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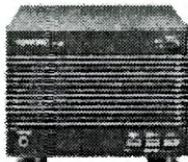
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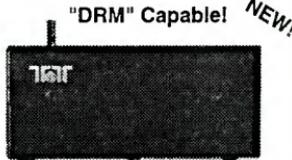
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The time comes in almost every good man's life to pack in the wild, carefree life of a bachelor for marriage. If it can happen to good men why can't it happen for one of our own? So it comes to pass for our own **Ralph Brandi** who has managed to find a woman so blindly in love with him that she can overcome enough of his oddities, i.e., shortwave radio, to commit to marriage. Laura has attended the Winter SWL Festival so she knows what some of his radio buddies do as well as what they look like and sound like. Despite all this, she still wants to go through with marrying our buddy Ralph. I must congratulate her on having such an open mind. Let me exercise a little executive privilege in wishing the Brandis many happy years together. In the true spirit of Unity and Friendship the Executive Council gave Ralph the day off. *(And in the spirit of vacations under hard-driving bosses everywhere, I had to do the work anyway the week before.... -rb)* Congratulations to Laura and Ralph Brandi (by the time this makes it to print the big day will have occurred)!

Technology wins again! On an experimental basis, Headquarters is willing to take payments for membership using Paypal. We will give this payment method a trial run to see how it goes. Please contact **Bill Oliver** (weoliver@comcast.net) to coordinate your payment arrangements when you use PayPal. Although Bill has used this method of payment in a few instances in the past, it never became a club practice. Thanks to **Pete Costello** for the suggestion of making this form of payment available to all members on a regular basis.

Dr Adrian M. Peterson, DX Editor of Adventist World Radio (AWR) and NASWA column editor, sent along some interesting information about some AWR broadcasting changes. AWR is now on the air from a new transmitter location, Wooferton in England, for coverage into East Africa, Central Africa and West

Africa. Also, AWR is making use of additional channels in the tropical shortwave bands. Details can be found in Al Quaglieri's *Listeners Notebook* column.

Although it's a little early to have a full report from the AIB Global Media Business Conference that was held 29-30 April 2003 in London, England featuring delegates from public and commercial broadcasters all over the world, I do have some preliminary information about the event. Delegates were registered from all over the world including technology suppliers to public broadcasters, satellite operators to commercial TV channels and participants came from New Zealand, Congo, Tanzania, Canada, Sweden, Germany, France, United Kingdom, Switzerland, and USA. Mark Byford, Director, BBC World Service and Global News delivered the keynote address. The conference looked at audiences, global branding, partnerships, technology, media asset management, digital platforms, production systems, a detailed analysis of content and business models, plus rights and regulation. The final session of the conference focused on public diplomacy, war and the media.

In a few months, the **European DX Council** will hold its annual conference in Konigstein, Germany with DXers and radio station personnel from all over Europe and abroad expected to attend. Similar to the recently held Winter SWL Festival, the EDXC Conference will focus on the upcoming digital changes being made for shortwave transmission and reception. The Rhein-Main-Radio-Club is organizing the event, which is scheduled for 15-17 August 2003. Further information can be obtained electronically from **Harald Gabler** (DrGabler@t-online.de).

The following month, the **Ontario DX Association** will hold its annual convention, "RadioFest 2003", on 19-21 September 2003 at the Monte Carlo Inn in Oakville, Ontario,

OUR MOTTO IS - "UNITY AND FRIENDSHIP"

Canada. As always, the ODXA puts on a good show with Friday evening starting things off with a Wine & Cheese Reception sponsored by radio station CHWO (AM 740). Saturday's schedule includes items for sale from Durham Radio and others, displays, exhibits, speakers and the draw for Raffle 2003 with refreshments throughout the day sponsored by CFRB/CFRX. For more information, contact Harold Sellers at 905-853-3518/email: listeningin@rogers.com or Brian Smith at am740@rogers.com or by mail at: Ontario DX Association, Box 161, Willowdale Stn. A, Toronto, Ontario, Canada M2N 5S8. Monitor the *Calendar of Events* for additional details and further updates.

And, speaking of shortwave listener gatherings, the **Danish Shortwave Club International** will be holding its Annual General Meeting (AGM) and DX Camp later this month at Vejers Beach in Denmark. The 16-18 May 2003 event usually attracts a diverse international contingent. We wish the DSWCI well with its AGM and DX Camp.

Here's a reminder that the 15th edition of the *Australasian Shortwave Guide* (ASWG) with over 1400 entries, covering the international shortwave transmission period of 30 March 2003 through 25 October 2003 is still available. The ASWG is a detailed and accurate listing available in 36 pages, A5 format, saddle stitched. It provides comprehensive information of English shortwave schedules to Australia, Asia, the Far East, the Indian sub-continent, and the Pacific, and for broadcasts in all languages to Australia and the Pacific. The data is arranged in two sections, by studio country and starting time. Each entry shows broadcasting organization, frequency, starting time, finishing time, language, target area, transmitter site, transmitter country, studio country, and days of operation. The new schedules of Digital Radio Mondiale (DRM) transmissions are included, as well as late breaking international broadcasting news. The ASWG is available for A\$10.00 to Australian addresses. For airmail delivery outside of Australia, US\$10.00/Euro 10 (or 10 International Reply Coupons). Payment may be in cash (Australian dollars, American dollars, Euros, or the equivalent in any other currency), Australian personal check, Australian bank

check, Australian Money Order, International Money Order, International Bank Draft, Australian Credit Union check, Australian Building Society Check, or Australian mint stamps. All checks and orders must be payable in Australian currency, drawn on Australian banks, and payable to "Bob Padula". Payment can also be made via credit card using PayPal, using the E-mail link to bobpadula@bigpond.com. Please send your order to: Bob Padula, 404 Mont Albert Road, Mont Albert, Victoria 3127, Australia.

Don't forget to get your Scoreboard information to **Gary Neal** (7410 Orchard Hills Lane, Sugar Land, TX 77479-6122, USA; e-mail: grmeal@earthlink.net). He needs total countries heard and total countries verified and also the same information for each continent and best QSL from each continent since the column spotlights a different continent on a rotating basis. Your participation helps keep one of the club's grand traditions alive.

Edited by **Sheryl Paszkiewicz**, spasz@dataplusnet.com or P.O. Box 716 Manitowoc, WI 54221-0152, each week the electronic *Flashsheet* brings a lot of exciting DX to members. Our electronic newsletter continues to be 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 members. Deadlines are posted in the *NASWA Flashsheet* each week. If you are a current member of the club and want to receive the electronic *NASWA 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.

Remember to please direct all communications about subscriptions, bulletin delivery issues, 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 directly to me in Wyoming 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. 

Calendar Of Events

- May 16 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcsckp@aol.com.
- May 16 Meeting. Boston Area NASWA Chapter.** The Boston Area DXers have found a new location for meetings. Inquiries about the BADXers may be sent to Paul Graveline at 978-470-1971 or Internet: ctreditor@aol.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>
- May 16-18, 2003 Annual General Meeting ("AGM") and DX Camp.** The Danish Shortwave Club International will hold its **AGM and DX Camp** at Vejers Beach, Denmark on 16-18 May 2003. Further details will be published, as they become available.
- 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 [<radiuscan@siscom.net>](mailto:radiuscan@siscom.net). For additional information about MONIX, check out their web site at [<http://www.siscom.net/~mmeece/monix.html>](http://www.siscom.net/~mmeece/monix.html)
- Jun 27-29, 2003 Convention.** The 40th annual **IRCA Convention** will be held on 27-29 June at the Best Western Merry Manor Inn, 700 Main Street, South Portland, Maine 04106. Call 207-774-6151 to secure your club rate of \$69.00 per night. Registration fee is \$35.00 payable to Mike Sandburn, Box 1256, Bellflower, CA 90707-1256. Questions can be directed to Mike at the above address or mikesandburn@hotmail.com
- Aug 15-17, 2003 Convention.** The Rhein-Main-Radio-Club will host the 2003 **European DX Council Conference** in Konigstein, which is near Frankfurt, Germany area on 15-17 August 2003. This year's conference will concentrate on the future of the hobby as well as shortwave, tropical bands, FM-DX and Free Radio. Further information can be obtained electronically from Harald Gabler (DrGabler@t-online.de).
- Sep 5-8, 2003 Convention.** The **National Radio Club** will hold its annual convention celebrating its 70th year of operation on Labor Day Weekend, 5-8 September 2003 at the Holiday Inn Select DFW in Irving, Texas. Rates are \$69.00 per night: Convention registration is \$45.00. The host committee consists of John Callarman, Bill Hale and Wally Wawre. Further details will be provided as they become available.
- Sep 19-21, 2003 Convention.** The **Ontario DX Association** will hold **RadioFest 2003** on 19-21 September 2003 at the Monte Carlo Inn, 374 South Service Rd. E., Oakville, Ontario, Canada L6J 2X6 (Tel: (905) 849-9500, Fax: (905) 849-6405, E-mail: reservation@montecarloinns.com and Web Site: <http://www.montecarloinns.com/oak.htm>). For more information, contact Harold Sellers at 905-853-3518/email: listeningin@rogers.com or Brian Smith at am740@rogers.com or by mail at: Ontario DX Association, Box 161, Willowdale Stn. A, Toronto, Ontario, Canada M2N 5S8
- Sep 2003 Contest.** 2003 **Adventist World Radio "Wavescan" DX contest** is scheduled to run during the month of September. Listeners will be asked to submit a list of unique QSLs (QSLs that you own that you consider no one else in the world has). Once in a lifetime frequency usage, emergency broadcasts, emergency transmitters, transmitter on wrong frequency, mistaken frequency entry, harmonic radiations, etc, etc? Full details to follow later in 2003.
- Mar 12-13, 2004 Convention.** The 17th **Annual Winter SWL Festival**, sponsored by NASWA, will be held at the *Best Western—The Inn at Towamencin* (Kulpsville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 12th and 13th March 2004. Richard Cuff and John Figliozzi co-chair the organizational committee. It's never too early to begin planning. See you there! Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: rdangelo3@aol.com) or Ralph Brandi (Internet: ralph@brandi.org).

FRENDX: Twenty Five Years Ago (May 1978)

The *Shortwave Center* featured user reviews for the Panasonic RF-2800 by Jerry Lineback and the Panasonic RF-4800 by Ronald DeMann. Aaron Hywarren prepared a verie signer's list for verifications that appeared in the *QSL Report* in the first quarter of 1978 while Mike Willis wrote about high frequency African broadcasters. Awards Chairman Dan Henderson congratulated Kent Corson for the Indonesian Master DXer Award and Joe DiLeo for the most difficult Brazilian Senior DXer Award. Dan noted issuing 62-award certificates in the first quarter of 1978. In the *QSL Report*, Sam Barto informed members that a new record, 132 countries verified, was reported this month. In *Frendx Credits*, Greg Ravenhorst listed 99 reporters for the month.

Musings

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

Wallace C. Treibel <nwhikers@msn.com>, 357 N. E. 149th Street, Shoreline, WA 98155

Just a note to thank you for the kind words you included in the April *Journal*. I also enjoyed seeing the pictures taken at the Kulpville meeting. It's good to see what all the guys look like.

Take care — Wally Treibel

Ed Mayberry <edmayberry@houston.rr.com>,

Just wanted to say that your special report on the 16th annual Winter SWL Festival looks great in the April *NASWA Journal*. I love the fact that it covers 11 pages, and the pictures add tons to the overall article. Great seeing the faces of those we've read about for years.

It'd be great if more illustrations were used each month—in fact, this should be a prototype as a "look" for the *Journal*, for at least one article. Pictures, scanned or half-toned, add a lot.

I also would like to say thanks to everyone who labors on the *Journal* each month. I especially look forward to Mark Fine's *English Schedules* when that's added. Believe me, everyone's efforts are not going unnoticed.

Kudos! Ed Mayberry

Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Bob Montgomery** (Address: P O Box 10814, Parkville, MD 21234). He will forward them to the appropriate editor. Remember, Bob also distributes QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: RMonty3@worldnet.att.net.

Easy Listening

Richard D. Cuff • 42 North 37th Street • Allentown, PA 18104 • rdcuff@mochamail.com

Welcome to Easy Listening!

It's been quite a while since I provided any overview of what the *Easy Listening* column in the *Journal* is all about. Since I suspect there has been an uptick in membership with Operation Iraqi Freedom (OIF), I figure there might be some NASWA newcomers in our midst.

Many of the NASWA columns are geared to the "sport fishing" aspect of shortwave listening—DXing. I liken DXing to sport fishing in that the "thrill is in the chase", since many DX targets aren't English language broadcasts, nor are these stations particularly easy to hear. Once we know which station we've "caught", we'll listen long enough to be able to prove we heard it—in order to request a QSL. Some folks don't DX for QSLs, of course—some do so for indigent music that isn't otherwise listenable.

By comparison, the *Easy Listening* column focuses on the programming content available from shortwave broadcasters. The column focuses on those broadcasters that are comparatively easy to hear via shortwave—hence, the title *Easy Listening*. Since this column focuses on the message, the medium—shortwave—is less relevant in the discussion. Information on the various media strategies broadcasters use is mentioned here if it makes it easier for a listener to hear a particular broadcast. Every once in a while I'll include information from a broadcaster that doesn't use shortwave, such as the BBC's Radio Four, or the CBC's domestic Radio One service, if the program is likely to be of interest to an international audience, and if the program is available via webcast, if not via shortwave.

For the most part, the column focuses on English language programming; the exception is music programming, if music occupies a significant portion of a broadcast

schedule. After all, music can be appreciated in any language.

Member comments aren't invited—they're encouraged! Finding out what types of programming members are interested in helps me prioritize the subject matter of each month's column. My contact information appears each month at the top of the first page of the column, as well as on the back cover of the *Journal*.

Speaking of OIF

As I write this, the intensity of media coverage on Iraq has lessened somewhat, though the BBC schedule hasn't entirely returned to normal. Which international broadcasters were the most useful during the war?

The **BBC World Service** went to non-stop news as soon as the conflict started; its coverage was thorough, and thoughtful, as one would expect given the BBC's reputation for news, and recent interest in being known primarily as a news source. There was emphasis on the war itself, less so on peripheral issues. The BBC has modified its schedule somewhat, with non-news programming filling out the second half-hour of many hours of programming, but music and dramatic features haven't yet returned to the schedule.

Radio Australia altered its schedule slightly, and I found its coverage to be especially valuable because Radio Australia's news analysis programming—originating primarily from the domestic Radio National service—didn't emphasize live news as it happened. Instead, the news analysis programming took a more analytical, distanced view of the action. The domestic evening newsmagazine, *PM*, airs on shortwave at 0800 UT and is comparatively easy to hear in North America. The program is also available

on-demand at Australia's ABC website (<http://www.abc.net.au/pm>) and, in slightly higher bandwidth, at the World Radio Network website (<http://www.wrn.org>, click on Listeners' Area, then Radio Australia, then the 0800 webcast). With the combat phase in OIF largely behind us, you will likely hear more domestic Australian content. As of the column's presstime, Australia's ABC had a special website set up where all their content focusing on Iraq could be launched from a single starting point. See <http://www.abc.net.au/rn/crisis.htm>.

Deutsche Welle took a more skeptical view of events in Iraq, given Germany's opposition to the war. Their programming—especially *Newslink*, the current affairs program, took a longer view of the war, its consequences, and its aftermath. *Newslink* aired in the first half hour of each hour's broadcast, and was still reasonably easy to hear in North America via shortwave. More on that in a minute.

Radio Netherlands did their usual fine job in each edition of *Newsline*; their schedule was not significantly altered due to the war, providing a bit of a haven from the wall-to-wall coverage provided elsewhere.

Interestingly, one tended to see a more pro-American perspective on US cable TV news channels than was offered even at the *Voice of America*, which took a balanced position.

Is shortwave still relevant in times of crisis?

Roger Broadbent, the host of Radio Australia's *Feedback* program, posted an interesting question at the Feedback website to solicit user comments: "Is Shortwave radio still relevant in times of crisis?" Two responses were particularly well thought out. First, from Paul Kidd on the island of Tonga:

...Clearly the Australians, the British, and the Americans each have different "world views" and national interests. That sometimes results in a different perspective

on news events. Since we listen to all of these various news sources on shortwave radio, we are able to "synthesize" what we hear reported, and that enables us to get a broader understanding of "what's happening" in the world at large. This would not be possible if we only had access to a single source of news and information. As I said, we have no television here. Some would say that we are therefore "deprived", or that we are "missing something". In some sense, that is true: we don't see the images of world events, and therefore we do miss some of the "immediacy" of modern-day news reporting. Even though we are certainly missing the "entertainment" provided by TV, I am not at all convinced that we are missing much of any real value in terms of information. Television news reporting, naturally, relies heavily on imagery to "inform" the audience, but imagery alone is not the "story".

A visually dramatic image can be, and often is, an inadequate substitute for real substance in news reporting. We may be "captivated" by a TV image, but we are not necessarily well-informed. Radio news, on the other hand, relies entirely on the spoken word to convey information. For the radio audience, the process of listening to the news is a form of active involvement, as opposed to the passive activity of staring at the tube, and being "fed" the news.

Secondly, from Roger Chambers, of Utica, New York:

On a more personal level, from someone with broad band internet access, short wave is still vitally important to hearing "news and views" from a variety of perspectives from around the world.

From shortwave broadcasts, from before the war through the beginning of the Battle of Baghdad, I have heard the following:

- About 20 bipartisan former US Senators wrote a letter in late February to President Bush, seriously questioning the apparent change in US policy to include preemptive strikes of another nation. (Radio Havana Cuba)

- A US diplomat to Greece resigned in protest of the impending war, writing a very thoughtful resignation letter with his reasons. (heard originally on Radio Havana Cuba, the letter found a few days later on the NY Times Web site).
- The resignation of a second US diplomat based in Georgetown, with prior service in London, Moscow, and Belgrade, for the same reason of being strongly opposed to the war policy of the Bush Administration (heard on Spanish National Radio (REE), and on the Voice of the Islamic Republic of Iran (VOIRI).
- Throughout the first 10 days or so of the war, protests around the world continued, including 50,000–100,000 in Cairo for three days running. Many demonstrations across Australia, and the population of Australia are very split on the war. (Radio Australia, among many others stations).
- Radio Netherlands provided an in depth look at the various views of Iraqi exiles living in the Netherlands.
- The Voice of Turkey has had much news exploring Turkey's pivotal role. Turkey, whose population is about 90% opposed to the war, is caught between the Moslem world, satisfying commitments to the US and NATO, and fear of offending Germany and France who could stall their application to join the European Union.
- Radio Prague has covered the ambivalence of the Czech people about the war, even though about 200 Czech forces, largely experts in chemical weapons, have been deployed to Kuwait.
- Radio Budapest, Hungary, reported on a site used within Hungary for military training of former Iraqi exiles by the US. Hungarian residents of the area are nervous about this.
- Radio New Zealand broadcast an extensive interview which culminated with this view: "The International Community" does not like to bullied, and will make the US pay

the price, if only to give it some humility for the next time around."

Much of this information has not been widely reported by the American based media.

Thanks to Roger Broadbent and John Figliozzi for sharing these. These are excellent examples of the perspectives one can glean from shortwave radio that aren't available elsewhere. By the way, Radio Australia's **Feedback** airs via shortwave Saturday 0600 and Sunday 0300 UT. On-demand archives aren't generally available, but Roger says they're in the works.

Deutsche Welle can still be heard here

Despite the fact that **Deutsche Welle** chose not to target North America (and Australasia) via shortwave as of the A-03 schedule change in late March, Deutsche Welle can be heard in eastern North America without too much trouble, though the time of day isn't convenient. John Figliozzi and I noted the following frequencies as being reasonably reliable in the northeastern USA:

0400 UTC: 7225 kHz (OK), 11945 kHz (good-quality)
 1900 UTC: 13590 kHz (good quality)
 2100 UTC: 11865 kHz (good quality), 15205 kHz (very good quality).

There may be other audible broadcasts in your location—please let me know, and I can pass the information along to others. Most **Deutsche Welle** programs have at least the most recent edition of each program available for on-demand download, and Deutsche Welle also has a round-the-clock English language webcast. See <http://www.dw-world.de/english>, then click on "DW-Radio | Live".

BBC World Service Schedule? Who knows?

If the **BBC World Service** gets around to restoring their regular schedule, you'll notice some changes. Repeat editions of

programs aren't spread around the week as was previously the case; most editions of non-news programs air with a 24-hour time block. The information I received directly from Audience Relations differs slightly from what was published in the April *BBC On Air*, but here are some highlights:

Outlook: Mondays–Fridays 1306, Tuesdays–Saturdays 0306

From Our Own Correspondent: Thursdays 0245 and 1132; Sundays 0306 and 1006

Analysis: Tuesday, Wednesday, Friday 1132; Tuesday, Wednesday, Friday, Saturday 0245

Assignment: Fridays 0006, Saturdays 1006, Sundays 1506

People & Politics: Sundays 0332 and 1532

Pick of the World: Saturdays 0306, 1306, 2306

John Peel: Fridays 1432, Saturdays 0032 and 0532

Wright Round the World: Mondays 0106

Write On: Saturdays 0345, 1345, 2345

The Ticket: Sundays 0006, 1306

Off The Shelf: Mondays–Fridays 1345 and 2345; Tuesdays–Saturdays 0345

Discovery: Wednesdays 1506, Thursdays 0106

Science in Action: Fridays 1506, Saturdays 0106

Sportsworld: Saturdays 1406 (3 hours), Sundays 1606 (1 hour)

Radio Japan: Less news

I truly wish I could like **Radio Japan**, because I'd love to know more about the world's second-largest economy, its culture, and its issues. Unfortunately, **Radio Japan** tends not to dig too deeply into the

economic and cultural issues facing the nation. The programming is certainly more interesting than the infamous recitation of mundane (and inflated) economic statistics on Eastern European stations while the Warsaw Pact was in force, but I wish **Radio Japan** challenged Japanese icons and issues a bit more thoroughly.

The most significant schedule change for **Radio Japan** for the A-03 time period is the shortened length of its newscast from 15 minutes to 10 minutes; a new 5-minute music program, **Songs for Everyone**, follows the weekday newscasts in the 1100 broadcast, and the Tuesday–Saturday newscasts in the 0000 broadcast. Another new music program, **Japan Musicscape**, airs in the 1100 broadcast on Wednesdays.

Non-shortwave suggestion for the month

If the BBC is slow to restore a varied service, you can still listen to excellent BBC science programming via the web: **Radio 4's** website shows 11 different science programs available for on-demand (or live) listening at its website, <http://www.bbc.co.uk/radio4/science/>. I listened to a particularly interesting edition of **Frontiers** dealing with the Human Genome Project, with the full half-hour of the program dealing with a single subject in depth. If you'd rather listen live, **Frontiers** airs Wednesdays 2000 UTC.

That's all for now; see you next month, and don't forget to write!

73 DE Richard



WWW Shortwave Listening Guide

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



Shortwave Center

Jerry Lineback • 506 South Lawrence Avenue • Scranton, KS 66537 • jalinebk@satelephone.com

DX Target: Radio Okapi A Fondation Hirondelle Project Enabling the People of the Congo to Communicate

By Richard A. D'Angelo

A new shortwave broadcast station began operations in February 2002 from the Democratic Republic of the Congo (DRC). Called Radio Okapi, the station is a joint project in the DRC by the United Nations Organization Mission in the Democratic Republic of the Congo (MONUC) and the Fondation Hirondelle, located in Switzerland. This DX Target will focus on the DRC, the Fondation Hirondelle (or Hirondelle Foundation) and, of course, the station, Radio Okapi.

The Country

The Democratic Republic of the Congo, located in central Africa, is one of the largest countries on the continent. French is the official language. Years of civil war and corruption have badly damaged the country's infrastructure. The DRC shares its borders with Angola, Zambia, Burundi, Sudan, Rwanda, Tanzania, the Central African Republic and the Republic of

the Congo. The country's capital city is Kinshasa. Other important cities include Lubumbashi, Mbuji-Mayi and Kisangani. An international port is situated at Matadi on the Zaire River.

The DRC has one of the richest reserves of natural resources in the world. Although the country should benefit as a result of this fact, this is not the case. Together with economic mismanagement, the on-going conflict in the country has resulted in the economic decline of the DRC. The war has meant a decrease in national production in all industry sectors. The war in the DRC has claimed over a million lives. The conflict is by no means a clean-cut case of civil war, it is one of a multi-national character involving seven nations.

Formerly, the Belgian Congo, this territory was inhabited by ancient Negrito peoples (Pygmies), who were pushed into the mountains by Bantu and Nilotic invaders. The American correspondent Henry M. Stanley navigated the Congo River in 1877 and opened the interior to exploration. Commissioned by King Leopold II of Belgium, Stanley made treaties with native chiefs that enabled the king to obtain personal title to the territory at the Berlin Conference of 1885.

Brussels granted freedom to the former colony on 30 June 1960. The Katanga Province seceded from the new republic on July 11 beginning many years of national civil strife. In one form or another unstable governments and revolution since independence have besieged the former Belgian Congo.



Since 1997 the Democratic Republic of the Congo, formerly called Zaire, has experienced ethnic strife and civil war, touched off by a massive inflow in 1994 of refugees from the fighting in Rwanda and Burundi. The government of former president Mobutu Sese Seko was toppled by a rebellion led by Laurent Kabila in May 1997. His regime was subsequently challenged by a Rwanda and Uganda-backed rebellion in August 1998. Troops from Zimbabwe, Angola, Namibia, Chad, and Sudan intervened to support the Kinshasa regime. The DRC, Zimbabwe, Angola, Uganda, Namibia, and Rwanda signed a cease-fire on 10 July 1999 with Congolese armed rebel groups. Nevertheless, sporadic fighting has continued. Kabila was assassinated on 16 January 2001 and his son Joseph was named head of state on 26 January 2001. Despite taking a radically different approach than his father, the new president has been equally unsuccessful in ending the war.

The Hirondele Foundation

The Hirondele Foundation is an organization of journalists, which sets up and operates media services in crisis areas. It is the only organization in the world, which has such specialized experience in this field. As a result of its activities, a number of interesting radio stations appeared around the world. Unfortunately, many of these stations have had very short broadcasting lives.



Since its founding in 1995, Hirondele has established and managed Radio Agatashya in the Great Lakes region of Africa, Star Radio in Liberia, the Hirondele News Agency at the International Criminal Tribunal for Rwanda at Arusha in Tanzania, Radio Blue Sky in Kosovo, Radio Ndeke Luka in Bangui in the Central African Republic, and Moris Hamutuk, a radio program for refugees in Timor. Its latest venture is Radio Okapi in the Democratic Republic of Congo.

The Foundation strongly believes that an independent media has a fundamental role to play in societies where authoritarian and non-democratic regimes are in power. In such situations, the traditional media tend to fall silent because of insecurity and physical risks. The Hirondele Foundation collaborates in the development of tolerant and democratic societies and contributes to creating a responsible, civic-minded exchange of opinions within the public.

The following governments finance the projects of the Hirondele Foundation: Switzerland, the European Community, the United States, the Netherlands, Sweden, Great Britain, France, Canada, Germany and Japan. International organizations involved include the United Nations High Commissioner for Refugees, United Nations Educational Scientific and Cultural Organization (UNESCO), the International Committee of the Red Cross (ICRC), the International Foundation for Electoral Systems and the United Nations Development Program (UNDP). The Hirondele Foundation falls under Swiss law.

One of the Hirondele Foundation's cardinal rules is independence from political and economic influences. Independence can guarantee the impartiality of the Foundation's journalistic activities and ensure credibility to its audiences. The Foundation aims to create or support independent media. The staff of the Foundation comes from all nationalities and cultures.

The Foundation works to establish an independent media under the most difficult circumstances in authoritarian and non-democratic societies. The Fondation Hirondele is usually active where conflict is endemic, where there are open hostilities or in post-conflict regions. It is also present in situations where the political, economic or social conditions are not as inviting for an independent media. Obviously, the Democratic Republic of the Congo is well suited for the media and communications expertise the Hirondele Foundation offers.

The Station

Radio Okapi is named after a peaceful, four-legged mammal that lives mainly in the Democratic Republic of the Congo, and is a protected species. It has no known enemies. The okapi is well liked by the people of the DRC. Over the years, it has lent its name to various Congolese businesses. No political or military force has tried to appropriate the okapi's name in the past. The MONUC's station is the first such use of the okapi name.



Radio Okapi is the largest radio project that the United Nations and the Fondation Hirondele have ever conducted. It is a radio operation enabling the people of the Congo to communicate with their compatriots. It is a radio station intended to work hand-in-hand with the peace process. Radio Okapi is a network of radio stations designed to cover this immense country of 2.4 million square kilometers, providing services for approximately 45 million inhabitants. The network center is in the capital, Kinshasa. There are six regional studios with plans for four other regional studios to be located in four political and military hotspots. The network is served by satellite, shortwave and FM transmitters and by the Internet.

Radio Okapi is a service aimed at a population suffering from years of military conflict and economic stagnation resulting in almost one million refugees and over two million displaced people. Three million people rely on daily food programs while about 300 thousand people are treated for malnutrition. The school attendance rate tumbled to 43% in 1999 from 70% in 1993. Programs are designed to contain non-partisan, credible information broadcast throughout the country. Programs are devoted to themes relating to health, education, human rights, culture and music. The first year's budget is nearly US\$2 million. This should be less in succeeding years once the initial start up costs have been made. The operation will be run by around 100 journalists, presenters and staff, the majority of whom will be Congolese.

The project involves close co-operation between the United Nations and the Hirondele Foundation with the aim of making a lasting contribution to peace in the Democratic Republic of the Congo. It also involves co-operation with the existing media in the DRC, mainly with other radios in the fields of production and training. The project is a network of stations designed to continue into the post-MONUC phase.

Programs

Radio Okapi offers programs, which include news bulletins, magazines and music to everybody in the DRC, whether they are the parties to the conflict or the international community. All broadcasts fall under the authority of the MONUC, the United Nations Observer Mission in the Democratic Republic of the Congo. Radio Okapi broadcasts those programs that are prepared under the supervision of the Hirondele Foundation.

Apart from news, these broadcasts focus on such topics as humanitarian aid with the main goal being the promotion of a peaceful solution to the conflict in the DRC. The programs produced by Radio Okapi are distributed free of charge to local radio under an agreement specifying the terms and conditions of their use and their rebroadcast.

Radio Okapi pays particular attention to the situation of the victims of the violence and war, refugees, displaced persons and those who are destitute and especially vulnerable. In its information and magazine programs, Radio Okapi provides specific information on the activities of the United Nations and its specialized agencies, as well as about the MONUC mission, its priorities, the problems it is facing and the peace process. Radio Okapi provides detailed coverage to the process of dialogue among the various political and military groups in the DRC.

The programs are produced and broadcast mainly in French, Lingala, Swahili, but also in Chiluba and in other local languages as well as English for members of the

international community. Radio Okapi provides local, regional and international news. It produces magazines and interviews done on the spot.

Broadcasting and Production Facilities

The capital, Kinshasa, the headquarters of MONUC, has a central studio coordinating the national program. The shortwave broadcasting system based in Kinshasa covers the entire country. Each regional studio receives the program from Kinshasa and broadcasts it locally. A medium-powered FM transmitter adapted to the



local topography provides FM quality reception in its area. The main program is also broadcast via the Internet and the latest news as well as specific programs are available on the Internet.

In February 2002, the first morning programs on Radio Okapi commenced on FM in Kinshasa and on shortwave, consisting of one to two hours a day of news broadcasts and magazine features. The station's head of technical services, Georges Schleger, says the station broadcasts on shortwave using 6030 kHz, 9550 kHz and 11690 kHz with a 10-kilowatt transmitter using a Marconi exciter and amplifier. The antenna is a yagi three element pointed to the east 80 degrees from Kinshasa. The 11690 kHz outlet has competition from Radio Africa International in French from 0600 to 0800 UTC so a listener needs to be careful logging Radio Okapi.

Several governments have shown an interest in the Radio Okapi project and have been asked to contribute over the long term to the financing of the operation. Three countries contributed to cover the budget for the first year: Great Britain, Switzerland and the United States.

The station appears that it will be an excellent verifier of listener reception reports. Electronic reports can be sent direct to . Through this route I have heard from Dominique Jaccard, Desk Officer in a speedy 4 minutes and 33 seconds and from Georges Schleger/VE2EK, Communications Officer, Head of Technical Services Radio Okapi, MONUC in only one day. A postal report will take a little longer and is answered with a nice QSL card. Written reception reports with return postage can be sent to:

Radio Okapi
c/o Fondation Hironnelle
3, Rue Traversière
CH 1018-Lausanne
Switzerland

As always, remember to send in those exotic Radio Okapi logs to electronic *Flashsheet* editor Sheryl Paszkiewicz and to Wallace Treibel for the *Log Report*. Of course, those interesting and rare QSL verifications should be sent to Sam Barto for inclusion in the *QSL Report* column. Good luck with this DX Target. 

RADIO OKAPI		<small>MONUC / Fondation Hironnelle</small>
<p>Radio Okapi is a FM and shortwave broadcasting network serving the whole of the Democratic Republic of the Congo. It is a joint project of the Fondation Hironnelle and the United-Nations. The radio aims to contribute to the restauration of peace in the country by broadcasting news and information programmes that are professional, credible, and reliable.</p>		
<p>QSL for... <u>Radio Okapi</u>.....</p> <p>We are pleased to verify your reception of Radio Okapi, Kinshasa, RDC</p> <p>Date: <u>20/11/2002</u></p> <p>Time: <u>20:51:11Z</u></p> <p>Frequency: <u>11690 kHz</u></p>		
<p>Lausanne <u>20/11/2002</u></p>	<p>Sign</p>	<p><small>Fondation Hironnelle 3 Rue Traversière 1018 Lausanne - Suisse Tel. 021-847 26 05</small></p>

Figure 1: Radio Okapi QSL card issued by the Hironnelle Foundation in Switzerland

Adrian Peterson's Diary

Dr. Adrian M. Peterson • Box 29235 • Indianapolis, IN 46229

Test transmissions from a temporary site: Radio Australia Gnangara

Without prior notice, quite suddenly and unexpectedly, test broadcasts on behalf of Radio Australia were heard from a new location early in the year 1975. This is what happened.

In an endeavor to gain improved coverage into Asia, a beautiful new transmitter base was constructed for Radio Australia on Cox Peninsula, across the bay from Darwin in the Northern Territory. Three transmitters at 250 kw were installed and five log periodic antennas.

Test broadcasts from this new facility began in December 1968, and regular programming with all three transmitters in use began in March 1970. These three transmitters were given feed-line call signs, VLK, VLL and VLM.

However, on Christmas Eve 1974, the worst cyclone in Australian history struck Darwin, destroying 80% of the city, though fortunately the death toll was quite low considering the circumstances. The large modern transmitter station near Darwin was seriously damaged by Cyclone Tracy and it was evident that it would be off the air for a long period of time.

A temporary new station was urgently needed and site investigations in Western Australia ultimately led to the quick installation for a new facility located near Carnarvon on the central coast. Preliminary test transmissions to assess the feasibility of the projected new station were conducted from another location, Gnangara, just north of the state capital Perth.

The Gnangara facility was previously in use as an OTC station which had been erected for the purpose of shortwave communica-

tion with a satellite tracking station on the island of Mauritius. There were three transmitters at 7.5 kw and several rhombic antennas at Gnangara.

Thus it was that unexpected test transmissions were noted from Gnangara, using two of the low powered communication transmitters in parallel, feeding into directional rhombic antennas. The program tapes were prepared in the Melbourne studios of Radio Australia and consisted of the familiar melody, "Waltzing Matilda," long segments of recorded music, and test announcements in English.

These test broadcasts commenced on February 25, 1975 and concluded two weeks later on March 10. The schedule shows that seven different channels were in use during these two weeks of test broadcasts, ranging from the 31 metre band up to the 16 metre band. They were beamed towards Indonesia, South Africa and England.

This short series of test transmissions from Gnangara was considered to be a success, and they demonstrated that signal propagation into the desired target areas would be adequate from Western Australia. Government approval was therefore granted for the erection of a new though temporary shortwave station at Carnarvon, further north in Western Australia.

A few QSL cards were issued by Radio Australia for these test broadcasts, though they must be quite rare these days. It was just 28 years ago next Tuesday that these test broadcasts from Gnangara on behalf of Radio Australia were suddenly and unexpectedly heard on the shortwave bands.

Listener's Notebook

Al Quaglieri • P.O. Box 888 • Albany, NY 12201-0888 • FAX: (518) 453-0864 • al@alcue.com

AZERBAIJAN [?tent. via Gyanca] *Voice of Southern Azerbaijan* 27/3 +1734-1755* on 9375.6 with 34333, awful modulation, will require more monitoring; should be listed under Iran as clearly against Tehran Govt and seeking reunification of Azeri dominated provinces in Iran with today's Azerbaijan. I am not yet so sure about their schedule on the homepage is 5 days a week. (Wolfgang von Poellnitz-POL, CRW Apr 4/BC-DX/Bueschel-DE)

BANGLADESH *Bangladesh Betar* External Service effective from 31/03/03 to 28/10/03 1230-1300English* 7185 9550

1315-1345	Nepalese	7185 9550
1400-1430	Urdu	7185 9550
1515-1545	Hindi	7185 9550
1600-1630	Arabic	7185 9550
1630-1730	Bengali	7185 9550
1745-1815	En-VOI	7185 9550 15520
1815-1900	English*	7185 9550 15520
1915-2000	Bengali	7185 9550 15520

* General Overseas Service

VOI=Voice of Islam (Alokesh Gupta-IND)

BELGIUM Summer A-03 schedule for *RVT* in English:

0700-0725	5985 JUL
1130-1155	9865 P.K
1730-1755	9925 ARM 13690 SKN 13710 JUL
1930-1955	9925 ARM 13690 SKN
2230-2255	15565 BON 0300-0325 15565 BON

(Ivanov & Datzinov—Radio Bulgaria Observer)

BELARUS *Home Service 1* in Belorussian from March 30:

0400-0600 NF 11735 (ex-7170)

(Ivanov & Datzinov—Radio Bulgaria Observer)

BOLIVIA 6080, *Radio San Gabriel* (presumed), La Paz, New frequency! 0910-0935, April 17. Aymara and some announcements in Spanish. Interview to a countryman from Cabaa La Esperanza. He said about the vegetables and strawberry production. Announcement "Centro Naturista Makitani, en Avenida Tumusla 422, Galeria Metropoli, a dos cuerdas de la plaza...la primer persona que llegue, reclame una friccin totalmente gratis de ua de gato...." Government announcement: "El 9 de Abril el Presidente Gonzalo Snchez de Losada ha promulgado la ley de trabajadoras del hogar...." Very nice Andean music. Ann. or ID: "San Gabriel, sistema de educacin de

adultos a distancia." Strong QRM from Radio Novas de Paz, Curitiba, Brazil in same frequency. 42422 (Arnaldo Slaen, Argentina, hard-core-dx/DX Listening Digest/Hauser-OK)

CLANDESTINE—ASIA Summer schedule for *Radio Sadoye Kashmir*:

0230-0330	NF 6100
0730-0830	9890
1430-1530	NF 6100

(R BUL Observer, Ivo Ivanov and Angel Datzinov, via BC-DX April 8)

CLANDESTINE—MIDEAST *The Voice of Mujahidin of the People* which spreads programs from Iraq towards Iran has it seems stopped emitting. See BELOW. Seemingly freed now the Iranian jammer to increase jamming against VoA Radio Farda transmissions instead. (wb/BC-DX/Bueschel-DE)

The Iranians have been jamming *Radio Farda* much more for some days now. They are using jammers of the "pouring water" type that normally are used against the Mojahed freq jumpers. Are the Mojahed transmitters active, or have they been silenced by the war? (Olle Alm-SWE, BC-DX Mar 26/Bueschel-DE)

The "pouring water" or "chop-chop" jamming of Farda is of the same type that is used on 11575, and a slightly offset carrier is heard. Daytime, 21575 seems not to be jammed—if it is I can't hear it. Similarly, 13680 seemed to be clear of it this morning, but I hear jamming at 1530 but no Farda signal! Jamming seems to be selective at times or maybe it is just haphazard? 17675 and 15290 were both audibly jammed this morning. Perhaps the renewed intensity has to do with events in the country to the west of Iran?

I haven't heard the Clandestine Mojahed stn either—or should I say the jamming. This was an absolute "Pain" in the 9300-9390 range and made freq selection difficult. Presumably the transmitters were in the central/southern part of Iraq and have had a visit from a flying object? (Noel R. Green-UK, BC-DX Mar 26/Bueschel-DE)

I hear the same buzzing sounds I used to hear from Baghdad Radio on this frequency...can you hear anything on this freq? (Tarek Zeidan SU1TZ, EGY, BC-DX Mar 30)

Yes, I hear always a BUBBLE jammer during dark hours, like Iranian type. Bubble jamming the whole

day on 5860 kHz against Farda from Kavalla-GRC. (Mar 29-31/BC-DX/Bueschel-DE)

VoA Radio Farda JAMMING is immense these days: 0500-0600 UT all four channels, 9795-LAM, and the KAV relays 9510, 15185, 15290. At 0700 UT the 17835-KAV outlet also been jammed. At night 5860 is subject of jamming too. (wb Apr 2/BC-DX/Bueschel-DE)

After UK troops took the R&TV building in Basra today afternoon, some of the clandestine stns stopped their bcs: **Voices of Mojahed Revolution & Comm. Party of Iran** on 3880 4380 kHz (**VO Revolution** last time heard today at 0230-0330 in Kurdish). **KOMALA** on 3930, 4615. **Iranian Kurdistan** 3975. **Radio Kurdistan** on 4140 vary (Mar 27). **Radio Republic of Iraq International** last time was heard on Mar 23rd at 0800 with nx in Ar, on 11787 kHz. (Rumen Pankov-BUL, BC-DX Mar 28)

New clandestine via Norway—**Voice of Iran** in Persian: 1800-2057 on 7525 via KVI 200 kW not // on 11575 1630-1830 via ISS 500 kW / 090 deg!!!! (Ivanov & Datzinov—Radio Bulgaria Observer)

At 1900 UT I picked the **Iraqi Republic Radio**—"The Voice of the Iraqi People," with the nx and ID on a new frequency, 4785 kHz first time to hear it on this freq. Used to hear it mainly on 11710 and 9570...if I'm not wrong...Still remember when this stn started in 1991 they used to play only songs for 2 hours no IDs at all. I was really confused about this one till they came up with this confusing ID. "**Idhaat algomhuriya al Iraqiya—sout al shaab aliraqi.**" Around that time the ID of the official Baghdad radio was the same. Till Baghdad changed it's ID to "**Idhaat jomhuriyat AL IRAQ.**" It may not catch your ears the difference, but around that time—it was really REALLY confusing. (Tarek Zeidan SU1TZ, EGY, BC-DX Mar 28/Bueschel-DE)

US intelligence sponsored anti-IRQ station via Saudi Arabia transmitter site, at present heard on 9570 and 11710 even frequency [Apr 1], 1300-0300 UT. Parallel 9563 couldn't heard anymore in Europe.

4785 is a sub-harmonic of 9570 kHz divided by 2 = 4785.

Yes Tarek, is the CIA sponsored Radiostn from Jeddah-ARS, V.O.Iraqi People. Arabic to IRQ 1300-0300 9570 ARS \\ 9563.1, 11710.(wb Apr 1)

4785 kHz, **Voice of Iraqi People**, yesterday 20/03/03 after 2030 til 2150 UTC (then Hohhot signing on that frequency), lots of communiques, patriotic Arabic songs, various IDs, \\ to 9570 (4785 subharmonic of this) which was actually weaker due to unfavourable propagation conditions, on 9563 only some hummy spurs no signal to be copied there. Signal on 4785 best received in USB. (Wolfgang von Poellnitz-POL, hcdx via BC-DX Mar 21/Bueschel-DE)

CROATIA Summer A-03 schedule for **Croatian Radio HS-1** via Deanovac:

0400-0900	6165 7365 9830 13830
0900-1700	6165 9830 13830
1700-2300	6165 13830

(Ivanov & Datzinov—Radio Bulgaria Observer)

EGYPT Radio Cairo has introduced a 10-min English segment within the daily two-hour Arabic sce to Australia 2000-2200. This is noted at 2130-2140 on 11750, with Education and Language Learning Features. The first hour of this transmission is hopelessly degraded by AWR-Guam co-channel, carrying En to Asia 2000-2100. (Bob Padula-AUS, edxp Apr 8/BC-DX/Bueschel-DE)

FRANCE Radio France International English:

0400-0430	9550M 11700 13610
0500-0530	11685M 17800
0600-0630	11665A 17800 21620
0700-0800	15605M
1200-1230	17815A 25820
1400-1500	11610X 17515
1600-1700	9730M 11615 15255M 15605 17850
1700-1730	15605

A=Ascension

M=Moyabi

X=Xian

(Website via Mike Barraclough-UK, BC-DX Apr 3/Bueschel-DE)

GHANA 4915, **Ghana Broadcasting Corporation** Radio One is back on air (15/4/2003) after two month of being off the due to the breakdown of the transmitter which uses valves. With Radio one back on air, Radio 2(two) its sister station that broadcasts in only English on two frequencies of 3336 (at 0530-0900 UTC AND 1700-2330 UT) and 6130 (0900-1700 UT) is off the air that same day. This presupposes that parts of Radio 2 transmitter may have been taken to repair the Radio one transmitter. Radio 1 broadcasts in six of the Ghanaian local languages as well as news bulletin in English (Charles Wompiah, PO BOX 750, Obuasi, Ashanti Region, Ghana, Apr 16, Cumbre DX/DX Listening Digest/Hausser-OK)

GREECE Summer A-03 schedule for **Radiophonikos Stathmos Makedonias** in Greek:

1100-1400	NF 11645
1400-2300	9935

Summer A-03 schedule for ERA-5 **Voice of Greece** Interprogram Orientations:

1300-1400	Arabic/Ge	5650
1400-1500	Russian/Sp	12105
1500-1600	Romanian/Tu	12105
1600-1700	Serbian/Bu	12105
1700-1730	Albanian	12105

1730-1800 French 12105
1800-1900 Polish/English 12105
(Ivanov & Datzinov—Radio Bulgaria Observer)

ICELAND A03 schedule of the *RUV* news relays in Icelandic:

1215-1300 15775
1410-1440 15775
1755-1825 13865
1835-1905 15775
2300-2335 13865

The transmissions are provided by Iceland Telecom and are in AM-compatible A3mode (USB mode -6dB). (RUV info; via Bernd Trutenau-LTU, BC-DX Apr 5/Bueschel-DE)

INDONESIA 5040, 1437-, *RRI Pekanbaru* Mar 29 Strong signal with typical RRI muddy audio fighting it out with Myanmar on 5040.57. Therefore use LSB. Though the het is loud, I'm finding it difficult to hear much of Myanmar. Good overall for the RRI with talk by man and woman. (Walt Salmaniw-BC-CAN, DXplorer Mar 29/BC-DX/Bueschel-DE)

9524.9 *Voice of Indonesia*, good at 1242 with light pop mx, nx headlines, anthem, 1300* Noted 9680 (RRI-Jakarta) was fair at this time also. (Ron Howard-CA-USA, DXplorer Mar 30/BC-DX/Bueschel-DE)

IRAN Freqs changes for *Voice Of The Islamic Republic Of Iran/IRIB*:

0330-0525 Kur/Sorani NF 15425, ex 11665
0230-0427
1130-1427 Kur/Sorani NF 15440*, ex 15610
1030-1327
1430-1627 Kur/ NF 15605#, ex 15610
Kirmanji 1330-1427

(Ivanov & Datzinov—Radio Bulgaria Observer)

IRAQ 6175/11787 No traces of Iraq on these frequencies since Mar 27. Monitored at 0700 and around noon.

The Arabic speaking station on 11785 is Egypt—General Service. (Honzik via HCDX/DSWCI DX Window)

MEDIA BEHAVIOR ROUND-UP 1600 GMT 17 APR 03

AUS newspaper has reported that the USA is sponsoring a new AM radio station in Iraq called the "*Voice of the New Iraq*." The new radio station marked the birth of the "Iraq Media Network," which would eventually include newspapers and TV stations run by returning Iraqi exiles, the report added.

Voice of the Liberation of Iraq, a station believed to have hitherto been operated jointly by var-

ious Iraqi opposition groups in Sulaymaniyah, has been monitored on a mediumwave frequency formerly used by Republic of Iraq Radio's Kurdish service, and is also reported to be broadcasting on FM in Baghdad and Kirkuk.

The US/UK airborne TV service *Towards Freedom* and the UK-run *Radio Nahrain* near Basra are also presumed to be on the air. *US Information Radio* continues to be heard by BBC Monitoring.

The following is a round-up of BBC Monitoring's media observations on Iraq and related reports for the 24-hour period up to 1600 gmt on 17 April:

New broadcasts reported inside Iraq The US newspaper Wall Street Journal on 16 April reported that the USA was sponsoring a new radio station in Iraq called the "*Voice of the New Iraq*," featuring a mix of pop music and promotional ads. The new radio station marked the birth of the "Iraq Media Network," which would eventually include newspapers and TV stations run by returning Iraqi exiles, the report added.

The Wall Street Journal report stated: "Beamed nationwide from a new 20-kilowatt transmitter in the port city of Umm Qasr, the US-sponsored "Voice of the New Iraq" went on air for the first time Tuesday [15 April] with a mix of pop music and promotional ads...The new radio station at Umm Qasr marks the birth of the US taxpayer-funded Iraq Media Network, which US officials say will soon include a nationwide TV channel and an independent newspaper, all run by previously exiled Iraqis along with journalists recruited from within the country..."

"IMN, as it is already known, is the handiwork of the Indigenous Media Project, an offshoot of the Pentagon's Office of Reconstruction and Humanitarian Assistance, run by retired Lt-Gen Jay Garner...The network's technicians have deployed to the Baghdad International Airport to set up mobile TV transmission gear...Project director Robert Reilly used to run Voice of America, but has been in Kuwait for weeks to set up the network...An IMN newspaper and TV station could be months away..."

Voice of the Liberation of Iraq was monitored in Arbil on 17 April from 1000-1700 local time [0700-1400 gmt] on 657 kHz mediumwave (a frequency formerly used by Republic of Iraq Radio's Kurdish service). According to reports which BBC Monitoring cannot confirm, the Voice of the Liberation of Iraq has hitherto been operated jointly by various Iraqi opposition groups in Sulaymaniyah. The station has not in the past announced any contact information or given any direct indication of its political affiliation.

Voice of the Liberation of Iraq was also reported on 17 April to be broadcasting on 88.8 MHz FM for Baghdad, and 89.5 MHz FM for Kirkuk. BBC Mon-

itoring has so far not been able to confirm these FM broadcasts.

US-run Information Radio

During the reporting period US-run Information Radio has continued to be heard at various times on shortwave 4500 and 9715 kHz shortwave and 756 kHz.

FORMER IRAQI SERVICES

Iraq Satellite Channel has not been observed since 1618 gmt on 7 April. Colour bars have been observed on the channel's satellite frequencies since 1024 gmt on 9 April. Arabsat has been reported as saying it will not resume Iraqi TV transmission without Arab League authorization.

Republic of Iraq Television: No video or audio from the main domestic TV channel has been observed by BBC Monitoring. Youth [Shebab] TV has not been reported on the air since shortly after the start of air attacks on Baghdad. No news sources have reported any Iraqi TV services on the air in Baghdad.

Republic of Iraq Radio Main Service was untraced by BBC Monitoring on its usual frequencies in the reporting period. No news sources have reported any Iraqi radio services on the air in Baghdad.

Voice of Youth radio, operated by Uday Saddam Husayn, was last heard by BBC Monitoring at 0430 gmt on 25 March.

BROADCASTS TARGETING IRAQ

Voice of the Iraqi People picture bulletin 2359-0059 15 April 03 The Voice of the Iraqi Republic, the Voice of the Iraqi People has been broadcasting against the Iraqi regime since January 1991. The radio station had been heard before the fall of Saddam Husayn carrying appeals to the Iraqi people and army to rebel against the his regime. (BBC Monitoring research 17 Apr 03/DX Listening Digest/Hausser-OK) DXLD)

KUWAIT/IRAQ 4500 Today I was trying to get Iraq. So I remembered that while monitoring it in 1991, they used to go to off band freqs. So I said I'll give that a try but...On 4500 kHz at 1800 I picked up a weak stn with a familiar voice, but no IDs as they started playing Arabic hip/hop hits. So I stayed waiting and listening to that awful mx but it worth it 1815 now and ID "U Radio listening to your Source of information—Radio Information."

The guy I refereed too is the guy whom I mentioned is working as well in Radio Tikrit that's why I said his voice was familiar. Now they are giving out an annt how to treat a POW from the collation troops treat him well...etc. followed by another hit. (Tarek Zeidan SU1TZ, EGY, BC-DX Mar 29/Bueschel-DE)

LIBERIA Of note, today (Fri March 28), we began testing our transmitter in Liberia on 11515 MHz. This antenna is pointed up through the heart of northern Africa centered on Israel. We finalized the agreement on the three 100 kW's in the Seychelles, and our engineer will be going there later in April to begin the dismantling process. (Doc Burkhart-USA, WJIE, DXLD Mar 28)

MALAYSIA *Voice of Malaysia* A03:

0000-0200	Local	5980 6050
0000-2400	Malay	5965
0000-2400	English	7295
0200-0400	Local	5980 6025 6050
0300-0830	Eng/Malay	6175 9750
0300-1230	Eng/Chin	9665 15295
0400-0600	Local	5980 6025 6050 6060 7130
0600-0800	Local	5980 6025 6050 6060
0800-1500	Local	5980 6025 6050 6060 7270
1000-1400	Indonesia	6175 9750
1030-1230	Chinese	11885
1300-1530	Thai/Bur	6100
1500-1700	Local	6025
1530-1900	Arabic	15295
1700-1900	Malay	6175 9750
2200-2400	Local	5980 6050

(Alokesh Gupta-IND)

MOLDOVA Summer A-03 schedule for *Denge Mezo-potamy* in Kurdish:

0400-1200	NF 11530* KCH
1200-1600	11530 KCH

(R BUL Observer, Ivo Ivanov and Angel Datzinov, via BC-DX April 8)

NORTHERN MARIANAS ISLANDS *KFBS* Saipan A'03

0800-0829	Banjarese	15380
0830-0859	Gorontalo	15380
0855-1059	Russian	11650
0900-0929	Makassarese	15380
0925-0959	Buginese	15380
0955-1600	Mandarin	11580
1000-1029	Sundanese	15380
1030-1059	Javanese	15380
1100-1129	Mongolian	11650
1100-1229	Indonesian	15380
1130-1359	Russian	11650
1300-1359	Vietnamese	12120
1400-1430	Hmong	12120 We
1400-1430	Vietnamese	12120 Mo/Tu/Th/Fr/Sa
1400-1430	Koho	12120 Su
1400-1459	Russian	9465
1500-1529	Russian	9465
1530-1544	Kirghiz	9465 Fr
1530-1544	Uzbek	9465 Th
1530-1544	Chuvash	9465 Sa
1530-1544	Mari	9465 We

1530-1544	Tatar	9465 Mo
1530-1544	Udmurt	9465 Su/Th
1545-1559	Tatar	9465 Mo/Tu
1545-1559	Udmurt	9465 Su
1545-1559	Ossetic	9465 Th
1545-1559	German	9465 We
1545-1559	Kazakh	9465 Fr/Sa
1600-1629	Russian	9465 Su-Fr
1600-1629	Ukrainian	9465 Sa
1630-1829	Russian	9465
1830-1845	Ukrainian	9465 Mo/We/Fr
1830-1845	Russian	9465 Su/Tu/Th/Sa
1845-1900	Russian	9465 Su/Th/Sa
1845-1900	Ukrainian	9465 Mo/Tu/We
1845-1900	German	9465 Fr
2230-2330	Vietnamese	12095

(Robert Springer-FEBC/Gupta-India)

PAKISTAN Radio Pakistan/PBC A03:

0045-0115	Assami	11650 15625
0045-0215	Urdu	15485 17895
0115-0200	Bangla	11650 15625
0215-0300	Hindi	9340 11640
0315-0345	Tamil	15625 17540
0400-0430	Gujrati	15485 17825
0500-0700	Urdu	15100 17835 21460
0800-1104	Urdu	17835 21465
0945-1015	Tamil	15625 17495
1015-1045	Sinhali	15625 17495
1100-1145	Hindi	11640 15625
1200-1230	Chinese	11570 15070
1200-1245	Bangla	15625 17635
1245-1315	Nepali	15625 17635
1330-1400	Turki	5860 7375
1330-1530	Urdu	11570 15065
1415-1500	Russian	7375 9385
1515-1545	Dari	5860 7375
1600-1615	English	11570
1600-1615	English	15065 15725 17820
1630-1700	Turkish	9385 11550
1700-1900	Urdu	9400 11570
1715-1800	Irani	7550 9385
1800-1900	Urdu	7550
1815-1900	Arabic	9385 11550
1915-0045	Urdu	7570

(Iftikhar Malik=PBC/Gupta-INDIA)

RUSSIA From March 30 *Dr. Gene Scott* again on air via SAM 100 kW

0300-1600 17765

Other stations via SAM 250 kW:

Voice of Homeland

1500-1530 Arabic 12120 12085

RTV Mezopotamiya

1700-1800 Kurdish 7560 Tu/We/Fr

Sagalee Oromiya

1730-1800 Oromo 12120 Mo/Th

Dejen Radio

1700-1800 Tigrinya 12120 Sa
(Ivanov & Datzinov—Radio Bulgaria Observer)

SLOVAKIA Radio Slovakia International announced the following English schedule April 2nd:

0100-0130 5930 6190 9400
0700-0730 9440 15460 17550
1630-1700 5920 6055 7345
1830-1900 5920 6055 7345

(Mike Barraclough-UK, BC-DX Apr 3)

SOUTH AFRICA SARL DX Program:

0800-0855 9750 17815 Su
1900-1955 3215 Mo

QSL address: P.O.Box 90438 Garsfontain 0042, South Africa eMail: <armi@sarl.org.za>(Klaus-D, A-DX Mar 30/BC-DX/Bueschel-DE)

Jakada Radio International in English again on air effective March 27: 1900-1930 Mon-Fri on NF 15170 via Meyerton. (R BUL Observer, Ivo Ivanov and Angel Datzinov, via BC-DX April 1/Bueschel-DE)

SRI LANKA Sri Lanka Broadcasting Corp. has swapped freqs from today. The English Service is now on 11930 (x9770) at 0030-0430 & 1230-1630. The Hindi/Tamil, Kannada/Telegu/Malayalam Service to India is now on 9770 (x11905) at 0030-0400 & 0800-1530. Today at around 1000 heard their tests on 11930 with Sinhala FM 93.2 progs for some time. (Jose Jacob-IND, VU2JOS, DX_india Mar 31/BC-DX/Bueschel-DE)

Heard SLBC Eng (All Asia Service) today morning between 0120-0235 on 11905. They had frequent announcements for this new eng freq 11905 & asking for reception reports. Nothing was heard on 11930. Freq's announced on air as following: (For Eng) Morning—0030-0430—15445, 6005, 11905 (Annncd as new freq) Evening—1230-1630—15745, 6005, 11930 Hindi noted on 9770 at 0235 UTC. (Alokesh Gupta-IND, Cumbre Apr 1/BC-DX/Bueschel-DE)

TANZANIA 5050.1, *Radio Tanzania*, Dar es Salaam, back after four months absence 1925- 2100*, Apr 05 and 07, Swahili ann, hymns by choir, 1930 Afropop. The station had gone off when I checked again at 2005 on Apr 05. Also heard in Finland Apr 06, so seems to be daily. (Petersen/DSWCI DX Window)

THAILAND Radio Thailand, World Service effective March 30

0000-0030 English 9870
0030-0100 English 15395
0100-0200 Thai 15395
0300-0330 English 15395
0330-0430 Thai 15395

0530-0600	English	21795
1000-1100	Thai	11805
1100-1115	Vietnamese	7260
1115-1130	Khmer	7260
1130-1145	Lao	6030
1145-1200	Burmese	6030
1200-1215	Malaysian	11805
1215-1230	Indonesian	11805
1230-1300	English	9700
1300-1315	Japanese	11850
1315-1330	Mandarin	11850
1330-1400	Thai	11685
1400-1430	English	9830
1800-1900	Thai	9695
1900-2000	English	7155
2000-2015	German	9680
2015-2030	French	9680
2030-2045	English	9680
2045-2115	Thai	9680

(Gupta/Japan Premium/Iwata Gatu-JPN)

UGANDA 5026 *Radio Uganda*, Kampala, noted today 2 Apr 1852-1906 in the clear airing Vn prgring w/ tks & phone-ins when suddenly disturbed a bit by a uty. stn right at 1900. 35433, so no "interaction" w/ BEN 5025, which was vy poor as opposite to my reported 21 Mar observation. (Carlos Goncalves-POR, BC-DX April 3/Bueschel-DE)

UNITED ARAB EMIRATES UAE *Radio Dubai* in Arabic and English noted on April 5-7: 0600-2100 13650 (ex-13675)

(Ivanov & Datzinov—Radio Bulgaria Observer)

UNITED KINGDOM BFBS is heard via two new frequencies -6015 (ex listed 6105) now heard at 1800-2000 at very strong level, and new 17635 is in use at 1600-1800 (ex listed 15245 & 15150). The complete schedule via Merlin transmitters, Russia and Uzbekistan should now be:

0300-0400	7260	15795
0400-0600	11975	15795
0600-0700	15425	15795
1400-1600	13860	17895
1600-1800	13860	17635
1800-2000	6015	13760

(Green/DSWCI DX Window)

Address:

BFBS Services
Sound & Vision Corporation
Chalfont Grove
Narcot Lane Chalfont
St. Peter Gerrards Cross
Buckinghamshire SL9 8TN England

(Andy Sennitt-HOL, hcdx Apr 2)

UNITED STATES OF AMERICA Updated schedule for *VOA / Radio Sawa* in Arabic: 0000-03006185 7150 7185 9645

0300-0500	6160	7150	9660	9805		
0500-0600	6160	7150	9660	9805	11920	
0600-0700	7150	11920	17780	21630		
0700-0800	11920	15475	17780	21630		
0800-1100	11920	15475	17765	21630		
1100-1200	11920	15475	17765	21770		
1200-1300	11920	11995	15475	21770		
1300-1400	12025	11995	15475	21770		
1400-1600	11995	12020	21770			
1600-1700	11810	21770				
1700-1800	7280	11825				
1800-1900	7180	7280	9530	11825	11905	
1900-2000	7195	7280	9530	9615	11825	11905
2000-2100	7195	7280	9530	9650	11825	11905
2100-2300	7195	7280	9530	9650	9745	11765
2300-2400	6185	7150	9650	9745	11765	

(Ivanov & Datzinov—Radio Bulgaria Observer)

Radio Free Asia updated schedule of April 2nd, 2003.

0000-0100	Lao	12015I	13830	15545T	
0030-0130	Burmese	13680T	13820I	15660	
		17525	17835S		
0100-0200	Uighur	9350	11520	11895UAE	
		11945UAE	15405T		
0100-0300	Tibetan	9365	11695UAE	11975H	
		15225T	15695	17730	
0300-0600	Mandarin	13670T	13760T	15150T	
		15665T	17495	17525	
		17615S	17880S	21690T	
0600-0700	Mandarin	13670T	13760T	15150T	
		15665T	17495	17525	
		17615S	17880S		
0600-0700	Tibetan	17485	17510	17720	
		21500T	21690UAE		
1100-1200	Lao	9355S	9545T	15560I	15635
1100-1400	Tibetan	7470	11590	13570	13625T
		15510UAE	15695	17855H-	
		(from 1200)			
1230-1330	Cambodian	13645T	15525I	15545	
		15625			
1300-1400	Burmese	11515	11540	11635	
		11765T	13745T	15680	
1400-1500	Cantonese	9775T	11715T	13625T	
		13790T			
1400-1500	Vietnamese	9455S	9635T	9930W	11510
		11520	11535	11605N	
		11765T	13775P	15705	
1400-1500	Korean	7380	9695T	11790T	13625T
		15625			
1500-1600	Tibetan	7470	11510	11590	11705T
		11780UAE	13835		
1500-1600	Mandarin	7540	9905P	11765T	
		11945T	12025S	13625T	
		13690T	15510T	15680	
1500-1600	Korean	9385S	13625T		
1600-1700	Korean	7210irk	9385S	13625T	

1600-1700	Uighur	7465 9350I 9370 9555UAE 11780T 13715I	1430-1500	Hindi	17775 15295 9715 7285
1600-1700	Mandarin	7540 9455S 9905P 11750T 11795T 11945T 12025S 13690T 15510T 15680	1520-1550	Dari	9715 7285 6190
1700-1800	Mandarin	7540 9355S 9455S 9540T 9905P 11750T 11795T 11945T 11995S 13690T 15510T 15680 17640T	1550-1630	Uzbek	9715 7285 6190 5040
1800-1900	Mandarin	7530 7540 9355S 9455S 9540T 11520 11740T 11945T 11955T 11995S 13680T 15510T 15680 17640T	1630-1700	Farsi	9715 7285 6190
1900-2000	Mandarin	7530 7540 9355S 9455S 9605T 9905P 11520 11740T 11785T 11945T 11955T 11995S 13625T 13680T 15510T 15680	1700-1730	Turkish	9530
2000-2100	Mandarin	7530 7540 9355S 9455S 9850T 9905P 11520 11700T 11740T 11785T 11935T 11995S 13625T 13670T 15515T 15680	1700-1730	Arabic	9715 7285 6190
2100-2200	Mandarin	7540 9455S 9850T 9910P 11700T 11740T 11935T 11995S 13625T 15515T 15680	1730-1830	Uzbek	9715 7285 6190 5025
2200-2300	Cantonese	9355S 9955P 11785T 13675T	1830-1900	Farsi	9715 7285 6190
2200-2300	Korean	7460 9455S 9850T 11670S 12080T	1900-1930	Arabic	9715 7285 6190
2230-2330	Cambodian	7455 9490I 9930P 11570 13735T	1935-2030	German	11905 5040
2300-2359	Mandarin	7315N 7540 9910P 11785T 11935N 11995N 13640T 13800S 15430T 15550T 15680	2030-2100	English	11905 9545 5040
2300-2359	Tibetan	7470 9365 9805UAE 9875H 15695	2130-2200	English	11905 9545 5025
2330-0029	Vietnamese	9975 11540 11560 11580 11605N 11670T 12010I 13735S 15560P			

(various sources, updated on April 2nd, 2003/BC-DX/Bueschel-DE)

UZBEKISTAN Radio Tashkent International A03
schedule:

0100-0130	English	9715 7190
0130-0200	Dari	9715 7190
0200-0230	Pashto	9715 7190
0230-0330	Uzbek	9715 7190 5040
0600-0630	Turkish	15200
1200-1230	English	17775 15295 9715 7285
1230-1300	Urdu	17775 15295 9715 7285
1300-1330	Hindi	17775 15295 9715 7285
1330-1400	English	17775 15295 9715 7285
1330-1400	Chinese	5060
1400-1430	Uighur	5060
1400-1430	Urdu	17775 15295 9715 7285
1430-1500	Chinese	5060

(Station info via Alexander Polyakov, Tashkent-UZB via Trutenau-LTU edxp Apr 9/BC-DX/Bueschel-DE)

VIETNAM In a break with tradition, *Voice of Vietnam* is now operating on new 11630 1100-1130, 1300-1400, 1600-2130. This is from the Son Tay site, parallel with 13740. This is a terrible freq choice, clashing with co-channel China, also using 11630 1800-2000 to WeEurope, (with Russian 1800-1900) and 2000-1730 domestic see to China. This is a change from 11640, used for previous summer seasons. There have been other adjustments to 11 MHz channels, including rearrangements for 12020 timings. Overseas relays are now Sackville 6175 0000-0500, Moosbrunn 9725 1700-1900, and Skelton 9725 1900-2030. (Bob Padula-AUS, edxp Apr 1/BC-DX/Bueschel-DE)

ZAMBIA 5915, *ZNBC*, weak at *0241 with Fish Eagle IS, choral anthem, into En prorg, re-checked at 0424, ancr in vernacular., fair. (Ron Howard-CA-USA, DXplorer Mar 27/BC-DX/Bueschel-DE)

ALL OVER THE PLACE Adventist World Radio
schedule

0000-0100	Hindi/En	9610A 9720A
0000-0200	Mandarin	12120G 15370G 17635G
0100-0200	Vietnamese	15445P Sa
0200-0300	En/Urdu	9820B
0230-0330	Fa/Tigr	11945A
0230-0330	Malagasy	3215T
0300-0330	Oro	11710B
0300-0330	Russian/En	15160A
0300-0330	Amharic	11975A
0330-0400	Farsi	11965B
0330-0400	Kiswahili	11975A
0330-0400	Somali	12015A
0400-0500	Bulgarian	7125J
0400-0500	Arabic	15250B
0430-0500	French	9645M
0500-0530	English	3215M
0500-0530	Yoruba	9600M
0530-0530	English	15105M
0530-0630	Ibo/Hausa	15345M
0600-0700	Arabic	15250B 15330B
0600-0730	Arabic/Fr	15160J
0700-0730	German	7230B
0730-0800	English	9775B
0800-0930	Dyula/Fr/En	17780B

6015	TZA	Radio Tanzania Zanzibar, Dole	7217	AGL	Radio Nacional de Angola, Mulenvos, Luanda
6025	NIG	FRCN, Enugu	7220	CAF	Radio TV Centrafricaine, Bangui
6030	ZAI	Radio Okapi, Kinshasa	7230	BFA	Rdif TV Burkina, Ouagadougou
6050	NIG	Ibadan National St., Ibadan	7245	MTN	Radio Mauritanie, Nouakchott
6055	RRW	Radio Rwanda, Kigali	7255	NIG	Voice of Nigeria, Lagos
6060	NMB	NBC-2, Windhoek	7285	MLI	Rdif.TV Malienne, Bamako
6065	ZMB	Christian Voice, Lusaka	9550	ZAI	Radio Okapi, Kinshasa
6090	NIG	Radio Nigeria, Kaduna	9580	GAB	Africa No.1, Moyabi
6095	AFS	AWR, Meyerton	9610	COG	Radio Congo, Brazzaville
6130	GHA	GBC, Accra	9634	MLI	Rdif.TV Malienne, Bamako
6145	CLA	Short Wave Radio Africa, Meyerton(?)	9650	AFS	SABC, Meyerton
6165	TCD	Rdif. Nat. Tchadienne, NDjamna	9704	ETH	Radio Ethiopia, Gedja
6165	ZMB	ZNBC, Lusaka	9705	NGR	La Voix du Sahel, Niamey
6210	ETH	Radio Fana, Addis Ababa	9865	ZMB	Christian Voice, Lusaka
6249	GNE	Radio Nacional de Guinea Ecuatorial, Malabo	11690	ZAI	Radio Okapi, Kinshasa
6350	ETH	Voice of the Tigray Revolution, Mek'el	11955	AGL	Radio Nacional de Angola, Mulenvos, Luanda
6350	CLA	Voice of Peace & Democracy of Eritrea	11960	MLI	Rdif.TV Malienne, Bamako
6715	CNR	Full Gospel Las Palmas Church	15475	GAB	Africa No. 1, Moyabi
6940	ETH	Radio Fana, Addis Ababa	17630	GAB	Africa No. 1, Moyabi
7100	ERI	Voice of the Broad Masses, Asmara			
7110	ETH	Radio Ethiopia, Gedja			
7120	CLA	Voice of the People, Talata/Volondry			
7125	GUI	Rdif. TV Guinnee, Conakry			
7175	ERI	Voice of the Broad Masses, Asmara			
7185	AFS	SABC, Meyerton			
7200	SDN	Sudan National Broadc.Co., Omdurman			
7210	BEN	ORTB, Radio Benin, Cotonou			
7215	CLA	Voice of the People, Talata/Volondry			

On the tropical bands I heard no more stations than I can hear in Denmark, whereas on the international bands some African stations appeared that normally are covered in Denmark by other stations or are only broadcasting during local daytime. (Petersen/STP/DSWCI DX Window) 

WELCOME TO THE FOLLOWING NEW MEMBERS

JERRY SILVERSTEIN, Silver Spring, MD
STEVEN WOOSLEY, Coos Bay, OR
KEN NEWMAN, Tampa, FL
JEFFREY SKERKER, Medford, MA
DAVID VOELK, Syracuse, NY
FRED J. MEIJERING, Mondamin, IA
ROBERT TALAGA, Aztec, NM
THOMAS HANCOCK, Pittsburgh, PA
RICHARD BURDA, Elfrida, AZ
JULE GREENE, Dublin, GA

More on page 35

Pirate Radio Report

Chris Lobdell • P.O. Box 146 • Stoneham, MA 02180-0146 • clobdell@attbi.com

Vote! Vote! Vote!!

Yes, it's time to make **your** vote count in our annual Pirate Popularity Poll. What's our favorite station? J.B. from WHYP? Max from KIPM? how about Dr. Benway from Undercover Radio? Maybe it's 10 year veteran Bram Stoker of Radio Azteca. Anyway, it's time to vote for your favorite and least favorite shortwave pirate [if you have a least favorite] that's been active in the past year.

Drop me a post card or email me with your choice. As Sanjay from Partial India Radio might say, "hurry, time is running out like a sacred cow is running down the street in Delhi".

The Mystery Of Radio Tre—Italy

This Italian FM pirate was first noted on 9 April 2003 UTC in North America on 6955 kHz to past 0300 UTC on the 10th. Radio Tre [3] is an FM station operating on 100.1 FM in the Sienna-Firenze area of Italy.

Emails to the station claim that they are not on shortwave and another station is illegally relaying them. Rumor has it that it might be Crazy Wave Radio. The next night they popped up on 6275 kHz and were still there on the 13th. Reception is best in Europe so the transmissions appear to emanate from there.

For more information, check their web site: www.radio3.net.

Loggings

Many thanks to the following fine folks. Scott Barbour-NH, Joe Wood-TN, George Zeller-OH.

Big Thunder Radio, another new one, was logged on 6950 kHz USB from sign on at 0258 until sign off at 0331 UTC on April 13th. Program primarily of rock, but also

with some antique commercials including one for Meow Mix and another for Hawaiian Punch. Gave a hotmail.com e-mail address that I did not fully copy. [Zeller-OH]

Grasscutter Radio was logged on 6925 kHz from 0415-0505 UTC sign off on April 16th. Lots of music by Jimi Hendrix and a few by Ted Nugent tossed in. Lots of talk over music about beer and dope. Lots of IDs and "Yeah Man", hoped everyone could listen tonight, mentioned LCee, JB and a host of other FRN names. [Barbour-NH]

Radio Pigmeat International was logged on 6925 kHz in the AM mode on 04/14/2003 at 0028-0040+ UTC. Several punk tunes including: "Message in a Bottle" at 0030 which may have been from a live recording, a long version of "Rebel Yell" by Billy Idol at 0036. Male announcer at 0040 with sign off announcements and ID as "You've been listening to Radio Pigmeat International." Last song monitored was by Mojo Nixon. Good signal with some fading. [Wood-TN]-

Shadow Radio is the tentative name of this one. Logged on 6950U from 0149-0248 sign off on 14 April. I heard several mentions of "Shadow," and thus I cite this tentative ID. Most of the show was rock with an OM announcer. Station left the air for a minute at *0248* but then came back on. Belfast address copied twice. [Zeller-OH].

Sunshine Radio noted on 6950 kHz LSB from 0305-0338* on April 14th. Disco era music w/"Disco Inferno", "How deep is your love", "Jive Talking", 3 instrumentals and an Unplugged version of "I will always love you". Female DJ b/w songs with ID. "Hope you enjoy the music, This is The Sunshine Radio", mentioned song titles on occasion. No contact info given. Good signal levels with good voice audio, poor music audio; over modulated w/ QRM from SP ops. [Barbour-NH]

Until next month, Happy Pirate DX!! 

QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010



**ADVENTIST
WORLD RADIO**

The Birth of Jesus

AWR QSL Card NM51
A07-E 2002

To: John Squarletta

We are pleased to verify your reception of our stat

Date: 08/10/02 Comment: _____

New AFIC: 2841-0312

Power (W): 100

Freq. (MHz): 153.70

Modeband: 19

Transmitter location: Agat, Guam

Signature: 

www.awr.org
• Program schedules
• Real Audio programs
• Photos of AWR sites

Adventist World Radio
39 Brandon Street
London W1M 5AD
England



AUSTRALIA: HCJB 11755
f/ color, computer generated "Diversion Dam" QSL ltr. w/ personal ltr. in 41 ds. for 1 IRC and a rpt. to: HCJB, P.O. Box 291, Kilsyth, Victoria 3137. (Barbour-NH) 15480 same w/ "Asian Release" schedule in 19 ds. for 1 IRC. (Barbour-NH). Voice International 11770 via Cox Peninsula ltr. w/ personal note and schedule in 33ds. (Glotzbach-NM).. **HCJB 15480** f/d e-mail QSL in 2

ds. for an e-mail rpt. (Comeau-MA). 11770 same in 20 ds. (Craighead-KS) 15480 p/d "Sunrise / Sunset" cd. via Quito in 1 mo. (Craighead-KS).

BONAIRE: Radio Vlaanderen International 13700 f/d
"Antwerpen, Stadhuis" cd. w/ schedule and sticker.

MEMBERS NOTES: Scott Barbour says he had a penpal request from Ghana. Be careful with this especially if the writer starts asking for money, tickets, etc. Recent scams involving Nigerians have surfaced lately but I can remember the requests for money, trips and college tuition from Ghana back in the early 60s...Sam. Scott also says that he got his QSL from Radio Pakistan but they forgot to enclose the cd. and sticker as mentioned in their ltr. Scott wrote back to them. If they reply hopefully they will enclose their pennant. It is pretty nice looking...Sam. Marlin Field says hello to everyone. Thanks for the kind remarks.



in 14 ds. Very nice cd. (Barbour-NH).

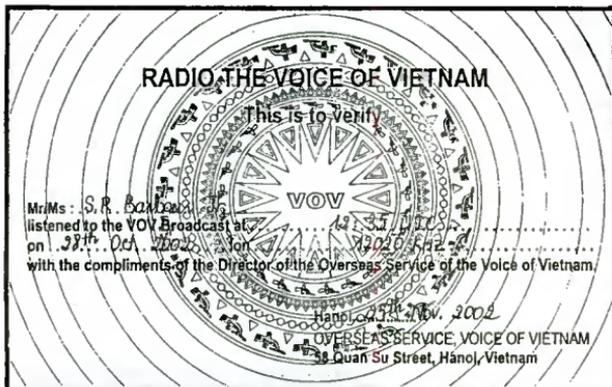
BRASIL: Radio Congonhas 4775 short date/frequency ltr. in 64 ds. for rp. \$1.00. The station stamped my prepared cd. I rcv'd. a pocket calendar and a station brochure. (D'Angelo-PA).

CHILE: Radio Vox Cristiana 17680 f/d cd. w/ schedule in 10 ds. for 1 IRC. Addr: P.O. Box 2889, Miami, FL 33144. (Wood-TN).

CHINA, PEOPLE'S REP. OF: China National Radio 4850 f/d cd. in 19 ds. (D'Angelo-PA).

CLANDESTINE: Voice of Democratic Eritrea 15670 f/d ltr. in 84 ds. for 1 IRC for a rpt. to: Postfach 1946, 65409 Russelheim, Germany. (Barbour-NH). 15365 f/d





paper QSL on my 3rd try. Very pleased with this one. (Field-MI). World Falun Dafa Radio 9940 cd. w/ station info. from Harry Dian. Addr: P.O. Box 93436, City of Industry, CA 91715. (Field-MI). Voice of Free Lebanon (FPM Radio Station) 11515 f/d e-mail in 3 ds. for an e-mail rpt. to: radio@tayyar.org (Comeau-MA). Radio Chan Troi Moi 15715 via Deutsche Telekom in Julich blue and yellow "CTM/Tower Logo"

cd. w/ personal note asking me to send them a rpt. on my next trip to Vietnam in 14 mos. Addr on the cd: Correspondence Section Radio CTM, P. O. Box 48, Hishi Yodogawa, Osaka 555, Japan. Also rcvd. QSL for reception on 15750, reportedly via Palau. (Craighead-KS). Radio Free Vietnam

STATION NOTES: Radio Pioneira de Teresina 5015 v/s Joel Silva. E-mail: pioneira@webone.com.br WEB: http://www.radiopioneira.am.br Radio Jornal a Critica 5055 v/s Rui Souto de Alencar, Director Executivo. Addr:

Avenida Andre Araujo 1024, Aleixo, CEP-69060-000 Manaus, AM. Radio Gaucha 6020 v/s Gilberto Kussler, Gerente Tecnico. Addr: Avenida Ipiranga 1075, 2 Andar, CEP-90160-093 Porto Alegre, SP. Radio Cultura Sao Paulo 9615 and 17815 v/s Eduardo Weber, Coordenador Producao....via PLAY DX...Sam.

HCJB Australia
"The Voice of the Great South Land"
 E-Mail - english@hcjb.org.au
 via D'Angelo and several others



The Diversion Dam at Kunurra in the far northwest of Australia.

HCJB Australia's property is situated adjacent to the right hand side of this dam. It is from here that our South Pacific broadcast commenced transmission on 11755 KHz at 25KW on the 5th January '03, moving to 11770 KHz on the 2nd February '03. Test transmissions to Asia on 15480 KHz began on 24th January '03 with broadcasting commencing on 2nd February '03 on 15480 KHz at 75 to 100KW.

To: Mr. Richard D'Angelo

We wish to thank you for your reception report and hereby acknowledge it with this verification.

Date	Time/UTC	Frequency kHz
25 January 03	1020-1105 UTC	11755 khz

9930 via KWHR f/d cd. w/ picture of the Vietnamese flag and photo of Vuong Ky-Son, who is also the v/s in 54 ds. for SASE (used). (Barbour-NH). Voice of Biafra International 15670 e-mail reply in 2 ds. for a rpt to: biafrafoundation@yahoo.com. (D'Angelo-PA). Hmong Lao Radio 12070 n/d ltr. from v/s Shoua Cha, Chairman. Addr: 302 University Avenue, West, St. Paul, MN 55103. (D'Angelo-PA). Radio Sedaye Iran 17880 and 15660 ltr. in 1 wk. Transmitter site given as Mount Wilson, CA. (Field-MI). Voice of Oromo Liberation 15670 f/d ltr. w/ SBO info. sheet in 183 ds for 1 IRC. from the Berlin addr. (Barbour-NH).

QSL No. 176

POST CARD
1952-2002



Japan Short Wave Club.



We are very pleased to verify your reception of our broadcast in commemoration of the 50th anniversary of J-SWC as follows:

50th ANNIVERSARY

Station: Radio Japan via Canada

Date: 15 Sept 2002 Time: 00:42 UTC
Frequency 6145 kHz Language: English

To: (Mr.)
Richard A. D'Angelo

We hope your continuous support of our club activities in the future.

Signature: F. Yasuda

QTH of J-SWC Headquarters: J-SWC-8601
P.O. Box 29, Sendai Central
980-8691 JAPAN

CUBA: China Radio International 5990 f/d cd. w/ site in 5 wks. Also rcvd. photo of Mr. Ying Lian and his family along w/ paper cuts. (Lawrenson-RI)

ECUADOR: La Voz del Napo

3279.5 f/d ltr. in 37 ds. (Glottzbach-NM). HCBJ 9745 rcvd. 4 QSLs for 2002 in one ltr. Personal note from Jim Wilbar of Studio 9 (he used to be our pastor). Station says there will be no new QSL cds. for 2003 but you can request cds. from previous

years. Good way to complete different series. (Field-MI).

ENGLAND: British Forces Broadcasting Service 13720 p/d "Globe" cd. in 46 ds. for \$1.00. (Comeau-MA). 15530 p/d "BFBS World

MEMBERS NOTES: Jill Dybka hopes everyone had a great holiday season. She is a "ham" and recently received her first report from a SWL. She says its strange to think that she is someones DX. Paul Brouillette says he was surprised by the sudden responses from Brasil (as noted in last months QSL Column) Maybe the US Government forgave a big loan...Sam. Gerry Bishop, who is probably stationed under some rock in the Iraqi desert, says no QSLs this mo. I agree with you it is getting rather commonplace...Sam. Also, thank you to everyone for the best wishes and



the complimentary comments in last months bulletin regarding my 25 years of service. My wife says I'll probably never leave the QSL Column. When I die they'll stick a broomstick up my butt and put me in the corner somewhere...Sam.

Undercover Radio
From the middle of nowhere it's Undercover Radio!

Controlling	DATE	UTC	FREQ
Scott R.	1-1-03	2304	6753.5
Transmitter	Antenna	Fewer	
Hemelrad	500ft 30pp	300w	

No Assistance
Dr. Benway
Confirmation # 25

wide Radio Network" cd. in 6 wks. (Craighead-KS). Radio Farda 15410 via Wooferon f/d cd. in 16 ds. v/s John Vodenik. (Glottzbach-NM).

EUROPIRATES: Radio Casanova and Radio Mario 6260 for the same transmission (I think Mario relayed Casanova). f/d ltr. from Casanova and a f/d cd. from Mario in 19 ds. for an e-mail rpt to: Radiocasanova@hotmail.com (Comeau-MA).

FPM Radio Station: Voice of Free Lebanon

FRENCH GUIANA:

China Radio International 9730 f/d cd. in 1 mo. w/ 2 stickers(Field).

GABON: Radio Japan 15355 via Moyabi f/d "Paper String Art/ Sea Bream & Waves" cd. w/ schedule,

Date:	December 9, 2002
Time:	18:00 GMT
Frequency:	11516 khz
Country:	JSA
Name:	Richard A. D'Angelo
Email:	mailto:rlxindali@twind.itRDangelo3@aol.com

We confirm your reception report to our FPM Radio Station.

We are happy about your interest and we hope you can get some information about our occupied country and our struggle for freedom and democracy against the suppression of the pro-syrian regime in Beirut.

The widening of information is very important to us.

Check our website for more info about our occupied LEBANON.

FM 107.1 LAFM

OLAVARRIA

PCIA. BUENOS AIRES

station pennants on this page are via PLAY DX

ARGENTINA

rior" cd. w/ "40 Anos Radio Maya" station pennant in 90 ds. for an EG rpt. and \$1.00. v/s Pedro Gaspar Pedro, Gerente. (Barbour-NH).

HUNGARY: Radio Budapest 9835 via Jaszbereny f/d cd. w/ sticker in 1007 ds. (Glottzbach-NM). 9560 and 9570 rcvd. 3 different beautiful f/d cds. in 9 mo. on my 2nd try. Schedule rcvd. (Field-MI). 9560 f/d "Bridges" cd. w/ schedule in 225 ds. for 1 IRC. (Barbour-NH).

ITALY: Italian Radio Relay Service 5780 e-mail * rpt. in 2 ds. from Alfredo Cotroneo. Station says "Due to limited funds, we find it difficult to verify every report". (D'Angelo-PA).

MOLDOVA: Voice of Russia 7180 cd. w/ personal ltr. in 1 mo. Calendar and XMAS cd. rcvd. (Field-MI).

NETHERLANDS: Radio Netherlands 9845 via Plevo f/d cd. in 70 ds. for a SP rpt. and 1 IRC. Also rcvd. postcard, calendar and sticker. (Weissborn).

OMAN: Radio Sultanate of Oman 15140 p/d QSL folder in 25 ds. for 1 IRC after a f/up rpt. v/s Salim Jameel, Director of Frequency. (Barbour-NH).

PALAU: T8BZ Voice of Hope 9965 cd. in 116 ds. in which the station stated that their operators are now Chinese and part of the "underground church" in China. (Glottzbach)

PERU: Radio Atlantida 4790 n/d sheet w/ personal ltr., station pennant and tourist brochures in 36 ds. for \$1.00 v/s Carmelo Lopez Paredes. She is the announcer for a program called "Trocha Turistica". (D'Angelo-PA).

RUSSIA: Bible Voice Broadcasting 12035 * and 7180 via Irkutsk f/d cd. w/ schedule in 1 mo. from the Toronto addr. (Field-MI).

site, rpt. forms and a pocket calendar in 57 ds. for 1 IRC. v/s J. Tada. My 82nd NASWA country. (Barbour-NH).

GERMANY: High Adventure Radio Ministries 15715 via Deutsche Telekom Julich cd. in 3 1/2 mo. (Field-MI). Radio Farda 13680 via Lampertheim cd. in 14 ds. for SASE v/s John Vodenik. (Glottzbach-NM). IBRA Radio 9405 via Deutsche Telekom Julich 2 f/d cds. for receptions on 2 ds. My rpt. sent to: Box 4033, SE-14104, Huddinge, Sweden. (Field-MI).

GHANA: Radio Ghana 3366 f/d "GBC" cd. in 336 ds. for a registered rpt. and 2 IRCs. The cd. features a logo for the "Golden Jubilee". Someone used the back of the cd. for personal office notes and an appointment reminder. (Barbour-NH).

GREECE: Radio Farda 9435 via Kavala f/d cd. in 17 ds. v/s John Vodenik. (Glottzbach-NM).

GUATEMALA: Radio Maya de Barillas TGBA 3325 f/d "Mayan War-

Kc 5.s 6 7 8 10 12 14 16

WC 29

radio venado tuerto

VENADO TUERTO Sta Fe

CW17 Radio Frontera LA VOZ POPULAR ARTIGAS



URUGUAY

SEYCHELLES: Far East Broadcasting Association 15535 f/d cd. w/ 2 stickers in 34 ds. for 1 IRC. v/s Doreen Dugathe. Beautiful stamps on the envelope. (Barbour-NH).

SINGAPORE: Radio Netherlands 11690 via Kranji cd. in 2 mos after numerous f/up rpts. for a 1999 reception. (Field-MI). Radio Singapore International 9665 f/d "Parliament House/ Boat Quay Skyscrapers" cd. w/ station sticker, metal "Logo" bookmark and 2 newsltrs. of which one featured a letter from our own Jerry Berg on the Mailbag page. All in 30 ds. for 1 IRC. (Barbour).

SPAIN: China Radio International 9690 cd. in 1 mo. w/ paper cuts of sheep. This is the year of the sheep on the Chinese calendar. (Field-MI)...What no boots!

SPANISH MOROCCO: Radio Sawa 9665 via Breich f/d cd. in 32 ds. on my SASE v/s John Vodenik. (Glotzbach-NM). Radio Farda 9585 via Breich f/d cd.

in 16 ds. v/s John Vodenik. (Glotzbach-NM).

SWEDEN: Radio Sweden 18960 p/d "Elderly Man Napping" cd. in 14 ds. (Barbour-NH). 9495 p/d "Birds" cd. in 42 ds. (McGuire). 18960 special transmission of the "Swedish National Bundy Final" verified w/ a f/d "Teracom" cd. in 13 ds. v/s Magnus Wilberg. (D'Angelo-PA)...Was this the national championship for all Swedish shoe salesman who are married to red headed coach potatoes?

TIBET: Xizing People's Broadcast-

ing Station / Holy Tibet Radio 6200 f/d cd. w/ station stamp in 72 ds. for CH airmail stamps. (Comeau-MA).

UNITED ARAB EMIRATES: Radio Australia 21780 cd. in 6 mo. on my second try. Schedule was rcvd.

USA: WBOH 5920 f/d cd. w/ (Field-MI). religious info., schedule and a note requesting that I tell friends about their radio station and WTJC. v/s R.J. Bendick. This was for 1 IRC. Addr: FBN, 520 Roberts Road, Newport, NC 28570. (Wood-TN). "Light-house" cd. marked "test" w/ FBN schedule in 14 ds. for SASE (used). (Barbour-NH). same

w/ Bible quotes cd. in 9 ds. for \$1.00.

Schedule was rcvd. v/s A. Robinson. (Wilkins-MO). WINB 12160 p/d

Internationals cd. in 3 mo. v/s Fred Wise. **TAIPEI** Addr: WINB Shortwave, P.O. Box 88, Red Lion, PA 17356-0088. (Wood-TN). WTAW 1620 f/d cd. in 9 ds. for 2 ms. v/s Ben Downs. (Comeau-MA)...Interesting QSL.....

KENC-FM 102.9 Pecos/Santa Fe, NM rpt.



CBC SRC

Newfoundland & Labrador



QSL

Verification Card

Station Voice of Charity via Vatican Radio

To Richard A. D'Angelo

This is to confirm your reception of our transmission dated 2 September 2002, 0427 - 0457 hours UTC on a frequency of 11.715 kHz. with _____ watts.



Signature & Official Seal

QSL

Certificado de Sintonia

Emisora RADIO "SANTA CRUZ"

Para ROEN L. SCRULLETTA

Muchas gracias por su informe de recepción. Tenemos el gusto de confirmar su control de nuestra emisión en 6.135 kHz. de fecha 15/4/2001 a las 12:51 horas de Bolivia con 10 Kw. vatios de potencia.



X [Signature] firma

by Glotzbach states that he was their first listener and rcvd. their 1st QSL on their first day of broadcasting. It took 2 ds. w/ SASE.

USA (Pirates): Undercover

Radio 6950 f/d cd. in 14 ds. for an e-mail rpt. to undercoverradio@mail.com v/s Dr. Benway. Also rcvd. CD of program: (Comeau-MA). f/d "Eyes" cd. w/ station info. sheet. My rpt. was sent to the Merlin drop but the reply was postmarked

from Frederick, MD.(Wilkins-MO). Voice of Captain Ron Shortwave 6950 2 f/d QSL sheets for e-mail rpts. over the past 9 mos. The 1st arrived in 290 ds. while the other one took 26 ds.(Barbour-NH). Partial India Radio 6950 f/d sheet in 6 mos. for 3 ms. to the Providence mail drop. v/s Sanjay Smilkstein and Harold Krishna. (Comeau-MA). VIETNAM: Voice of Vietnam 7285 cd. w/ postcard in 52 ds.(Glotzbach-NM). VIRGIN ISLANDS (American): WRRR 1620 f/d ltr. in 10 ds. w/ personal ltr. and station sticker. v/s Beverly C. Meyers, Operations Manager.(Com-eau-MA). UZBEKISTAN: The Voice 11850 p/d ltr. in 3 wks. from

Voice International. v/s Richard Daniel. (Craighead-KS). Radio Tashkent 11905 f/d cd. w/ schedule, personal ltr. and station literature in 57 ds. for 1 IRC.v/s Mrs. Alfia Ruzmatove, Head of the Correspondence Section. Addr: 49 Khoranzn Str., 700047 Tashkent.(Wood-TN).

YEMEN: Radio Sana'a 9779 f/d ltr. and cd. in 34 ds. for 1 IRC. v/s Mr. Mohammad H. Bather, Director of Engineer-

Radio Ezra

Putting sanity back into Christianity



Radio Ezra carries the broadcast for Water Into Wine Ministry. Transmitter power: 100 kw. Transmitter location: Vladivostok, Russia. Type: HR 2/2/0.5. Global coordinates: 131.51E 43.12N. Thank you for your reception report. I can confirm that you heard Radio Ezra. Your details are as follows:

Broadcast dated Sunday 21st October 2001 at rc. 09:00-09:30. Frequency 12110 kHz.

For more information visit: http://radioezra.members.easyspace.com

ing, Technical Department. Nice cd. but the letterhead on the ltr. was spectacular! (Comeau-MA).

ZAMBIA: Radio Zambia 6265 f/d cd. in 79 ds. for ms.(Comeau-MA).

MEMBERS NOTES: George Glotzbach says his first day and #1 QSL from KENC FM 102.9 is a keeper. Great! Scott Barbour says winter is just about over in NH. As per your question, yes I got your QSLrpts from last month. They are in this months QSL Column along with the new batch.. Sam. I know what you mean about winter. It was 75-80 here in CT and the very next day it went down to 32 and we got an inch or so of snow...Sam. Bill Wilkins sent in his rpt. to the Colum in long hand. Usually Bill types his QSLs. I don't care if you write them in blood as long as you send in those great QSLs...Sam.

QSL

Certificado de Sintonia

Estación RADIO ANHANGUERA - AM

Para Mr. Scruletta, John

Agradecemos o seu relato de recepção. Confirmamos a exatidão dos seus detalhes de nossa emissão no dia 22 MAE 2000 entre as 4:05 horas de qtz. com 1.000 watts de potência. na frequência de

01 276 641/0003-06

RADIO ANHANGUERA L.P.A.

HR 155 - Km 1.105 CEP - 77804-970 Araguaia - TO selo oficial

X [Signature] firma

Till next time best of QSLing...Sam.

[Signature]

Net Notes

Tom Sundstrom • P.O. Box 2275 • Vincentown, NJ 08088-2275 • Fax: 609-859-3226 • trs@trsc.com
http://www.trsc.com

Well, things didn't turn out quite as planned and more than a few deadlines have slipped. The 1993 SWL 'fest photos still haven't been processed, but we'll get around to it. If you have 'fest pictures on the 'net, let us know and we'll link our photo page to yours.

Ralph Brandi and fiancée Laura Lombardo, among others, showed up at the April 6 Artist's Reception at the Burlington County Library where 57 photographs were on display until April 30. Stories appeared in the Burlington County Times and the Philadelphia Inquirer, and we wound up having a second reception on April 22.

In the midst of all this I'm also stuck with with treatment for unrelenting hand and foot pain associated with incurable reflex sympathetic dystrophy (RSD) syndrome.

Browser news. At work, when we occasionally grab time for lunch, I'll reach for a stack of the media material. It is no surprise that Internet Explorer (IE) dominates the browser market place, but it also is no surprise that are those who walk this planet who refuse to use IE.

Netscape's story of success, then failure, then puddling down the road with AOL is well documented. In all fairness, NS version 7 is (in my opinion) a useful, stable product.

Now I read with AOL's financial troubles, reflected in the stock price, that the browser development may be placed on the back burner once again. Browser development may be limited only to fixes. Mozilla exists (www.mozilla.org) with flavors for Windows, Macintosh and Linux. There is an additional separate OS X version for OS X.

Why change? The Mozilla project code is under public license...

and there is a raft of people working on program development. Unlike Netscape, Mozilla development is very, very unlikely to slow down or go away.

Another reason for liking the Gecko engine found in the AOL/NS browser? I carry just one (6000 entries, 1.1 MB) bookmark file around with me from computer to computer, Mac or PC, with appropriate backups.

Google. It never ceases to amaze us what can be done with this search tool. In the search field, enter a NA telephone number without punctuation. For listed numbers, you get a name or names, address, and links to Yahoo and Mapquest maps. The "feature" appears to be limited to NA; experiments with variations on other countries' numbers and country-specific servers failed.

Listening note. I have a Yaesu tri-band VX5R handheld transceiver on a short magnet-mount whip antenna on the car roof. With the recent summer seasonal frequency change, I've been enjoying Moscow's music programs on 11675 while driving home in the afternoon. No surprise there, but on April 15 I had to go to Atlantic City after work. I left the transceiver on. After Moscow left the air Iran on 11670 was loud and clear on apparently its new summer frequency.

**Congratulations to
Laura Lombardo and
Ralph Brandi on their
Wedding Day!**

Contributors' Page

Bob Montgomery • P.O. Box 10814 • Parkville, MD 21234 • RMonty3@worldnet.att.net

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Scott BARBOUR, Intervale, NH	ATS 818, RS antenna system
Jerry BERG, Lexington, MA	R8A 165' LW
Ralph BRANDI, Tinton Falls, NJ	AOR7030, R8, 250' longwire
Eric BUENEMAN, Hazelwood, MO	ATS803S, MFJ-1778, G5RV, MFJ956 tuners
Rich D'ANGELO, Wyomissing, PA	Drake R8B, Lowe HF-150, DX Sloper
Jill DYBKA, Kingston Springs, TN	DX-440, G5RV
Bob FRASER, Cohasset, MA	Sony ICF-2003 ICF-SW100s 2m LW
Ron HOWARD, Monterey, CA	NRD545, 30 M LW
George MAROTI, Mt. Kisco, NY	R8B, T2FD, K9AY loop, 45 m. dipole, 150' LW
Bob MONTGOMERY, Levittown, PA	NRD535D, R390A, HF150, SE3, active antenna
Ed NEWBURY, Kimball, NE	WJ-1000, R8, 60' sloper, 20' loop
NEWMAN, IN	Sony ICF-2010, 100' LW
Andy RUGG, Cornwall, ONT	Icom 735, multi-band ham antenna
Bob WILKNER, FL	no equipment listed
Joe WOOD, Gray, TN	DX-390, Grundig Mini 100 PE, whip antenna
Dan ZIOLKOWSKI, Franklin, WI	RX320, 100' wire antenna

Some nice logs this month. Don't forget a different address for postal mail, P O Box 10814, Parkville, MD 21234.

Congrats to Ralph Brandi. I wish you and the bride a long and happy life together, and lots of kids.

Keep the logs coming!

73,

Bob Montgomery



FOR SALE: WRTH '97, \$10.00; 2000, \$15.00; 2001, \$18.00. Perry Ferrell's Guides: RTTY frequencies, 2nd Edition, \$5.00; Confidential Frequency Lists, 6th Edition, \$8.00; 7th Edition, \$10.00. All items include shipping (overseas shipping extra). Cashiers check or money order only, please. Al Drehmann, 389 Laurel Heights Lane, Tryon, NC 28782. E-mail aldreh@alltel.net. Phone 828-894-3396. No collect calls, please.

Tropical Band Loggings

2000-5900 kHz

Dan Ferguson • 12053 Kahns Road • Manassas, VA 20112 • troplogs@zerobeat.org

April deadline for direct info is a little earlier this time, April 13.

- 3230.3 **PERU Radio El Sol de Los Andes(t)** 1021 2/1 OA music, M TC, tlk, back to mx; UTE QRM; quick fade ard 1035 (Sgrulletta-NY)
- 3250 **HONDURAS R.Luz y Vida** 0259-0318 2/19 SS, rel ballads, W w/canned ID; R&B choir; rel tlks ending w/QTH for Grand Rapids, Michigan. F/P.(Barbour-NH)
- 3255 **SOUTH AFRICA BBC** 0358-0410 3/11 W w/nx; Focus on Africa px anmts; 6 pips at TOH, ID. (Montgomery-PA) 0414-0426 EE nx re Iraq, Islamic conference in Doha, Qatar and Ivory Coast. Fair. (Barbour-NH)
- 3279.55 **ECUADOR LV del Napo** 0850-0910+ 2/22 Tune-in to Andean mx; ID/NA 0900. Lcl children's chorus 0904; seem to always play NA at 0900 even though they are not signing on or off. I often see R. Maria loggings on this freq. R.Maria is just a rel pgm broadcast on LV del Napo. (Alexander PA)
- 3280 **ECUADOR R.Maria** 0453-0515 02/16 SS. Instrumental mx until 0506. Chimes; YL w/ ID over piano mx. YL and Om w/ "Santa Marias". Ballads. Good.(Barbour-NH)
- 3289.92 **ECUADOR R.Centro** 0940 SS anmts, HC ballads. Guyana still off the air. Fair 2/9. (Alexander-PA)
- 3290 **GUYANA VO Guyana** 0210-0311 EE/SS. Up-beat S.Am. mx, M&W EE tlks. Audio just weak, noisy enough for rough copy but talk seemed to center on weekend events leading to Sundays National holiday; parade route, live remote. . "GBC" ID and TCs. Anmt "Sunday Feb. 23,2003 United are we". Poor 2/20. Also 0516+ 2/22 EE, BBCWS relay w/ mx request prg, nx clips. Fair.(Barbour-NH) 0245-0330+ EE coverage of local parade with descriptions of floats & costumes. Interviews with lcl people. IDs. "BBC World Service" nx at 0400 followed by other BBC pgming. Noted 0840 with Hindi vocals & Birthday greetings 0850. Reactivated; back after several months absence. F/G 2-22, but not hd March 1, at various checks between 0100-0900+. (Alexander-PA)
- 3300RF **GUATEMALA R.Cultural** 0958-1035 2/25 SS, EZL inst mx at t/in, M ID, anmts at ToH. M w/rel tlks, very heavy with the rolling "R's", and mx. Intvw w/Dr. Eric Jose Estrada at 1025 re clinic. Back to mx at 1035. Clear signal w/ tolerable prop. QRN and fades.(Barbour-NH) 0425-0434 3/10 M&W EE rel pgm, ID 0430 inviting reception reports. Into SS ID, pgm. Fair. (D'Angelo-PA) 2/24 1019 surprised to hear this w/rel pgm; 1024 a few bars of "Battle Hymn of the Republic", M ancr w/"Desde Guatemala, esta es Radio Cultural". Traditional music followed (not rel.) then back to rel pgmg; strong and also heard evenings UTC (Sgrulletta-NY)
- 3310 **BOLIVIA R. Mosoj Chaski** 1005-1017 3/11 PP. Tlks b/w OM and YL. Jingle mx and ID anmt. Poor, fading fast. (Barbour-NH)
- 3324.8 **GUATEMALA R.Maya de Barillas** 0055-0110 2/19 playing 'Pink Panther' tune at tune in. Very low audio with S5 signal level at this time. Deep fades but always above noise floor. Then to more Jazz. No announcements at toh. SS balad instead. Male announcer at 0103 with what sounded like the ID but audio had dipped down and was not clear. Too weak to get positive id.Back to mx at 0105. (Montgomery, PA)
- 3329.8 **PERU Radio Ondas del Huallaga** 2/10, 1013. Tuned into some musical chimes, then a female announcer mentioning Huñuco, some numbers (possibly a phone number) and station ID. A second female announcer joined her and they co-hosted a mx program. Just before the half-hour, they mentioned Jesus Christ and also said "Gracias por su carta", possibly reading letters or personal messages. Poor signal and needed LSB due to CHU. (Sgrulletta-NY)
- 3360 **GUATEMALA LV de Nahuala** 0340-0357* 2/19 SS, cont. instl mx, xylophone mx, canned ID, M tlk and mx at s/off. Fair. (Barbour-NH)
- 3366 **GHANA R.Ghana** 0533-0607 3/2 EE; cont. choral mx to ToH; drums, pips, ID, M w/nx at barely audible level. // 4915 quiet as was most of the 60m band. Tried for Liberians at 0600 s/on, but no luck.(Barbour-NH) 2340 local mx W in EE talk over mx, into nx highlights by M 2345 3/16. (Dybka TN)
- 3915 **SINGAPORE BBCWS(p)** 2220-2230+ 2/25 Vern/EE; tlks (nx?) w/mx b/w items. Tent. "BBC" ment. at end of rpt. Language lesson w/W in EE, M w/translation. "Ham" s/on at 2230 takes over, V.poor. (Barbour-NH)
- 3976 **INDONESIA RRI,Pontianak(p)** 1117-1128 2/4 continuous Sub-Cont. mx under "ham" chatter. Weak but audible.(Barbour-NH)
- 4052v **GUATEMALA R.Verdad(p)** 0519-0521* 2/22. Rel choir in SS, nothing after 0521. Pres. R. Verdad tho I've never heard them this late. (Barbour-NH)

- 4388.9(t) **PERU R. Imperio** 0920 SS, Andean vocals, M ancw/so much reverb he's unintelligible. Weak, but clean audio. No discernable ID. 2/18. (Brouillette-IL)
- 4417v **CLAND KURDISTAN V of the People of Kurdistan** 0257-0330+ tune-in to Koran, anthem 0300; lang talk; lite instl mx. Slowly drifting down to 4416.2v by 0330. // 4027v - slowly drifting down to 4026.2v by 0330. Both freqs poor-fair 2/22. (Alexander PA)
- 4421.8 **PERU R. Bambamarca** SS 0931-0937, Andean vocals, M ancw over mx; clear ID 0933. Mostly tough copy. 2/18. (Brouillette-IL)
- 4620(t) **CHINA Nei Menggu PBS** via Hohhot, lang 2325, shortjazz piano music bridges, W in talks. Oriental lang, but not Chinese; very weak 2/15. (Brouillette-IL)
- 4716.66 **BOLIVIA R. Yura** 1015 3/24 weak signal, with no other CP's from 4600 to 4800 kHz at this time. (Wilkner-FL)
- 4746.7(p) **PERU R. Huanta 2000** in Quechua 0940, rustic local mx, excited M ancw/TC and saludos. No solid ID. 2/18. Also 1/20 SS 2349-0007, Andean-style pop mx, MDJ w/TC and definite ID: "Faltan las 5 para las 7 de la noche en R. Huanta Dos Mil," and later "...con corazon en su quinto(?) aniversario, R. Huanta Dos Mil. " 2402 into news w/ments of "la guerra anti-terrorista. " Weak but excellent audio. 1/20. (Brouillette-IL)
- 4750.2 **PERU R. San Francisco** Solano, 1020-1041 M w/OA vocals accompanied by flutes. Non-stop vocals until W ancw ID 1035 and SS talk followed by flute music; poor 3/14. (D'Angelo-PA)
- 4759.98 **LIBERIA ELWA** 3/15 2230 EE s/off anmt, ID, NA. carrier off 2233 (Brandi-NJ)
- 4760 **INDIA AIR Port Blair(t)** 1200-1210 brief fade in of S-C music. (Wilkner-FL)
- 4760 **UNID (INDIA?)** EE 2335-2342, W commentary mentions "United Kingdom," "United States" and "Iraq". British accent. Possibly an AIR outlet. Extremely weak 2/15. (Brouillette-IL)
- 4765 **BRAZIL R. Rural Santarem** PP 0944-0951, "sing-along" type group vocals, full ID and freqs 0945, rel pgm "A Palavra" w/very mellow preacher over piano music, vibraphone bridges into further talks. Very strong carrier, but low mod. 2/18. (Brouillette-IL)
- 4769.9 **NIGERIA R. Nigeria Kaduna** EE 2232, US lite rock and romantic ballads, M ID and anmt: all you listeners of Nigeria National Radio ... the man with the warehouse ftld of love, Mr. Romance on Radio." Gearing up for Valentine's Day?? Very good. 2/ 1. (Brouillette-IL) 4770 *0433-0446 EE. Familiar s/on routine w/IS, NA, Pledge to Nigeria, ID,date,TC, Morning devotionals/Bible reading. EE pop mx. F/G (Barbour-NH)
- 4779.93 **GUATEMALA R. Coatan** 1230 M ID "Radio Coatan ... Guatemala America Central"; exc signal. (Wilkner-FL)
- 4780 **GUATEMALA R. Cultural Coatan** 2345 SS Mexican ranchera mx, M ancw ments San Sebastian, TC, ID; good 2/15. (Brouillette-IL)
- 4781.3 **ECUADOR R. Oriental** 0951-1001 SS, Andean style mx, other LAm pop mx. Slogan ID "Oriental es la natural." PSA's. Promo for lcl rock mx program; good w/very clean audio. 2/18. (Brouillette-IL)
- 4790 **INDIA AIR Chennai** *0000-0017 IS, ID, Orch mx intro, brief tlk and Hindi mx; long tlk (nx?) 0006, still going at t/out. Fair 3/5. (Barbour-NH) 0035-0045* M w/Hindi vocals and flute music; then Tamil talk 0042; brief vocals 0044; then M w/closedown anmts; poor 3/4. (D'Angelo-PA) *2358-0030 Tamil, AIR IS, ID at TOH, trad. lcl woodwind music, News w/ lots on Iraq, UN, etc., other commentaries ment. India/Pakistan, more ID's; email address. F/G 2/15. (Brouillette-IL)
- 4790 **PERU Radio Atlantida** 1032-1046, W ID, SS talks; brief musical segment, more talk 1034; fair 3/14. (D'Angelo-PA)
- 4800 **LESOTHO R. Lesotho** 2/26 0401-0408 t/i w/usual ToH music on the Lesiba, a local wind instrument; then pips, into presumed news read by W in an African language; 0406 instl version of Leo Sayer's "When I Need You", more talk by the W. SINPO 33333, with some ute QRM on LSB. (Maroti-NY)
- 4815 **BRAZIL Rdif Londrina**, in PP, 2349-2400, M w/echo in rel t1k; 2358 ID "Radiodifusora de Londrina ... Londrina, Parana." Fair 1/4. (Brouillette-IL)
- 4815 **BURKINA FASO R. Burkina** 3/10 2210-2300 weak at tune-in, improved around 2218, when had a hi-life song with M vocals. W in FF, IS 2230 Ison a flute-like instrument, M ID as "Radio Burkina"; M FF talk; different tune played on drums at ToH. Eventually improved to fair. (Maroti-NY)
- 4815 **ECUADOR R. El Buen Pastor** 1005-1015+ HC folk mx, SS anmts, canned ID. F/G 2/9. (Alexander-PA)
- 4832 **HONDURAS R. Litoral** 3/1 0230-0430+ mostly continuous SS rel talk; some rel mx; ID 0400. Poor-weak, fade up to fair at times. (Alexander-PA)
- 4833.27 **MALI RTV Malienne** 2212-2400*, wasn't sure who this was at first, as Mali usually on freq. African sounding music, but not hi-life. M ancw w/Afr lang. NA by marching band at s/off matched the clip on the intervalsignals.net website. Fair 3/22. (Maroti-NY) 4835, 2303-2332 FF, rap and dance mx, MK ancw; ID during tlks 2330; Good 3/4. (Barbour-NH) 4835.4 lang 2300, M in interview w/ other M in studio; bBridges of traditional local music; some ID's in passing as "Radio Bamako," and other ments of Bamako. Exc. 2/1. (Brouillette-IL)

- 4845 **GUATEMALA Radio K'ekchi** 3/16 0229 Christian music, full ID "T-G-V-C, Radio K'ekchi, Fray Bartolome de las Casas, Guatemala", more music; (Brandi-NJ)
- 4860 **INDIA AIR Delhi** 0037-0102 2/13. Hindi chorus and YL tlks. Cont. mx to ToH, W w/(P) ID, right back to mx. Fair and improving. (Barbour-NH) 0104-0120 3/6; Hindi mx, M&W tlks; good at t/in. (Barbour-NH)
- 4875 **BRASIL R.Difusora** 0225-0240 PP jingles, M&W tlks; canned ID; W pgm intro, PP mx. Fair 2/6.(Barbour-NH)
- 4885 **BRASIL R.Clube do Para** 0336* 3/5; end of apparent s/off anmt, positive ID then gone! Stayed on freq for several minutes but station never returned.(Barbour-NH)
- 4886.7 **PERU Radio Virgen del Carmen**, 2/26, 1041 M&W ancrs, rel pgmg, mx. The W spoke around 1045 with definite religious overtones. At 0600, possible ID and getting weaker, but it did do a slow fade up to 0615 tune out. No sign of Radio Para on 4885, but Para there next night blocking Virgen del Carmen. (Sgrulletta-NY)
- 4890 **PNG NBC** surprisingly good 0845 Pidgin church service, kids chorus, 0900 ID, date, TC for 7 o'clock, brief drums, into nx; also good at 1115 recheck; 3/2. (Berg-MA)
- 4895 **INDIA AIR Kuresong** *0054+ IS audible under "sweeper", Hindi mx; v.poor 3/5. (Barbour-NH)
- 4905 **CHINA Xizang PBS** 1204+ M&W in (p)Tibetan under sweeper, // 4920, both poor 2/11.(Barbour-NH)
- 4915 **BRASIL R.Difusora** Macapa 0523-0538 PP/EE; PP covers of US oldies incl. Paul Anka "Diana". "canned" ID, anmts 0531, EE pop mx; Berlin, "Take my breath away"; fair 2/25. (Barbour-NH)
- 4930 **TURKMENISTAN R.Asgabat**(p) 2214-2232 Turkmen; W w/tlks b/w AA-like mx selections; other times tlk over mx. (P) ID 2230; flute and wind instruments w/W tlk; poor under noise floor, battle w/"sweeper" for dominance; 2/26. (Barbour-NH) Turkmen Radio 2 2240 music, talk in presumed Turkmen, NA at c/d (matches anthem at <http://www.countryreports.org/sounds/turkmenistan.mid>); 3/2. (Brandi-NJ)
- 4935 **BRASIL R.Capixaba**(p) 0500-0521 M&W PP tlks; sevl M w/remotes, field rpts; no ID noted; fair 2/25.(Barbour-NH) An 3/11 2320-2339 03/11 PP; M w/vy emotional tlk; ballads; W w/tlks, same style as M. F/P. Also 3/12 2312-2327 w/same M; no IDs noted. (Barbour-NH)
- 4940 **VENEZUALA R.Amazonas** 1018-1031 SS, choral mx at t/in; Canned ID/anmt as "R.Nacional". M w/tlks over mx & ID "R.Amazonas", more mx; poor, QRN; 3/14. (Barbour-NH)
- 4950.11 **PERU Radio Madre de Dios** 1030 ID by M. (Wilknor-FL)
- 4955(t) **PERU R.Cultural Amauta** 2331 SS and Quechua, rustic Andean flute mx, caught freq portion of ID anmt, M tlk; short anmts, mx bridges; no def ID. (Brouillette-IL)
- 4960 **ECUADOR Radio Federacion** 0020 M in lang, strange and neat local mx. 3/17 (Dybka TN)
- 4965 **PERU R.Santa Monica** Cusco, 2348 M w. huaynos pgm; TC/ID between virtually every song. "Radio Santa Monica" shouted over some songs. It sounded like a possible 5-minute ad block that ended at 2359. As reported by others, they seem to sign off around 0100 or just past with no anthem, song or fanfare. 3/11. (Sgrulletta-NY) 0035 3/6, high-altitude harp-led vocals, W singer; 0038 "R Santa Monica, La Numero Uno!" M DJ with accurate TCs as at 0042 and more IDs. Good in 4960 splash; dropped off in mid-sentence 0100. Tnx Sgrulletta tip. (Novello-NC)
- 4965 **ZAMBIA Christian Voice** 2250-2307 EE, mellow Christian vocals, full ID 2302; very poor. (Brouillette-IL) 4965 ZAMBIA RCV,Zambia 0202-0216 2/5 EE; testimonials, contemporary rel mx. Canned ID 0203 & 0215. Poor under noise floor.(Barbour-NH)
- 4975 **PERU R.Del Pacifico**(p) 0205-0219 2/27 SS; ballad at t/in, M tlk between & over mx. 0219 abruptly gone; mid-sentence, replaced by piercing het; like someone pulled the plug! Never returned, several re-checks.Poor, noisy.(Barbour-NH)
- 4976 **UGANDA R.Uganda** Kampala 2046-2105* 2/5 fading in w/Afropops. M w/tlk, s/off anmts over mx; mx continues, cut-off at 2105 sharp! Fair by s/off.(Barbour-NH) Also 0323-0345 2/26 EE; eclectic mix of mx; dance, funk, reggae and pops, including Fleetwood Mac. M ID and tlks re "eastern part of the country, thats why we are Radio Uganda". Started each mx block w/ "How about I play you something like this?" Fair signal tho continuous het, from presumed R.Del Pacifico, Peru. First log during this time, usually catch them from 2000-2100.(Barbour-NH) 4976 UGANDA Radio Uganda, 0407-0422 2/26 M EE nx to 0417: "And that's the end of this news bulletin from Radio Uganda." The series of PSAs w/emphasis on "protecting our children." P/F. (D'Angelo-PA)
- 5010 **DOMINICAN REPUBLIC Radio Cristal** 0035 oldies mx incl. Puppy Love, M in SS 3/17 (Dybka TN)
- 5010 **MADAGASCAR Radio Madagascar** 2/17 0256 music, NA 258 (checked against <http://www.countryreports.org/sounds/madagasca.mid>), ID 0300, reggae music (Brandi-NJ)
- 5010(t) **MADAGASCAR R. Malagasy** (t), in lang, 0305-0310 W w/news, incl item mentioning Iraq and the Vatican and the Pope. Apparent choral hymn and same W leading prayers. Very poor. Not quite usual format for RTM, but who else? 2/9. (Brouillette-IL)

- 5019.93 **PERU R.Horizonte** 1056-1110 3/10 Peruvian mx at tune in; tentative ID 1058 w/short anmt, back to mx. Static crashes made it a difficult copy. Possible ID again at 1102 but not certain as audio has dropped and finally fading out at 1110. (Montgomery, PA) 1107-1122 2/11 SS, M tkl over piano mx, several ID's. Up-beat mx w/ YL intro, Cont.SS mx with gradual f/out; increase in QRN. (Barbour-NH)
- 5025 **BENIN R.Diffusion Parakou** 2235-2302* 3/4 FF, cont.ballads, s/off anmt, NA. Fair.(Barbour-NH)
- 5030RF **BURKINA FASO R.Burkina** 2135-2203 3/11 FF, W intvw M, pgm credits, "R. Burkina" ID at ToH. Afropops to 2202; OM w/intro mx, new prg. Fair and improving. // 4815 not heard. (Barbour-NH)
- 5040 **BURMA R.Myanmar** 1126-1150 3/14 Burmese S-C mx at t/in; tlks w/W & wind insts. (Pres. ID/IS) at 1130. YL w/ nx; tent. ment's "Sri Lanka" and "Kaula Lumpur". Outro mx at 1140, OM tlks then mil band mx & W w/brief tkl. S-C ballad, pop mx and another ballad then f/out took over. Poor, almost fair at peak. // 4725 barely audible at t/in check, f/out well before 5040 did. Very pleased and surprised to log this one!! (Barbour-NH)
- 5040 **ECUADOR LV del Upano** in SS, 2315-2330, W tkl, M ID "la red de emisoras La Voz del Upano," Andean-style Christian mx, ads w/Jingle Bells. (Brouillette-IL) 5040.05 0055-0110+ SS rel pgming with rel talk & choral mx. TENTATIVE. (Alexander PA 2-16)
- 5047 **TOGO R.Togo(p)** 2227-2302 3/11 FF/EE. EE pops w/ James Brown, Barry White and TLC; M in FF b/w songs. Nx 2302, splatter via 5050 WWRB s/on takes over. No ID noted. Fair/poor. (Barbour-NH) 2/24 2227 talk in FF, address in Lome, Togo, 2249 (Brandi-NJ) 2143-2210 2/25 FF. OM and YL tlks, (P)radio drama. Tent. ID at 2202 w/vy weak audio. Intro mx and OM w/ nx ;back to prior s-level; re "Presidente" and "Afrique". Weak at times w/ fade and constant "hum".(Barbour-NH)
- 5054v **COSTA RICA Faro del Caribe** 1041-1054 02/11 SS. Long tkl by OM w/ brief mx at 1045 and Tent.ID; definite ment."Caribe" Fading out w/ lite jazz mx. (Barbour-NH) 5055 COSTA RICA Faro del Caribe 1028-1052 3/11 SS, instl mx at t/in, M tlks. Solid ID at 1032. M w/rel tlks w/and w/out wind instruments. Fair.(Barbour-NH)
- 5300.1 **PERU Radio Superior(p)** 2/27, 1043 just finishing s/on. I am certain I heard them within one minute of their actual sign on. A male host played OA music. Closest I heard to an actual ID was at 1104 "Radio ___ presente"- but the missing word did not sound like Superior. Then a cow moed once and a rooster crowed twice. Back to OA vocal music featuring a flute. (Sgrulletta-NY)
- 5469.97 **LIBERIA Radio Veritas** 0645 "Now, the Liberian News, from Radio Veritas", headlines, story about activity at the health ministry, president of Liberia calling for release of human rights activists, fighting in central Liberia; spring-like conditions, with plenty of static crashes (Brandi March 19)
- 5470 **LIBERIA R.Veritas** 0744 M in EE "good morning, happy valentine's day" 0744 2/14 (Dybka TN)
- 5780 **ITALY IRRS** 2115-2132* 2/22, pop vocals & RR talk to EE ID 2130 by a M: You are listening to a program relayed through the facilities of I double R S." Then Milano postal address. Carrier cut after brief group singing. Poor to fair reception but improving at closedown. (D'Angelo-PA)
- 5835 **SRI LANKA RFE** 2323 M in Persian "Radio Azadi" ID at 2330; 2/17 (Dybka TN)
- 5860 **CHINA Voice of Jinling(p)** 1240 with W in CC. Periodic UTE QRM. 2/14 (Dybka TN)

73, DanF



More new members:

WILLIAM C. BALDWIN, Peninsula, OH
KENNETH A. DUPERE, Point Blank, TX
MICHAEL LAYTART, Woodside, NY
JAMES BRANN, Chapel Hill, NC
STEVE KUBIS, Fargo, ND
DR. KLAUS G.P. SULZMANN, Encinitas, CA
JOHN TURPIN, Oakland, CA
DAN ROBINSON, Rockville, MD
GEORGE W. ALLEN, Shelby, OH

International Band Loggings

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- 5915 **ZAMBIA ZNBC** Lusaka in EG *0241, Fish Eagle IS, choral NA, ID, group singing, drums, pips 0300, OM w/nx (D'Angelo PA 4/1, Howard CA 3/27)
- 5960 **CANADA R Monte Carlo** relay via Sackville in AR *0401, pips, AR mx, ID, nx re Iraq, several field rpts, second ID, AR ballad at s/off 0421, vg (Barbour NH 3/12)
- 5970 **UNITED ARAB EMIRATES R Japan** relay Al Dabbiya in JP 2211, several ments "Tokyo", tlks re America and Iraq, field rpts, ID, good w/some splatter from BBC Antigua (Barbour NH)
- 6005 **ASCENSION ISLAND BBC** relay in EG 0700, B-1 bombers deployed to Middle East, anti-war demos planned in several countries, g (Newbury NE 3/15)
- 6055 **RWANDA R Rwanda** Kigali in FR 2057*, NA, no more five min long IDs (Brandi NJ 3/20)
- 61049 **MEXICO R Candela** Merida in SP 0802, reactivated FM relay, ballads, quick canned ID "Candela", listeners' requests, Mexican pops, poor modulation (Dybka TN 4/12, Newman IN 4/13)
- 6120 **IRAN VOIRI** in EG 0130-0200, ID, NA, fqy, Koran reading, nx re Iraq and the war, Russia opposed to invasion of Iraq, difficult copy, QRM (Montgomery PA 3/21)
- 6160 **CANADA CKZU** Vancouver in EG 1512, ID for "CBC Radio One, 690 Vancouver", wx rpt, traffic, fair copy (Howard CA 4/4) ED: Only 500 watts output. Usually S-9+ in Seattle area of course.
- 6160 **POLAND R Polonia** in EG 0750, regional nx, ID, arts program, fluttery signal (Dybka TN 4/11)
- 6235 **RUSSIA V of Russia** St. Petersburg in EG 2138, mx pgm at tune-in, ment singing contest, Barber Shop Quartet type mx, progressive jazz, ID 2158, IS and s/off 2159 (Montgomery PA 3/28)
- 6245 **RUSSIA R Gardarika** relay via St. Petersburg in RS 2150, pop mx, ballads, ID's w/songs, s/off routine over lite jazz mx, phone #, website, PO address, off at 2201 (Barbour NH 3/25)
- 6957 **PERU Voz del Campesino** in SP 0021-0100, nice Peruvian mx, fair w/deep fades (Montgomery 3/31)
- 7115 **MOROCCO R Free Iraq** via R. Liberty xmtr in AR *0400, nx ment Bush, Saddam, Iraq, AP, Kuwait, helicopter crash, protests in San Francisco, //9695 (Barbour NH 3/21, Dybka TN 3/22)
- 7165 **GREECE R Free Europe** relay in Belarus 2114, recorded speech, mx, ID's, tlk, QRM (Barbour 3/19)
- 7175 **MOROCCO R Free Iraq** via VOA xmtr in AR 0325, nx, regular VOA s/off, //7105 (Dybka TN 3/22)
- *7185 **MOROCCO R Sawa** relay via VOA xmtr in AR 0108, canned ID, website in AR/EG, fqys for MW, FM, and SW, skeds, nx items 0115, AR mx, some EG pops, exc (Montgomery PA 3/19)
- 7185 **UZBEKISTAN R Tashkent** in EG 2131, mx, ID, into nx, another ID at 2139 (Brandi NJ 3/20)
- 72103v **BENIN R Benin** Cotonou in FR 2215, tlk, lcl and int'l pop mx, radio drama w/piano mx between acts, OM w/credits, Afro pop mx and reggae, NA at close 2300 (Brandi NJ 4/3, Barbour NH 3/19)
- 7260 **UNITED KINGDOM British Forces Broadcasting Service** in EG *0258, xmtr site unknown, pgm for UK troops, opened w/nx, into pop mx, dedications, TC, poor w/ham QRM (D'Angelo PA 4/11)
- 7490usb **RUSSIA V of Russia** feeder via Khabarovsk in KR 1033, RS mx, tlk, g (Ziolkowski WI 4/3)
- 9425 **INDIA AIR** Bangalore in HD 1219, sub-cont mx, IS, s/off 1230, back on 1318, f-g (Howard CA 4/4)
- 9510` **ALBANIA R Tirana** in EG *1946, IS, ID, fqy, sked, nx w/several items re EU declaration of Albania's work towards EU entry, NA at 1959* (Barbour 3/26) ED: Hardly worth warming up xmtr for 13 min xmsn
- 95249 **INDONESIA V of Indonesia** Jakarta in IN 1242, pop mx, nx, NA, s/off 1300 (Howard CA 3/30) in CH 1102, mx, YL w/taalk, good signal in the clear (Ziolkowski WI 4/4)
- 9580 **AUSTRALIA R Australia** in EG 0830, energy legislation nx (Dybka TN 4/12) in EG 1514, nx re Vietnam being eager to make world based economy, exc (Newbury NE 3/7)
- 9580 **IRAN VOIRI** Kamalabad in EG 0030, IS, ID, fqy, sked, Koran, nx, cmntry re call to UN to solve Iraqi crisis, usual anti-US propaganda, //6120 (Barbour NH 3/26)
- 9615 **MOROCCO R Liberty** relay in Belarus 0559*, ments Ukraine/Belarus, ID, abrupt s/off (Dybka TN 3/24)
- 9615 **ALASKA KNLS** in RS 1110, mx, tlk by OM, weak sig w/deep fades but in the clear (Ziolkowski WI 4/3)
- 96151v **BRAZIL R Cultura** São Paulo in PT 0858, mx, commercials, ID, fqys 0901 (Brandi NJ 3/21)
- 9645 **BRAZIL R Bandeirantes** São Paulo in PT 0853, commercials, ID 0900, TC (Dybka TN 4/12)
- 9650 **GREECE R Sawa** relay via VOA xmtr Kavala in AR/EG 2001, AR and EG pop mx w/Will Smith, ID, comments from Blair, Fleisher etc. w/AR translation, vg (Barbour NH 3/19)
- 9675 **BRAZIL R Canção Nova** in PT 0833, long ID, accordion mx, sound effects (Dybka TN 4/12)

- 9680 **INDONESIA RRI** Jakarta in IN 1259, distinctive "Song of the Coconut Isle", nx 1300, ment President Megawati, ID, tlks, fair signal in the clear (Ziolkowski WI 4/7)
- 9685 **UNITED KINGDOM R Free Iraq** via R Liberty xmtr Wooferton in AR 1428, nx re Iraq, mention Bush, Powell, Al-Jazerah, several field rpts, f, //11835, 11965 (Barbour NH 3/22)
- 9710 **AUSTRALIA R Australia** in EG 0810, pgm feature "Australian Country", f-g (Buenemann MO 3/23)
- 9710 **ITALY RAI Rome** in EG 2033, nx of controversy re Italian PM expulsion of Iraqi diplomats, Italy's role in post-war Iraq, Italian troops in Afghanistan, g (Barbour NH 3/25)
- 9715 **UZBEKISTAN R Tashkent** in HD/EG 1320, IS, ID, fqys in EG 1330, nx in EG, weak (Brandt NJ 3/27)
- 9765 **VATICAN CITY V of Russia** relay in EG 0215, Chechnya vote legal only if over 50% of the people vote, excellent reception (Newbury NE 3/20)
- 9780v **YEMEN Repub of Yemen Radio** Sanaa in EG 1833, nx re "unjustified war in Iraq, defiance of int'l will", Iraq and Arab League reaction, QTH, website, ID, NA, into AR 1901, f/p (Barbour NH 3/25)
- 9805 **MOROCCO R Sawa Iraq** relay via VOA xmtr in AR 0430, western and AR pop mx until newscast 0445 running continuously past 0526 tune out, many ID's, first night of bombing in Iraq (Brandt NJ 3/20)
- 9870 **MONACO TWR** relay Monte Carlo in EG 0653, IS, ID, relig pgm, "Rendezvous" feature (Brandt NJ 4/1)
- 9890 **TURKEY V of Turkey** in EG 1931, ID, fgy, sked, nx re Iraq war, "Press Review" re GW Bush letter to Turkish PM abt Kurds, "Life from Turkey" feature, fone-in from Sweden, vg (Barbour NH 3/30)
- 9990 **EGYPT R Cairo** in EG 2240, commentary about Iraq crisis, g (Fraser MA 3/14)
- 11620 **INDIA AIR** Bangalore in HD? 0230, sub-continental mx, f/o 0250, //9470 (Howard CA 4/4)
- 11690nf **CANADA Deut Welle** relay in GM 2320, ID's 2330 and 2332, bcst to Africa? (Montgomery PA 3/31)
- 11690 **CONGO R Okapi** Kinshasa in FR 2300-0000, lively mx, some w/Latin Am flavor, brief tlk, Okapi jingles, at 2348, signal in the clear until 0000 (Maroti NY 3/28)
- 11690 **JORDAN R Jordan** in EG 1624, song by Jay Hawkins, breaking nx item that a US supply convoy has come under attack by Iraqis in southern Iraq, ID incl FM outlet, blues mx, nx, s/off 1730 (Brandt NJ 3/26)
- 11710 **ARGENTINA RAE** Buenos Aires in EG 0238, nx re "building Argentina's identity", futbol nx, several Argentinian instrumentals, f (Barbour NH 3/19)
- 11710 **SOUTH AFRICA Channel Africa** in EG 0525, animal rights activists, sports nx, exc (Newbury NE 3/20)
- 11720 **MOROCCO VOA** relay in FR *2100, s/on w/ID in EG, YL w/news, good signal (D'Angelo PA 4/9)
- 117341 **TANZANIA R Tanzania Zanzibar** in SH 2100*, tlk, vocal, Koran prayers, ID, NA (D'Angelo PA 4/9)
- 11820 **RUSSIA V of Russia** in EG 2100*, nice classical mx, ID 2058, pgm sked, s/off (Montgomery PA 4/2)
- 11845 **SRI LANKA R Farda** relay via VOA xmtr in Farsi 1822-1900, Cindy Lauper tune "Drove All Night", ID in EG, website for R Farda, fgy, sked, AR mx, S-9 signal, some fading (Montgomery PA 3/28)
- 118449 **SEYCHELLES FEBA** in SH 0340, tlk, South African-style mx (w/tin whistle), ID, Tanzania QTH, into slo-speed pgm "Spotlight", "What a Friend We have in Jesus" IS (Berg MA 3/29, Brandt NJ 3/17)
- 11905 **SRI LANKA Radio Sara** relay via VOA xmtr in AR 1908, ID, fgy, sked, oldies pop tune, nx re the fact that food shipment had reached the docks in southern Iraq, S-6 signal w/rapid fades (Montgomery PA 3/28)
- 11905 **UZBEKISTAN R Tashkent** in EG 2137, nx re gov't organizational meetings, Iraqi liberation and Uzbek policy towards war, fair and improving signal (Barbour NH 3/25)
- 11910 **GABON R France Int** relay in EG 0415, nx pgm, tlk re impending war in Iraq and France's role in trying to forestall it, many ID's, into FR pgming 0430 (Brandt NJ 3/17)
- 119557 **ANGOLA R Nac de Angola** in PT 0349, tlk, nx 0400, ID's, into mx, //4950 (Brandt NJ 3/17)
- 12015 **MONGOLIA V of Mongolia** Ulan Bator in EG 1509, ID's, nx pgm w/mx interludes, p (Wood TN 3/18)
- 12040 **UNITED KINGDOM British Forces Broadcasting Service** in EG *1700, xmtr site unknown, mx, ID, pips, TC, "PM" feature w/updates on Iraq warfare at Basra, briefing, cricket nx (Dybka TN, Barbour NH)
- 12080 **MADAGASCAR R Nederlands** relay in EG 1452, tlk re Germany's role in Europe, ID, mx, pgm promo "Research File", pips, fgy, sked at TOH, //15220 Canada relay (Barbour NH 3/22)
- 12105 **ALASKA KNLS** Anchor Point in EG/RS 1702, IS, relig mx in EG, ID, tlks re "Dr. James Dobson" and Focus on Family, poor w/co-channel QRM from BBC also in RS (Barbour NH 4/12)
- 13620 **KUWAIT R Kuwait** in AR 1415, 2 OM's w/repeated ment of Iraq, QRM and QRN (Wood TN 3/29)
- 13640 **GERMANY Deut Welle Wertachtel** in BG 1425, pipe organ mx, ID, IS, QTH's, g (Wood TN 3/29)
- 13705 **RUSSIA R Rossii** Moscow in RS 1435, polka and circus mx, comedy, ID "Rossii", g (Wood TN 3/29)
- 13710 **THAILAND VOA** relay in EG 1930, African pop mx w/Zimbabwe singer/composer (Fraser MA 3/13)
- 13765 **VATICAN CITY VR** in EG 1548, cmtry on Iraq: war crimes & justice, //15325 (Newbury NE 3/12)
- 15070 **PAKISTAN R Pakistan** Islamabad in EG 1616*, nx re "...democratic systems in the country...", repeat of headlines re UN, cmtry on social responsibility, s/off w/o ID or ancmts, weak (Barbour NH 3/8)

- 152951 **PHILIPPINES FEBC** in Lang? 1330, ID, much pop-style vocal mx, g (Berg MA 3/15)
- 15395 **UNITED ARAB EMIRATES R Dubai** in EG/AR 1601, scripted "interview" w/historian talking about the grand cultural heritage of Baghdad, "Arab Centers of Civilization", into AR 1635 (Brandt NJ 3/20)
- 15450 **TUNISIA R Tunis Sfax** in AR/EG 1452, AR mx at t/in, Qu'ran at 1456, ID in EG 1459, nx items in AR, fast talking YL ancr, bad echo at times, many ments Iraq, soft mx (Montgomery PA 3/26)
- 15460 **THAILAND VOA** relay in EG 1505, nx items re war in Iraq, ID, EG lesson at slow speed, audible signal but difficult copy as very weak (Montgomery PA 3/26)
- 15480 **AUSTRALIA HCJB** Australia Kununurra in EG 1658, tlk, ID "This is the Voice of the great southland, HCJB Australia", very weak (Brandt NJ 3/13) in EG 1518, ID, short mx piece "Send in the Clowns", tlks, excerpts from the Bible, YL singing "Lord's Prayer", very weak signal (Montgomery PA 3/26)
- 15530 **UNITED KINGDOM British Forces Broadcasting Service** in EG 1534-1650, family messages being read to UK soldiers in Iraq, pop tunes, ID as BFBS Radio 2, ad for Alistair Cook's "Letter from America", very enjoyable varied programming (Montgomery PA 3/26, Brandt NJ 3/20) ED: Xmtr site unknown
- 17680 **CHILE R Voz Cristiana** in EG/SP 2310-2345, listeners' call-ins, ID, two OM ancrs giving addresses or phone #'s in SP, discourse on several subjects, nx, sports in SP, exc signal (Wood TN 3/21)
- 17815 **BRAZIL R Cultura** São Paulo in PT 2305, vocal mx, tlks, ID at 2311, vg (Rugg ONT 4/3)
- 17820 **PHILIPPINES VOA** relay in EG 2345, "Issues in the News", cmntry on Iraq, req for listener feedback, ID, and Asian fqys, "VOA News Now" on the hour, vg (Rugg ONT 4/7)
- 178357 **EL SALVADOR R Imperial** in SP 2308-0300, contemp Christian mx w/SP vocals, various mx styles incl rock 'n roll, TC's, many ID's for their MW outlet, unfortunate audio distortion (Maroti NY 3/28)
- 17860nf **UNITED KINGDOM R Japan** relay Rampisham in JP 1451, classical mx, Mozart, ID's, sked, nx at 1500 mentioning Iraq and America, vg (Barbour NH 4/11)
- 17870 **SWITZERLAND SRI** Sottens in EG 1745, feature, ID, QTH's, website, copyright statement, filler mx, "SwissInfo", E-mail address, ID in FR and into FR pgming (Brandt NJ 4/7)
- 17895 **BOTSWANA VOA** relay in EG 1922, nx, re final four basketball tourney, call-in pgm re Nigerian election tlkretechnical problems fixed, live debates from Abujiw/candidates (Dybka TN3/24, Barbour NH 3/26)
- 17895 **UNITED KINGDOM British Forces Broadcasting Service** in EG 1505, in the clear after BSKSA sign off, usual nx re Iraq, US developments, sports, entertainment, singing ID, //13860, f (Barbour NH 4/11)
- 18940 **NORWAY R Afghanistan** relay in Pashto/Dari 1619, nx re Iraq, Al-Jazeera, comments by PM Tony Blair w/translation, field rpts, mx, ID, fair at t/in but unusable by 1637 (Barbour NH 3/28)
- 18960 **SWEDEN R Sweden** in EG 1335-1459*, "60 Degrees North", review of the week gone by, nx of Serbian PM assassination, tlk w/Swedish astronaut, Swedish dissident held at Guantanamo Bay, live coverage of Bundy match (Barbour NH 3/14, D'Angelo PA 3/16, Fraser MA 3/12)
- 21605 **UNITED ARAB EMIRATES Radio Dubai** in EG 1605, documentary "Arab Centers of Civilization" ID, request listeners' mail, pop mx requests relayed from Dubai 92 FM, vg (Rugg ONT 4/8)
- 16250 **USA WMAR TV 2** Baltimore feed in NFM format, typical TV audio w/lots of ads, ABC Network heard at 2058, ID at 2100, into nx on Iraqi war, S-3 signal level (Montgomery PA 4/2)

Clandestine, Tentative, Presumed, or Unknown

- 5945nf? **LOCATION UNKNOWN Bible Voice Broadcasting Network** in VT 1408-1500*, religious program with Several ID's in EG, UK P.O. Box, strong signal (Howard CA 4/5) ED: Heard only on Saturdays
- 6050 **NIGERIA(p) R Nigeria Ibadan(p)** in EG 2054, rough copy of OM w/ments "Nigeria", muffled signal, bad "hum" and several breaks in audio, vp (Barbour NH 3/12)
- 6520 **UNIDENTIFIED OM and YL** in lang?, piano, accordion and opera mx at 0946, blotted out by North Korea s/on at 1000 with their IS and NA over-riding (Dybka TN 4/12)
- 7100 **ERITREA(p) V of the Broad Masses(p)** in Lang? 0334, fast-paced tlks battling for dominance over QRM from UTE, several mentions of America, Congo-Kinshasa, and Pakistan, Afropop style mx, tlks by YL/OM ends w/ment of "North Carolina"!?, definite Horn of Africa mx from 0350-0356 (Barbour NH 4/2)
- 7460 **CLANDESTINE Radio Payam-e-Doost** in Farsi *0225-0251, 0C w/Russian tones noted, at 0229 opened with instrumental mx, ID and tlks in Farsi, fair w/intermittent ham/RTTY QRM (D'Angelo PA 4/11)
- 9420 **PHILIPPINES(t) FEBC Radio(t)** in Mandarin 1238, tlks, ballads, tent ID 1245 w/excitable chatter, light banter by OM and YL to 1256, ballads to 1300, weak but clear, fade out near TOH (Barbour NH 3/14)
- 9655 **CHINA(p) Central People's BC(p)** in CH 2300, pips, ID(p), speech, brief mx bridges, QRM from Turkey sign on at 2308 (Fraser MA 3/19)

- 9715nf **IRAQ Information Radio** USAF airborne broadcasting platform in AR 0150, tlks in AR by OM and YL, many mentions of Iraq, occasionally cutting to AR-language mx, full ID as "Radiyo al Ma'ulumat", mixing with R Portugal to 0200, then suffering from splash from Tunisia on 9720, signal strength poor, about 50% intelligibility, appears to be b'casting in AM-compatible SSB, said to be operating over Iraq 24 hrs a day with only 10 kw output (Brandi NJ 3/31 and 4/8) in AR 2027 w/AR female vcl but soon into all-talk format by YL and OM, very choppy signal, blocked when R Liberty (Germany) s/on at 2058 (Berg MA 4/12)
- 12100nf **CLANDESTINE V of Tibet** via Uzbekistan(t) in Tibetan(p) *1430, mx and singing, jammed with instrum'l mx by CH jamming station, lang change to Mandarin w/tlks re Lhasa, Tibet, s/off 1519 (Howard CA 4/6)
- 13800 **CLANDESTINE IRAN Radio International** in Farsi? *1630, ID, nx?, offsite reporting with occasional questions by studio ancr, upbeat Iranian vcls, back to interview, s/off 1716 (Berg MA 4/7) ED: Said to be an anti-gov't outlet beamed from Kivitsoy, Norway relay
- 15170nf **CLANDESTINE Jakada Radio International** (Nigeria) via CIS relay Krasnodar in Hausa *1900, pgm opens w/OM singing "Jakada International" melody, the "Salaam Aleikem" opening ancrmt by YL, native music, sign off at 1929, much better than prior 12125 fqy, good signal (Berg MA 4/7, Barbour NH 4/2)
- 15670 **CLANDESTINE Voice of Democratic Eritrea** via Juelich, Germany relay in AR 1725, tlks, Horn of Africa vocal mx, ID 1730, strong signal wiped out by QRM from 1758 (Berg MA 4/7)
- 15775 **CLANDESTINE Chan Troi Moi** (Vietnam) via Juelich, Germany relay(p) in VT *1328, opening with anthem-like mx, ID, into all talk pgm, occasional bridge mx, many ments Sadaam Hussein and Iraq, s/off in EG with "The Vietnamese broadcast of New Horizon signing off" at 1430, needed LSB for clarity, replaced ex-15715 (Berg MA 4/12) 

On The Short Waves

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<www.ontheshortwaves.com> Update, March 29, 2003—"Articles, Research, etc.," "Pot-pourri," a 1954-55 Boy Scouts of America reprint of some SWL articles that appeared in Boy's Life magazine at that time. This 16-page pamphlet will bring back memories for American SWLs who may have been starting out in shortwave around then. The pamphlet includes a long article by Ken Boord about SWling and the stations you could hear, including such long ago targets as Radio Brazzaville, 4VEH, Radio Noumea, Radio Jamaica, the Portuguese Azores, Radio Trinidad and the British Far East Broadcasting Station. Also shown is a two-tube kit receiver that could be obtained through the Boy Scouts, and information about ham radio.

<www.ontheshortwaves.com> Update, April 6, 2003—Under "CPRV," "QSL Gallery," some additional amateur radio QSLs from the late Roger Legge. Look for those marked "New" under Netherlands, Nicaragua, Peru, Philippines, Venezuela and Belgian Congo. Although CPRV's main focus is on broadcast stations, we do handle amateur QSLs that are particularly distinctive. All of these are in that category.

<www.ontheshortwaves.com> Update, April 13, 2003—Under "Articles, Research, etc.," "Potpourri," Dave Newell, President of the USCGC Courier Association, has sent along some great photos of the USCGC Courier, the VOA's floating radio station at Rhodes. Dave was on the Courier during the period 1958-59. Also under "Potpourri," to the "Boy Scouts of America reprint" item we have added an original Boys Life Radio Club award certificate. And under "CPRV," the entire seven year run of "The CPRV Page" has now been posted. These articles, which were published in 1986-96 (and which are re-run from time to time in the *NASWA Journal*), contain photos of, and brief write ups about, many interesting QSLs. You will find "The CPRV Pages" at the bottom left of the introductory CPRV page. 

English Schedules

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0000-0007		SLBS, Sierra Leone	3316.0do						
0000-0015		V. of Cambodia	11940.4as						
0000-0015		Radio Japan	6145.0na	13650.0as	17810.0as				
0000-0027		Radio Prague Int'l	7345.0na	9440.0na					
0000-0030		Radio Australia	9660.0pa	12080.0va	15240.0pa	15415.0as	17580.0pa	17775.0as	
			17795.0va	21725.0as					
0000-0030		Radio Cairo	11725.0na						
0000-0030		Radio Thailand	9570.0af						
0000-0030		BBC World Service	3915.0as	5970.0as	5975.0ca	6195.0as	9740.0as	9825.0sa	
			11835.0ca	11945.0as	11955.0as	12095.0sa	15280.0as	15310.0as	
			15360.0as	17615.0as	17790.0as				
0000-0100	smtwhf	BBC World Service	9410.0as						
0000-0100	a	BBC World Service	9410.0me						
0000-0030		VOA	7215.0as	9770.0as	11760.0as	15185.0as	15290.0as	17740.0as	
			17820.0as						
0000-0100	twhfa	VOA	5995.0am	6130.0am	7405.0am	9455.0am	9775.0am	11695.0am	
			13790.0am						
0000-0030	mtwhfa	Radio Yugoslavia	9580.0na						
0000-0045		All India Radio, Delhi	9705.0as	9950.0as	11620.0as	13605.0as			
0000-0055		Radio Exterior de Espana	15385.0na						
0000-1000		Caribbean Beacon	6090.0am						
0000-0830		ABC Alice Springs	2310.0lr	4835.0do					
0000-0830		ABC Katherine	5025.0do						
0000-0830		ABC Tennant Creek	4910.0do						
0000-0500		CBC Northern Service	9625.0do						
0000-0100		Radio Canada Int'l	9640.0as	15205.0as					
0000-1300		R. for Peace Int'l	7445.0va	15038.7va					
0000-0600		HCJB Quito Ecuador	9745.0na	21455.0uf					
0000-0100	a	Scandinavian Weekend R.	5980.0va	11690.0va					
0000-0100		Deutsche Welle	7130.0as	9505.0as	9825.0as				
0000-1000		Voice of Guyana	3291.3do	5949.4do					
0000-0500		NBC Windhoek, Namibia	3270.1ln	3290.1af	6060.0af				
0000-0125		Radio Netherlands	6165.0na	9845.0na					
0000-0100		Radio New Zealand Int'l	17675.0pa						
0000-0900		Nat'l BC, Papua NG	9675.0do	11880.0lr					
0000-1100		SBC Radio 1, Singapore	6150.0do						
0000-1100		SIBC Solomon Islands	5019.9do	9545.0do					
0000-0100		Radio Ukraine Int'l	12040.0na						
0000-0100		KAIJ Dallas TX	13815.0va						
0000-0100		KTBN Salt Lake City UT	15590.0na						
0000-0400		KWHR Naalehu HI	17510.0as						
0000-0300		University Network	9940.0as						
0000-0400		WBQC Monticello ME	7415.0na	9329.7na					
0000-0600		WEWN Birmingham AL	5825.0na						
0000-0500		WHRA Greenbush ME	7580.0eu						
0000-1000		WHRI Noblesville IN	5745.0va	7315.0am					
0000-0100		WINB Red Lion PA	12159.9am						
0000-0200	sm	WRMI Miami FL	9955.0am						
0000-0200	twhfa	WRMI Miami FL	7385.0na						
0000-0300		WRNO New Orleans LA	7355.0va						
0000-0100		WSHB Cypress Creek SC	7535.0am	9430.0sa					
0000-0100	sm	WWBS Macon GA	11910.0uf						
0000-0100		WWCR Nashville TN	3210.0na	5070.0na	7465.0na	13845.0na			
0000-0600		WWRB Manchester TN	5050.0na	5085.0na	6890.0na				
0000-0100		WYFR Okeechobee FL	6065.0na	9505.0na	15130.0sa				
0000-0600		Radio Vanuatu	3945.0al	7260.0do					
0000-0400		Christian Voice, Zambia	4965.0do						
0015-0100		Radio Japan	6145.0na						
0030-0045		FEBA	9465.0as						
0030-0130		Radio Australia	9660.0pa	12080.0va	15240.0pa	15415.0as	17580.0pa	17750.0as	
			17775.0as	17795.0va	21725.0as				
0030-0230		VOIRI Teheran	9590.0na	11920.0na					
0030-0100		Radio Vilnius, Lithuania	9855.0al	11690.0na					
0030-0430		Sri Lanka B'casting Corp.	6005.0as	11905.0as	15745.0as				
0030-0100		Radio Thailand	15395.0na						
0030-0100		AWR Africa, UAE	9720.0as	9810.0as					
0030-0100		BBC English Teaching	9580.0as	17615.0as					
0030-0100		BBC World Service	5970.0as	5975.0ca	6195.0as	9740.0as	9825.0sa	11835.0ca	
			11955.0as	12095.0sa	15280.0as	15310.0as	15360.0as	17790.0as	
0030-0100	mtwhfa	Bible Voice Broadcasting	11975.0as						
0030-0100		VOA Special English	7215.0as	9770.0as	11760.0as	15185.0as	15290.0as	17740.0as	
			17820.0as						
0038-0050		Croatian Radio, Zagreb	9925.0sa						
0045-0115		Radio Pakistan	11650.0as	15625.0as					

0055-0115		RAI, Rome	9675.0na	11800.0na					
0100-0120		Kyrgyz Radio, Bishkek	4010.0as	4795.0as					
0100-0127		Radio Prague Int'l	6200.0na	7345.0na					
0100-0127		Voice of Vietnam	6175.0na						
0100-0128		Radio Budapest	9590.0na						
0100-0130	s	Universal Life, Germany	9435.0as						
0100-0130		Radio Slovakia Int'l	5930.0na	6190.0ca	9440.0sa				
0100-0300		VOA	7115.0as	9635.0as	11705.0as	11725.0as	11820.0as	13650.0as	
			17740.0as	17820.0as					
0100-0130	twhfa	VOA	5995.0am	6130.0am	7405.0am	9455.0am	9775.0am	13790.0am	
0100-0130		Radio Tashkent	7190.0as	9715.0as					
0100-0156		China Radio Int'l	9580.0na	9790.0na					
0100-0156		Voice of Korea	3560.0as	6195.0as	6520.0am	7140.0as	7580.0am	9345.0as	
			11735.1am						
0100-0200		Radio Canada Int'l	9755.0am	15170.0am	15305.0am				
0100-0500		Radio Havana Cuba	6000.0na	9820.0na	11705.0in				
0100-0500	a	Scandinavian Weekend R.	5980.0va	11720.0va					
0100-0200		Voice of Indonesia	9525.0as	11785.0as					
0100-0200		Radio Japan	11860.0as	11880.0me	15325.0as	17560.0me	17685.0pa	17810.0as	
			17835.0sa	17845.0as					
0100-0300		Radio New Zealand Int'l	17675.0ir						
0100-0200		Voice of Russia	9665.0na	9725.0na	11825.0na	12000.0na	17595.0na		
0100-0200		BBC World Service	5975.0ca	6195.0as	9410.0as	9825.0sa	11835.0ca	11955.0as	
			12095.0sa	15280.0as	15310.0as	15360.0as	17790.0as		
0100-1200		KAIJ Dallas TX	5755.0va						
0100-0230		KJES Vado NM	7555.0na						
0100-1500		KTBN Salt Lake City UT	7505.0na						
0100-0300		WINB Red Lion PA	9320.0am						
0100-0200		WSHB Cypress Creek SC	7535.0na	9430.0sa					
0100-0400		WWCR Nashville TN	3210.0na	5070.0na	5935.0na	7465.0na			
0100-0200		WYFR Okeechobee FL	6065.0na	9505.0na	15060.0as				
0105-0112		Croatian Radio, Zagreb	9925.0na						
0130-0140		Voice of Africa, Libya	15435.0ir	21695.0ir					
0130-0200		Radio Australia	9660.0pa	12080.0va	15240.0pa	15415.0as	17580.0pa	17750.0as	
			17795.0va	21725.0as					
0130-0200		Voice Int'l, Australia	17775.0as						
0130-0200		ORF Vienna	9870.0na						
0130-0200		Radio Iraq Int'l	6175.0in	9687.0in	11787.0in				
0130-0200		Radio Telefis Eireann	6155.0ca						
0130-0200		Radio Sweden	9435.0as	9495.0na					
0130-0200	twhfa	VOA	5995.0am	6130.0am	9455.0am				
0130-0200	twhfa	VOA Special English	7405.0am	9775.0am	13740.0am				
0140-0200		Vatican Radio	9650.0as	12055.0as					
0145-0200		Radio Tirana, Albania	6115.1na	7160.0na					
0200-0210		Radio Bangladesh	4882.0as						
0200-0230	sm w fa	Radio Minsk, Belarus	5970.0eu	7210.0eu					
0200-0230	s	Bible Voice Broadcasting	17540.0as						
0200-0230	a	Wales Radio Int'l	9795.0na						
0200-0256		Voice of Korea	4405.0as	9325.0as	11335.1as				
0200-0256		Radio Romania Int'l	9510.0na	11940.0na	15105.0as	17720.0as			
0200-0257		Radio Canada Int'l	15510.0as	17860.0as					
0200-0300	twhfa	RAE Buenos Aires	11710.0am						
0200-0400		Radio Australia	9660.0pa	12080.0va	15240.0pa	15415.0as	15515.0va	17580.0pa	
			17750.0as	21725.0as					
			9820.0as						
0200-0330		AWR Europe, Austria	9400.0na	11900.0na					
0200-0300		Radio Bulgaria	11780.0na						
0200-0330		Radio Cairo	7185.0do						
0200-0300	s	Radio Myanmar	11885.0me	15120.0me	15270.0me				
0200-0300	a	Radio Pilipinas, Manila	9665.0na	9725.0na	12000.0na	17595.0na			
0200-0300		Voice of Russia	9560.0na	11810.0as	15575.0na				
0200-0300		Radio Korea	5950.0na	9680.0na	11875.0as	15320.0as	15465.0as		
0200-0300		Radio Taipei Int'l	5975.0ca	6195.0eu	9750.0af	9825.0sa	11760.0me	11835.0ca	
0200-0300		BBC World Service	11955.0as	12095.0sa	15280.0as	15310.0as	15360.0as	17790.0as	
			7385.0na						
0200-0900		WRMI Miami FL	7535.0na	9430.0na					
0200-0300		WSHB Cypress Creek SC	5985.0sa	6065.0na	9505.0na	11855.0sa	15255.0sa		
0200-0300		WYFR Okeechobee FL	3230.0as	5005.0as	6100.0as	7164.4as			
0215-0220		Radio Nepal, Katmandu	6175.0na						
0230-0257		Voice of Vietnam	9570.0na						
0230-0258		Radio Budapest	6115.0na	7160.1na					
0230-0300		Radio Tirana, Albania	9495.0na						
0230-0300		Radio Sweden	17540.0as						
0230-0300	a	Bible Voice Broadcasting	9925.0na						
0238-0250		Croatian Radio, Zagreb	9610.0af						
0245-0300		BBC English Teaching	7305.0am	9605.0am					
0250-0300		Vatican Radio	7305.0am	9605.0am	9660.0af				
0300-0310		Radio Prague Int'l	7345.0na	7385.0na	9870.0na				
0300-0327		R. Vlaanderen Int'l	15565.0am						
0300-0329	s	Radio Mexico Int'l	9705.0am	11770.2am					
0300-0330	twhfa	Channel Africa, S. Africa	6035.0af						
0300-0330		Radio Thailand	15395.0na						
0300-0330		BBC World Service	3255.0af	5975.0ca	6005.0af	6190.0af	6195.0eu	7120.0af	
			7160.0af	9750.0af	11760.0as	11835.0ca	12035.0af	12095.0eu	
			15280.0as	15310.0as	15360.0as	15575.0me	17760.0as	17790.0as	
			21660.0as	21830.0as					

0300-0330	VOA	6080.0af 11835.0af	7105.0af 12080.0af	7290.0af 17895.0af	7340.0af	9575.0af	9885.0af
0300-0356	China Radio Int'l	9690.0na	9790.0na				
0300-0356	Voice of Korea	3560.0as	6195.0as	7140.0as	9345.0as		
0300-1000	Radio Botswana	3356.0in	4820.0do	7255.0do			
0300-0430	Radio Cultural, Guatemala	3300.0do	5955.0in				
0300-0400	sm R. Luz y Vida, Honduras	3250.0ca					
0300-0400	Radio Japan	17825.0ca	21610.0pa				
0300-0600	Voice of Islam, Malaysia	6175.0as	9665.0as	9750.0as	15295.0au		
0300-0400	Radio New Zealand Int'l	17675.0pa					
0300-0400	Radio Sultanate Oman	15355.0af					
0300-0500	Voice of Russia	9665.0na 17660.0na	11720.0na 17690.0na	11750.0na	12000.0na	17565.0na	17650.0na
0300-0400	Radio Taipei Int'l	5950.0na	9680.0na	15215.0sa	15320.0as		
0300-0400	Voice of Turkey	7270.0va	9650.0af	11655.0va			
0300-0600	Radio Uganda	4976.0do	5026.0do	7196.0do			
0300-0400	Radio Ukraine Int'l	12040.0na					
0300-0400	British Forces BCS	7260.0me	15795.0me				
0300-1600	University Network	17765.0as					
0300-0800	smtwhf WMLK Bethel PA	9465.0in					
0300-1500	WRNO New Orleans LA	7395.0am					
0300-0400	WSHB Cypress Creek SC	7535.0eu	9450.0eu				
0300-0400	WYFR Okeechobee FL	6065.0na	9505.0na	11740.0sa			
0305-0312	Croatian Radio, Zagreb	9925.0na					
0310-0330	Vatican Radio	9660.0af					
0330-0340	Voice of Africa, Libya	15435.0ir	21695.0ir				
0330-0357	Radio Prague Int'l	11600.0as	15620.0as				
0330-0357	Voice of Vietnam	6175.0na					
0330-0400	m La Voz Evangelica, Hond.	4819.2do					
0330-0400	AWR Africa, UAE	15160.0as					
0330-0400	Radio Dubai, UAE	12005.0na	13675.0na	15400.0na	17890.0na		
0330-0400	BBC World Service	3255.0af 7160.0af 15280.0as 17790.0as	5975.0ca 9750.0af 15310.0as 21660.0as	6005.0af 11760.0as 15360.0as 21830.0as	6190.0af 11835.0ca 15420.0af	6195.0eu 12035.0af 15575.0me	7120.0af 12095.0eu 17760.0as
0330-0400	VOA	6080.0af 12080.0af	7105.0af 17895.0af	7290.0af	9575.0af	9885.0af	11835.0af
0345-0400	Radio Tajikistan	7245.0					
0400-0415	Kol Israel	9435.0va	15640.0va	17600.0va			
0400-0415	TWR Meyerton	11640.0af					
0400-0430	Radio Australia	9660.0pa 21725.0as	12080.0va	15240.0pa	15415.0as	15515.0va	17580.0pa
0400-0430	Radio France Int'l	9550.0af	11700.0af	11910.0af	13610.0af		
0400-0430	s twhfa Radio Mexico Int'l	9705.0am	11770.2am				
0400-0430	Channel Africa, S. Africa	5955.0af					
0400-0430	Project Airwaves	21510.0as					
0400-0430	VOA	4960.0af 11835.0af	6080.0af 11965.0eu	7290.0af 12080.0af	9530.0eu 15205.0eu	9575.0af 17895.0af	9885.0af
0400-0456	China Radio Int'l	9560.0na	9755.0na				
0400-0456	Radio Romania Int'l	9510.0na	11940.0na	15335.0as	17735.0as		
0400-2400	Cameroon Radio TV	4850.0in					
0400-0500	Deutsche Welle	7225.0af	11945.0af	15410.0af			
0400-0500	Radio New Zealand Int'l	17675.0ir					
0400-0500	BBC World Service	3255.0af 7160.0af 15310.0as 17790.0as	5975.0am 9410.0eu 15360.0as 21660.0as	6005.0af 11760.0as 15420.0af 21830.0as	6190.0af 11835.0ca 15575.0me	6195.0eu 12095.0eu 17640.0af	7120.0af 15280.0as 17760.0as
0400-0600	British Forces BCS	11975.0me	15795.0me				
0400-0700	KWHR Naalehu HI	17780.0as					
0400-1000	twhfa WBCQ Monticello ME	7415.0na					
0400-0500	WBCQ Monticello ME	9329.7na					
0400-0500	WSHB Cypress Creek SC	9450.0eu	13720.0af				
0400-0900	WWCR Nashville TN	3210.0na	5070.0na	5935.0na	7560.0na		
0400-0500	WYFR Okeechobee FL	6065.0na	7355.0eu	9355.0eu	9505.0na	9715.0na	11580.0eu
0400-0600	Christian Voice, Zambia	6065.0do					
0427-0500	smt a Radio Voice of Hope	12060.0af	15320.0af				
0430-0445	BBC English Teaching	6010.0eu	9815.0eu				
0430-0500	Radio Australia	9660.0pa 17750.0as	12080.0va 21725.0as	15240.0pa	15415.0as	15515.0va	17580.0pa
0430-0530	Radio Netherlands	6165.0na	9590.0na				
0430-2305	Radio Nigeria, Abuja	7275.0do					
0430-2305	Radio Nigeria, Enugu	4775.0do	6025.0do				
0430-2305	Radio Nigeria, Ibadan	6050.0do					
0430-2305	Radio Nigeria, Kaduna	4770.0do	6090.0do				
0430-1000	Radio Nigeria, Lagos	3326.0do	4990.0do				
0430-0500	TWR Swaziland	3200.0af	4775.0af				
0430-0500	VOA	4960.0af 11965.0eu	6080.0af 12080.0af	7290.0af 15205.0eu	9530.0eu 17895.0af	9575.0af	11835.0af
0430-0500	Radio Yugoslavia	9580.0na					
0438-0450	Croatian Radio, Zagreb	9925.0na					
0445-0500	RAI, Rome	6110.0af	7235.0af	9875.0af			
0500-0505	Radio New Zealand Int'l	17675.0pa					
0500-0520	Vatican Radio	4005.0eu	5890.0eu	7250.0eu	9660.0af	11625.0af	15570.0af
0500-0530	Radio Australia	9660.0pa 21725.0as	12080.0va 15155.0af	15240.0pa	15415.0as	15515.0va	17580.0pa
0500-0530	Radio France Int'l	11685.0af	15155.0af	17800.0af			

0500-0530		AWR Africa, Meyerton	3215.0af	3345.0af					
0500-0530		Channel Africa, S. Africa	11710.0af						
0500-0530		BBC World Service	6005.0af	6190.0af	6195.0eu	7120.0af	7160.0af	9410.0eu	
			11760.0me	11765.0af	11940.0af	11955.0as	12095.0eu	15280.0as	
			15310.0as	15360.0as	15420.0af	15565.0eu	15575.0as	17640.0af	
			17760.0as	17790.0as	17885.0af	21660.0as			
0500-0600		VOA	6035.0af	6080.0af	7290.0af	9530.0eu	11835.0af	11965.0eu	
			12080.0af	15205.0eu					
0500-0600	mtwhf	VOA	7195.0af						
0500-0600	mtwhf	BBS, Bhutan	5030.0al	6035.0do					
0500-0700		Radio Havana Cuba	6195.0na	9665.0in	9820.0na				
0500-0600	a	Scandinavian Weekend R.	5990.0va	11720.0va					
0500-0600		Deutsche Welle	9700.0af	11925.0af	12045.0af	13755.0af	15410.0af		
0500-0600		Radio Japan	5975.0eu	6110.0na	7230.0eu	11715.0as	11760.0as	15195.0as	
			17810.0as	21755.0pa					
0500-0800		Radio Kuwait	15110.0as						
0500-1600		NBC Windhoek, Namibia	6060.0af	6175.0af					
0500-0800		Voice of Nigeria	7255.0af	9690.0af	11770.0af	15120.0af			
0500-0600		Voice of Russia	17635.0au	21790.0au					
0500-0630		TWR Swaziland	4775.0af	6120.0af	9500.0af				
0500-1000		WHRA Greenbush ME	11730.0af						
0500-0600		WSHB Cypress Creek SC	9450.0eu	9840.0af					
0500-0600		WYFR Okeechobee FL	9355.0eu						
0505-0512		Croatian Radio, Zagreb	9470.0pa						
0505-0705		Radio New Zealand Int'l	11825.0pa						
0515-0525		Radio Rwanda	6055.0do						
0520-0530		Vatican Radio	9660.0af	11625.0af	15570.0af				
0525-0915		Ghana Broadcasting Corp.	3366.0do	4915.0do					
0530-0545	s	BBC English Teaching	9875.0eu						
0530-0550	a	Radio Dubai, UAE	13675.0au	15435.0au	17830.0au	21700.0au			
0530-0700		Radio Australia	9660.0pa	12080.0va	15240.0pa	15415.0as	15515.0va	17580.0pa	
			17750.0as	21725.0as					
0530-0600		ORF Vienna	6155.0eu	13730.0eu	17870.0me				
0530-0630	mtwhf	Italian Radio Relay Svc	13840.0va						
0530-0630		AWR Africa, Meyerton	15105.0af						
0530-0600		Georgian Radio, Tbilisi	11805.0eu						
0530-0600		Radio Thailand	21795.0eu						
0530-0600		BBC World Service	6005.0af	6190.0af	6195.0eu	7120.0af	7160.0af	9410.0eu	
			11760.0me	11765.0af	11940.0af	11955.0as	12095.0eu	15310.0as	
			15360.0as	15420.0af	15565.0eu	15575.0as	17640.0af	17760.0as	
			17790.0as	21660.0as					
0530-0600	mtwhf	BBC World Service	17885.0af						
0600-0630		Radio France Int'l	11665.0af	17800.0af	21620.0af				
0600-0630		Channel Africa, S. Africa	15215.0af						
0600-0630		BBC World Service	6005.0af	6190.0af	7120.0af	7160.0af	9410.0eu	11765.0af	
			11940.0af	11955.0as	12095.0eu	15310.0as	15360.0as	15485.0eu	
			15565.0eu	15575.0as	17640.0af	17760.0as	17790.0as	21660.0as	
0600-0730	s	BBC World Service	17885.0af						
0600-0630	a	VOA	6035.0af	6080.0af	9530.0eu	9760.0eu	11805.0eu	11835.0af	
			11965.0eu	11995.0af	12080.0af	15205.0eu			
0600-0630	mtwhf	VOA	7195.0af	7290.0af					
0600-0637		Radio Romania Int'l	9530.0na	11830.0na					
0600-1200	a	Scandinavian Weekend R.	5990.0va	11690.0va					
0600-0700		Deutsche Welle	6140.0eu	9780.0af	15275.0af	17860.0af			
0600-0700		HCJB Quito Ecuador	9860.0eu	21455.0uf					
0600-0700		Radio Japan	7230.0eu	11740.0as	13630.0na	15195.0as	17870.0pa	21755.0pa	
0600-1300		ELWA Monrovia, Liberia	4760.0do						
0600-1800		Radio Liberia Int'l	6100.0do						
0600-1000		R. Veritas, Liberia	5470.0af						
0600-0825		Voice of Malaysia	6175.0as	9665.0as	9750.0as	15295.0au			
0600-0700		Voice of Russia	15490.0au	17635.0au	21790.0au				
0600-2400		SLBS, Sierra Leone	3316.0do						
0600-1300		Radio Uganda	5026.0do	7110.0do	7196.0do				
0600-0700		British Forces BCS	15425.0me	15795.0me					
0600-0900		WEWN Birmingham AL	5825.0na	9385.0eu					
0600-0800		WSHB Cypress Creek SC	9450.0af						
0600-0700		WYFR Okeechobee FL	7355.0eu	11580.0eu					
0600-1000		Radio Vanuatu	3945.0al	4960.0do					
0600-0700		Republic of Yemen Radio	9780.4me						
0600-1500		Christian Voice, Zambia	9865.0do						
0630-0700		Vatican Radio	11625.0af	13765.0af	15570.0af				
0630-0645	mtwhf	Vatican Radio	4005.0eu	5890.0eu	6185.0eu	7250.0eu	9645.0eu	11740.0eu	
			15595.0eu						
0630-0700		Radio Bulgaria	11600.0eu	13600.0eu					
0630-0900		TWR Swaziland	6120.0af	9500.0af					
0630-0700		BBC World Service	6005.0af	6190.0af	7120.0af	7160.0af	9410.0eu	11765.0af	
			11940.0af	11955.0as	12095.0eu	15310.0as	15360.0as	15400.0af	
			15485.0eu	15565.0eu	15575.0as	17640.0af	17760.0as	17790.0as	
			21660.0as						
0630-0700		VOA	9530.0eu	9760.0eu	11805.0eu	11965.0eu	15205.0eu		
0630-0700	s	VOA	6035.0af	6080.0af	7195.0af	11835.0af	11995.0af	12080.0af	
0637-0700	a	Radio Romania Int'l	9530.0na	9690.0eu	11830.0na	11840.0eu	11940.0eu	15270.0eu	
0638-0650		Croatian Radio, Zagreb	9470.0pa						
0645-0655	s	TWR Juelich	6045.0eu						
0645-0655	s	TWR Monte Carlo	9870.0eu						
0655-0750		TWR Juelich	6045.0eu						

0655-0750		TWR Monte Carlo	9870.0eu							
0700-0705		BBC World Service	6005.0af	6190.0af	7120.0af	11760.0me	11765.0af	11940.0af		
			11955.0as	12095.0eu	15310.0as	15360.0as	15400.0af	15485.0eu		
			15565.0eu	15575.0as	17640.0eu	17760.0as	17790.0as	21660.0as		
0700-0727		Radio Prague Int'l	9880.0eu	11600.0eu						
0700-0729		R. Vlaanderen Int'l	5985.0eu							
0700-0730		Radio Slovakia Int'l	9440.0au	15460.0au	17550.0au					
0700-0745		Voice of Hope, Germany	5975.0eu							
0700-0756		Radio Romania Int'l	17720.0af	21480.0af						
0700-0800		Radio Australia	9660.0pa	12080.0va	15240.0va	15415.0as	17580.0pa	17750.0as		
			21725.0as							
0700-0800		HCJB Quito Ecuador	9860.0eu	11770.0pa						
0700-1100		Radio Africa, Eq. Guinea	15184.6af							
0700-0800		Radio France Int'l	15605.0af							
0700-1000		Deutsche Welle	6140.0eu							
0700-0830		Radio Myanmar	9730.8do							
0700-0900		Voice of Russia	15490.0au	17495.0au	17525.0au	17635.0au				
0700-0800		Radio Taipei Int'l	5950.0na							
0700-1000		KWHR Naalehu HI	11565.0pa	17780.0as						
0700-0800		VOA	13760.0as							
0700-0800		WYFR Okeechobee FL	7355.0eu	11530.0af	13695.0af					
0705-0712		Croatian Radio, Zagreb	13820.0au							
0705-0720		BBC English Teaching	6005.0af							
0705-0730		BBC World Service	6190.0af	7120.0af	11760.0me	11765.0af	11940.0af	11955.0as		
			12095.0eu	15310.0as	15360.0as	15400.0af	15485.0eu	15565.0eu		
			15575.0as	17640.0eu	17760.0as	17790.0as	21660.0as			
0705-1300		Radio New Zealand Int'l	9885.0pa							
0725-0730	mtwhf	KTWR Guam	15205.0as							
0730-0815		KTWR Guam	15205.0as							
0730-0800		AWR Europe, Austria	9775.0eu							
0730-0800		Georgian Radio, Tbilisi	11910.0eu							
0730-1400		R. E. Highlands, Papua NG	3395.0do							
0730-1400		R. Milne Bay, Papua NG	3365.0do							
0730-1400		R. S. Highlands, Papua NG	3275.0do							
0730-0800		Swiss Radio Int'l	13650.0af	15445.0af	21750.0af					
0730-0800		BBC World Service	6190.0af	7120.0af	11760.0me	11765.0af	11940.0af	11955.0as		
			12095.0eu	15310.0as	15360.0as	15400.0af	15485.0eu	15565.0eu		
			17640.0eu	17760.0as	17790.0as	21660.0as				
0730-0800	s	BBC World Service	15575.0as	17885.0af						
0745-0815	mtwhf	KTWR Guam	15330.0as							
0750-0820	smtwhf	TWR Juelich	6045.0eu							
0750-0820	smtwhf	TWR Monte Carlo	9870.0eu							
0800-0804		Radio Pakistan	17835.0eu	21465.0eu						
0800-0805		BBC World Service	6190.0af	7120.0af	11760.0me	11940.0af	11955.0as	12095.0eu		
			15310.0as	15360.0as	15400.0af	15485.0eu	15565.0eu	17640.0eu		
			17760.0as	17790.0as	17830.0af	17885.0af	21470.0af	21660.0as		
			21830.0as							
0800-0900	s	BBC World Service	15575.0as							
0800-0830	a	Radio Australia	5995.0pa	9580.0va	9710.0pa	11880.0as	12080.0va	15240.0va		
			15415.0as	21725.0as						
0800-0845		Bible Voice Broadcasting	5975.0eu							
0800-0900	mtwhf	BBS, Bhutan	5030.0al	6035.0do						
0800-1100		HCJB Quito Ecuador	11770.0pa							
0800-0900		Voice of Indonesia	9525.0pa	11785.0pa						
0800-1300	s	Italian Radio Relay Svc	13840.0va							
0800-0900	s	V. of the Mediterranean	9605.0eu							
0800-0900	s	Amateur Radio League, SA	9750.0af	21560.0af						
0800-0900		Radio Korea	9570.0om	13670.0eu						
0800-0900		KNLS Anchor Point AK	11765.0as							
0800-1000		VOA	11930.0as	13620.0as	13760.0as	15150.0as				
0800-0900		WSHB Cypress Creek SC	9845.0au	9860.0eu						
0800-0900		WYFR Okeechobee FL	13570.0af							
0805-0900		BBC World Service	6190.0af	7120.0af	11760.0me	11940.0af	11955.0as	12095.0eu		
			15310.0as	15360.0as	15400.0af	15485.0eu	15565.0eu	17640.0eu		
			17760.0as	17830.0af	17885.0af	21470.0af	21660.0as	21830.0as		
0810-0830	s	Voice of Armenia, Yerevan	4810.0eu	15270.0eu						
0815-0900		KTWR Guam	15205.0as	15330.0as						
0830-0930		AWR Europe, Austria	17780.0af							
0830-2130		ABC Alice Springs	2310.0do	4835.0ir						
0830-2130		ABC Katherine	2485.0do							
0830-2130		ABC Tennant Creek	2325.0do							
0830-0900		Radio Australia	5995.0pa	9580.0va	9710.0pa	11880.0as	12080.0va	15240.0va		
			15415.0as	17750.0as	21725.0as					
0830-0900		Georgian Radio, Tbilisi	11910.0me							
0830-0900		Radio Vilnius, Lithuania	9710.0eu							
0830-0900		Swiss Radio Int'l	21770.0af							
0838-0850		Croatian Radio, Zagreb	13820.0au							
0840-0850		Turkmen Radio, Ashgabat	4930.0do							
0845-0915	s	Bible Voice Broadcasting	5975.0eu							
0900-0927		Radio Prague Int'l	21745.0va							
0900-0930		Radio Australia	9580.0va	11880.0as	15240.0as	21820.0as				
0900-0930		KTWR Guam	15330.0as							
0900-0956		China Radio Int'l	11730.0pa	15210.0pa						
0900-1500		Voice Int'l, Australia	13685.0as							
0900-1000		Voice of Nigeria	7255.0af	9690.0af	11770.0af	15120.0af				
0900-1100		KHBN Palau	15725.0as							

0900-1400		Nat'l BC, Papua NG	4890.0do	9675.0lr					
0900-1000	s	R. UNMEE, UAE	21715.0af						
0900-1000		BBC World Service	6190.0af	6195.0as	7120.0af	9605.0as	9740.0as	11760.0me	
			11940.0af	12095.0eu	15190.0sa	15310.0as	15360.0as	15400.0af	
			15485.0eu	15565.0eu	15575.0as	17640.0eu	17760.0as	17790.0as	
			17830.0af	17885.0af	21470.0af	21660.0as			
0900-1000		WEWN Birmingham AL	5825.0na						
0900-1200		WRMI Miami FL	9955.0am						
0900-1000		WSHB Cypress Creek SC	9455.0sa	9860.0eu					
0900-1000		WWCR Nashville TN	5070.0na	5935.0na	7560.0na	9475.0na			
0900-1000	mt hfa	Vatican Radio	5890.0eu						
0915-1200		Ghana Broadcasting Corp.	6130.0do						
0915-1200	s	a Ghana Broadcasting Corp.	4915.0do						
0930-1100		Radio Australia	9580.0va	11880.0as	15240.0as	17750.0as	21820.0as		
0930-1000		Voice of Greece	12105.0eu	15630.0eu	17900.0eu				
0930-1030		Radio Netherlands	9785.0au	12065.0as	13710.0as				
1000-1027		Voice of Vietnam	9840.0au	12020.0au					
1000-1030		Deutsche Welle	6140.0eu	17615.0as	17715.0as				
1000-1030		KSDA Guam	11560.0as	11930.0as					
1000-1030		Radio Telefis Eireann	15280.0au						
1000-1030		Voice of Mongolia	12085.0as						
1000-1030		BBC World Service	6190.0af	6195.0ca	7120.0af	9605.0as	9740.0as	11760.0me	
			11940.0af	12095.0eu	15310.0as	15360.0as	15485.0eu	15565.0eu	
			15575.0as	17640.0eu	17760.0as	17790.0as	17885.0af	21470.0af	
			21660.0as						
1000-1100		BBC World Service	6195.0as						
1000-1100	s	a BBC World Service	15190.0sa	15400.0af	17830.0af				
1000-1045		KWHR Naalehu HI	9930.0as	11565.0pa					
1000-1056		China Radio Int'l	11730.0pa	15210.0pa					
1000-1056		Voice of Korea	3560.0as	9335.0am	9849.9as	11710.1am	11735.1as		
1000-2200		Caribbean Beacon	11775.0am						
1000-1130	s	a BBS, Bhutan	5030.0al	6035.0do					
1000-1730		Radio Botswana	4820.0do	7255.0do	9595.0in				
1000-2200		Voice of Guyana	5949.4do						
1000-1100		All India Radio, Delhi	13695.0as	15020.0as	15410.0as	15260.0as	17510.0au	17800.0as	
			17895.0au						
1000-1100		Radio Japan	9695.0as	15590.0as	17585.0eu	21755.0pa			
1000-1200		Radio Jordan	11690.0eu						
1000-1600		Radio Nigeria, Lagos	4990.0do	7285.0do					
1000-1200		Voice of Nigeria	7255.0af	9690.0af	11770.0af				
1000-1100		R. Veritas, South Africa	7240.0af						
1000-1100		VOA	5745.0am	7370.0am	9590.0am	9770.0as	13620.0as	15240.0as	
			15425.0as						
1000-1400		WEWN Birmingham AL	7520.0na						
1000-1300		WHRI Noblesville IN	9495.0am	9850.0na					
1000-1200		WINB Red Lion PA	9320.0am						
1000-1100		WSHB Cypress Creek SC	6095.0am	9455.0sa	11780.0as				
1000-1200		WWCR Nashville TN	5070.0na	5935.0na	7560.0na	15825.0na			
1000-1100		WYFR Okeechobee FL	5950.0na						
1000-1115	mtwhfa	Radio Vanuatu	3945.0af	4960.0do					
1015-1030		Kol Israel	15640.0va	17525.0va	17545.0va				
1015-1030		BBC English Teaching	11680.0eu	13750.0eu	15325.0eu	17695.0eu			
1030-1045	mtwhf	Radio Ethiopia	5990.0do	7110.0do	9704.2do				
1030-1057		Radio Prague Int'l	9880.0eu	11615.0eu					
1030-1100		Deutsche Welle	6140.0eu						
1030-1100		KSDA Guam	11560.0as						
1030-1130		VOIRI Teheran	15450.0as	15550.0as	15600.0as	21470.0as	21730.0as		
1030-1125		Radio Netherlands	5965.0na	6045.0eu	9785.0au	9860.0eu	12065.0as	13710.0as	
1030-1100		Radio Dubai, UAE	13675.0eu	15395.0eu	17865.0eu	21605.0eu			
1030-1130	t	R. UNMEE, UAE	21550.0af						
1030-1100		BBC English Teaching	9605.0as	11945.0as	15285.0as	21660.0as			
1030-1100		BBC World Service	6190.0af	6195.0ca	7120.0af	9740.0as	11760.0me	11940.0af	
			12095.0eu	15310.0as	15485.0eu	15565.0eu	15575.0as	17640.0eu	
			17760.0as	17790.0as	17885.0af	21470.0af			
1045-1630		KWHR Naalehu HI	9930.0as						
1045-1300	s	a KWHR Naalehu HI	11565.0pa						
1100-1104		Radio Pakistan	17835.0eu	21465.0eu					
1100-1127		Voice of Vietnam	11630.0as						
1100-1130		Radio Australia	5995.0pa	6020.0pa	9475.0as	9580.0va	11650.0va	11880.0as	
			12080.0va	15240.0as	21820.0as				
1100-1130	mtwhf	BBC Caribbean Report	6195.0ca	15190.0ca					
1100-1130		BBC World Service	6190.0af	6195.0as	7120.0af	9740.0as	11760.0me	11940.0af	
			12095.0eu	15310.0as	15400.0af	15485.0eu	15565.0eu	15575.0as	
			17640.0eu	17760.0as	17790.0va	17830.0af	17885.0af	21470.0af	
1100-1130	s	a BBC World Service	6195.0ca	15190.0am					
1100-1200		VOA	6160.0as	9645.0as	9760.0as	9770.0as	13610.0as	15160.0as	
			15240.0as	15425.0as					
1100-2400		CBC Northern Service	9625.0do						
1100-1200		HCJB Quito Ecuador	11770.0pa	12005.0am	15115.0am	21455.0uf			
1100-1200		Deutsche Welle	6140.0eu	15110.0as	17820.0as				
1100-1200		Radio Japan	6120.0na	9695.0as	15590.0as				
1100-1400		Radio Singapore Int'l	6150.0as	9600.0as					
1100-1400		SIBC Solomon Islands	5019.9lr	9545.0lr					
1100-1200		Radio Taipei Int'l	7445.0as	11985.0as					
1100-1200		Radio Ukraine Int'l	15415.0eu						
1100-1200		WSHB Cypress Creek SC	6095.0am	9455.0am					

1100-1200		WYFR Okeechobee FL	5850.0na	5950.0na	7335.0sa	11855.0sa			
1115-1145		Radio Nepal, Katmandu	3230.0as	5005.0as	6100.0as	7164.4as			
1125-1225		Radio Netherlands	5965.0na	6045.0eu	9860.0eu				
1130-1140		Voice of Africa, Libya	15435.0lr	21695.0lr					
1130-1145		BBC English Teaching	7135.0as	11920.0as					
1130-1145	s	Bible Voice Broadcasting	13590.0as						
1130-1159		R. Vlaanderen Int'l	9865.0as						
1130-1200		Radio Australia	5995.0pa	6020.0pa	9475.0as	9580.0va	11650.0va	11880.0as	
			12080.0va	21820.0as					
1130-1200		ORF Vienna	6155.0eu	13730.0eu					
1130-1200		Radio Bulgaria	11700.0eu	15700.0eu					
1130-1230		Radio Korea	9650.0na						
1130-1200		Radio Sweden	17505.0as	17840.0na					
1130-1200		BBC World Service	6190.0af	6195.0va	7120.0af	9740.0as	11760.0me	11940.0af	
			12095.0eu	15190.0am	15310.0as	15485.0eu	15565.0eu	15575.0as	
			17640.0eu	17760.0as	17790.0as	17830.0af	17885.0af	21470.0af	
1130-1200		Vatican Radio	15595.0va	17515.0va					
1145-1155		Radio Rwanda	6055.0do						
1145-1200		Bible Voice Broadcasting	13590.0as						
1200-1215		V. of Cambodia	11940.4as						
1200-1230		HCJB Quito Ecuador	12005.0am	15115.0am	21455.0uf				
1200-1230		Radio France Int'l	17815.0af	21620.0af	25820.0af				
1200-1230	mtwhf	BBC Caribbean Report	6195.0ca	15190.0ca					
1200-1230		BBC World Service	6190.0af	6195.0as	7120.0af	9740.0as	11760.0me	11940.0af	
			12095.0eu	15310.0as	15485.0eu	15565.0eu	15575.0me	17640.0eu	
			17760.0as	17790.0as	17830.0af	17885.0af	21470.0af		
1200-1230	s	BBC World Service	6195.0ca	15190.0am					
1200-1300		VOA	6160.0as	9645.0as	9760.0as	13610.0as	15160.0as	15240.0as	
			15425.0as						
1200-1230		Radio Tashkent	7285.0as	9715.0as	15295.0as	17775.0as			
1200-1255		Radio Polonia, Warsaw	9525.0eu	11820.0eu					
1200-1256		China Radio Int'l	9730.0as	9760.0pa	11760.0pa	11980.0as	15415.0pa		
1200-1300		Radio Australia	5995.0pa	6020.0pa	9475.0as	9580.0va	11650.0va	11880.0as	
			21820.0as						
1200-1300		Radio Canada Int'l	9660.0as	15190.0as					
1200-1300	mtwhf	Radio Canada Int'l	9515.0na	13655.0na	17820.0na				
1200-1500		Voice of Hope, China	13590.0as						
1200-1400	a	Scandinavian Weekend R.	5990.0va	11720.0va					
1200-1600		Deutsche Welle	6140.0eu						
1200-1700		Ghana Broadcasting Corp.	4915.0do	6130.0do					
1200-1630		Radio Jordan	11690.0na						
1200-1300		Radio Taipei Int'l	7129.9as	9610.0au					
1200-2400	mtwhf	KAIJ Dallas TX	13815.0va						
1200-1300		WBCQ Monticello ME	17494.9na						
1200-2300		WINB Red Lion PA	13570.0am						
1200-2300		WRMI Miami FL	15725.0na						
1200-1300		WSHB Cypress Creek SC	9430.0am	9880.0as	11670.0am				
1200-1300		WWCR Nashville TN	7560.0na	12160.0na	13845.0na	15825.0na			
1200-1300		WYFR Okeechobee FL	5850.0na	5950.0na	7335.0sa	11855.0sa			
1215-1330		Radio Cairo	17775.0as						
1230-1245		BBC English Teaching	15105.0af	17780.0af	21640.0af				
1230-1257		Voice of Vietnam	9839.9as	12019.9as					
1230-1300		ORF Vienna	21780.0as						
1230-1300		Radio Bangladesh	7185.0as	9550.0as					
1230-1430		HCJB Quito Ecuador	12005.0am	15115.0am	15480.0as	21455.0uf			
1230-1630		Sri Lanka B'casting Corp.	6005.0as	11930.0as	15745.0as				
1230-1300		Radio Sweden	15750.0as	17505.0as	17840.0na				
1230-1300		Radio Thailand	9700.0as						
1230-1330		Voice of Turkey	17595.0as	17830.0eu					
1230-1300		BBC World Service	6190.0af	6195.0va	7120.0af	9740.0as	11760.0me	11940.0af	
			12095.0eu	15190.0am	15310.0as	15485.0eu	15565.0eu	15575.0me	
			17640.0eu	17760.0as	17790.0as	17830.0af	17885.0af	21470.0af	
1230-1300	a	Wales Radio Int'l	17845.0au						
1245-1300		FEBA	15530.0me						
1300-1305	mtwhfa	Radio New Zealand Int'l	9885.0lr						
1300-1310		Turkmen Radio, Ashgabat	5015.0do						
1300-1327		Radio Prague Int'l	13580.0eu	21745.0as					
1300-1330		Radio Australia	5995.0pa	6020.0pa	9580.0va	11650.0va	11880.0as	21820.0as	
1300-1330		AWR Africa, UAE	17740.0as						
1300-1356		China Radio Int'l	7405.0na	9570.0na	11760.0pa	11900.0pa	11980.0as	15180.0as	
			17720.0na						
1300-1356		Voice of Korea	4405.0as	7505.0eu	9335.0na	11335.1eu	11710.0am		
1300-1500		Radio Canada Int'l	9515.0na	13655.0na					
1300-1500	s	Radio Canada Int'l	17800.0na						
1300-1500	mtwhf	Radio Canada Int'l	17820.0na						
1300-2100		R. for Peace Int'l	7445.0lr	15038.7va					
1300-1500	s	Channel Africa, S. Africa	11780.0af	21620.0af	21760.0af				
1300-1400		Radio Korea	9570.0am	13670.0am					
1300-2100		Radio Uganda	4976.0do	5026.0do	7196.0do				
1300-1400		BBC World Service	6190.0af	6195.0va	7120.0af	9740.0as	11760.0me	11940.0af	
			12095.0eu	15190.0am	15310.0as	15420.0af	15485.0eu	15565.0eu	
			15575.0me	17640.0eu	17760.0as	17790.0as	17830.0af	17885.0af	
			21470.0af						
1300-1500		KJES Vado NM	11715.0na						
1300-1400		KNLS Anchor Point AK	11870.0as						
1300-1400		Overcomer Ministries	13810.0me						

1300-1400	VOA	6160.0as	9645.0as	9760.0as	15160.0as	15425.0as	
1300-2000	WBCQ Monticello ME	17494.9na					
1300-1500	WHRA Greenbush ME	17560.0af					
1300-1500	WHRI Noblesville IN	9850.0na	15105.0am				
1300-1400	WSHB Cypress Creek SC	7460.0as	9430.0na	11670.0na			
1300-2200	WWCR Nashville TN	9475.0na	12160.0na	13845.0na	15825.0na		
1300-1500	WYFR Okeechobee FL	11560.0as	11830.0na	11970.0na	17750.0na		
1305-1650	Radio New Zealand Int'l	6095.0oc					
1330-1345	BBC English Teaching	15105.0af	21640.0af				
1330-1350	Radio Dubai, UAE	13630.0eu	13675.0eu	15395.0eu	17865.0eu	21605.0eu	
1330-1357	Voice of Vietnam	11630.0eu	13740.0eu				
1330-1400	Radio Australia	5995.0pa	6020.0pa	9580.0va	11650.0va	11660.0as	21820.0as
1330-1400	ORF Vienna	6155.0eu	13730.0eu				
1330-1530	Voice of Hope, Germany	15775.0as					
1330-1400	KSDA Guam	11980.0as	15275.0as				
1330-1500	All India Radio, Delhi	9690.0as	13710.0as				
1330-1400	Lao Nat'l Radio	7145.0do					
1330-1400	Radio Sweden	17505.0va	17840.0na				
1330-1400	AWR Africa, UAE	15320.0as					
1330-1400	Radio Tashkent	7285.0as	9715.0as	15295.0as	17775.0as		
1330-1400	Radio Yugoslavia	11835.0au					
1400-1415	mtw BBC English Teaching	11860.0af	15420.0af	21490.0af			
1400-1430	Radio Australia	5995.0va	9580.0va	11650.0va	11660.0as		
1400-1430	Radio Mexico Int'l	9705.0am	11770.2am				
1400-1430	Radio Thailand	9830.0as					
1400-1456	China Radio Int'l	7405.0na	9700.0as	11675.0as	11765.0as	13685.0af	15125.0af
		17720.0na					
1400-1456	Radio Romania Int'l	15250.0eu	15365.0eu	17790.0eu	17805.0eu		
1400-1600	a Scandinavian Weekend R.	5980.0va	11720.0va				
1400-1500	Radio France Int'l	11610.0as	17515.0as				
1400-1500	Radio Japan	7200.0as	9505.0na	11730.0as	11840.0pa	17755.0me	
1400-1500	Radio Sultanate Oman	15140.0eu					
1400-1500	Voice of Russia	7340.0as	9745.0as	12055.0as	17645.0as		
1400-1600	SBC Radio 1, Singapore	6150.0do					
1400-1500	Radio Taipei Int'l	15265.0as					
1400-1500	BBC World Service	6135.0as	6190.0af	6195.0as	7120.0af	9740.0as	11940.0af
		12095.0eu	15190.0am	15310.0as	15485.0eu	15565.0eu	15575.0me
		17640.0eu	17790.0as	17830.0af	21470.0af	21660.0af	
1400-1600	British Forces BCS	13860.0me	17895.0me				
1400-1500	VOA	6160.0as	7125.0as	9760.0as	15160.0as	15255.0eu	15425.0as
1400-1600	WEWN Birmingham AL	9955.0na					
1415-1420	Radio Nepal, Katmandu	3230.0as	5005.0as	6100.0as	7164.4as		
1430-1700	Radio Australia	5995.0va	9475.0as	9580.0va	11650.0va	11660.0as	
1430-1500	HCJB Quito Ecuador	15480.0as					
1430-1600	Radio Myanmar	5040.6do	5985.9do				
1430-1625	Radio Netherlands	9890.0as	11835.0as	12075.0as	15220.0na		
1430-1500	a Bible Voice Broadcasting	5945.0as					
1445-1545	mtwhfa KTWR Guam	15330.0as					
1445-1500	BBC English Teaching	6140.0as	7205.0as				
1500-1528	s Radio Budapest	6025.0eu	9715.0eu				
1500-1530	s a Voice of Hope, Germany	15680.0me					
1500-1530	Radio Mexico Int'l	9705.0am	11770.2am				
1500-1530	Voice of Mongolia	12015.0as					
1500-1530	Channel Africa, S. Africa	17770.0af					
1500-1530	BBC World Service	5975.0as	6135.0as	6190.0af	6195.0as	7120.0af	9740.0as
		11860.0af	11940.0af	12095.0eu	15190.0am	15310.0as	15400.0af
		15420.0af	15485.0eu	15565.0eu	17790.0as	17830.0af	21470.0af
		21490.0af	21660.0af				
1500-1600	VOA	7125.0as	9700.0eu	15205.0eu	15255.0eu		
1500-1600	VOA Special English	6160.0as	9590.0as	9760.0as	9845.0as	12040.0as	15550.0as
1500-1556	China Radio Int'l	7160.0as	9785.0as	13685.0af	15125.0af		
1500-1556	Voice of Korea	4405.0as	7505.0eu	9335.1am	11335.2eu	11710.1am	
1500-1700	Voice Int'l, Australia	13665.0as					
1500-1600	Radio Canada Int'l	15455.0as	17720.0as				
1500-1600	s a Radio Canada Int'l	9515.0na	13655.0na	17800.0na			
1500-2230	s Reflections Europe, Ire.	3910.0eu	6295.0eu	12255.0eu			
1500-1600	Radio Japan	7200.0as	9750.0as	11705.0na	11730.0as		
1500-1600	FEBA	7460.0as					
1500-1600	Voice of Russia	4940.0me	4965.0me	4975.0me	7315.0as	7325.0me	7340.0as
		11500.0as	11985.0me				
1500-2400	KTBN Salt Lake City UT	15590.0na					
1500-2300	WHRA Greenbush ME	17650.0af					
1500-1700	WHRI Noblesville IN	13760.0va	15105.0am				
1500-2000	smtwhf WRML Bethel PA	9465.0eu					
1500-2300	WRNO New Orleans LA	7395.0am	15420.0af				
1500-1600	WYFR Okeechobee FL	6280.0as	11830.0na	15520.0as	17750.0na		
1500-2400	Christian Voice, Zambia	4965.0do					
1515-1530	mtw Bible Voice Broadcasting	9540.0as					
1515-1530	a Bible Voice Broadcasting	15680.0me					
1515-1530	Vatican Radio	12065.0as	13765.0as	15235.0as			
1530-1545	Radio Bangladesh	4882.0as					
1530-1545	BBC English Teaching	11685.0as	15540.0as				
1530-1615	Bible Voice Broadcasting	15680.0me					
1530-1545	m Bible Voice Broadcasting	9540.0as					
1530-1545	m hfa Bible Voice Broadcasting	17655.0as					

1530-1600		ORF Vienna	15515.0na						
1530-1600		Georgian Radio, Tbilisi	6180.0me						
1530-1600		Voice of Hope, Germany	15680.0me	17655.0me					
1530-1630		VOIRI Teheran	7245.0as	9635.0as	11775.0as				
1530-1600		BBC World Service	5975.0as	6135.0as	6190.0af	6195.0as			
			11940.0af	12095.0eu	15190.0am	15310.0as		7120.0af	9740.0as
			15565.0eu	17790.0as	17830.0af	21470.0af		21660.0af	15485.0eu
			12065.0af	13765.0af	15235.0af				
1530-1600	a	Vatican Radio	4930.0do						
1540-1550	s	Turkmen Radio, Ashgabat	4882.0as						
1545-1600	h	Radio Bangladesh	17655.0as						
1545-1600	m	Bible Voice Broadcasting	11570.0me	15065.0me	15725.0af	17820.0af			
1600-1615	whf	Radio Pakistan	3915.0as	5975.0as	6190.0af	6195.0as		7120.0af	7160.0as
1600-1630		BBC World Service	9410.0eu	9510.0as	11940.0af	12095.0eu		15190.0am	15310.0as
			15400.0af	15485.0eu	15565.0eu	17790.0as		17830.0af	21470.0af
1600-1615	mtwhf	Bible Voice Broadcasting	17655.0as						
1600-1627		Radio Prague Int'l	5930.0eu	21745.0af					
1600-1627		Voice of Vietnam	11630.0eu	13740.0eu					
1600-1630		KSDA Guam	11560.0as	15215.0as	15235.0as				
1600-1630	w	R. Pridnestrovye, Moldova	5960.0eu						
1600-1630		Channel Africa, S. Africa	9525.0af						
1600-1635		Radio Dubai, UAE	13630.0eu	13675.0eu	15395.0eu	17865.0eu		21605.0eu	
1600-1656		China Radio Int'l	9565.0af	11900.0af					
1600-1656		Voice of Korea	3560.0as	9975.0af	11735.2af				
1600-1700		Radio Algiers	11715.0in	15160.0in					
1600-1730		HCJB Quito Ecuador	15480.0as						
1600-1700		Radio Ethiopia	5990.0af	7110.0af	7165.0af	9560.2af	9704.2af	11800.0af	
1600-1700	a	Scandinavian Weekend R.	5990.0va	11720.0va					
1600-1700		Radio France Int'l	9730.0af	11615.0af	11995.0af	12015.0af	15255.0af	15605.0af	
			17605.0af	17850.0af					
1600-1700		Deutsche Welle	6140.0eu	6170.0as	7225.0as	17595.0as			
1600-1730		Voice of Hope, Germany	15680.0me						
1600-1700	a	Voice of Greece	9420.0eu	15630.0eu	17705.0na				
1600-2400		NBC Windhoek, Namibia	3270.1in	3290.1af	6060.0af				
1600-2305		Radio Nigeria, Lagos	3326.0do	4990.0do					
1600-1700		Voice of Russia	7315.0as	7350.0as	11720.0as	11985.0me	12055.0as	15540.0me	
1600-1900		R. Veritas, South Africa	3230.0af						
1600-1700		Radio Korea	5975.0orm	9515.0af	9870.0af				
1600-1700		Radio Taipei Int'l	11550.0as						
1600-1700		British Forces BCS	13860.0me	17635.0me					
1600-1700		VOA	6160.0as	7125.0as	9700.0eu	9760.0as	9850.0af	13695.0af	
			15205.0eu	15225.0af	15255.0eu	15410.0af	15580.0af		
1600-1700		VOA Special English	12080.0af	13600.0as	17895.0af				
1600-1700		WEWN Birmingham AL	13615.0na						
1600-1800		WSRB Cypress Creek SC	18910.0af						
1600-2200		WWRB Manchester TN	9320.0na	12172.0na					
1600-1700		WYFR Okeechobee FL	11830.0na	15520.0as	17750.0na	18980.0eu	21455.0eu	21525.0af	
1600-1900		SWR Africa, Zimbabwe	6145.0af						
1615-1630	s	BBC World Service	11860.0af	15420.0af	21490.0af				
1615-1700	s	Bible Voice Broadcasting	15680.0me						
1615-1630	t	Vatican Radio	4005.0eu	5890.0eu	7250.0eu	9645.0eu	15595.0eu		
1630-1645	h	Kol Israel	15640.0va	17545.0va					
1630-1830		Radio Cairo	15255.0af						
1630-1700		KSDA Guam	11560.0as	11975.0as	15215.0as	15235.0as			
1630-1700		Radio Slovackia Int'l	5920.0eu	6055.0eu	7345.0eu				
1630-1700		AWR Africa, UAE	17630.0me						
1630-1700		BBC English Teaching	9530.0eu	11735.0eu	13645.0eu				
1630-1700		BBC World Service	3915.0as	5975.0as	6190.0af	6195.0as	7120.0af	7160.0as	
			9410.0eu	9510.0as	11940.0af	12095.0eu	15190.0am	15310.0as	
			15400.0af	15420.0af	15485.0eu	15565.0eu	17790.0as	17830.0af	
			21470.0af						
1630-1700	s	BBC World Service	11860.0af	21490.0af					
1645-1700		Radio Tajikistan	7245.0						
1650-1700	mtwhf	Radio New Zealand Int'l	6095.0lr						
1700-1715		Radio Galkayo, Somalia	6985.0va						
1700-1730	tw	Bible Voice Broadcasting	13810.0af						
1700-1730	fa	Bible Voice Broadcasting	7430.0me						
1700-1715	sm	Bible Voice Broadcasting	15680.0me						
1700-1727	wh	Radio Prague Int'l	5930.0eu	17485.0af					
1700-1727	a	Voice of Vietnam	9725.0eu						
1700-1730		Voice of Azerbaijan	6110.8eu	9155.0in					
1700-1730		Radio France Int'l	15605.0af	17605.0af					
1700-1730		Channel Africa, S. Africa	15265.0af						
1700-1730		VOA	6160.0as	7125.0as	7170.0as	9645.0as	9700.0eu	9760.0eu	
			9850.0af	15255.0eu	15410.0af	15580.0af	17895.0af		
1700-1730	mtwhf	VOA	5990.0as	6045.0as	7215.0as	9770.0as	9785.0as		
1700-1745		BBC World Service	3255.0af	3915.0as	5975.0as	6005.0af	6190.0af	6195.0eu	
			7120.0af	7160.0as	9410.0eu	9510.0as	9630.0af	12095.0eu	
			15310.0as	15400.0af	15420.0af	15485.0eu	15565.0eu	17830.0af	
			21470.0af						
1700-1750	mtwhf	Radio New Zealand Int'l	6095.0pa						
1700-1755		Radio Polonia, Warsaw	5995.0eu	7285.0eu					
1700-1756		China Radio Int'l	9570.0af	9695.0af	11910.0af	11920.0af			
1700-1756		Radio Romania Int'l	9510.0eu	11820.0eu	11940.0eu	15380.0eu			
1700-1800		Radio Australia	5995.0va	9475.0as	9580.0va	9815.0pa	11880.0va		
1700-2100		Voice Int'l, Australia	11680.0as						

1700-2300		Radio Africa, Eq. Gulnea	7189.7af	15184.6al					
1700-2100	a	Scandinavian Weekend R.	6170.0va	11690.0va					
1700-1900		Deutsche Welle	6140.0eu						
1700-1900		Radio Africa Int'l	13820.0af	15715.0af					
1700-2400		Ghana Broadcasting Corp.	3366.0do	4915.0do					
1700-1800		Radio Japan	9505.0na	11970.0eu	15355.0af				
1700-1800		Voice of Hope, Russia	9495.0eu						
1700-1800		Voice of Russia	7315.0as	9775.0eu	9890.0eu	11510.0af	11985.0af		
1700-1800	s	Voice of Russia	9480.0eu						
1700-1800		Radio Taipei Int'l	3955.0eu	11550.0eu					
1700-1800		British Forces BCS	13860.0me	15150.0me					
1700-2400		University Network	9940.0as						
1700-2200		WEWN Birmingham AL	13615.0na	17595.0eu					
1700-2000		WHRI Noblesville IN	9495.0am	13760.0va					
1700-1800		WYFR Okeechobee FL	18980.0eu	21455.0eu	21680.0af				
1715-1730		TWR Swaziland	3200.0af						
1730-1740		Voice of Africa, Libya	15435.0ir	21695.0ir					
1730-1745		BBC English Teaching	3390.0af	7230.0af	9525.0af				
1730-1745	m w	BBC English Teaching	6050.0eu	11955.0eu	15585.0eu				
1730-1745	sm w fa	Bible Voice Broadcasting	7430.0me						
1730-1745	mtwhf	United Nations Radio	7150.0af	15495.0me	17810.0af				
1730-1759		R. Vlaanderen Int'l	9925.0eu	13690.0eu	13710.0me				
1730-2200		Radio Botswana	3356.0in	4820.0do	7255.0do				
1730-1800		Radio Bulgaria	9400.0eu	11900.0eu					
1730-1800		Georgian Radio, Tbilisi	11910.0eu						
1730-1800	s	Voice of Hope, Germany	15680.0me						
1730-1800		KSDA Guam	9385.0me	12015.0me					
1730-2230		ELWA Monrovia, Liberia	4760.0do						
1730-1830		Radio Netherlands	6020.0af	7120.0af	11655.0af				
1730-1800	mtwhfa	V. of the Mediterranean	9605.0eu						
1730-1930		Radio Pilipinas, Manila	11720.0me	15190.0me	17720.0me				
1730-1900		TWR Swaziland	3200.0af	9500.0af					
1730-1800	mtwhfa	Radio Sweden	6065.0va						
1730-1800	s	Radio Sweden	13580.0va						
1730-1800		Swiss Radio Int'l	13750.0af	15515.0af	17870.0af				
1730-1800		VOA	6160.0as	7125.0as	7170.0as	9645.0as	9700.0eu	9760.0eu	
1730-1800	mtwhf	VOA	9850.0af	15255.0eu	15410.0af	15580.0af			
1730-1800		VOA	5990.0as	6045.0as	7215.0as	9770.0as	9785.0as	15730.0af	
1730-1800		Vatican Radio	13765.0af	15570.0af	17515.0af				
1745-1900		Radio Bangladesh	7185.0eu	9550.0eu	15520.0eu				
1745-1945		All India Radio, Delhi	7410.0eu	9445.0af	9950.0eu	11620.0eu	11935.0af	13605.0af	
1745-1800		BBC World Service	15075.0af	15155.0af	17670.0af				
1745-1800	s tw fa	Bible Voice Broadcasting	3255.0af	3915.0as	5975.0as	6190.0af	6195.0eu	7120.0af	
1750-1850	mtwhf	Radio New Zealand Int'l	7160.0as	9410.0eu	9510.0as	12095.0eu	15310.0as	15400.0af	
1800-1815		Bible Voice Broadcasting	15420.0af	15485.0eu	15565.0eu	17830.0af	21470.0af		
1800-1827		Voice of Vietnam	7430.0me						
1800-1830	s	Universal Life, Germany	11980.0pa						
1800-1900	s	Voice of Greece	5970.0eu	7430.0me					
1800-1830		Radio Telefis Eireann	11630.0eu	13740.0eu					
1800-1830		AWR Africa, Meyerton	15750.0af						
1800-1830		Channel Africa, S. Africa	9420.0eu	15630.0eu	17705.0na				
1800-1830		BBC World Service	15585.0me						
1800-1900		VOA	3215.0af	3345.0af	9520.0af				
1800-1845	mtwhf	Voice of Hope, Germany	15265.0af						
1800-1900		RAE Buenos Aires	3255.0af	5975.0as	6190.0af	6195.0eu	7120.0af	9410.0eu	
1800-1900		Radio Australia	9510.0as	12095.0eu	15310.0me	15400.0af	15420.0af	17830.0af	
1800-2100		Radio Kuwait	21470.0af						
1800-2200		Radio Liberia Int'l	9760.0eu	9770.0eu	9850.0af	11975.0af	15410.0af	15580.0af	
1800-2200		R. Veritas, Liberia	17895.0af						
1800-1900		Voice of Nigeria	5970.0eu						
1800-1900		Voice of Russia	9480.0eu	9775.0eu	9890.0eu	11510.0af	11630.0eu	11675.0eu	
1800-1900	m	Amateur Radio League, SAf	11870.0af						
1800-1900	s	Radio Lusofonia, S.Afr.	3215.0af	3345.0af					
1800-1900		R. Omdurman, Sudan	7200.0do	9505.0do					
1800-2000		British Forces BCS	6015.0me	13760.0me					
1800-1900		KJES Vado NM	15385.0na						
1800-2000	s	WBCQ Monticello ME	7415.0na						
1800-2200		WSHB Cypress Creek SC	15665.0eu	18910.0af					
1800-1900		WYFR Okeechobee FL	18980.0eu						
1800-1900		Republic of Yemen Radio	9780.3me						
1815-1830	s t h a	Bible Voice Broadcasting	5970.0eu						
1815-1845	s a	Bible Voice Broadcasting	7430.0me						
1830-1845	mtwhfa	Bible Voice Broadcasting	5970.0eu						
1830-1900		ORF Vienna	5945.0eu	6155.0eu					
1830-1900		Radio Telefis Eireann	13640.0na	21630.0af					
1830-1900		Georgian Radio, Tbilisi	11760.0eu						
1830-1900		Voice of Greece	12105.0eu						

1830-2025		Radio Netherlands	6020.0af 21590.0af	7120.0af	9895.0af	11655.0af	13700.0af	17605.0af	
1830-1900		Radio Slovakia Int'l	5920.0eu	6055.0eu	7345.0eu				
1830-1900		AWR Africa, Meyerton	9520.0af						
1830-1930		Voice of Turkey	9785.0eu						
1830-1900		BBC World Service	3255.0af 9630.0af 21470.0af	6005.0af 12095.0eu	6190.0af 15310.0me	6195.0eu 15400.0af	7120.0af 15420.0af	9410.0eu 17830.0af	
1830-1900		Radio Yugoslavia	6100.0eu						
1845-1900		Radio Tirana, Albania	7210.0eu	9520.0eu					
1845-1915		RTVC Brazzaville, Congo	4765.0af	5985.0af					
1845-1900	s	a Bible Voice Broadcasting	5970.0eu	7430.0me					
1850-2215		Radio New Zealand Int'l	15160.0pa						
1900-1915		Bible Voice Broadcasting	13725.0af						
1900-2000	fa	Bible Voice Broadcasting	13710.0me						
1900-2000	s	Bible Voice Broadcasting	7430.0me						
1900-1925		Kol Israel	11605.0va	15615.0va	15640.0af	17545.0va			
1900-1927		Voice of Vietnam	9725.0eu	11630.0eu	13740.0eu				
1900-1928		Radio Budapest	3975.0eu	6025.0eu	11720.0eu				
1900-1930	mtwhf	Jakada Radio Int'l	15170.0af						
1900-1930	s	Universal Life, Germany	15565.0me						
1900-2000		VOA Special English	7260.0me	9680.0me	13635.0me				
1900-1945		Radio Iraq Int'l	6175.0in	9687.0in	11787.0in				
1900-1956		China Radio Int'l	9440.0af	13790.0af					
1900-1956		Voice of Korea	4405.0as	7505.0eu	11335.0eu				
1900-2000		Radio Australia	6080.0pa	7240.0va	9500.0as	9580.0va	9815.0pa	11880.0va	
1900-2000		Deutsche Welle	6180.0af	7225.0af	11965.0af	13590.0af			
1900-2030	s	a Italian Radio Relay Svc	5780.0va	6290.0af					
1900-2000	smtwh	a V. of the Mediterranean	12060.0eu						
1900-2100		Voice of Nigeria	7255.0af	9690.0af	11770.0af	15120.0af			
1900-2000		R. Central, Papua NG	3290.0ir						
1900-2000		Voice of Russia	7440.0eu	9775.0eu	9890.0eu	11675.0eu	12070.0eu	15735.0am	
1900-2400		SIBC Solomon Islands	5019.9do	9545.0do					
1900-2000		Radio Korea	5975.0om	7275.0eu					
1900-2000	a	Sri Lanka B'casting Corp.	6010.0eu						
1900-2045		TWR Swaziland	3200.0af						
1900-2000		Radio Thailand	7155.0eu						
1900-2000		BBC World Service	3255.0af 9630.0af	6005.0af 12095.0af	6190.0af 15310.0me	6195.0eu 15400.0af	7120.0af 17830.0af	9410.0eu	
1900-2000		Christian Radio Africa	15590.0af						
1900-2100		Overcomer Ministries	3965.0eu						
1900-2000		VOA	4950.0af 11770.0as 15580.0af	6160.0eu 11975.0af 17895.0af	9525.0as 13670.0af	9760.0eu 15180.0as	9770.0eu 15410.0af	9850.0af 15445.0af	
1900-2000	mtwhf	VOA	9550.0al	9840.0al	11780.0al	11970.0al	12015.0al	15235.0al	
1900-2000		WYFR Okeechobee FL	3230.0af	3230.0af	17750.0eu	18980.0eu			
1900-2400		Radio Vanuatu	3945.0al	7260.0do					
1915-1925		Radio Rwanda	6055.0do						
1915-1930		BBC English Teaching	15105.0af	17885.0af					
1915-1930	s	fa Bible Voice Broadcasting	13725.0af						
1930-1959		R. Viaanderen Int'l	9925.0eu	13690.0eu					
1930-2000	t	h Radio Minsk, Belarus	7105.0eu	7210.0eu					
1930-2030		VOIRI Teheran	9800.0af	11670.0eu	11750.0af	11860.0eu			
1930-2230		Nat'l BC, Papua NG	4890.0do	9675.0ir					
1930-2230		R. E. Highlands, Papua NG	3395.0do						
1930-2230		R. Milne Bay, Papua NG	3365.0do						
1930-2230		R. S. Highlands, Papua NG	3275.0do						
1930-2000		AWR Europe, Slovakia	7130.0eu						
1930-2000		Radio Sweden	6065.0va						
1930-2030		Swiss Radio Int'l	11815.0af	13645.0af	13795.0af	15220.0af			
1930-2000	s	a Bible Voice Broadcasting	13725.0me						
1930-2000		Salamaa Radio	13855.0af						
1935-1955		RAI, Rome	5970.0eu	9745.0eu					
1940-1945		Turkmen Radio, Asgabat	4930.0as						
1940-2000	mtwhfa	Voice of Armenia, Yerevan	4810.0eu	9960.0eu					
1950-2000		Vatican Radio	4005.0eu	5890.0eu	7250.0eu				
2000-2010		Vatican Radio	4005.0eu	5890.0eu	7250.0eu	9660.0af	11625.0af	13765.0af	
2000-2027		Radio Prague Int'l	5930.0eu	11600.0as					
2000-2030		Voice of Mongolia	12015.0as						
2000-2030	s	a Bible Voice Broadcasting	13725.0af						
2000-2030		VOA	4950.0af 11975.0af 17895.0af	6095.0eu 13670.0af	9760.0eu 15410.0af	9770.0eu 15445.0af	9850.0af 15580.0af	11855.0af 17745.0af	
2000-2056		China Radio Int'l	9440.0af	11640.0af	13630.0af	15110.0eu	17790.0eu		
2000-2100		Radio Algiers	11715.0in	15160.0in					
2000-2100		Radio Australia	9500.0as	9580.0va	9815.0pa	11880.0va	12080.0va		
2000-2100		Radio Canada Int'l	5850.0va 15470.0va	5995.0va 17870.0va	11690.0va	11965.0va	12015.0va	15325.0va	
2000-2200		HCJB Quito Ecuador	15185.0eu						
2000-2100	s	Voice of Ethiopia	7520.0va						
2000-2100		Deutsche Welle	9780.0af	15205.0af	17810.0af				
2000-2100		KSDA Guam	11750.0as	11980.0as					
2000-2100		Voice of Indonesia	11785.0eu	15150.0eu					
2000-2200		R. Central, Papua NG	3290.0do						
2000-2100		Voice of Russia	9775.0eu	11675.0eu	12070.0eu	15455.0eu	15735.0am		

2000-2100	mtwhf	Radio Exterior de Espana	9570.0af	15290.0eu					
2000-2100		Radio Damascus	12085.0eu	13610.0eu					
2000-2100		AWR Europe, UK	15385.0af						
2000-2100		BBC World Service	3255.0af	6005.0af	6190.0af	6195.0eu	7120.0af	9410.0eu	
			9630.0af	12095.0af	15400.0af	17830.0af			
2000-2200		WBCQ Monticello ME	7415.0na	9329.7na	17494.9na				
2000-2400		WHRI Noblesville IN	5745.0va	9495.0am					
2000-2100		WYFR Okeechobee FL	3230.0af	15195.0af	17725.0sa	17845.0af	18930.0eu	18980.0eu	
2010-2030		Vatican Radio	9660.0af	11625.0af	13765.0af				
2025-2045		RAI, Rome	6185.0af	9670.0af	11880.0af				
2030-2040		Voice of Africa, Libya	15435.0ir	21695.0ir					
2030-2045		Radio Thailand	9680.0eu						
2030-2057		Voice of Vietnam	11630.0eu	13740.0eu					
2030-2100	t h	Radio Minsk, Belarus	7105.0eu	7210.0eu					
2030-2130		Radio Havana Cuba	11670.0eu	13660.0in					
2030-2115		Radio Cairo	15375.0af						
2030-2130		Voice of Turkey	9525.0as						
2030-2100	f	Wales Radio Int'l	7325.0eu						
2030-2100		VOA	6095.0eu	9760.0eu	9770.0eu	9850.0af	11975.0af	13670.0af	
			15410.0af	15445.0af	15580.0af	17745.0af	17895.0af		
2030-2100	s a	VOA	4950.0af						
2030-2100		Radio Tashkent	5025.0eu	9545.0eu	11905.0eu				
2045-2230		All India Radio, Delhi	7410.0eu	9445.0eu	9575.0au	9910.0au	9950.0eu	11620.0va	
			11715.0au						
2100-2115	mtwhf	BBC Caribbean Report	5975.0ca						
2100-2128		Radio Budapest	6025.0eu	11890.0af					
2100-2130		Radio Australia	7240.0va	9500.0as	9580.0va	9660.0pa	11880.0va	12080.0va	
			17715.0va	21740.0va					
2100-2130		Radio Canada Int'l	5850.0va	7235.0va	13690.0va	15325.0va	17870.0va		
2100-2130		China Radio Int'l	11640.0af	13630.0af	15110.0eu	17790.0eu			
2100-2130		Radio Mexico Int'l	9705.0am	11770.2am					
2100-2130		Radio Korea	3955.0eu						
2100-2130		BBC World Service	3255.0af	3915.0as	5965.0as	6005.0af	6190.0af	6195.0va	
			7120.0af	9410.0eu	11945.0as	12095.0sa	15400.0af	17830.0af	
2100-2130	s a	BBC World Service	5975.0ca						
2100-2130		Radio Yugoslavia	6100.0eu						
2100-2156		Voice of Korea	4405.0as	7505.2eu	11335.1eu				
2100-2156		Radio Romania Int'l	7185.0eu	9510.0eu	9725.0eu	11775.0eu			
2100-2200		R. Nacional de Angola	3374.9va	7216.8va					
2100-2200		AWR Europe, Austria	15130.0af						
2100-2200		Radio Bulgaria	5800.0eu	7500.0eu					
2100-2400		R. for Peace Int'l	7445.0va	15038.7va					
2100-2200	f	Scandinavian Weekend R.	6170.0va	11720.0va					
2100-2200		Deutsche Welle	9440.0af	11865.0af	15205.0af				
2100-2200		Radio Japan	6035.0pa	6055.0eu	6180.0eu	11855.0af	17825.0na	21670.0pa	
2100-2200	a	Voice of Biafra Int'l	7380.0af						
2100-2200		Voice of Nigeria	15120.0ir						
2100-2200	s a	Radio Exterior de Espana	9570.0af	9840.0eu					
2100-2200		Radio Damascus	12085.0na	13610.0na					
2100-2200		Radio Ukraine Int'l	5905.0eu						
2100-2200		VOA	6040.0eu	6095.0eu	9530.0eu	9705.0as	9760.0eu	9850.0af	
			11870.0as	11975.0af	13670.0af	15185.0as	15410.0af	15445.0af	
			15580.0af	17740.0af	17820.0as	17895.0af			
2100-2200		WYFR Okeechobee FL	17725.0sa	17845.0af	18930.0eu	18980.0eu			
2115-2130	mtwhf	BBC Caribbean Report	5975.0ca	11675.0ca	15390.0ca				
2115-2200		Radio Cairo	9990.0eu	15375.0af					
2130-2145	t f	BBC Calling Falklands	11720.0sa						
2130-2156		China Radio Int'l	15110.0eu	17790.0eu					
2130-2200		Radio Tirana, Albania	7130.0eu	9539.9eu					
2130-2400		ABC Alice Springs	2310.0ir	4835.0do					
2130-2400		ABC Katherine	5025.0do						
2130-2400		ABC Tennant Creek	4910.0do						
2130-2200		Radio Australia	7240.0va	9660.0pa	11880.0va	12080.0va	17715.0va	21740.0va	
2130-2200	smtwhf	ORF Vienna	5945.0eu	6155.0eu					
2130-2200		KSDA Guam	11850.0as	11980.0as					
2130-2230		VOJRI Teheran	9870.0au	13665.0au					
2130-2200		Radio Sweden	6065.0eu	11650.0as					
2130-2200		BBC World Service	3255.0af	3915.0as	5965.0as	5975.0ca	6005.0af	6190.0af	
			6195.0va	7120.0af	9410.0eu	11945.0as	12095.0sa	15400.0af	
			17830.0af						
2130-2200		Radio Tashkent	5025.0eu	9545.0eu	11905.0eu				
2200-2230	mtwhf	Radio Canada Int'l	9590.0am	11920.0am	13670.0am	15170.0am	15455.0am	17880.0am	
2200-2230		Radio Mexico Int'l	9705.0am	11770.2am					
2200-2400		VOA	7215.0as	9705.0as	9770.0as	11760.0as	15185.0as	15290.0as	
			15305.0as	17740.0as	17820.0as				
2200-2230	mtwhf	VOA	9850.0af	11975.0af	13670.0af	15580.0af			
2200-2230	smtwhf	Radio Yugoslavia	7230.0au						
2200-2245		Radio Cairo	9990.0eu						
2200-2256		China Radio Int'l	9880.0eu						
2200-2400		Caribbean Beacon	6090.0am						
2200-2300		Radio Australia	13620.0as	15230.0as	17715.0va	17795.0va	21740.0va		
2200-2300	f	Scandinavian Weekend R.	5980.0va	11720.0va					
2200-2300		Deutsche Welle	9720.0as	15605.0as					
2200-2400		Voice of Guyana	3291.3do	5949.4do					
2200-2300		Voice of Nigeria	7255.0af	9690.0af	11770.0af	15120.0af			
2200-2300		Radio Taipei Int'l	15600.0eu						

2200-2300		Voice of Turkey	9830.0va	11960.0va					
2200-2300		BBC World Service	5965.0as	5975.0ca	6195.0va	7105.0as	7120.0af	9740.0as	
			11955.0as	12095.0sa	15400.0af	17830.0af			
2200-2400		KWHR Naalehu HI	17510.0as						
2200-2400		WBQC Monticello ME	7415.0na	9329.7na					
2200-2400		WEWN Birmingham AL	9975.0na	17595.0eu					
2200-2400		WSHB Cypress Creek SC	13770.0eu	15285.0sa					
2200-2300		WWCR Nashville TN	7465.0na	9475.0na	12160.0na	13845.0na			
2200-2400		WWRB Manchester TN	5050.0na	5085.0na	6890.0na				
2200-2300		WYFR Okeechobee FL	11740.0na	15695.0eu	15770.0af	17845.0af			
2205-2230		RAI, Rome	11895.0as						
2215-2400		Radio New Zealand Int'l	17675.0ir						
2230-2257		Radio Prague Int'l	11600.0na	13580.0na					
2230-2259		R. Viaanderen Int'l	15565.0am						
2230-2400		Radio Canada Int'l	9590.0na	13670.0na	15455.0na				
2230-2330		Radio Havana Cuba	6195.0am	9550.0uf					
2230-2400		Nat'l BC, Papua NG	9675.0do	11880.0ir					
2245-2400		All India Radio, Delhi	9705.0as	9950.0as	11620.0as	13605.0as			
2300-2330		Radio Australia	9660.0pa	12080.0va	13620.0as	15230.0as	17715.0va	17795.0va	
			21740.0va						
2300-2330		ORF Vienna	9870.0am	13730.0am					
2300-2356		China Radio Int'l	5990.0na	13680.0na					
2300-2330		VOA Special English	7190.0as	7200.0as	9545.0as	11925.0as	13775.0as		
2300-2356		Radio Romania Int'l	9570.0eu	11740.0na	11775.0eu	15105.0na			
2300-2400		Radio Bulgaria	9400.0na	11900.0na					
2300-2400		Radio Cairo	11725.0na						
2300-2400	f	Scandinavian Weekend R.	5980.0va	11690.0va					
2300-2400		Deutsche Welle	9890.0as	17860.0as					
2300-2400		SBC Radio 1, Singapore	6150.0do						
2300-2400		BBC World Service	3915.0as	5965.0as	5975.0ca	6195.0as	7120.0af	9580.0as	
			9740.0as	11945.0as	11955.0as	12095.0sa	15280.0as		
2300-2400		WHRA Greenbush ME	7580.0eu						
2300-2400		WINB Red Lion PA	12159.9am						
2300-2400	s	WRMI Miami FL	9955.0am						
2300-2400	mtwhf	WRMI Miami FL	7385.0na						
2300-2400		WRNO New Orleans LA	7355.0va						
2300-2400	s	WWBS Macon GA	11910.0uf						
2300-2400		WWCR Nashville TN	5070.0na	7465.0na	9475.0na	13845.0na			
2300-2400		WYFR Okeechobee FL	5985.0sa	11740.0na	11855.0sa	15255.0sa	17750.0sa		
2305-2312		Croatian Radio, Zagreb	9925.0sa						
2320-2330		Kyrgyz Radio, Bishkek	4010.0as	4795.0as					
2330-2340		Voice of Africa, Libya	15435.0ir	21695.0ir					
2330-2357		Voice of Vietnam	9840.0as	12019.9as					
2330-2400		Radio Australia	9660.0pa	11695.0as	12080.0va	13620.0as	15230.0as	15415.0as	
			17715.0va	17795.0va	21740.0va				
2330-2400		Radio Vilnius, Lithuania	9875.0na						
2330-2400		Radio Netherlands	6165.0na	9845.0na					
2330-2400		Swiss Radio Int'l	9885.0sa	11905.0sa					
2330-2400		VOA Special English	7190.0as	7200.0as	7225.0as	7260.0as	9545.0as	11805.0as	
			11925.0as	13725.0as	13775.0as	15205.0as			
24hr-		CFRX Toronto ON	6070.0do						
24hr-		CFVP Calgary AB	6030.0do						
24hr-		CKZN Saint John's NL	6160.0do						
24hr-		CKZU Vancouver BC	6160.0do						
24hr-		RTM Radio 4, Malaysia	7295.0do						
24hr-		ZLXA New Zealand	3935.0do						
24hr-		R. UNAMSIL, Sierra Leone	6139.1af						
24hr-		University Network	5029.1am	6150.0am	7375.0am	9725.0sa	11869.9am	13750.1na	
24hr-		AFRTS	3903.0uf	4278.5uf	4319.0uf	4993.0uf	6350.0uf	6458.5uf	
			10320.0uf	12579.0uf	12689.5uf	13362.0uf			
24hr-		WBOH Newport NC	5920.0am						
24hr-		WJIE Louisville KY	7490.0am	11515.0ir	13595.1am				
24hr-		WTJC Newport NC	9370.0na						

Key:

Days:

s - Sunday
m - Monday
t - Tuesday
w - Wednesday
h - Thursday
f - Friday
a - Saturday

Target Areas:

na - North America
ca - Central America
sa - South America
am - Americas
eu - Europe
af - Africa
me - Middle East
as - Asia
pa - Pacific

Other Notes:

va - Various
do - Domestic
om - Omnidirectional
in - Inactive
ir - Irregular
oc - Occasional
al - Alternate
lf - Lower Sideband
uf - Upper Sideband

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