITA

4710 KHZ

PUERTO LEMPIRA, HONDURAS  
CRISTO PARA TODOS

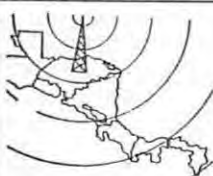
**AUSTRIA: Radio Austria International** 7325 p/d letter-card w/o site w/ picture of Saint Stephan's Cathedral in 12 ds. for an email rpt. (Wood-MA). **Adventist World Radio**

9660 via **Moosbrunn** p/d "Shortwave Coverage" cd. in 2201 ds. for \$2.00 and a long forgotten rpt. from 2002 sent to an AWR program address in Kenya. The QSL was mailed from South Africa. (Barbour-NH).

**BELGIUM: RTBF** 9970 f/d email QSL in 1 day for an email rpt to: rtbf@rtbf.be which noted that "We don't send QSL letters or cards anymore". v/s Priscille Cazin, Producer. (Schiefelbein-MO).

**BOLIVIA: Radio Universitaria** 4732 the station verified my email rpt. w/ a very nice Spanish language email reply from v/s CHARLY (Productor Creativo) in 13 ds. The station thanked me for my rpt. The rpt. was sent to and the reply was from: radiouap@hotmail.com (D'Angelo-PA).

**STATION NOTES: Radio Terra Verde** Maputo 7135 v/s Florentino Escova, Director. **Radio Nederlands** 9895 via **Flevoland** Addr: P.O. Box 222, NL-1200 JG Hilversum, Holland La Voix du Sahel / ORTN 9705 v/s M. Maraka Laouali, Technical Director of ORTN. **Federal Radio Corporation of Nigeria**. 7275 via **Abuja** v/s Ben Obeta, for Executive Director. Addr: Broadcasting House, P.O. Box 377, Gwagwalada / PMB 71, Garki, Abuja, Nigeria...via PLAY DX.



**RADIO "LUX" N. de R. L.**  
S. R. L. - 10 Avenue de la Gare - 1050 Brussels - Belgium  
RADIO LUZ - 1000 Watt de potencia  
SEÑALMENTE: TORO, HONDURAS, C. A.

Octubre 23 de 1975

Jr. Samuel L. Barto  
Veterstown, Conn.  
U.S.A. 06705

Estimada señor:

Muchas gracias por su reporte con fecha 9 de Septiembre de 1975

Su reporte es correcto para nuestros Estudios "Radio Luz" que labora en 4,900 Kc/s. con una banda de 50 metros.

Para mayores datos le informamos que nuestro transmisor "COLLINS" tiene 1.000 Watt de potencia.

Esperamos nos vuelva a reportar con cualquier dato, no contamos con tarjetas QSL, pero esta carta confirmando su reporte tiene igual validez.

Atentamente

*Samuel L. Barto*  
Abelardo del Valle Herrera  
Director  
OCTUBRE 1975

**BOTSWANA: Voice of America** 17895 f/d "50 Years of Broadcasting" cd. w/ calendar and a glossy 2008 program guide in 14 ds. (Wood-MA). 15580 same f/d cd. in 16 mos. for an email rpt. to: qsl@voa.gov after several direct rpts. to the site went unanswered. (Schiefelbein-MO).

**BRASIL: Radio Cancoá** Nova 9675 received a blank QSL cd. w/ accompanying ltr. which says "confirms your reception" in

# RADIO NAYLAMP E. I. R. L.



OBX - IM - OM 1580 KHZ  
 LA DIFERENTE via  
 Williamson  
 Av. Huamachuco 1080 - Telef 28-3353  
 LAMBAYEQUE - PERU

*Saluda a y agradece vuestra recepción y sintonía*

Día : 31.07.93

Hora : 04.40 PM a 05 PM.

Lugar : LEBANBOROUGH - ONTARIO

País : NOROCCIDENTAL AMERICA

Canada  
 DR. J. ...  
 GENEVA

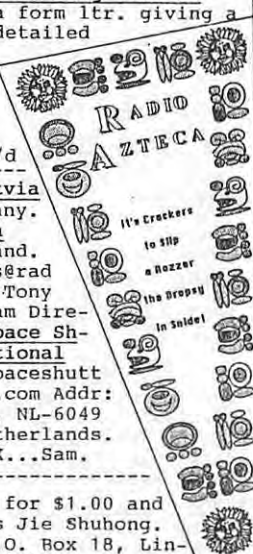
4 mos. for an EG rpt., CD and \$2.00. Also rcvcd. some PT religious tracts. (Schiefelbein-MO).  
**CANADA: CFVP 6030**  
 f/d ltr. in 2 wks for \$1.00. v/s Richard Luddick, Broadcast Engineer, who noted that "we do not know of any plans to shut down the station". (Schiefelbein-MO).

**CHINA, PEOPLES REPUBLIC OF: Voice of Jinling 5860**  
 p/d cd. in 1 mo.

for a rpt. emailed to the friendly v/s Liu Ruoyi. Addr: liuruoyi@hotmail.com (Schiefelbein-MO). **Xinjiang Peoples Broadcasting Station** 5060 f/d paper QSL cd. w/ red station stamp plus a form ltr. giving a brief station history and frequencies with more detailed frequency / program chart on the back all in CH. This in 6 wks. for an EG/CH rpt. and ms. (not used). I thought it was interesting that the station stamp on the QSL was in CH and Arabic script. (Schiefelbein-MO)...Lots of Muslims in that are of China...Sam. **BPM Time Station 5000 f/d**

**STATION NOTES: Radio Joystick 9290 via Ulbroka, Latvia**  
 Addr: Postfach 220342, DE-42373 Wuppertal, Germany.  
**Radio Six International 9290 via Ulbroka, Latvia**  
 Addr: RSI, P.O. Box 600, Glasgow G41 5SH, Scotland.

Email: letters@radiosix.com v/s Tony Currie, Program Director. **Radio Space Shuttle International**  
 9290 Email: spaceshuttle@radio@yahoo.com Addr: P.O. Box 2702, NL-6049 ZG Herten, Netherlands. ...via PLAY DX...Sam.



cd. in 2 mos. for \$1.00 and an EG rpt. v/s Jie Shuhong. Addr: NTSC, P.O. Box 18, Lintong, Shaanxi, China. Email: kyc@ntsc.ac.cn (Schiefelbein-MO). **China Huayi Broadcasting Company** 4830 f/d email QSL in 3 ds. for a rpt. emailed to their QSL Manager, Qiao Xiaoli, at: 2883752@163.com. A big thank you to Ron Howard for finding me this contact. (Schiefelbein-MO). **China Radio International** 11765 via **Urumqi** f/d cd. w/ site in 1 mo. for a rpt to: crifm@crienglish.com (Schiefelbein-MO). **Radio Canada International** 9880 via **Kunming** f/d "50th Anniversary" cd. in 2 wks. for a rpt. sent to their website. v/s Bill Westerhaven. (Schiefelbein-MO).

We are to verify your report on the reception of **RADIOMALAYSIA**

Mr./Mss. RICHARD A. D'ANGELO

Date: 2 JANUARY

Time UTC: 2203 - 2300

Frequency: 6310 MHz

Your report has been checked with our schedules and found to be correct.  
We would appreciate receiving further reports from you.

We use a 1 Kw modified Rohde & Schwarz transmitter with positive 125 % asymmetrical modulation.

21 JANUARY 2005

*V. Murray*

**Nei Menggu Peoples Broadcasting Station 9750** n/d QSL entirely in CH on a repurposed 2008 Olympics New Year Greeting cd. confirming that the CD I sent them was a recording of their transmission. This in 2 mos. for an EG/CH rpt. CD and \$1.00. (Schiefelbein-MO).

**DJIBOUTI: Radio Djibouti** 4780 photocopy of their QSL w/ f/d handwritten in 11 mos. for an EG/FR rpt. I sent the station a CD recording of the reception, Chicago winter postcards and \$1.00.

The QSL took 2 wks. to get from Djibouti to Chicago. Addr: B.P. 97, v/s Chef des Services Technique. (Mikell-IL). p/d form ltr. in 132 ds. for an EG rpt., \$1.00, 1 IRC and a local postcard. (Wood-TN). Country # 75 for me.

**ECUADOR: HCJB** 15275 f/d "Train / Bus" cd. in SP in 2 mos. for a rpt. to:

**STATION NOTES: Radio Maria** 26000 Email: ReClaudio@alma.it Addr: Radio Maria Tests DRM, C/o Ing. Claudio Re, Via Mazzini 15, IT-21020 Casciago (VA), Italy. WEB: [http://mediasuk.org/archive/radio\\_maria.html](http://mediasuk.org/archive/radio_maria.html) Station is testing and requests reception reports. **Radio Cultural Amauta** 4955 Addr: Jiron Cahulde n 278, Huanta, Ayacucho, Peru. v/s Pelagio Naupa Galvez, Administrador. Email: radioamauta@hotmail.com -also- radioamauta60@yahoo.

**SWR** →  
SÜDWESTRUNDFUNK

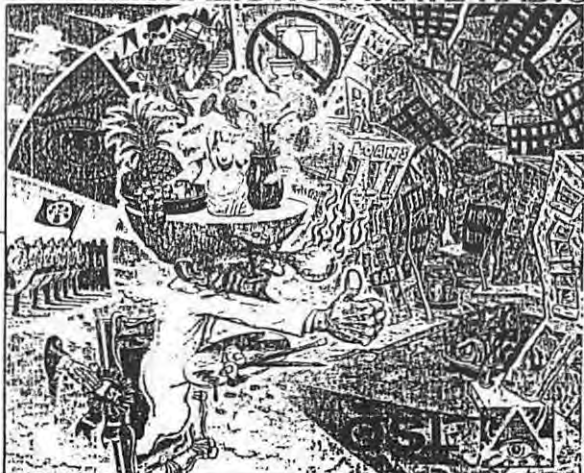
es **Radio del Pacifico** 4975 v/s Julio Villareal Cordoba, Director. Addr: Apartado 4236, Lima, Peru. **Radio La Hora** 4855.5 v/s Edmundo Montesinos, Gerente General. and Carlos Gamarra Moscoso, Director de Frecuencias. Email: adalidcusco@hotmail.com Addr: Avenida Garcilaso, 411, Wanchaq, Cusco, Peru...via PLAY DX.....Sam.

drm@hcjb.org.ec (Schiefelbein-MO). **HD2IOA** 3810 **Time Station** f/d cd. w/ ltr. in SP in 1 mo. for a SP rpt. and \$1.00. v/s Galo Garzon Lopez, Capitan de Navio - EM, Director del Instituto Oceanografico. The reply arrived via registered mail. (Schiefelbein-MO).

**ENGLAND: Radio Japan** 11780 via Woofferton f/d "Flying Kites" cd. in 2 wks. for a rpt. emailed to: nhkworld@nhk.jp (Schiefelbein-MO). **KBS World** 3955 via Skelton p/d cd w/o site in 41 ds. The cd. was of the 2 Korean Presidents at the 2007 Inter-Korean Summit. Kim Jong Il looked like he didn't want to be there. (Wood-MA).

**EUROPEAN RUSSIA: Voice of Russia** 9480 via Saint Petersburg

## EXISTENTIALISTIC PIRATE RADIO





**JSWC VERIFICATION CARD**

cording and \$1.00 which was returned. Addre: Avenue le Grand Boulevard, ZAD Moulin a Vent, 97354 Remire-Montjoly. v/s Herve Delannon, Responsable de Communication. (Schiefelbein-MO).

**GERMANY: Voice of America 9865 via Wertachtal** f/d "Satellites at Wertachtal" cd. in 2 mos. for an email rpt. (Schiefelbein-MO).

**HONDURAS: HRMI Radio Misiones Internacional** 3340 f/d cd. in 22 ds. for an EG rpt. and \$1.00, i IRC and a local postcard. Addr: Mr. Wayne Downs, Director. Apartado Postal 20583, Comayaguela, MDC, Honduras. The QSL reply came from International Missions Fellowship, P.O. Box 6321, San Bernadina, CA 92412 (Wood-TN).

**STATION NOTES: Radio Virgen de Los Remedios 4545** Email: radiovirgengermedios@hotmail.com Addr: Parroquia Nuestra Senora de la Candelaria (Misioneros Redentoristas), Tupiza, Bolivia. **Radio Yura 4717 v/s Omar Flores, Director.** Email: radioyura@hotmail.com **Radio Alvorada 4865** Addr: Rua Dom Bosco 145, Jardim Dom Bosco, CEP 86010-170 Londrina, Brasil. Email: alburanello@serco mtel.com.br v/s Alcindo Buranello, Gerente Administrativo. **Radio Aparecida 5035 v/s Cassiano Alves Macedo, QSL Manager DX Programs.** Addr: Avenida Getulio Vargas 185, CEP 12570-000 Aparecida, SP, Brasil...via PLAY DX...Sam.

f/d "Saint Petersburg Regional Center - Branch of RTV and BCN" cd. in 1866 ds. for 2 IRCs. This was for an April 2002 report to the old CRR-2 address. No f/up rpt. v/s Mikhail Timofeyev. New Addr: Saint Petersburg Regional Center, 3, ul. Akademika Pavlova St., Saint Petersburg 197022 Russia. (Barbour-NH).

**FRENCH GUIANA: RFO Guyane 15795** DRM via TDF **Montsinery n/d** ltr. w/ a glossy FR booklet about RFO, station stickers and an RFO tank top (!) in 1 mo. for an EG/FR rpt, CD re-

Address: B.P. 7013, F-973005Cayenne.

Japan Short Wave Club QSL No. 652

To: Mr. Mrs. Richard A. D'Amico

This is to confirm your reception report of our broadcast as follows.

Station: Radio Japan/HQSB/AWR

Program: Hello from Tokyo/DE-Barry/nd

Date: June 6, 2005 Time: 06:00 UTC/JST

Frequency: 11.985 MHz Language: English

(Brazilian)

Hope your continuous support of our activity.

Thanks for your participation in the program

Signature: *Yoshio Tsubota*

Japan Short Wave Club (JSWC)

P.O. Box 20, Sendai Central 980-3681, Japan

Printing by Mr. Kim Young-DUSWC 8636

**ISRAEL: Galei Zahal 6973 f/d "Microphone Man" cd.** in 2 mos. for an EG rpt., CD and \$1.00. The station asked me to try the 15785 kHz frequency. (Schiefelbein-MO)

**STAR radio**  
LIBERIA

In partnership with **Fondation Hirondelle**  
Media for Peace and Human Dignity

QSL for: *Richard A. D'Amico*

We are pleased to certify your reception of STAR radio, Liberia

Date: *16 July 2005*

Time: *21-22:30 UTC*

Frequency: *15785 kHz*

Signature: *Mr. Darcy Christian, STAR radio Program Officer*

STAR radio is a FM & SW network serving Liberia & the sub region of West Africa. It is operated in partnership with the Hirondelle Foundation - Media for Peace & Human Dignity, a non governmental organization of journalists based in Switzerland. STAR radio aims to contribute to the restoration of peace in the region by providing professional, independent & reliable information.

Hirondelle Foundation  
Rue traversiere 3  
CH-1018 Leussinne  
Switzerland



**Fondation Hirondelle**  
Media for Peace and Human Dignity

For more information: [www.hirondelle.org](http://www.hirondelle.org)  
[info@hirondelle.org](mailto:info@hirondelle.org)

**JAPAN: Radio Nikkei 9760 f/d**

"Thanks for your Report" cd. in 3 wks. for a CD and \$1.00. (Schiefelbein-MO)

**LAOS: Lao National Radio**

6130 email reply rcvd.

IRB-KUWAIT TRANSMITTING STATION



LETTER OF VERIFICATION

To SCOTT BARBOUR  
 Confirming your report on \_\_\_\_\_  
11825 kHz R75/MLB-1 Meters  
 Date 02/08/2004 Time 2132-2200 UTC  
 From GEORGE MILLER TX PRT SUPERVISOR

KUWAIT TRANSMITTING STATION  
 C/O AMERICAN EMBASSY - BAHAH  
 P.O. Box 77, SAFAT, 13001 KUWAIT

a postal f/up rpt. in 126 ds. v/s Inpanh Satchaphansy, Head of External Relations. He promised a postal reply after returning home from a workshop in Thailand. I put the email aside for over 2 yrs. while waiting for the postal reply that I'm still waiting for. I recently discovered this QSL while doing a little housekeeping in the DX shack. My verie signer is now the Director of Internet Services so I am not sure who should get the reports now at I.N.R. Anyway, it is always good to QSL a new country even if it takes over 2 years to do the bookkeeping. C/V #226. (D'Angelo-PA)

**LATVIA: Radio SWH / Latvia Today** 9290 p/d cd. w/ a handwritten note in 3 mos. for \$1.00. (Schiefelbein-MO).

**LITHUANIA: The Mighty KBC** 6255 via **Sitkuni** f/d-cd. in 1 mo. for a rpt. emailed to: info@k-po.com (Schiefelbein-MO)

**MONACO: Trans World Radio** 9800 f/d "TWR Europe" cd. in 2 mos. for \$1.00. v/s Beth Chick. Addr: P.O. Box 141, A-1235 Vienna, Austria (Schiefelbein).

**MOROCCO: Voice of America** 15580 f/d cd. of "Camels in front of the Transmitting Station" in 14 ds.



**LEBEN IM WILDALL**

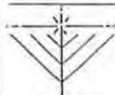
STATION NOTES: **Radio Merlin International** 6215

Email: radiomerlin@blueyonder.co.uk. **Mystery Radio** 6220 v/s Chris Ise Email: mysteryradio@googlemail.com. Onairam 6299 Addr: SRS Deutschland, Postfach 101145, D-99801 Eisenbach, Germany. **Radio Station Echo** 6300 Addr: Ranonkelstraat 36, NL-7906 PM Hoogeveen, Holland. **Radio Lowland** 6276 v/s Jos Takak. Email: radiolowland@hotmail.com. **Xinjiang Peoples Broadcasting Station** Addr: 84 Tuanjie Road, Urumqui, Xinjiang 830000, Peoples Republic of China. **Radio Black Bird** 6285 Email: blackbird@wanadoo.nl

**Radio Sonar** 6247 Email: radiosonar@hotmail.de  
**Radio Ramona** 6524 v/s John Vijver. Email: radiatoramona@hotmail.com...via PLAY DX.

RADIO EZRA

Radio Outreach Project of the World Karate Movement



PO Box 674  
 Stockton on Tees  
 TS18 3WR  
 UNITED KINGDOM

Blessed be Yahweh, the God of our fathers

QSL

To Richard A. D'Angelo Register 5/0301  
 Thank you for your reception report received via e-mail  
 I can confirm that you heard Radio Ezra as detailed below:  
 Broadcast dated Sunday 11th July 2004 @UTC 0900-0930  
 Frequency 17590 kHz Meter Band 15

Transmitter Power: 100 kilowatts  
 Type: HR 241.0  
 Transmitter Location: Krasnodar, Russia  
 Global Co-ordinates: 45N29/40E07  
 Azimuth: 284 degrees

Report confirmed by [Signature] John D. Hill (Station Owner)

w/ calendar and a VOA program guide. (Wood-MA).

**NORTHERN MARIANAS: Radio Free Asia** 9455 f/d cd. w/ site (!) "Year of the Rat" cd. in 1 wk. for a rpt to: techweb.rfa.org (Schiefelbein-MO).

**OMAN: BBC** 7105 via **Aseela** f/d ltr. direct from the site in 145 ds. v/s Afrah Al Orimi. My rpt. was sent to VT Merlin Communications. (D'Angelo-PA)





# RADIO NAYLAMP E. I. R. L.



OBX - IM - OM 1580 KHZ  
 1A DIFERENTE  
 Av. Huamachuco 1000 - Telef 20-3353  
 LAMPAYEQUE - PERU

*Saludo a y agradece nuestra recepción y sintonía*

Día : JUNIO 93

Hora : 6 am.

Lugar : BRISTOL - CONNECTICUT

País : USA

DR. I. A. GARCIA TORRES  
 OPERATOR

## EDITOR'S OFFER:

I can't believe the response from the offer last month when I said I was selling nearly 3,400 radio station items and memorabilia that I've collected over the past 50 years. Don't worry, for everyone who contacted me I will get back to you. Just to remind you there are mugs, pins, badges, pennants, key chains, patches, pens, magnets, hats, EKKO stamps, FDCs, lighters, pirate stuff, post-

Radio "WORLDWIDE"  
 DR. JOSE GUILLE 6R2

ers, razors, stickers/decals, records, stamps, etc. If you are interested in anything please drop me a line... Sam.

**VENEZUELA:** Radio Amazonas Internacional 4940 computer generated "Venezuela Amazonas" collage cd. w/ SP/EG ltrs. w/ Google Earth images of both our QTHs and transmitter location. The station apologized for the delay due to a computer crash where their QSL info is stored. This in 419 ds. for an EG rpt. and \$2.00. v/s Jorge Garcia Rangel. (Barbour-NH).

**YEMEN:** Radio Sana'a 9780 f/d email QSL in 1 mo. for a rpt.

and mp3 sound clip to: ali\_tashy@yahoo.com v/s Ali Tashy, Technical Department. (Schiefelbein-MO).

I hate empty white spaces but I don't know what else to put here except to say when was the last time we had a full 8 pages of material. Thank you one and all... Sam.



**STATION NOTES:** The Mighty KBC 6255 Addr: Argonstaat 6, NL-6718 WT, Ede, Netherlands. Email: kbc@planet.nl  
 Radio Tatras International 9290 Addr: P.O. Box 95, SK-058 01 Poprad, Slovakia. Email: info@rti.fm WYFR 7370 via Talata Volondry, Malagasy Republic Addr: Your Family Radio, 290 Hegenberger Dr., Oakland, CA 94621 Radio Free Asia 9355 Email: qsl@rfa.org Addr: Radio Free Asia, 2025 M Street N.W., Suite 300, Washington DC 20036 KEEP  
 Radio Educacion 6185 Addr: Angel Urraza N. 622, Colonia del Valle, Mexico D.F., C.P. 03100, Mexico... via PLAY DX... Sam.

YEA BABY... A FULL 8 PAGES OF THE QSL COLUMN.

*Till next time best of DX.*

*Sam*

**COMAS**  
 Radio  
 101.7 FM

*La única Mix full pilas!*

## On the Short Waves by Jerry Berg

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> Update, March 1, 2008—Under "Articles, Research, etc.," "Pot Pourri," more certificates, this time membership certificates from ACE (1983), ADXR (1983), ASWLC (1967 and 1970), the Australian DX Radio Club (1946), the British Short Wave League (1945), the International Round Table (1946), the Great Circle Shortwave Society (1987), the International Short Wave Club (1940), the International Short Wave League (1946 and 1956), the International DXers Alliance (IDA, 1935), and a charter establishing the Minnesota chapter of the IDA (1939). These originated with Bill Flynn, Roger Legge, Larry Lundberg, Sid Steele, and yours truly.

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> Update, March 15, 2008—Under "Articles, Research, etc.," "Pot Pourri," another group of membership cards and certificates. They are from NASWA (c. 1967), NNRC (1950s), New Zealand DX Club (1945), New Zealand DX Radio Assn. (1956), New Zealand Radio DX League (1960), Quixote Radio Club (1939), Union of Asian DXers (1980), Universal Radio DX Club (membership cards from the 1950s, and an "Official DX Listening Post" certificate), Victory Radio Club, and the VK-NZ SWL Card Exchange & Friendship Club (1939). These items are from the collections of Bill Flynn, Larry Lundberg, Roger Legge, and Jerry Berg.

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> Update, March 30, 2008—Under "Articles, Research, etc.," "Pot Pourri": For those who just can't get enough of certificates, here are some more. These originated with various magazines, and belonged to William F. Flynn, Richard E. Davis, Eugene S. Allen, Roger Legge, Jr., and Larry Lundberg, all of whom have gone on to that great DXpedition in the sky. The certificates are: (1) Two "official radio broadcast monitor" cards from Popular Electronics (1957 & 1960). Hank Bennett used to send these to contributors to his PE column. (2) One of many certificates of achievement offered by the Electronics Illustrated DX Club, which operated from 1961 into the 1970s. This one was issued in 1967 and was for 100 countries heard. The "club" existed solely for the purpose of issuing awards, and by 1965 over 2,000 had qualified and had their names listed in the magazine. The "club" had its own countries list, and a monthly column of loggings and news called "Notes from EI's DX Club." (3) An "Official Certificate of Verified International Reception," issued by Radio Digest magazine for the international medium wave tests which took place during International Radio Week, January 24-30, 1926. During the several such tests which took place during 1923-26, many U.S. and European stations stayed off the air at designated hours in order to give DXers on both sides of the ocean a better chance at long-distance reception. (4) An "Official DX Listening Post Certificate" issued in 1938 to contributors of Radio News. (5) A similar certificate issued in 1952 by Ken Boord to supporters of his Radio & Television News column. (6) A card issued to subscribers of the DX magazine, Radio Index (RADEX), circa the mid-1930s. (7) A charter establishing the "Minnesota Golden Gophers" chapter of the Radio Signal Survey League. It is undated, but the RSSL was a project of All-Wave Radio during the years 1937-38. And (8) a certificate issued by the RSSL in 1938 for verifying all continents. Note the foil seal in the lower right, and the crossing out of the "All-Wave Radio" designation. This certificate is from October 1938, two months after All-Wave Radio had been taken over by Radio News.

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> Update, April 19, 2008—Under "CPRV," "The QSL Gallery": I have been going through a large medium wave QSL collection donated to CPRV by Sidney R. Steele, who DXed from several locations around the U.S. What makes this collection unusual is the large span of years it covers—from 1931 to 2000, with an emphasis on the 30s through the 50s. I have scanned a number of the QSLs that caught my eye because of their design or content, and I have posted some of them this week, with more to come over the next two weeks. This week's (marked "New") are: CKOV, Kelowna, British Columbia, 1936; CJRC, Winnipeg, Manitoba, 1934; CJGX, Yorkton, Saskatchewan, 1934; WULA, Eufaula, Alabama, 1952; KBIG, Avalon, Catalina Island, California, 1956; KFOX, Long Beach, California (undated); KREG, Santa Ana, California, 1933; WQDX, Thomasville, Georgia, 1932; WTFI, Athens, Georgia, 1932; KSCJ, Sioux City, Iowa, 1934; KID, Idaho Falls, Idaho, 1933; KTFI, Twin Falls, Idaho, 1933; and WTRC, Elkhart, Indiana, 1934.

# Contributors' Page

Bob Montgomery • 4621 C Street • Philadelphia, PA 19120 • rmonty23@verizon.net

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

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The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA	TenTec RX-340 AOR AR-7030 100' LW
Scott BARBOUR, Intervale, NH	R8, R-75, MLB-1, 200' Beverage
Ray BAUERNHUBER, Whitestone, NY	FRG-100B, Eavesdropper T
Richard CUFF, Allentown, PA	no equipment listed
Rich D'ANGELO, Wyomissing, PA	TenTec R340, Lowe HF-150, DX Sloper
Mick DELMAGE, Sherwood Park, AB	Collins HF-2050 Ant: KLM Log Periodic
Gerry DEXTER, Lake Geneva, WI	NRD-515, NRD-545, etón E1
Jim EVANS, Germantown, TN	RX340, Drake R8B, 30 m wire
Bob FRASER, Belfast, ME	Sony ICF-2003 ICF-SW100S 2m LW
Glenn HAUSER, Enid, OK	FRG-7, DX-398, SW-07, ATS-909, YB400 lw
Ron HOWARD, Monterey, CA	NRD545, LW 160', etón E5
William MCGUIRE, Cheverly, MD	DX-380
Dale PARK, Honolulu, HI	Kenwood R-5000, Datong AD370 ant.
Richard PARKER, Pennsburg, PA	Collins 51S-1, 51-X, R390A, SE3, ant. farm
Sheryl PASZKIEWICZ, Manitowoc, WI	NRD345, AOR LA-350 loop
Mike RHODE, Columbus, OH	WinRadio G-313e, swl end fed sloper
Jim RONDA, Tulsa, OK	NRD-545, R75, etón E1, Eavesdropper
Mark SCHIEFELBEIN, Springfield, MO	Kenwood R-5000, Wellbrook 330S loop
Harold SELLERS, Stouffville, ONT	NRD-515, 200' long wire
Giovanni SERRA, Rome, ITALY	NRD-525 AD Sloper
Jerry STRAWMAN, Des Moines, IA	Perseus, R-8, 313e, 60 mtr dipole, mini whip
Mark TAYLOR, Madison, WI	R-75, Sat 800, EWE, Eavesdropper
David TURNICK, Reading, PA	NRD-545, 2010, Alpha Delta sloper
Joe WOOD, Gray, TN	DX-390, Grundig Mini 100 PE, whip antenna 

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## On the Short Waves by Jerry Berg

<[www.ontheshortwaves.com](http://www.ontheshortwaves.com)> Update, March 9, 2008—Under "CPRV," "QSL Gallery," a number of interesting QSLs from the 1930s from the collection of the late Conrad Routh of Atlantia, Georgia. They are (marked "New" in red): (1) A QSL for W6XKG, the shortwave (25,950 kc.), 24-hr. simulcast of KGfJ in Los Angeles. (2) A French-language letter from ZAA, Radio Tirana, from the days when it was broadcasting with 3 kw. (3) OER2, the shortwave broadcast transmitter of the Oesterreichischer Radioverkehrs. (4) An informal QSL letter for a Canadian DX Relay pirate transmitter on 6000 kc. (CDXR was a Canadian radio club.) (5) A 1937 QSL-card from EAJ43, Radio Club Tenerife, the Canary Islands. (6) PJC1, CUROM, the Curacao broadcasting station. (Other QSLs from CUROM and Radio Club Tenerife are posted in the "CPRV QSL Gallery.") (7) A QSL-letter from Delhi, India, for VUD3, 15160 kc. (8) Radio Martinique, 200 watts, 9700 kc. (9) A QSL-card from Radio Centre, Moscow, commemorating the Soviet non-stop, trans-Arctic flight from Moscow to Vancouver in 1937. And (10) a three-page, handwritten letter confirming reception of the Taihoku Broadcasting Station, Taiwan, operating on 9636 and 10535 kc. For more on this station, search for "Postcards" under "Articles, Research, etc.," "Pot Pourri," on this website.

# Tropical Band Loggings

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

- 2310 **AUSTRALIA VL8A** Alice Springs 0910-1030 Musical asrtment of old standards; 3/23. (Wilkner-FL) 1200 Interview in EE w/ W singer; featured of her songs;1205 ID; f-g; ; //2310 p-f; 4/13. (Taylor-WI)
- 2325 **AUSTRALIA VL8T** Tennant Creek 1045-1105 Sports cmentry; weak but readable; weaker on //2310 Alice Springs & // 2485 Katherine; 3/22. (Alexander-PA) 1950-2006 M & W w/ unclear chat; pop song; nx read by M; mx & tlk ment. Australia; QRN statics; exceptional listening considering my AD sloper antenna is not for 120mt band; p-vp; 4/1. (Serra-Italy)
- 2980 **UNIDENTIFIED** 0430-0500 Definitely some sort of LS stn; SS nx; jingles, ancments by M & W; would think this was a harmonic (2 x 1490 kHz) were it not for it's good sig strength & the prescence of some rather ineffective jamming; which consisted of a carrier swinging back & fortnight across 2980 kHz; best guess is this came out of Cuba; fair; 3/9.(Burlew-PA) 0530 Spent several hours listening to this SS prgrming str; M & W chatting b/w mx at 0530; at 0550 a very long winded M ranted on past the hour; returned to mx prg past 0620; deep fades; v. weak at times & v. readable at times; will have to go over the tapes to find any clues; last seen this freq rpted by the late Bjorn Malm as Radio Pampa Colombia; harmonic of 1490 kHz; in DXLD July 2003; 3/23. (Delmage & D. Moman-Alberta) 0550 Occasional traces of mx surfaced above the high local noise level; that's all; as reported by the Albertans; 3/25. (Hauser-OK)
- 3172.90 **PERU R. Municipal** Panoa 1010-1020 This the first solid log in a while; off at 1025 recheck; txmitter issues? Has been off most of April; 4/12. (Wilkner-FL)
- 3175.51 **UNIDENTIFIED** 0900-0920 Threshold audio while looking for the absent R. Municipal Panoa; noted 2/8 but not 3/19; weak; 3/19. (Wilkner-FL)
- 3200.06-37h **COLOMBIA Colombia Mía** 0950-1100 (P); Alternating M & W; f/out; 3/28. (Wilkner-FL) 1045 Flauta andina but not heard again; txmitter drift; fade pattern consistent w/ Colombia; per Chuck Bolland original tip; 3/29. (Wilkner-FL) 3200.14v Harmonic seems weaker this week than last; several S. Florida DXers, notably C. Bolland, reporting this; 4/12. (Wilkner-FL)
- 3220 **ECUADOR HCJB** Pifo 1049 M w/ talk in Quecha; rustic hiland vocals; good; 3/9. (Brown-MO) 1027-1033 M ancr in Quecha & fast paced mx; 50dB signal; exc; 3/27. (Parker-PA) 0900-1100 Continues daily to be the strongest signal on 90m; 3/29. (Wilkner-FL) 1000-1020 Each morning w/ incredible sig strength; same as local FM; in lang but numerous ments de Jesu Cristo; synchro lock w/ R8 & NRD 535B; 4/10. (Wilkner-FL) 1055 Fair at t/in w/ lively Andean mx; ancments in Quechua at 1100; peaking to good at 1110; poor by 1120; 4/13. (Ronda-OK)
- 3225 **PNG R. Bougainville** Buka 1216-1230 (P); M in Tok Pisin; possibly joined by second M; relg sounding mx; have been hearing a carrier on this freq for the past week; but no extractable audio until today; v.poor signal w/ fading; 3/16. (Evans-TN)
- 3230.1 **ECUADOR R. Sol de los Andes** Juliaca 0100 (P); SS hymns; poor; 3/23. (Brown-MO)
- 3234.9 **PERU R. Luz y Sonido** Huánuco 0950-1050 Fair signal; often w/ exotic Peruvian mx; 3/28 & most days this month. (Wilkner-FL) 1022-1025 M w/ discussion of mx; 4/12. (Wilkner-FL)
- 3235 **PNG R. West New Britain** 1238 Noted w/ talk in dialect; poor; buried in the noise; 3/8. (Brown-MO) 1202 W DJ w/ the standard PNG mix of pop & island mx interspersed w/ cmentry in (P) Tok Pisin b/w most every song; fading quickly after 1230 but just barely audible enough to catch presumed closing ancment; NA & off at 1300; fair at peak; 3/19. (Schiefelbein-MO)
- 3240 **SWAZILAND TWR** \*0256-0315 Hand bell IS w/ several EE IDs by M ("This is Trans World Radio, Swaziland") w/ Shona lang prg opening at 0300; fair w/ intermittent UTE QRMS; 3/22. (D'Angelo-PA)
- 3249 **HONDURAS HRCR P. Luz y Vida** 0110 SS dedications over mx; 3/8. (Brown-MO) 0325 Better than Missones-3340; 3/30. (Dexter-WI) 3250 0125-0145 Mx & various discussions in SS; poor; 3/21. (Turnick-PA) 3250.05 0350-0359\* T/in to US produced EE relg prgrming; EE closing ancments at 0355 w/ "HRCR-Radio Light & Life" IDs & address for rpts; s/off w/ "The Old Rugged Cross"; f-g; EE sked for UTC Sundays & Mondays only; 3/24. (Alexander-PA)
- 3254.87 **BRAZIL R. Educadora 6 de Agosto** Xapuri 0920; 0950 M in PP; 3/23. (Wilkner-FL)
- 3261s **COSTA RICA R. Exterior de Espana** 0320-0335 After seeing tip at NASWA Yahoo group I tuned in to see what could have been operating here in either PP or SS; time pips at 0330 & SS lang had me check //3350 where I noted REE from Costa Rica; obviously, someone's txmitter is leaking a signal; poor; 3/22. (D'Angelo-PA) 3261.03 & 3438.97 \*0159-0215 Opening SS ID ancments & into SS talk; spurs from 3350; b/w each freq there is a 88.97 kHz separation; 3261.03-weak; 3438.97-barely audible; tnx to Rich D'Angelo for IDing the 3261.03 spur; 3/23. (Alexander-PA)

- 3275 PNG R. *Southern Highlands* Mendi 1219-1230 (P); Slow relg sounding mx followed by W talk in Tok Pisin; poor signal at noise threshold in generally good PNG reception condx; 3/16. (Evans-TN)
- 3279 ECUADOR *LV del Napo* Tena 0620 Relgi talk & mx; had a GG sound to some tunes; vg; 3/22. (Delmage-Alberta) 0455-0502 Orchestral mx followed by a march & ballad; ID at ToH; fair; [date?-ed.] (Wood-TN) 3279.6 0930 Not yet s/on; 4/15. (Wilkner-FL) 3279.86 1025 Noted w/ strong sig; 4/12. (Wilkner-FL) 3279.9 1051 M ancr in SS b/w mx; R. Maria jingle; 3/9. (Brown-MO)
- 3280 CHINA V. of *Pujiang* 1240 M & W w/ CC talk; poor; //4950 fair; 3/8. (Brown-MO) 1215 Briefly f/up out of the noise for about 10 minutes w/ a W ancr in Mandarin w/ short mx bridges b/w segments; //4950 just barely audible; 5075 not at all; fair at peak; 3/24. (Schiefelbein-MO)
- 3290 PNG R. *Central* Boroko 1139-1200\* Yet another W presenter w/ island tunes; though much more restrained w/the chat than her counterpart at West New Britain; s/off at 1200 w/ NA; this station's usually quite weak & buried under a strong carrier around 3288 but was fairly listenable here today; at least in USB; p-f; 3/20. (Schiefelbein-MO) 0930-0940 Good audio followed by rapid fade; 3/23. (Wilkner-FL)
- 3309.94 BOLIVIA R. *Mosoj Chaski* Cochabamba 1000-1020 Exotic mx; fair 4/12. (Wilkner-FL) 0015 SS in this segment; guitar & flute mx; ID at 0022 & (T) ID at 0030; f-p; 3/21. (Ronda-OK) 3310 1054 (P); Threshold dialect; 3/9. (Brown-MO) 0220 (P); Unaccompanied singing by W; into talk in Quechua at 0228; short mx selection & gone by 0231; poor; 4/13. (Ronda-OK)
- 3315 PNG R. *Manus* Lorengau 1247 Local mx; good at ToH; /8. (Brown-MO) [UTC?-ed.] Local mx; IS at ToH into M w/ nx in Tok Pisin; exc; //3335 fair; //3320 [3325?-ed.] audible; 3/16. (Brown-MO) 1210-1235 This time a M ancr b/w the tunes w/ a break for a couple of ads at 1231; at least one clearly in EE & for a business in Port Moresby (so this may have been a relay of the nat'l network & not a local bc); fair; 3/20. (Schiefelbein-MO) 0930-0940 Good audio followed by rapid fade; 3/23. (Wilkner-FL) 1229 (P); Ancrs in Tok Pisin w/ short musical selections; high voiced M & W singer w/ W ancr over intro; EE words to songs; poor; 4/13. (Taylor-WI)
- 3320 S. AFRICA R. *Sondergrense* Meyerton 0327 Europop mx & intermittent ute QRM; good; 3/8. (Brown-MO) 0115 Talk in Afrikaans & soft pop tunes; vg; 3/23. (Delmage-Alberta) 0322 Brief semi-classical numbers; M in Afrikaans; fair; 3/30. (Dexter-WI)
- 3325 INDONESIA *RRI Palangkaraya* 1204-1223 Two stations of approx. equal strength were noted on this freq; one w/ talk in Bahasa; the other w/ talk in what appeared to be Tok Pisin; one is assumed to be RRI Palangkaraya & the other R. Bougainville-PNG; both sig's were weak but readable; neither made the expected change to mx; both were audible w/ fading until the final plunge below noise level at 1223; 3/21. (Evans-TN)
- 3329.53 PERU *Ondas del Huallaga* Huánuco 1000-1030 Exotic Peruvian mx "...cinco cinco seise...en estudio ...Ondas del Huallaga...Buenas Dias..."; 1105 faded out; IF notch & LSB for CHU-3330; 3/28. (Wilkner-FL) 3329.69 1045 Seems to s/on at different times & not observed every day; 4/5. (Wilkner-FL) 1020 Good signal; IF notch helpful; 4/15. (Wilkner-FL) 3330.4 1111 Lively mx under 3330 CHU; good; 3/9. (Brown-MO)
- 3334.9 PNG R. *East Sepik* 1222 Evangelical-like talk by M in Tok Pisin; ute QRM; fair; 3/2. (Brown-MO) 1240 (P); Choral mx; instrumental selections w/ guitar & drums; sudden peaks to fair; peak at 1245 w/ M singing & W talk; peak at 1254-55 w/ talk in EE; gone by 1257; poor; 3/20. (Ronda-OK) 3335 1248 Island mx w/ good audio; fair; 3/8. (Brown-MO)
- 3340 HONDURAS *HRMI* Comayagüela 1128 SS relg mx; vg; 3/1. (Brown-MO) 0503-0543 M preaching in EE w/ W translating phrase by phrase into SS; several asides by M to W indicating they had worked together many times; poor; 3/19. (Wood-TN) 0532 Once again w/ open carrier instead of HRMI prgrming; 3/20. (Hauser-OK) 0527-0530 (P) HRMI again w/ open carrier; Wake up! 3/22. (Hauser-OK) 0920-0930 Txmitter on but no audio; economic recession must not be affecting this station [lol-ed.]; 3/28. (Wilkner-FL) 0532-0550 EE relg sermon w/ SS translations; p-f in t-storm static; 3/29. (Alexander-PA)
- 3344.85 INDONESIA *RRI Ternate* 1201-1230 A collision of weak signals on/around 3345 this morning; station w/ talk in Bahasa on 3344.85 Ternate mixing w/ talk in Tok Pisin from R. Northern PNG on 3345; Ternate's signal was weaker most of the time but occasionally peaked equal to that of R. Northern; similar situation noted on 3325; 3/21. (Evans-TN) 3345 1156 (P); Series of (P) ancmnts separated by musical bumpers; studio audio lower than recorded audio; poor; 4/19. (Strawman-IA)
- 3345 PNG R. *Northern* Popendetta 1153 Pop/island mx to (P) s/off ancmnt in Tok Pisin; anthem & then switched to the national feed w/ IS & M ancr w/ (P) nx in EE; no sign of RRI Ternate; mostly poor; 4/9. (Schiefelbein-MO)
- 3365 PNG R. *Milne Bay* Alotau 1205-1220 (T); Carrier w/ weak audio poking out of the noise for about 15 minutes before fading down; (P) Milne Bay; if so they may be recently back on the air as there's been no trace at all of them here in the past several months; even on days of above average PNG reception; 4/9. (Schiefelbein-MO)
- 3385 PNG R. *East New Britain* 1044-1124 Surprisingly decent sig w/ what appeared to be a mx request prg; M ancr in Tok Pisin; taking listener calls; callers audio noticeably weaker than


- ancrs; b/w vern. & EG ballads; mentions of Rabual & several "...FM" IDs tho could never catch the word prior to FM; p-f; peaking at ToH; barely audible at t/out; 3/22. (Barbour-NH) 1147 Discussion b/w two M in EE; poor but readable; 3/22. (Ronda-OK) 1210 The usual PNG format of pop/island/reggae tunes w/ ancr cmentry b/w & a break for an apparent ad at one point; this segment of 90m is usually covered by some sort of persistent local QRN which was finally gone for once; f-p; 3/28. (Schieffelbein-MO)
- 3390.7v UNIDENTIFIED 1100-1124 Open carrier; [(P) R.Emisora Camargo-Bolivia-ed.]; 3/15, 18 & 23. (Wilkner-FL)
- 3396 ZIMBABWE ZBC Gweru 0240 (P); Am not often monitoring 90m at this hour so maybe not unusual; & strangely enough my hi lcl noise lvl is currently not so bad on 90 as it is on shorter wavelengths; scan of the band w/ undermodulated mx on 3396 so what could it be but ZBC?; 3320 S. Africa was quite a bit better; 3/30. (Hauser-OK) 0318 (P); Barely discernable in noise; 3/30. (Dexter-WI)
- 3560 N. KOREA V. of Korea Kujang 1308 (P); W ancr w/ KK talk; poor w/ prop QRN; 3/8. (Brown-MO)
- 3810 ECUADOR HD210A Guayaquil 0621 Time stn ancmnts in SS & pips popping up b/w heavy static; poor; 4/12. (Wood-TN)
- 3905 PNG R. New Ireland Kavieng 1226-1236 Island pop mx w/ short ancmnts by W in (P) Tok Pisin; moderate signal (SINPO 32333); the only PNG w/ a decent signal this morning; 3/17. (Evans-TN) 1153 Western pop mx w/ usual AOR chatter; 3/29. (Brown-MO) [UTC?-ed.] An all-reggae/island mx show w/ M ancr; break near ToH for nx in Tok Pisin; almost intelligible to an EE speaking ear but not quite; back to mx; f-g; but marred by lots of storm QRN; 4/8. (Schieffelbein-MO)
- 3925 JAPAN R. Nikkei 1312 Radio drama in JJ; good; 3/8. (Brown-MO) 1119 Traditional choral mx in JJ; vg; //6055 fair; 3/29. (Ronda-OK) [UTC?-ed.] Short jazz instrumentals w/ W ancmnts b/w; p-f w/ some ARO interference; 3/29. (Strawman-IA)
- 3950 CHINA Xinjiang PBS Urumqi 2357-0003 Pops; lcl song; time pips & W w/ ID in CC; ancmnt ment. Tung quo; brief pop song into (P) nx; f-g; 3/21. (Serra-Italy)
- 3976 KALIMANTAN RRI Pontianak 1357 Soft pop tunes; short IS at 1359:50; lcl RRI Pontianak ID at 1400 then into nx; fair; 3/22. (Delmage-Alberta) 1046-1056 Anacr w/ Indo talk b/w brief musical bits & Ko'ran-like chanting; p-f; buried under LSB chatter by t/out; appeared to be //3395 RRI Kendari at t/in; weak under ARO's; 3/27. (Barbour-NH) 1155 M ancr w/ Indo talk b/w mx; SCI at ToH into Jakarta nx; 3/29. (Brown-MO) 1159 Semi classical instrumental mx through ToH; weak sig sometimes under HRO splatter & t-storm crashes; p-f; 3/29. (Strawman-IA) 1227 EZL orchestral mx; as expected some ARO QRM; fair; 3/29. (Ronda-OK)
- 3984.9 CROATIA Hrvatski Radio 0320-0352 Light pop vocals until ID at 0330 & mx w/ M ancr in Croatian at 0330; apparent SS nx & ID at 0340; another ID at 0348 by M & then W who gave freq and be targets; pop vocals from 0350; fair & //7285 Germany was vg; 3/20. (D'Angelo-PA) 3984.87 2316-2330 Nx re Serbia & Kosovo in EE; sports & wx; SW; MW; satellite skeds & Croatian Radio-Voice of Croatia ID at 2320; ballads in (P) Croatian until SS svc at 2330; good; 3/22. (Barbour-NH) 3985 0055 Talk in Croatian; 0058 song; 0100 time tones; ID; continued in Croatian; poor; //9925 Germany; good; 4/5. (Sellers-Ottawa) 0200 Nx in EE; fair; //9925 Germany; fair (Sellers-Ottawa)
- 3987 IRIAN JAYA RRI Manokwari 1257 Indo mx & SCI at ToH w/ ARO slop; M w/ nx; fair at t/in; 2/28. (Brown-MO) 1425 Soft pop tunes; s/off ancmnt at 1452; good; 3/22. (Delmage-Alberta) 1235 Very weak pop mx nearly covered by ham radio splatter; 3/23. (Strawman-IA) 1202 Presumed nx prg; audio was a bit muddy; seemed //3995 Kendari; 4604 Serui & 4790 Fak Fak which were all audible; Serui best of the lot; 3/29. (Strawman-IA) 1126 W in Indonesian; wide variety of mx from rock to soft ballads; ID at 1159 & into (P) nx by M & W; still fair at 1214 recheck; fair; 3/29. (Ronda-OK) 3987.05 1244-1249 Indo pop mx; talk by W at 1249; poor (SINPO 23222); 3/19. (Evans-TN)
- 3995.04 SULAWESI RRI Kendari 1244-1249 Indo pop mx; talk by M at 1249; poor w/ heavy ARO interference (SINPO 22222); 3/19. (Evans-TN) 3995 1201 Nx; //3976; good; 3/29. (Brown-MO) 1204 Prg //3987 w/ (P) nx; poor w/ lots of ARO QRM; 3/29. (Ronda-OK)
- 4052.45 GUATEMALA R. Verdad Chiquimula 1010 Vocal NA caught at (P) s/on but w/ very weak signal; 3/28. (Wilkner-FL) 4052.5 0245-0250 M ancr in SS & slow instrumental mx; exc 50dB signal; 3/19. (Parker-PA) 0455-0457 M ancr in SS; harmony vocals & enormous 80dB sig; 3/25. (Parker-PA) 0325 SS relg prgrmng & IDs thru-out; noted EE relg prgs at 0415; f-g; 3/23. (Delmage-Alberta)
- 4111.59 BOLIVIA R. Virgen de los Remedios 0010 Noted w/ weak signal; 3/21. (Wilkner-FL) 2340 & 1050 Again w/ weak signal; 3/22. (Wilkner-FL)
- 4319U DIEGO GARCIA AFN 2306-2320 (P); Two M in EE re politics & the Olympics; several mentions of '68 Mexico City Olympics; overtaken by rapidly pulsating QRN at 2320; poor; 4/10. (Barbour-NH)
- 4330 CHINA Xinjiang PBS Urumqi 1214-1220 Classical mx w/ regional flair; vg; 3/23. (Brown-MO)
- 4409.87 BOLIVIA R. Eco Reyes 0049-0100 Poor sig w/ ute QRN; best in LSB; 4/12. (Wilkner-FL)
- 4440s USA WSRC Fair Bluff NC 0350-0555 Strong spur in EE of their 1480 sig w/ very enjoyable old time radio dramas; heard The Shadow; complete w/ original Lipton Tea spots; Johnny Dollar; ads for Story from the Story Lady; Princess & the Pea, various others; M ancr w/ WSRC 1480 ID at 0420;

- 0452 & 0555; into The Blue Bluegrass mx prg at 0457; only traces of their fundamental were audible here as I don't have a MW loop to reject QRM; I planned on doing a bit more DXing this evening; but I couldn't stop listening to this stn; for me it just doesn't get any better than old time radio dramas & Bluegrass mx!; Outstanding sig; 70dB & full quieting at times; 4/3. (Parker-PA)
- 4451.5 **BOLIVIA R. Santa Ana** Santa Ana de Yacuma 1030-1040 M w/ SS talk; also 4796 in well; 3/22. (Wilkner-FL)
- 4500 **CHINA Xinjiang PBS** Urumqui 1213 Mongolian svc w/ opera-like mx; //6190; 3/29. (Brown-MO)
- 4604.95 **IRIAN JAYA RRI Serui** 1246-1250 Talk by W in Bahasa; poor but readable signal (SINPO 24222); 3/19. (Evans-TN) 4605 1214 Soft vocal mx; poor; 3/22. (Ronda-OK) 1455 Soft pop tunes to ID & s/off at 1502:30; good; 3/23. (Delmage-Alberta) 1105 Talk in Indo & into soft vocal selections; poor; 3/29. (Ronda-OK) 4605 1220 M & W in extended Indo tlk; reached good S6 on peaks; 4/20. (Strawman-IA)
- 4699v **BOLIVIA R. San Miguel** Riberalta 1032 TC for 1030; running two minutes slow; seems to s/on earlier than other 60m Bolivians; good; 4/14. (Wilkner-FL) 4699.32 0025 Social talks in SS; fair; 4/15. (Bernardini-Italy)
- 4716.19 **BOLIVIA R. Yura** Yura 0930 On the air a half hour early; unusual for R. Yura. (Wilkner-FL) 4716.6 0220\*0228 Contemporary altiplano mx w/ M anc in SS; 0228 f/out; tnx to D. Jensen for the tip; fair; 4/13. (Taylor-WI) 4716.62 \*1012 Suddenly on w/ flauta andina; M & usual W w/ attractive radio voice; strong signal; s/on seems to vary from 1000 to 1015 in April; 4/10. (Wilkner-FL) 4716.68 0050-0115 SS talk; wide variety of SS pops/ballads; rustic lcl mx; weak; 3/17. (Alexander-PA) 0103-0120 Ancr w/ SS mx & talk; weak; just about even w/ noise floor; 4/11. (Barbour-NH) 4716.69 0135-0153\* SS ballads; some Bolivian mx; SS ancments; ID at 0151; reception much better than usual; f-g; 4/20. (Alexander-PA)
- 4732 **BOLIVIA R. Universitaria** Cobja Pando 0050 Off last fortnight; RTTY "...RYRYRYRY. ..."; this one has a history of returning from time to time; no RTTY on 4732 in the local morning from 0900 to 1100. (Wilkner-FL)
- 4746.84 **PERU R. Huanta 2000** Huanta Ayacucho 1015 The one noted here; not on every morning; 4/14. (Wilkner-FL)
- 4759.97 **LIBERIA ELWA** Monrovia 0556-0610 T/in to IS; opening EE ID ancments at 0557; EE relg sermon & mx at 0601; surprisingly strong IS punching in but everything after suffered from low/weak modulation; 3/28. (Alexander-PA) 4760 2256-2302\* M & deep-voiced M anc in EE; anthem at ToH; fair; 20dB sig but audio couldn't overcome poor band condxns & strong CODAR greatly diminished it; 3/10. (Parker-PA)
- 4760 **LIBERIA ELWA** \*0556-0603 IS at 0556 followed by M in (P) EE at 0558; v. weak w/ low audio & brutal CODAR interference; fortunately IS provided the ID; haven't heard them since January; 4/2. (Evans-TN)
- 4770 **NIGERIA R. Nigeria Kaduna** 0447 Afropop songs & studio chatter in EE; fair; 3/18. (Ronda-OK) 0532-0544 US pop mx including numbers by Tina Turner; fair; 3/21. (Wood-TN) 0640-0646 (P); M & W in EE; in the clear but sig extremely weak; 3/25. (Parker-PA)
- 4775 **PERU R. Tarma** 0250-0255 M anc in SS & slow ballad, 10dB signal; fair; 3/19. (Parker-PA) 1009-1036 (P); Presumed Catholic Mass w/ SS preacher; choral mx & chanting prayers like one hears on R. Vaticana; traditional SS mx at 1027 & SS version of "Battle Hymn of the Republic" at 1033 which I have heard before via this station; back to preaching at t/out; poor under CODAR; just strong enough to mar reception; 3/23. (Barbour-NH)
- 4775 **SWAZILAND TWR** Mpanzela Ranch 0340-0345 M anc in EE w/ ID at tune-in; aboriginal mx w/ group vocals; 50dB signal; exc; 4/3. (Parker-PA) 0348-0356\* M anc preaching in Lomwe lang; familiar IS at 0358 close; fair; 4/16. (D'Angelo-PA)
- 4777 **GABON RTV Gabonaise** Libreville 0520-0528 W w/ ID & ancments in FF; dead air for about one minute & back into patter & Afropop; good; 3/21. (Wood-TN) 0635-0642 W anc in FF; weak & CODAR QRM made it barely audible; 3/25. (Parker-PA) \*0458-0510 S/on w/ NA; opening FF ID ancments at 0459; (P) nx at 0500; f-g; 4/7. (Alexander-PA)
- 4779.96 **GUATEMALA R. Cultural Coatan** San Sebastian 0243-0303 Relg songs; M w/ SS tlk ment. R. Coatan; prayer; song; M w/ enhanced ancment & (P) ID; 0302 end prg; s/off at 0303; QRM; f-p; 3/15. (Serra-Italy) 0017-0109 Lcl songs; M w/ relg sermon in SS starting w/ background organ mx; ment. hermano; la Iglesia; Cristo; Cristiano & San Matteo; mx; ID as "Radio Cultural Coatan...Guatemala" at 0100; freq & more sermon; QRM slow jamming; [prob. CODAR-ed.]; fair; 3/22. (Serra-Italy) 4780 1033 Spirited anthem & full s/on ID; freq; but in the ever-present duck squawk CODAR; good; 3/29. (Ronda-OK)
- 4780 **DJIBOUTI R. Djibouti** 0325-0333 M anc in AA & slow song w/ M vocal; 50dB signal; exc; 4/3. (Parker-PA) \*0300-0317 Sudden opening w/ orchestra NA; M w/ AA s/on ID & ancments followed by Qu'ran recitation by diff M; fair w/ some CODAR splatter; 4/7. (D'Angelo-PA) \*0300-0350 S/

- on w NA followed by opening ancments; Ko'ran at 0303 followed by AA talk; HoA mx at 0346; good; weak co-ch. QRM from Guatemala's R. Coatan heard under Djibouti until Coatan 0303 s/off; 4/14. (Alexander-PA)
- 4781.48 **BOLIVIA R. Tacana** 1025-1035 M & W w/ mx & talk; CODAR in remission; later co-ch. R. Coatan Guatemala; good; 4/10. (Wilkner-FL)
- 4790 **IRIAN JAYA RRI Fak Fak** 1200-1210 IS (SCI) followed by M in Bahasa; poor signal (SINPO 24222); other Indo carriers noted today but only Fak Fak & Makassar-4750 had sufficient audio to understand prg content; 3/17. (Evans-TN) 1252 Soft vocal selections; poor; 3/22. (Ronda-OK) 1215 Western style EZL mx; poor; 3/29. (Ronda-OK)
- 4790 **PERU R. Vision** Chiclayo 0322-0325 M in SS; 40dB sig & easily overcoming CODAR; 4/3. (Parker-PA) 4790.1 Seemed to s/on late this morning; freq was dominated by 4789.6; R. Vision has a history of changing freq; 4/21. (Wilkner-FL) 4790.2 0255-0258 Usual M loudspeaker preacher & W in SS; good 30dB sig; 3/19. (Parker-PA)
- 4799.79 **GUATAMALA R. Buenos Nueva** San Sebastian 0425-0432\* SS relig talk; closing ID ancments at 0430; poor in t-storm static; 4/4. (Alexander-PA) 4799.8 0325-0332 M ancr in SS w/ pops; struggling w/ CODAR but mostly readable; 4/1. (Parker-PA) 0152-0305 Talk by M in SS; ancment w/ W over mx; 0157 full ID; EZL mx; quick ancment to piano version of a hymn; fair; I haven't heard them in a while, although I've checked; 4/2. (Taylor-WI) 4799.9 0250 Charming children's chorus; carnival-like organ; R..M..N IDs into marimba mx; 4/12. (Wilkner-FL) 4800 1130 SS preaching; strong w/ CODAR; 3/9. (Brown\_MO) 0255 M in SS; organ bridg.; ID at 0302 including call letters; freq; city; more talk; vocal; no sign of the Mex which has been quiet for a while; exc; 4/3. (Dexter-WI) 0305-0320 SS ballads; M echo ancrs w/ call-ins; 65dB sig & incredibly loud; giving CODAR a whipping! 4/3. (Parker-PA)
- 4800 **CHINA CNR 1** Geermu 1234-1238 W talking w/ a few bars of upbeat traditional mx a couple of times a minute; poor w/ usual CODAR interference (SINPO 22222); 3/25. (Evans-TN)
- 4805 **BRAZIL R. Difusora do Amazonas** Manaus 0256-0305 Two M in PP talking w/ echo FX; 20dB sig would have been more than enough w/out strong CODAR; 4/3. (Parker-PA) 0039 Songs; f-g; 4/15. (Bernardini-Italy)
- 4810.13L **UNIDENTIFIED [UTC?-ed.]** Mutant carrier present; no sign of the Mexican which would be regarded as a semi-lcl stn; nothing noted on 4800 or 4810 during regular checks. (Wilkner-FL)
- 4814.9 **ECUADOR R. El Buen Pastor** Saraguro [UTC?-ed.] (P); M w/ SS talk re upcoming Bible prg; tough catch; quickly f/out by 1152; 3/1. (Brown-MO) 4814.95 1025 "...por la gracias de Dios..."; w/ strong hash on LSB; good signal listening in USB; 3/28. (Wilkner-FL) 4815 0258-0305 Ballad w/ M vocal in (P) SS; M ancr w/ ID at ToH; heavy QRM but in the clear in USB; 30dB sig; exc; 3/19. (Parker-PA)
- 4815 **BRAZIL R. Difusora** Londrina 0245-0250 M ancr in PP; slow mx w/ M crooner; classical guitar; 30dB & loud but CODAR was still killing it; 4/3. (Parker-PA)
- 4824.4 **PERU La Voz de la Selva** Iquitos 2305-2311M talks; p-f; 3/10. (Parker-PA)
- 4825 **BRAZIL R. Educadora** Braganca 0031 Talks & songs; fair; 4/15. (Bernardini-Italy)
- 4826.45 **PERU R. Sicuani** Sicuani [UTC?-ed.] "...salud desde Radio Sicuani...transmite...en sabado proximo...encuentra..."; 3/28. (Wilkner-FL)
- 4828 **ZIMBABWE ZBC** Gweru 0303-0308 Reggae mx pig; very long songs & no ancments; 50dB sig & loud audio; 3/8. (Parker-PA) 0326 Afropops; good w/ CODAR; 3/8. (Brown-MO) 0308-0323 (P); Nonstop Afropop mx w/ heavy CODAR; S5/poor; 3/22. (Wood-TN) 0235-0240 guitar & ethnic mx; sig only 15-20dB but still could have been good; 50dB CODAR totally ruined it; 4/3. (Parker-PA)
- 4830rf **CHINA China Huayi BC** \*1200-1300 Carrier on at right around 1200 followed a few seconds later by audio; (P) nx rpt then W anchoring a prg w/ various guests & callers on the phone; 5+1 pips at 1300 amid a nearly f/out signal; was able to definitively // this to their streaming audio at mms://218.5.3.181:1250/; tnx to S. Hasegawa for the tip; (I noted on the webstream that during the nx rpt they took the liberty of adding angry; shouting-mob sound fx during a rpt w/ frequent mentions of Xizang aka Tibet.); mostly poor; first heard this on 3/18 & thought it might be Mongolia but tnx to D. Sheedy & others who helped pin this down; apparently a reactivated freq for CHBC; 3/22. (Schiefelbein-MO) 1235-1304 Almost identical reception as D. Sheedy's log of the 19th (DXLD 8-036); on air phone conversations w/ many "ni hao" (a standard "hello" greeting); "Wei. Wei." (a traditional CC phone greeting also roughly meaning, "Hello. Hello.") & the distinctive "ba ba ba" (number 888) & seemed like "shi" (number 4); assume this must be a local phone number for this prg? ToH 5+1 pips; believe Dan is correct to question if this is just 15 kW; tnx to M. Schiefelbein's initial tip; 3/22. (Howard-CA)
- 4830 **KASHMIR AIR** Jammu 1233 Talk b/w two M in either Hindi or Kashmiri; poor; 3/20. (Ronda-OK) 1214 Similiar talk & still present at 1234; as per NASWA country list & e-mail exchange w/ Don Jensen this is Jammu & Karhmir set & can be listed simply as Kashmir; Aoki; PWBR; & AIR website list txmitter location as Jammu; poor; 3/22. (Ronda-OK)

- 4834.5 **PERU R. Maranon** Jaen 0230 (T); Creating barely a tickle; 4/3. (Dexter-WI)
- 4835 **AUSTRALIA VL8K Katherine** 0811-0830\* M & W ancw w/ EE music & talk; (P) call-in at 0824; quick ID & fanfare at 0830\*; not much to work with but enough to note //4910 VL8T; poor; 4/18. (Barbour-NH)
- 4837.8 **UNIDENTIFIED** 1030-1040 Noted on 4/14 but not since. (Wilkner-FL)
- 4845.2 **BRAZIL R. Cultura Ondas Tropicais** 0147-0201\* Various M i PP; possible coverage of a sporting event; ID at 0200 cut in by another M ancw; brief mx & audio gone; carrier remained on for another five minutes before being terminated; p-f; 3/25. (D'Angelo-PA) 4845.23 0044 Songs; fair w/ low modulation; 4/15. (Bernardini-Italy) 4845.24 0123-0142 M & W in PP; enhanced tlk w/ mx; ancments w/ mx; (P) ID at 0139; CW QRM & QRN static; f-p; 3/22. (Serra-Italy)
- 4845 **MAURATANIA R. Maurataine** Nouakchott 0137 Very pleasant distinctive W. African AA mx using voice; Ood & various percussion instruments; good except for occasional digital sig on USB; 3/25. (Taylor-WI) 0616-0620 Ko'ran chants & occasional odd QRM that sounded a lot like the GWEN stns I used to hear on LW; 50dB; exc; 3/25. (Parker-PA) 0043-0145 Two M in AA w/ breaks in studio feed although carrier remained solid; more talks w/ brief mx snippets although no formal ID noted; good; 4/17. (D'Angelo-PA)
- 4845 **UNIDENTIFIED** 2338 I "think" this was R. Mauritania but too much QRN & QSB to ID; all talk by M ancw; anyone? 4/19. (Bauernhuber-NY)
- 4865 **BOLIVIA R. Logos** 1101 M ancw w/ SS IDs; instrumental & romantica mx; 3/9. (Brown-MO)
- 4865 **BRASIL R. Verde Florestas** 1102 M w/ talk & ID in PP; lite mx; mild fades; good; 3/1. (Brown-MO)
- 4877.52h **CANADA RCI** Sackville 0232-0259\* Sub-harmonic of 9755.04 (1/2 x 9755.04) w/ SS mx & talk; v.weak; 4/11. (Alexander-PA)
- 4885 **BRAZIL R. Clube do Para** Belem 0310-0320 M ancw in PP & usual pops; sigs to 70dB w/ incredible audio; 3/8. (Parker-PA) 0628 Dance mx w/ M ancw in PP w/ reverb FX; S7/fair; 4/12. (Wood-TN)
- 4885 **BRAZIL R. Difusora** Acreana 0301M & W in PP w/ sound-fx & IDs; local mx at 0329; good; 3/8. (Brown-MO) 0125\*0135 DJ talk in PP; two call-ins; 0130 "Radio Difusora Acreana" as part of an ID sequence & jingle; ad or prg ancment; back to DJ; fair; 4/2. (Taylor-WI)
- 4900 **CHINA V. of the Strait** Fuzhou 1222-1230 W ancw w/ Amoy talk; good w/ CODAR; 3/2. (Brown-MO) 1257-1300 Talk by W in CC; time pips at ToH followed by talk by M; v.poor signal; barely above the noise; 3/17. (Evans-TN) 1243 Weak signal but in the clear; pop mx prgrming was p-f overall; 3/23. (Strawman-IA)
- 4900s **VENEZUELA YVTO** Caracas 0606-0612 They've been popping up on some odd freqs the last few months; logged them on 5100 12/31/07; 1MHz below their old 6100 freq; good; 3/25. (Parker-PA) [spur-ed.]
- 4904.9 **CHAD RNT** N'djamena 0450 Upbeat African vocals; ID in FF by W at 0459; fair; 3/18. (Ronda-OK) 4904.97 2205-2232\* FF talk; Afropop mx at 2230; NA at 2231 & off; on later than usual; s/ off usually around 2130; f-g signal; 3/19. (Alexander-PA) 4905 0510-0520 Afropop w/ a killer signal; vg-exc; 3/21. (Wood-TN)
- 4905 **BRAZIL R. Anhanguera** Araguaina 0555-0602 M ancw in PP & up-tempo mx; 50dB sig in the clear & exc.; 3/25. (Parker-PA)
- 4905.1 **BRAZIL Nossa Radio** 0240-0258\* M ancw w/ PP talks to carrier being cut during vocal selection; 4/17. (D'Angelo-PA) 0130-0210 M ancw hosting prg of pop vocals w/ several "Nossa Radio" IDs; p-f; 4/19. (D'Angelo-PA)
- 4905 **TIBET Xizang PBS** Lhasa 1204-1225 Talk by M & W in Tibetan; poor but readable (SINPO 24222); deteriorating significantly by 1225; //4920 noted w/ weaker signal; 3/18. (Evans-TN)
- 4905 **UNIDENTIFIED** 0153-0203 Interesting log; R. Chad has been coming in on this freq lately; but the prgrming I heard this time does not match previous logs; this time it was contemporary Christian mx including "Via De La Rosa" & others in EE & maybe some preaching on top of that.; I couldn't make out the lang but it could have been FF or SS; has anyone heard R. Chad with Christian prgrming? S5/p-f; 4/12. (Wood-TN) [??? Spurious WWCR has been logged on 4910 as of late; see below.-ed.]
- 4909.26r **ECUADOR R. Chaskis** Otavalo 1030 Love song "...en la pequena amor.en mi corazon ..tu es mi vida amor.;" weak signal for them; 3/28. (Wilkner-FL) 1010 Caught "onda corta transmite radio...mas musica por..."; much stronger signal; 3/29. (Wilkner-FL)
- 4910s **USA WWCR** 0130-0158\* Spur from 5070; some kind of mixing product b/w 5070, 7465 & 5935; 4910 off the air when 7465 went off the air; WWCR 5935 in bad shape w/ loud hum & weak, slightly distorted audio; p-f w/ deep fades; 4/5. (Alexander-PA) 0145-0200 Two separate WWCR prgs from 5070 & 9980 mixing together on 4910; tnx to G. Hauser for figuring this one out: 9980-5070=4910; p-f; I am also hearing 9980 bleeding into 5070; 4/7. (Alexander-PA) 0157 Spur from WWCR w/ Scriptures for America; muddy but readable; tnx B. Alexander tip; 4/9. (Barbour-NH) 0154\*0206 Noted as early as 0035; two streams; one //5070; one //9980 simultaneously w/ Bible teaching on one & Pastor Pete Peters on the other; both streams ID'ed

- at 0200; 9980\*#5070=4910; also heard by D. Jensen; poor; 4/13. (Taylor-WI) 0010-0020 Surprisingly strong w/ two diff. WWCR pgs from 5070 & 9980 mixing together on 4910; 4/14. (Alexander-PA)
- 4914.95 **BRAZIL R. Difusora de Macapa** Macapa 0513-0520 Pop mx w/ ancments by M in PP; numerous IDs at 0513; good (SINPO 33333); 3/23. (Evans-TN) 0238-0300 Two M w/ PP chat; mx; brief ancments; romantic LA songs; QRN statics; QSB; f-p; 3/22. (Serra, Italy) 4915 0505-0515 M anc in PP; usual canned "Macapa" IDs; ranchero mx & slow ballads; very loud 50-60dB sig & exc. audio; 3/25. (Parker-PA) 0423-0439 Mid-tempo romantic ballads; M anc over mx; M & W w/ patter mentioning Macapa; S7/fair; 3/29. (Wood-TN) 0300-0316 ID at ToH; SS patter into soft LA pop mx; S7/fair; 4/12. (Wood-TN)
- 4920 **INDIA AIR Chennai** 1231-1238 M & W in Hindi; weak w/ co-ch. interference from (P) PBS Xizang & fading (SINPO 22222); 3/23. (Evans-TN)
- 4925 **BRAZIL R. Educacion Rural** Tefe 1040 Long talk in PP; f-p; 3/29. (Ronda-OK)
- 4930 **BOTSWANA VOA** Moepong Hill 0325-0328 In EE w/ sound bites of Bush talking about giving the economy a booster shot; 60dB sig; in the clear; 3/8. (Parker-PA) [UTC ?-ed.] W in EE w/ talk re upcoming Olympics; f-g w/ CODAR; 3/8. (Brown-MO) 0303 Nx w/ ments of the Dalai Lama & Pope Benedict in EE; into science prg "Our World."; fair w/ CODAR; 3/22. (Wood-TN) 0330-0351 ID; previews of upcoming features; M anc w/ world nx in EE; TC at 0349 "It's 49 minutes past the hour."; more features; p-f; 4/7. (D'Angelo-PA)
- 4940 **PERU R. San Antonio** 1051 (P); EZL mx; slight het from 4939.6; good; 3/1. (Brown-MO)
- 4950 **ANGOLA RN de Angola** Mulenvos 0330 M anc at t/in w/ PP ID; Arabic-like rap mx; f-g; 3/8. (Brown-MO) 0350-0410 Deep voiced M anc in PP; pips & ancments at ToH; exc. hilife mx; 70dB sig; some lcl static crashes; band condxs pulling the audio down a bit; 3/8. (Parker-PA) 0242-0302 Full ID at ToH as "Radio Nacional Mulenvos."; M w/ extended PP remarks b/w mx; Afropop & rap w/ a few EE numbers including "Tusk" by Fleetwood Mac & "Mambo #5."; S7/fair; 3/22. (Wood-TN) 0347-0418 Prg of easy pop vocals w/ time pips at 0400 followed by W anc w/ ID in PP; mx fanfare followed by another W w/ nx; end of nx at 0415 w/ another ID & mx; p-f; 3/19. (D'Angelo-PA)
- 4950 **CHINA V. of Pujiang** Shangha 1241M & W anc in CC; poor but steady; 3/2. (Brown-MO) 1235-1237 Talk by M in CC; v. poor signal occasionally peaking above noise level; 3/17. (Evans-TN)
- 4960 **SAO TOME VOA** Pineira 0420-0425 Nx in EE; 50dB sig colliding w/ (P) AIR Ranchi; 3/8. (Parker-PA) 0545-0550 M & W w/ FF talks; 20dB sig but in the clear; good; 3/25. (Parker-PA) 0418 Political analysis prg looking at US policy in Iraq & Iran; fair; 4/5. (Sellers-Ottawa)
- 4965 **ZAMBIA CVC** 0338 M w/ EE Bible teachings; v. poor under CODAR; 3/8. (Brown-MO) 0255 Gospel songs in EE; f-g; 3/26. (Ronda-OK) 0110 Same kind of prg; 3/27. (Ronda-OK)
- 4974.82 **PERU R. del Pacifico** Lima 0930-0940 Strange M half singing & half talking in SS; good; 3/28. (Wilkner-FL)
- 4985 **BRAZIL R. Brasil Central** Goiania 0138 PP songs in persistent CODAR & noisy band condxs; fair; 3/19. (Ronda-OK) 0040 Similar prg & reception condxs; fair; 3/21. (Ronda-OK) 0146-0208 Romantic songs & M in PP; choral mx; jingle ID at 0154 "...Radio Brasil Central" other enhanced IDs; freq; M w/ relg sermon; QRM; fair; 3/22. (Serra-Italy)
- 4990 **SURINAME R. Apintie** Paramaribo 0609 (P); Very faint pop mx & heavy static; poor; 4/12. (Wood-TN) 0930-0940 Mx & subdued M anc; tnx A. Peterson tip; 4/14. (Wilkner-FL) 0620-0645 (P); Pop mx occasionally peaking above the noise; could not hear any talk by an anc but sig was so marginal that it could easily have been missed; mx was of the variety previously heard from R. Apintie; have been hearing a carrier on 4990 for the past 4-5 nights but no audio until tonight; weak sig in v. poor; static filled condxs; 4/17. (Evans-TN)
- 5000 **ISRAEL Galei Zahal** Tel Aviv, 2130-2220, March 17. Hebrew talk. Local pop music. Ballads. Canned announcements. Barely audible but improving. // 6973-but with a slight delay. Tnx to tip from R. Schulze & A. Petersen. (Alexander-PA)
- 5000 **VENEZUELA YVTO** Observatorio Cagigal Caracas 0048 Pips & IDs; poor; 4/15. (Bernardini-Italy)
- 5005rf **EQUATORIAL GUINEA R. Nacional** Bata 0517-0600 Last heard back in Dec '07; Talk in SS & lang w/ ments of Bata & Malabo along w/ mention of "Radio Malabo"; lcl mx; poor in noisy conditions; 4/11. (Alexander-PA) 2200-2300\* Talk & African choral mx; s/off w/ NA; threshold copy at t/in; slowly improved to fair sig strength but poor overall due to heavy t-storm static making for difficult condxs; 4/11. (Alexander-PA) 2245-2258\* African choral mx; soff w/ NA at 2256; p-f in noisy condxs; 4/15. (Alexander-PA) 2257 S/off w/ NA; 4/16. (Alexander-PA)
- 5009.7 **DOMINICAN REPUBLIC R. Pueblo-R. Cristal** Santo Domingo S/off varying from 0000; lcl level sig in April; 4/10. (Wilkner-FL) 5009.78 2312-0002\* LA mx & SS ballads; steel drum mx & SS ancments; call letters & "Radio Cristal Internacional" IDs at 2356 & 0000; good signal strength but modulation could be a little stronger; no sign of Madagascar but they were heard 11/2-2 hours later; 3/20. (Alexander-PA) \*2301-0002\* Noted s/on at 2301; LA mx; romantic SS bal-

- lads; SS ancmnts; p-f in t-storm static & the usual low modulation; had to switch to ECSS-LSB at 0000 when unid. carrier came on 5010; probably India; 3/27. (Alexander-PA) 5009.79 R. Cristal 2325-0005\* Lcl SS mx & ballads; ancmnts; ID ancmnt 2359; classical mx at 0000 followed by choral mx; SS relg talk & prayer; abruptly pulled plug mid-way through talk; fair; 4/7. (Alexander-PA) 5009.79 2345-2359\* (P); SS talks & ancmnts; promos w/ sound FX; no ID heard; fair but some ancmnts w/ low modulation; 4/18. (Alexander-PA) 5009.8 R. Pueblo 2353-0002\* Latin vocals w/ guitar mx w/ M ancr & SS talk at 2356; more vocals w/ formal ancmnts at 0000 giving call letters & ID; closed w/ brief vocal; trnx to T. Krueger for initial log that this was back; noticed IDs from B. Wilkner & B. Alexander; fair; 3/20. (D'Angelo-PA) 2348-2357\* (T); Ancr at t/in in SS; several mentions Argentina; (P) ad string w/ various ancrs & musical bits; (T) ID at 2355 followed by several "Frecuencia el Dias.....onda corta..." ancmnts, which I assume is a prg ID & immediately off at 2357; weak but clear; 3/28. (Barbour-NH)
- 5009.98 **MADAGASCAR RTV Malagasy** 0146-0209 Up-tempo mx thru ToH by same musical group; W in FF at 0202 followed by anthem/choral-like mx; talk b/w musical bits w/ passing mention of "Antananarivo"; fair; reduced carrier USB; 3/18. (Barbour-NH) 5010 0340 (P); Fast paced W ancr in FF; good; f/out by ToH; 3/8. (Brown-MO) 0135-0210 An eclectic mix of local mx; ballads; local children's chorus; Euro pop mx; f-g; suppressed carrier USB; 3/21. (Alexander-PA) 0328-0400 W w/ jingles reminiscent of Top 40 stations; mx at 0335 w/ M ancr mentioning several African countries; ID heard 0357; v.weak signal but very clear; 3/22. (Wood-TN) 2225-2230 On late again w/ lcl mx; gone at 2255 check; no sign of Dominican Rep. tonight; reduced carrier USB; 3/29. (Alexander-PA)
- 5010 **INDIA AIR Thiruvananthapuram** 1220-1235 M & W in Hindi w/ occasional few bars of Indian mx; weak w/ fading (SINPO 24222); 3/23. (Evans-TN) 1247 Extended exchange of cments; ancmnts b/w M & W; no mx heard for several minutes; poor; 3/23. (Strawman-IA)
- 5014.3 **PERU R. Altura** Cerro de Pasco 0350-0410 (P); Enjoyable Peruvian mx w/ SS ancmnts by M; poor signal w/ deep fades (SINPO 24222) in noise from approaching local thunderstorms; too much noise to catch ID; recheck at 0425 found better signal but discontinued listening due to local storm; 3/19. (Evans-TN) 5014.32 0410-0500\* SS ancmnts; IDs; Peruvian mx; canned ancmnts; abrupt s/off; fair; on later than usual & reception better than usual; 3/19. (Alexander-PA)
- 5019.9 **SOLOMON ISLANDS SIBC** Honiara 0950-1000 (P); Seemingly the one on both 4/13 & 4/17. (Wilkner-FL)
- 5025 **CUBA R. Rebelde** Havana 0601 An enjoyable station w/ lots of good mx & not the constant harping on Commie talking points you get on RHC; but they need to pay more attention to R. Reloj, since at 0601:30 they ran a 2+1 timesignal one sesquiminate late!; 3/28. (Hauser-OK, DX) 0440 SS w/ nice Cuban vocals; good; 4/9. (Bauernhuber-NY)
- 5030 **CHINA CNR 1** Beijing 1238-1240 M & W in CC; poor but readable (SINPO 23322); 3/21. (Evans-TN) 1039-1046 Presumed ad string w/ various ancrs & musical bits; occasionally overtaken by 5025-Rebelde splatter; p-f; 3/27. (Barbour-NH)
- 5035.07 **BRAZIL R. Aparecida** Aparecida 0050 Talks; p-f; 4/15. (Bernardini-Italy)
- 5039.3 **PERU R. Libertad** \*1027-1034 (P); Presumed s/on w/ Quecha mx; nothing noted on freq prior; M w/ ancmnt at 1031 tho too much band noise for positive ID; mx resumed at 1032; poor; 3/22. (Barbour-NH)
- 5040.5 **MYANMAR R. Myanma** 1220 (P); W ancr w/ Western pop mx; 3/29. (Brown-MO)
- 5050 **USA WWRB** McCaysville 0100 ID in EE followed by preaching; good; 4/18. (Bauernhuber-NY)
- 5054 **UNIDENTIFIED** 1141 C. American rancho style mx; heard at the same time by M. Taylor in Madison, Wisconsin; first time I've heard anything on this freq since the days of Faro del Caribe; gone by 1203 recheck; poor; 3/22. (Ronda-OK) 1245 C. American rancho type mx; just above the static floor; no ID audible at ToH; poor; 3/22. (Taylor-WI) [Would be nice if this were indeed Faro del Caribe Costa Rica-ed.]
- 5075 **CHINA V. of Pujiang** Shanghai 1207 The last few minutes of a possible nx break; ads; into CC talk prg; weak & mostly faded by 1230; poor in noise; 4/8. (Schiefelbein-MO)
- 5100s **VENEZUELA YVTO** Caracas 0617-0620 Finally managed to hear the YVTO spur on 5100; definite time pips; SS ancmnts hard to make out but just before 0620; heard check ending in "50 minutos" so has to be Venezuela; there was also intermittent RTTY interfering; not heard on 5000 or 4900; 3/26. (Hauser-OK)
- 5120.33 **PERU Ondas del Surorient** Quillabamba 0050-0120 Heard listening in LSB to avoid ute; good; 4/12. (Wilkner-FL)
- 5700 **UNIDENTIFIED** 0343 In SS but surely not the Peruvian; way too strong; almost a bit distorted; some kind of fluke by one of the big relg bcasters?; 3/30. (Dexter-WI)
- 5890 **N. MARIANA ISLANDS VOA** Tinian 1350 Confirming WWCR-4 is not really on 5890 as claimed a few minutes before by Pastor Pete Peters on 9980; checked & found VOA English lesson for Koreans on the theme of "fasten your seat belts"; good; 4/2. (Hauser-OK) 

# International Band Loggings

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- 5915 **ZAMBIA ZNBC Radio 1** Lusaka in Vern \*0243, Fish Eagle IS, choral NA, local drums, talks, relig mx t/out at 0310, g (Alexander PA 3/21) in Vern 0340, OM DJ playing Afropops and chatting w/ guests b/w songs, splatter free reception w/WBOH being off, f (Schiefelbein MO 4/6)
- 5930nf **CYPRUS Cyprus BC Corp** Limassol in GK \*2215-2244\*, ex-6180, GK mx, radio drama, s/off with Greek tune, g, //7210 poor mixing w/CR1 and //9760 very weak, weekends only (Alexander PA 4/6)
- 59524v **BOLIVIA R Pio Doce** in SP 0220, local mx, talks, Radio Kwai signature tune 0230, YL vocals, chatty cntry and sound effects, s/off at 0234, QRM from 5950 (Schiefelbein MO, Alexander PA 4/6)
- 5965v **MALAYSIA Klasik National FM** via RTM Kajang in Malaysian 1633-1709, ballads, cntry, singing jingles, news at 1700, pop songs, weak, //website audio streaming (Howard CA 3/26)
- 5965 **CUBA RHC Havana** in SP 0011-0032, IS, ancmts, ID, sports nx, mx breaks, interviews, QRM from sporadic splatter by RTV Marocaine on 5980, p-f (Serra ITALY 3/24)
- 5980 **MOROCCO RTM du Maroc** in AR 0232, rustic band mx, Arab singer, ID, g-f (Hauser OK 3/30)
- 5995 **MALI RTV du Bamako** in FR 2342-0101\*, call-in interview, guitar/songs, ID, f (Taylor WI 3/24)
- 60194v **PERU R Victoria** Lima in SP 0455-0520, relig talk, ID 0457, NA 0502, local relig mx 0505, fair signal and //9720 weak, no explanation why the NA at 0502 (Alexander PA 3/28)
- 6020 **TURKEY V of Turkey** in EG 0440-0452\*, mx, news briefs, multi-lang IDs, g (Turnick PA 3/22)
- 6020 **AUSTRALIA RA** in Pidgin 1005, talk re Boy Scouts, sports news, 90 db signal (Parker PA 3/27)
- 6030 **CANADA CFVP** Calgary in EG 0437, relaying MW 1060, C&W songs, IDs "Classic Country AM 1060", promo for a John Deere trimmer, mostly poor (Howard CA 4/10) ED: Only 100 watts output
- 6040 **CANADA Vatican Radio** relay in EG 0229, IS bells, interview w/Terry Scott, founder and CEO of Sat-7, TV networks for Christians in Arab countries, there are now 3 networks, one in AR, another in Turkish/Persian and other languages, and a third for children, some co-chan QRM (Hauser OK 3/30)
- 6040 **PRIDNESTROVYE Radio PMR** via Kishinev in EG/FR \*2206, s/of w/test tone, pgm re the conflicts b/w Moldova and Russia, talk re local history, IDs, contact info, into FR 2229, g (Alexander PA 3/31) in EG 2220, OM discussing Moldavian neutrality and associated Russian policies, closing ancmts at 2229 w/skcd, into FR 2230 with ID, g (Sellers ONT 4/4)
- 6040 **LITHUANIA The Mighty KBC** in EG \*0100-0159\*, IDs, Wolfman Jack pgm w/import ads for Kaito receivers and other electronic products, f-g (D'Angelo PA 3/23)
- 6060 **CUBA RHC Havana** in SP 0310, Cartas a la Redaccion mailbag pgm, weekends (Hauser OK 3/30)
- 6060 **CUBA R Nacional de Venezuela** relay in EG 1106, features about political developments in Venezuela ID at 1109 and continued EG programming, g (D'Angelo PA 3/24)
- 6075 **RUSSIA R Rossii** via Petropavlovsk in RS 0840, talks, ballad, poor-noisy, joined by //7200 Yakutsk and 7320 Magadan after 0900 (Barbour NH 3/24)
- 6080 **SAO TOME VOA** relay Pinheira in EG 2136-2201\*, "Country Hits USA", instrum'l music filler and skcd until closedown, f (D'Angelo PA, Bauernhuber NY) in EG 0320, forum re Tibet (Hauser 3/30)
- 6115 **MOROCCO R Farda** in Farsi 0125, ID, Mideast music, f (Bauernhuber NY 3/28) in Farsi 0228 with rock music, ID, mostly talks and news?, vg, //7105 fair (Hauser OK 3/30)
- 6130 **LAOS Lao National Radio** Vientiane in EG/Laotian 1412, pgm on American business practices and culture, interview, focus on business English, f-p w/xmtr cutouts (Howard CA 4/5)
- 6145 **ASCENSION ISLAND BBC** relay in EG 0315, report on plastic pollution in the Pacific, g, // 7160 (Hauser OK 3/30) in EG 0356, "For One World" promo on foreign affairs coverage, f (Park HI 3/23)
- 6160 **CANADA CKCZ** St. Johns, Newfoundland in EG 2341, a CBC relay of MW outlet, news, game show, music program called Vinyl Tap, g (Rohde OK 4/12) Xmtr output only 300 watts
- 6165 **NETHERLAND ANTILLES R Nederland** relay via Bonaire in DT 0400, ID "Dis is Radio Nederland Wereldomroep", news about anti-Qur'an website, f-g, //5975 (Park HI 3/23)
- 6165 **CROATIA V of Croatia** Deanovec in EG/CR \*0600, short 4 minute EG broadcast w/news, sports, and weather, IDs, skcd, then into CR programming scheduled for the hour, f, //9470 (Alexander PA 3/30)
- 6195 **TURKEY V of Turkey** in EG \*2200, ID, program lineup, news headlines, g (Sellers ONT 4/4)
- 6200 **CZECH REPUBLIC R Prague** in EG 0115-0127, CZ financial nx, ID, IS, 90 dB signal (Parker PA)
- 6250 **EQUATORIAL GUINEA R Nacional** Malabo in SP 2134-210+, local Afro-pop music, ID at 2203, f-g, also heard 0528-0610 w/live vocals, ballads, talks, ID, news?, f-g (Alexander PA 4/2)
- 7110 **ETHIOPIA R Ethiopia** Addis Ababa in Amheric \*0259, gongs, talk, Horn of Africa mx, weak with adjacent channel splat (Alexander PA 3/23) choral music 0304, vernacular chatter, clear S-6 signal

- (Strawman IA 3/21) continuous Horn of Africa music to 2054, techno mx bit, s/off ancmts until 2102 closedown (Barbour NH 3/18) HoA music and news in Amheric 0401-0426 (Wood TN 3/22)
- 7110 **CHINA CNR-1** Shijiazhuang in CH 1232, talk by YL, upbeat traditional mx w/sounds of children talking, g, //7290 Beijing with much weaker signal (Evans TN 3/18)
- 7120 **SOUTH AFRICA BBC** relay Meyerton in EG 0410-0436, "World Sports on BBC", IDs, promos and "BBC Africa Network" feature, ID 0430 and news, f (D'Angelo PA 3/28)
- 7145 **SRI LANKA VOA** relay in Urdu \*0100, ID, regional news, mx, f (McGuire MD 4/4, Taylor WI 3/25)
- 7200 **SUDAN Republic of Sudan Radio** Omdurman in AR 0400-0430, pips, fanfare, news, ments of Sudan, field reporter, good until 0422 and lost at 0430 with R Bulgaria s/on (Evans TN 4/3)
- 7200 **RUSSIA R Rossii** via Yakutsk in RS 0755, back on after 3-4 weeks absence, interview, 5+1 pips, news several IDs, mostly fair, //5935 and 7320 Magadan, 6075 Petropavlovsk (Howard CA 3/25)
- 72099v **ETHIOPIA R Fana** Addis Ababa in Amheric \*0258-0340, IS, ID at s/on, Horn of Africa mx, talks, weak and covered by BBC 7210 at \*0300 but audible underneath, //6110 better (Alexander PA 4/7)
- 7270 **MALAYSIA/SARAWAK Limbang FM** relay via Wai FM (RTM) Kuching in Iban? 1325-1401, YL DJ playing pop songs/ballads, on-air phone calls, IDs at 1400, poor mixing w/PBS China to 1345 but improving to 1400 at which time covered by jamming w/Firedrake mx (Howard CA 4/1)
- 7285 **ALBANIA China R Int** relay in EG 2100-2200, CRI news, feature "China Drive", talk, news, weather, music, p-f w/co-channel and rtty QRM, covered at 2359 by Austria s/on (Alexander PA, Barbour NH)
- 7325 **CANADA RCI** Sackville in SP 1301, change from 7310, feature "The Message Beaver", QRM under probably Papua/New Guinea station now dominated by RCI fgy change (Hauser OK 3/30)
- 7325 **LITHUANIA R Vilnius** Sitkuni in EG 2337-2359, news, cmntry, ID, sked, contact info, local folk music, p-f w/co-channel and rtty QRM, covered at 2359 by Austria s/on (Alexander PA, Barbour NH)
- 7360 **BELARUS R Belarus** Minsk in EG 2126, news, IDs, sked, cmntry, weak, //7390 (Alexander PA 3/24)
- 7390 **SOUTH AFRICA Channel Africa** in EG/F \*0356, IDs, end of EG and into FR ToH, IS, tribal drums, pips, talk re France's influence in Africa, Gabon in particular, vg (Wood TN 3/29)
- 7400 **BULGARIA R Bulgaria** in EG 0731-0800, IS, ID, ancmt, local news/weather, mx break, fqys, DX program, feature talk, vg (Serra ITALY 3/23)
- 7415 **USA WBCQ** Monticello, ME in EG 2214-2234, music indigenous to the Southern Appalachian region hosted by Dan Haller, several different performers, ID 2230, vg (Wood TN 4/11)
- 7450 **GREECE RS Makedonias** in GK 1951, GK folk mx w/requests, ID, news, f-g (Barbour NH 4/8)
- 7545 **ISRAEL Kol Israel** Tel Aviv in HB 2252, "House Music" in HB, ID, pips, news w/several mentions of Hamas and Golan, g (Taylor WI 3/24) in EG 0435, news, pips, into FR 0445, vg (Parker PA)
- 75702v **NORTH KOREA V of Korea** Kujang in SP 2200, IS, IDs, NA, p, //12015v (Alexander PA 3/30)
- 9280 **EGYPT Egyptian Radio** Abu Zaabal in AR 0200, AR music, IS, pips, ID, regional news, mentions of Iraq situation, g (McGuire MD 4/4)
- 9335 **NORTH KOREA V of Korea** Kujang in EG/FR 1349, opera, into FR 1400, ID, p (Taylor WI 3/24)
- 9415 **CZECH REPUBLIC R Prague** in FR \*2200, ID, fgy, sked, national news, g (McGuire MD 4/4)
- 9430 **GERMANY AWR** relay via Nauen in CH \*2030, ID "This is Adventist World Radio, the Voice of Hope" in EG and several langs, into CH programming, p (Sellers ONT 4/5)
- 9430 **ZAMBIA CVC International** relay via Lusaka in EG \*0500-0559\*, "Scope, news/current affairs pgm, pop mx, CVC IDs, contact info, p-g (Alexander PA 3/20, Hauser OK 3/17)
- 9445 **INDIA AIR** Bangalore in EG 1859-1923, ancmt, IDs, news, press review, interview by OM in bad EG, Indian mx pgm at 1921, g, //11620, 13605 (Serra ITALY 3/31)
- 9445 **RUSSIA Trans World Radio** relay via Novosibirsk in Nepali? 0010, tones, ID ancmts, vocals, sermon, Kolkata address, sitar, violin, tables (Paszkwicz WI 3/24)
- 9480 **UZBEKISTAN CVC International** relay via Tashkent in EG 0102, news, sports, CVC ID, pop music at 0107, poor/weak in noisy conditions (Alexander PA 3/24)
- 9495 **IRAN Voice of Justice** Kamalabad in EG \*0129, NA, ID, Koran recitations, news 0139, g, //7235 vg (Alexander PA 3/31, Sellers ONT 4/5)
- 9515 **CANADA RCI** Sackville in AR/FR 1959-2005+, end of AR service 2000 and into FR programming at 2005, website, ID, g (McGuire MD 3/19)
- 9580 **AUSTRALIA RA** in EG 1330, another superb program from RA "Rear Vision" recounting the history of CH claims to Tibet, very enlightening, transcript and audio on the Internet, //9580, 9590, 9560, 9475 (Hauser OK 4/3)
- 9580 **GABON Africa #1** Moyabi in FR 2147-2220, hi-life vocals, IDs, news, f (D'Angelo PA 3/22)
- 9615 **NEW ZEALAND RNZI** in EG 1808-1843, news, sports rpt, "Dateline Pacific", IS, news about New Zealand, IDs, news in Samoan at 1840, p-f (Serra ITALY 3/6)

- 9615 **PHILIPPINES R Veritas Asia** in CH 1140-1155\*, short EG segment w/story about Bobby Fischer, the chess champion of yore at 1144, back to CH 1149, ID in EG 1155 and off, f (Alexander PA 3/19) in CH 1145, talks, classical music, ID in EG (Paszkiwicz WI 3/30)
- 9635 **MALI RTVM Bamako 1** in FR/AR \*0800-0840, s/on w/FR anncmts, local string music, talks in FR and AR after 0801, exotic local music at 0830, f-g (Alexander PA 4/4)
- 9660 **VATICAN CITY Vatican Radio** in EG 0320-0407, news features, ID 0326, OM w/upcoming sked changes until cut-off in mid sentence at 0326, carrier back on 0328, IS, into SH 0330 with numerous IDs and news, fair signal but gradually fading over time (D'Angelo PA 3/25)
- 9675 **BRAZIL R Canção Nova** in PT 2333-0016, OM with religious chats, mention Brazil, mx break, jingles, ancnmts, ads, songs, talks, f-p (Serra ITALY 3/8)
- 9680 **ROMANIA RRI 2253** in EG 2250-2255\*, sports rpt. ID, fqy, sked, website, IS\*, f (McGuire MD 4/3)
- 9690 **NIGERIA V of Nigeria** Ikorodu in Hausa 0816-0840, news features w/some drum mx, ID 0325, rustic string and flute mx at 0829 prior to another ID, p-f with steady improvement (D'Angelo PA 3/25)
- 9705 **NIGER L V du Sahel** Niamey in FR 2127-2158\*, FR pops/ballads, talks, local drums and mx, into Koran at 2151, choral NA 2156, test tone 2158 and off, fair w/ACI splatter (Alexander PA 3/23) in FR at 2140, religious service, drums 2150, news?, full ID 2201, pop mx program, f-g (Delmage AB 3/22)
- 9740 **SINGAPORE BBC** relay in EG 1207, reports about UK Commission on integrating refugees into UK society, fair in ECCS-LSB (Barbour NH 3/27)
- 9745 **TAIWAN Voice of Han** via Kuan Yin in CH 0928-1012, mostly conversation b/w YL and OM, some music and songs, //with online audio streaming, f (Howard CA 4/9)
- 9750 **GERMANY R Liberty** relay in Belarusian 1938, Beatles song "Norwegian Wood", various anncrs and reports, ID "Havoryc Radyjo Svaboda" 1946, fair w/fading (Barbour NH 4/8)
- 9760 **PHILIPPINES VOA** relay in EG \*1158, ID, IS, instrum'l jazz music and crash-start news in progress at 1204, re Indonesian airline crash and US casualties reach 4,000 in Iraq, f (Barbour NH 3/25) in EG 1316, Alice Coltrane harp music on Jazz America, a real treat (Hauser OK 4/6)
- 9760 **CYPRUS Cyprus BC Corp** Limassol in GK \*2215-2245\*, s/on w/GK music, ancnmts, radio-drama, folk music, vg at s/on but slowly down to weak by s/off, //7210, 6180, weekends only (Alexander PA 3/16)
- 9810 **CHINA CNR-2 China Business Radio** in CH 1100-1135, talks in CH, ID in EG 1125, f-g, //6090, 7130, 7245, 7335, 7375, 9820 (Alexander PA 3/26)
- 9875 **LITHUANIA R Vilnius** in EG 0036-0100\*, mailbag, program re Easter and Easter folk music, ID, contact info, sked of EG programs, g, seems to be on irregular sked, g (Alexander PA 3/24)
- 9920 **PHILIPPINES FEBC** Manila in Hre (a SE Asian dialect) 1109-1134, continuous talk until religious mx at 1125, IS, talk resumes at 1132, p-f (Barbour NH 3/25)
- 9955 **USA R Prague** relay via WRMI Miami in EG 2310, business news, preview of special Easter programs, arts report, R Prague IS/ID followed by WRMI's at 2330, f-g w/no jamming (Schiefelbein MO 3/21)
- 9990 **SRI LANKA R Free Afghanistan** relay in Dari/EG 1140-1158, talks by 2 OMs - one via remote, talk in EG re the Taliban at 1147 w/Dari translations, gone at 1158 by WWCR s/on (Barbour NH 3/27)
- 11620 **INDIA AIR** Bangalore in EG 1920, ID, "Radio Newslink", program lineup, HD mx (Sellers ONT 4/4) in EG 2154, HD mx w/many bells at end of talk segment, ID, news, f (Evans TN 4/1)
- 11680 **CUBA R Nacional de Venezuela** in EG/SP 1525, YL translating speech by President Hugo Chavez, into SP programming at 1530, schedule, g (Sellers ONT 4/5)
- 11690 **GUAM AWR the Voice of Hope** relay via KSDA Agat in EG 1600-1629\*, religious program with Adventist World Radio ID's, Christian mx and religious talk, QRM/QRN (Alexander PA 3/22)
- 11690 **RWANDA Deut Welle** relay in EG 2100, news, ID, ment Tibetan protests, g (Bauernhuber NY 3/27)
- 11715 **SAUDI ARABIA BSKSA** in AR 2214-2259\*, OM announcer w/talk followed by long recitation in Holy Qu'ran program, f (D'Angelo PA 3/23)
- 11725 **NEW ZEALAND RNZI** in EG 0629, song by Sara Brightman in maximum SW fidelity, TC, feature "Spectrum" about Greenpeace, vg (Hauser OK 4/3) in EG 0510, national and regional news, sports report, weather, interview w/writer, f-p (McGuire MD, Sellers ONT 4/5)
- 11735 **ROMANIA RRI** in EG \*1658, IS followed by a waltz and ID, skeds, fqys, YL with news of Central Europe and mentions of Bulgaria, Albania, and Romania, S-9 signal (Wood TN 4/11)
- 11735 **TANZANIA V of Tanzania-Zanzibar** in SH/EG 1755, ID, IS, 5+1 pips, into EG news from Spice FM to 1810, then back to SH, vg (Delmage ALB, Sellers ONT 4/4)
- 11780 **BRAZIL R Nacional da Amazonia** Brasilia in PT 0352-0400\*, lively Brazilian pops, ID, talks, f-g (D'Angelo PA 4/7) in PT 2355, local mx, nx, ads, ID 0000, f-g (Bauernhuber NY 4/11, McGuire MD)
- 117849v **INDONESIA V of Indonesia** Jakarta in FR/EG 1937-2018\*, t/in to FR programming w/talk and local music, into EG service at 1959 w/IDs, news 2002, cmntry, abruptly off 2018, f (Alexander PA 4/5)
- 11850 **FRANCE R Taiwan Int** relay via Issoudon in EG 1710-1745, IDs, feature re Taiwan elections, music program, "Taiwan Outlook" 1738, scheduled to move to 11705 for A08 (Alexander PA 3/28)

- 11925 **BRAZIL R Bandeirantes** São Paulo in PT 0018, 2 OM's in jocular conversation, long string of ads?, ID amid sound effects, fair in USB to avoid HCJB on 11920 but rapid fading (Schiefelbein MO 3/28)
- 11990 **KUWAIT R Kuwait** in EG 1911, ID, feature on history and culture of Kuwait from ancient times until the current era, soft pop mx mixed in, poor w/heavy static (Wood TN 4/11) in EG 1838, news, IDs, program sked, pop mx, vg (Sellers ONT 4/4) in EG 1815, daily program "Islam and Peace" explaining the Qu'ran followed by Western hip-hop mx at 1820, vg in USB (Delmage ALB 3/24)
- 12080 **AUSTRALIA R Australia** in EG 2147, "The Breakfast Club" w/upbeat pop mx and finance news, into BBC News at 2200, fair w/deep fades (Schiefelbein MO 3/26)
- 12120nf **THAILAND R Thailand** Udon Thani in EG \*0030-0055, news, cmntry, f-g signal strength at s/on but co-channel QRM from rtty station reduced Thailand to very weak (Alexander PA 3/31) ex-12095
- 12135nf **PRIDNESTROYE Radio PMR** via Kishinev in EG 1615, news about Moldova-Russian relations, talk about local history, into FR 1629, p-f with QRM from AFRTS Key West relay, EG quarter hours are listed as 1400, 1445, 1530, and 1615 on weekdays only (Alexander PA 3/31, Hauser OK 4/3)
- 13680 **CUBA R Nacional de Venezuela** relay via Havana in EG/SP 2308, news about Venezuela, credits to production/technical personnel at 2310, ID in SP, into profile of a Venezuelan company visited by President Chavez and translation of his speech, local music, g, //15250 vg (Sellers ONT 4/4)
- 13840 **NEW ZEALAND RNZIn** EG 1101, Pacific regional news, IDs, ancmts, mx bridge, into feature "Dateline-Pacific Magazine", f (Serra ITALY 3/7)
- 15140 **OMAN R Sultanate of Oman** Thumrait in EG 1427, pop music, chimes/gongs, ID, news 1430 and into more pop music 1440, weak but readable, lost in the noise at 1445 (Alexander PA 3/22)
- 15190 **EQUATORIAL GUINEA R Africa** Bata in EG 1948, wrap up of a religious program w/phone-quality audio and distortion at regular intervals, Special EG ID, contact info, Salvation Army-produced program, f-g (Schiefelbein MO 4/12, Alexander PA 4/12)
- 15205 **RWANDA Deut Welle** relay Kigali in EG 2143, report on fashions of Mulsim women in Germany, good, //11865 also good (Sellers ONT 4/4)
- 15235 **SOUTH AFRICA Channel Africa** in EG 1701-1754, news, music break, sports news, local song, ancmts, current affairs feature, IDs, g (Serra ITALY 3/5)
- 15435 **SAUDI ARABIA BSKSA** Riyadh in AR 1657, preacher w/exaggerated reverb, Holy Qu'ran service marred by horrible raspy buzz, good signal except for Qu'ran part, //15205 (Hauser OK 4/11)
- 15470nf **GERMANY Bible Voice Broadcasting Service** relay via Juelich in African language 1433, service beamed to Sudan, native choir, mentioned several religious names, ID 1459 (Hauser OK 4/3, 4/4)
- 15535 **GERMANY R Nederland** relay via Wertachtel in EG 1855, "Bridges with Africa" ending at 1855, ID, frequencies, g (Sellers ONT 4/4)
- 15730 **SAO TOME VOA** relay in FR/Hausa \*2000, talks, mx, ID, into Hausa 2030. g (McGuire MD 3/31)
- 17595 **SPAIN REE** Noblejas in SP 1645, classical music "Nuestra Musica" until 1700 time signal, ID, and news, fair with local hi-noise level, //15385, 15585, 17755, 21570, 21610 (Hauser OK 4/11)
- 17630 **GABON Africa #1** Moyabi in FR 1434, long talk until 1457, TS, ID 1500 (Ronda OK 3/26)
- 17690 **PORTUGAL Sudan Radio Service** relay via Sines in AR/EG 1505-1600\*, talks mostly in AR but some EG, radio drama, short breaks of Afro mx, ID in EG 1559, poor in noise condx (Alexander PA 4/12)
- 17715 **SPAIN REE** Noblejas in SP \*1700, IS, ID, fqy, sked, pips, sound bite of Obama, g (McGuire MD)
- 17725 **LIBYA V of Africa** Sabrata in EG 1405, ex-17600, Mid-East music, feature hosted by YL w/music, ID at 1426 "This is the Voice of Africa from the Great Jamahiriya", weak with deep fading, //21695 (D'Angelo PA 3/23, Alexander PA 4/11, Rohde OH 3/30)

## Clandestine/Opposition Stations

- 5950 **ETHIOPIA V of the Tigrey Revolution** via Mekele in Tigrinya 0350-0420. t/in to Horn of Africa mx, talks beginning at 0401, good, weaker on //6170 (Alexander PA 3/17)
- 6020nf **JAPAN Shiokaze/Sea Breeze** via Yamata in EG \*1400, broadcasting to No. Korea, piano IS, ID, ment other new fqy at 6045, "Today's News Flash" and "Today's News on North Korea Issues" transmission signs on right after R Australia signs off, fair (Howard CA 4/4)
- 9525 **ASCENSION ISLAND Cotton Tree News** in EG 0734, broadcasting to Sierra Leone, news, items re the "Love One Another Campaign" and the building developments at the Freetown YMCA, IDs "This is CTN Freetown" and "CTN now the news in local languages (Howard CA 3/18)
- 12035 **NORWAY SW Radio Africa** relay via Kvitsoy in EG \*1800 beamed to Zimbabwe, talk re upcoming elections in Zimbabwe, IDs, contact info, Afro pop music, feature "The Hidden Story" about politics in Zimbabwe, vg (Alexander PA 3/17) in EG \*1800-1859\*, "Road to Democracy" a look at whether Zimbabwe is ready for free and fair elections, off at 1859 at the end of a song w/o any fanfare, good (Schiefelbein MO 3/22, Hauser OK 3/23)

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