

# The **NASA** Journal

VOLUME XLII NUMBER 5

MAY 2002

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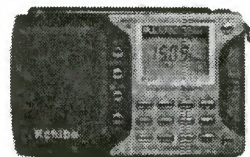
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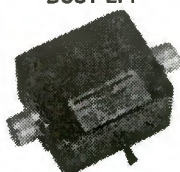


SP-31 Order #0694 \$99.95

## PAR ELECTRONICS

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The Par BCST-HPF is designed to help shortwave listeners cope with interference from AM stations. This 7 pole elliptic high pass filter passes 1.8 to 200 MHz and notches out 0-1.7 MHz. The housing has a SO-239 jack for input and output and also has a toggle type bypass switch.



BCST-HPF Order #4426 \$48.95

The Par BCST-LPF is designed to help long wave DXers cope with interference from nearby AM stations above 540 kHz. Stop band is 540 kHz to 300 MHz. The housing has an SO-239 jack for input and output and has a bypass switch.

BCST-LPF Order #1143 \$48.95

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# NASWA Notes

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

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Please note that **Bill Oliver** has a new electronic address exclusively for club related business. Please don't forget that all communications for NASWA Headquarters should be directed to our Publisher/Business Manger Bill Oliver at the new electronic address, naswa@worldnet.att.net, or to the familiar 45 Wildflower Road, Levittown, PA 19057 address.

The *NASWA Flashsheet* continues to grow. However, we are beginning to experience some growth problems as members change e-mail addresses and neglect to forward correct information. Therefore, "bounced" e-mail is the unfortunate results. Any member that signed up for the flashsheet but has not seen it recently should contact me immediately to straighten out the distribution list. For those of you that have not jumped on board, remember, you can get the latest hot DX news and information from the club's electronic flash sheet newsletter edited by **Sheryl Paszkiewicz**, spaszkiwicz@yahoo.com (or P.O. Box 716 Manitowoc, WI 54221-0152 for non-electronic submissions). The electronic newsletter supplements the monthly *Journal* for the timely dissemination of DX loggings and breaking news. It is only available to members. Deadlines are posted in the *NASWA Flashsheet*. 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.

After 14 years of preparing the monthly *Log Report A* column, **Sheryl Paszkiewicz** is stepping down as editor. I'm sure I speak for the entire club membership in thanking Sheryl for all those wonderful years of dedicated service. However, she will not be

disappearing from our clubs editorial team as Sheryl plans to continue as editor of the electronic *Flashsheet*. We are fortunate that a *NASWA* veteran, **Dan Ferguson**, has stepped forward to edit the column. Long time members will know Dan's work from his many years of valuable service to the club in a variety of capacities. Dan has done it all and we are very glad to have him back behind the keyboard editing for the *Journal*. Thanks Sheryl and welcome aboard Dan!

Looking for something interesting to do this summer while on vacation? Ever think about entering a listening contest? **Claudio Dario Perdomo** (Argentina) and **Frank Parisot** (France) have news about the Vacation BCL Contest 2002, which will run from 1 July 2002 to 31 August 2002. The aim of the contest is to listen to the most countries on shortwave from Africa as possible. See the *Calendar of Events* for the full details. Good luck!


With the summer nearing, TV and FM DXers will want to obtain a copy of the Worldwide TV-FM DX Association's *2002 WTFDA TV Station Guide*. The 2002 Guide contains over 400 pages of information such as location, call letters, radiated power, antenna height, direction, geographic co-ordinates, station status, programming source and a full array of useful maps. It was written and compiled by *WTFDA TV News* editor **Doug Smith**, W9WI. The price of the *2002 WTFDA TV Station Guide* is \$23.00 for members of ANARC affiliated clubs; \$25.00 for all others. Please write the name of your club on your check or money order. All checks and money orders must be made payable to club treasurer David Janowiak. Send your check or money order to: John Ebeling, 9209 Vincent Avenue, South Bloomington, MN 55431-2157

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OUR MOTTO IS - "UNITY AND FRIENDSHIP"

Also, our member from "downunder", **Bob Padula** of the *Electronic DX Press*, has released issue number 13 of the A-02 print edition of the *Australian Shortwave Guide*. The guide contains over 1400 entries covering the summer (A-02) international shortwave transmission period commencing 31 March, and concluding on 26 October. It's 32 pages, in handy A5 format, and saddle stitched. It provides comprehensive information of English shortwave schedules to Australia, Asia, the Far East, the Indian subcontinent, 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 coun-

try, studio country, and days of operation. The Guide will be mailed to Australian addresses for A\$10, which includes postage and packing. Airmail mailing, including postage and packing, to addresses outside of Australia is only US\$5.00. Payment can be by cash in any currency, Australian stamps, money order, postal order, check, or eight international reply coupons. Checks or orders must be in Australian currency and drawn on Australian banks, to yield ten Australian dollars. Checks in other currencies cannot be accepted. Orders and payment should be sent to Bob Padula, 404 Mont Albert Road, Surrey Hills, Victoria 3127, Australia.

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

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## Musings

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

**John Beattie** [jebeat@earthlink.net](mailto:jebeat@earthlink.net)

I've noticed the absence of logs from the West Coast! I've been a pretty active listener for the last three years or so, starting with a YB400, then upgrading to a Drake SW8, and just recently acquiring an R8B. I've been mostly into program listening in the past, but I have been chasing more DX with the R8B. When I have a chance to listen early in the morning, I've received some great Pacific and Asian stations. I'll have to start logging them (taking that next step and maybe going for some QSL) and posting to the flashsheet!

73!

**James H. Jackson**, 7131 Alger Road, Falls Church, VA 22042

BBC World Service is available 24 hours a day on XM Satellite Radio along with 99 other stations for \$14.99 initial hook up ... \$9.99 per month. Digital quality sound, etc. Hot Stuff! Of course there is the \$450 Sony XM satellite radio.

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## Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Bob Montgomery** (Address: P O Box 1458, Levittown, PA 19058). 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](mailto:RMonty3@worldnet.att.net).

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## Calendar Of Events

**May 3-5, 2002 Annual General Meeting.** The Danish Shortwave Club International will hold its **Annual General Meeting and DX Camp** at the Scout Camp Vardeborg on the weekend of May 3-5, 2002. The possibilities for DXing are ideal in the sand dunes at the West coast of Jutland. Further details later on.

**May 17 Meeting. Philadelphia Area NASWA Chapter.** Kulpville Holiday Inn, Kulpville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcscckp@aol.com.

**May 17 Meeting. Boston Area NASWA Chapter.** The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 508-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>

**Jun 14 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX)** meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at <[radioscan@siscom.net](mailto:radioscan@siscom.net)>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>

**Jul/Aug'02 Contest. The Vacation BCL Contest** will run from 1 July 2002 through 31 August 2002. Participants are to log as many African countries as possible on the shortwave bands. The sponsor, Klingenfuss, will offer a *2002 Shortwave Frequency Guide* and a CD Rom for the winners. Here are the details:

1. The aim of this contest is to listen to the most countries of Africa
2. Period from 1 July 2002 to 31 August 2002
3. You must log only one radio station by country
4. The contest is open to SWL, BCL, (radioecuteurs) from all the world
5. Frequencies: 2300 to 26000 kHz in AM
6. Only log broadcasting official stations (no pirates, clandestines, CB or Hams)
7. Points: 1 for each country
8. You do not need QSL cards for this challenge
9. You must send your list before 15 September 2002
10. You can send your list to the following address: Frank Parisot, P.O.Box 6, 92173 Vanves Cedex, France or via e-mail to the following [frankparisot@hotmail.com](mailto:frankparisot@hotmail.com)
11. Example of list: DATE: 1 July 2002 / TIME UTC: 1900 / FREQ: 9580 / COUNTRY: Gabon / LANG: French / SIO: 454
12. List of valid countries: Please, relays are not valid for this contest, transmitters must be **only in AFRICA**. Algeria, Angola, Ascension Island, Benin, Botswana, Burkina Faso, Cameroon, Central African Republic, Chad, Comoros, Congo (Brazzaville), Congo (Kinshasa), Egypt, Eitrea, Ethiopia, Gabon, Ghana, Guinea Republic, Equatorial Guinea, Ivory Coast, Kenya, Lesotho, Liberia, Libya, Madagascar, Malawi, Mali, Mauritania, Mauritius Island, Morocco, Mozambique, Namibia, Niger, Nigeria, Senegal, Sao Tome, Sierra Leone, Somalia, South Africa, Saint Helen, Seychelles, Sudan, Tanzania, Tunis, Togo, Uganda, Zambia, and Zimbabwe.

**Aug 16-18, 2002 Convention.** The **European DX Council Conference** will be held from 16-18 August 2002 in the town of Pori, located on the west coast of Finland. Additional information about the conference will be made available through e-mail and newsgroups or can be obtained directly from Risto Vahakainu, chairman <[risto.vahakainu@helsinki.fi](mailto:risto.vahakainu@helsinki.fi)>.



**Oct '02 Radio Holiday Tour.** David and Jocelyne Ricquish lead a radio holiday tour of the great cities of Latin America in October 2002. Plans include visits to many radio stations and meetings with local radio enthusiasts. The tour is designed for DXers, shortwave listeners and radio enthusiasts and all those that enjoy the music and culture of Latin America. The full itinerary and booking conditions can be found at the New Zealand Radio DX League website (<http://radiodx.com/spdxr/dxtour/htm>) or can be obtained from Latin American Radio Tour, P. O. Box 14339, Wellington, New Zealand (e-mail: [ragusa@paradise.net.nz](mailto:ragusa@paradise.net.nz)).

**Mar 7-8, 2003 Convention.** The 16<sup>th</sup> Annual Winter SWL Festival, sponsored by NASWA, will be held at the Best Western—The Inn at Towamencin (Kulpsville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 7<sup>th</sup> and 8<sup>th</sup> March 2003. 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](mailto:rdangelo3@aol.com)) or Ralph Brandi (Internet: [ralph@brandi.org](mailto:ralph@brandi.org)).

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## FRENDX: Twenty Five Years Ago....

*Frendx Fotos* reappeared with pictures of four members including long time member Mike Agner. In his *Headquarters* column, Mac Leonhardt indicated *DX Hotline* would return as soon as a new editor is selected. Don Jensen reported the additions of the following countries effective when stations begin scheduled broadcasting: Monserrat, Guam and the Commonwealth of the Northern Marianas. Serge Neumann planned to create an informal group of Indiana DXers. ANARC confirmed that its next convention was to be held in Schaumburg, Illinois. In the *Shortwave Center*, Larry Magne wrote about the noisy Soviet Pulsar and Kim Andrew Elliott wrote about Radio Moscow scoring Radio Free Europe and Radio Liberty. In his *Listeners Notebook* column, Glenn Hauser informs members of his new *Review of International Broadcasting* bulletin. Bill Oliver noted another record with 118 countries being reported to *QSL Report* with the first verie from the Central African Empire reported.

**NASWA**

Visit our club home page on the World Wide Web at <http://www.anarc.org/naswa/>

**Please remember that the email address for NASWA is changing to [naswa@worldnet.att.net](mailto:naswa@worldnet.att.net). The old Earthlink address will remain open for a while until everyone is changed over.**

# Easy Listening

Richard D. Cuff • 42 North 37th Street • Allentown, PA 18104 • [rdcuff@sprintmail.com](mailto:rdcuff@sprintmail.com)

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## Lies, Damned Lies, and BBC World Service Audience Figures

It's paradoxically sad that the **BBC World Service** (BBCWS), widely respected for objectivity and completeness in its coverage of world affairs, fails miserably at communicating an accurate, telling picture of BBC World Service listening habits. On April 16<sup>th</sup>, the BBCWS released its latest audience survey statistics, dating from last July/August—after the cutbacks in short-wave broadcasting to North America and Australasia. Audience numbers worldwide fell from 153 million to 150 million. World Service management says this is due to a precipitous drop in the number of listeners in India. Among other critiques, **Radio Netherlands'** Media Newsdesk page noted that the BBC claimed an increased number of listeners in North America (up from 2.3 million to 2.9 million), and then goes on to point out shortcomings in the BBC's record of research.

Quoting from Ralph Brandi at the <http://www.savebbc.org> website,

*It seems necessary at this point to renew our criticism of the BBC's research, namely that it is more interested in **raw numbers of listeners** than in **listenership**. Our survey of local rebroadcasters makes it crystal clear that huge swathes of North America are uncovered or insufficiently covered by BBC's local partners. Our point-counterpoint page refutes every argument the BBC makes regarding the superiority of the audience gained through local rebroadcasts. The second question in particular takes them to task for the methods they use. The BBC appears to be more interested in counting listeners than listenership; someone who stumbles across *The World on**

*their local public radio outlet counts just as much as someone who deliberately seeks out the BBC and listens for hours to their news, arts, and cultural programs.*

It's probably a good idea to dash off another note to the Foreign & Commonwealth Office—which funds the BBCWS—to complain about the BBC's continuing cavalier use of statistics to justify its poor decisions. Meanwhile, the BBCWS has requested a £65 Million (roughly US \$95 Million) budget increase over the next three years. The \$750,000 required to fully restore short-wave is pocket change, by comparison to this request, and makes this so-called desire to save money look rather foolish.

Contact information on the British embassy in the US remains as follows:

Sir Christopher Meyer, KCMG  
British Embassy  
3100 Massachusetts Avenue,  
Washington, DC 20008

As Canada is in the Commonwealth, you would need to contact the British High Commission, at the following:

Sir Andrew Burns  
British High Commissioner  
80 Elgin Street  
Ottawa K1P 5K7

It might also be worth contacting the Foreign & Commonwealth Office complaints department; see URL <http://www.fco.gov.uk/directory/dynpage.asp?Page=364> for more information.

Details and background information remain available at the Save the BBC World Service website, <http://www.savebbc.org>.

Meanwhile, Radio Netherlands' Andy Sennitt had this to say regarding these announcements:

*The details released by the BBC are bound to renew the debate over whether it was right to drop shortwave to North America and Australia. Clearly, on the basis of the published figures, the decision appears justified. The problem is that the figures alone don't tell the whole story. In its measurements, the BBC appears to make no distinction between someone who listens once a week to a nine minute BBC news bulletin relayed by a local public broadcaster, and someone who is committed to listening to a wide range of BBC output for several hours a day. The Coalition to Save the BBC World Service has repeatedly made this point over the last nine months.*

*The other factor which is not covered by naked statistics is the quality of the listening experience. Analogue shortwave is not a perfect medium, but it is inherently more reliable than temperamental Web servers that can't cope with demand every time there's a big story. Broadcasters can boast about how many people were connected—but what they don't mention is the frustration experienced by the many more who tried and failed to listen online. Many people were glad to have shortwave as a backup when they were unable to listen via the Web. That option having been removed, a lot of potential listening hours have been lost.*

*It remains the policy of Radio Netherlands to offer our listeners a choice of program delivery methods within the constraints of our resources. Our decision to take over some of the shortwave airtime relinquished by the BBC last July has enabled us to offer our North American audience a choice of listening in the morning or evening, and provides improved news and current affairs coverage to an audience hungry for a European perspective on the day's events.*

## **Radio Netherlands' Dutch Horizons**

For many years, one area that was particularly weak in **Radio Netherlands'** other-

wise-excellent coverage was their coverage of Dutch current affairs and cultural life. Since October 1999, **Dutch Horizons** has nicely filled that void. Program host and producer Bertine Krol recently provided some background information on this weekly feature:

*Dutch Horizons aims to give listeners across the world an idea about life in the Netherlands. How we do things here and why. Program ideas come from the Dutch national and regional media, colleagues, friends, and from just keeping my eyes and ears open for interesting stories.*

*How do I select the topics worth coverage? I try to judge whether a subject might be interesting for a foreign audience. For instance, Dutch local politics generally are not, a new book with revelations about Anne Frank is. Some stories are simply a must: the first gay marriage, the new euthanasia law. The topic as such is not the only important factor, I also need to determine if a story would also make a good radio-story: it requires a good speaker, nice atmosphere etc. This is radio, not a newspaper story read aloud. [editor's note: Sure wish Eastern European stations could figure this out...]*

*Once I have gathered all the material I decide which reports fit nicely together into one program, to see if they're linked somehow. A nice bridge is always welcome. But with Dutch Horizons aiming to be a varied magazine, it doesn't really matter if the stories have nothing in common. Over its 3 ½ year run, the program's subject matter hasn't really changed, it's still varied (or at least I hope it is).*

I then asked Bertine about upcoming topics we can look forward to:

*That's a tough one. On the one hand I like to plan ahead, but on the other I also like to have a newsy peg to hang a story on, so to speak. This year there will be lots of events and celebrations here in the Netherlands to mark the birth of the Dutch East India Company V.O.C., four hundred years ago, and I will certainly cover some of those. I'll defi-*



nitely play some Dutch jazz music soon, we'll look at the murder rate in the Netherlands (which remains reassuringly low, even if it has increased over the years). And although the Dutch are said to be stingy, they've been spending it all too eagerly lately. It seems many Dutch are getting deeper and deeper in debt. Hope this has whetted your appetite...

I was also interested to understand Bertine's take on the importance of audience feedback to her work:

*I don't actively seek listener feedback, though feedback is always welcome and indeed very much appreciated. I love making this program, but it's not the Bertine Krol Show. I always keep the listeners in mind; I have received quite a lot of letters and emails over the past couple of years and I try to answer all questions put to me. All reactions are of value, positive or negative. The highest volume of feedback happened a little over a year ago, when I did a special on Dutch country & rock singer Ilse Delange, who at the time had just finished her second album, and the letters and emails kept pouring in for months after. Most of them from the US and Canada, and all of them extremely positive...(so we can safely assume Ilse's record company Warner Brothers has made a big mistake by releasing her albums in Europe only).*

**Dutch Horizons** airs to North America at the following times:

Sundays, 1130 and 1500

Mondays, 0000 and 0500

Wednesdays, 1100, 1530

Thursdays, 0030.

You can direct correspondence to Bertine via the RNW feedback address, [letters@rnw.nl](mailto:letters@rnw.nl).

## VOA Revises NewsNow Format

I wandered over the VOA NewsNow webcast feed recently, and discovered a revamped NewsNow schedule was launched on April 8<sup>th</sup>.

NewsNow broadcasts a full news summary at one minute past every hour, 24 hours a day, 7 days a week. VOA NewsNow also broadcasts news headlines at half past every hour. Most hours have expanded news and in-depth coverage and analysis of the events and issues of the day.

The new format, launched April 8, 2002, also expands coverage of business and economic news, sports and American subjects.

The weekday schedule:

**Sportscasts** are at 23 minutes past most hours.

**Business and economic news** can be found throughout the program, but particularly after the news headlines at half past 01, 03, 05, 07, 11, 15, 20 and 23 UTC.

The **Dateline** documentary will expand and move to 45 minutes past those same hours.

A new segment, **Focus**, will put one of the day's top stories in perspective, at 15 minutes past 00, 02, 06, 10, 12, 14, 16, 18 and 22 UTC.

The new program for American coverage, **Coast To Coast with Dave Arlington**, is on Mondays through Fridays after the headlines at half past 00, 12, 14, 16 and 18 UTC. (Plus 00 Saturdays for Latin America.) This will be home for all kinds of American topics, including their popular science coverage. Later this year, watch for the premier of another new program!

Listen for the new **Opinion Roundup** at 55 minutes past 00, 07, 12, 15 and 17 UTC. Those of non-American citizenry can add their views via [opinion@voanews.com](mailto:opinion@voanews.com).

**Talk to America** will continue live, Mondays through Fridays, at 17 UTC, on radio, television and the Internet, and non-American participation is welcomed. **Talk to America** will now also be repeated on radio and Internet at 08 UTC. More information is at <http://www.voanews.com/talk>.

Music from the **VOA Music Mix Network** airs at 09, 13, 19 and 21 UTC. At 19 UTC it's **Border Crossings**. The other hours Music programs rotate as follows:

Mondays—**American Gold** with Ray Freeman

Tuesdays—**Roots & Branches** with Katharine Cole

Wednesdays—**Classic Rock** with Ed Kowalski

Thursdays—**Top 20** with Ray McDonald

Fridays—**Country Hits** with Mary Morningstar

I'll have the weekend schedule next month.

## BBC World Service Highlights

Despite their boneheaded heavyhandedness regarding shortwave usage, the BBCWS still airs some of the highest quality programming on any medium.

For example, **Heritage**, Malcolm Billings' historic conservation series, returned for a five-week series of new programs as of May 3<sup>rd</sup> (0130 UT). The first program in this new series comes from Lower Manhattan, and focuses on historic building conservation efforts necessitated by last September's terrorist attacks. Repeats air Mondays 1530;

other editions visit the Forbidden City in Beijing and Cairo's Egyptian Museum.

Another interesting schedule change sees some **BBC World Learning** features incorporated in the Americas schedule. Two different series run concurrently, with one series airing Tuesdays 0330, the other Fridays 0330. The Tuesday series is **What Is Civil Society?** through May 14<sup>th</sup>; **Peace Rhythms**, focusing on the role of music as a tool for healing and development. The Friday feature is **Chance To Dance**, interviewing teachers and young students at The Royal Ballet in London.

**Discovery** begins a four-part series of single-topic documentaries on scientific research in May entitled **Frontiers**. Topics will include the biology of addiction and new discoveries from the Hubble space telescope. **Discovery** airs Thursdays 0105 and Fridays 1505.

Also, here's advance word that **Poems By Post** will be returning to the schedule in June; presenter Michael Rosen commissions leading actors and actresses to read listener requests. You can e-mail your requests to [poems.by.post@bbc.co.uk](mailto:poems.by.post@bbc.co.uk) or, use the usual postal and fax addresses.

## In Conclusion

It was great meeting many NASWA members once again at the Winter SWL Festival in March; please pass along your program listening suggestions via one of the methods shown at the beginning of the column. Until next month,

73 DE Richard



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## 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](mailto:jalinebk@satelephone.com)

## Digital Audio Broadcasting— An Australian Overview

By Bob Padula, February 2002. Reprinted with permission from Electronic DX Press. (Continued from the April, 2002, NASWA Journal.)

### 7. Denmark To Increase Coverage

On Jan-29, Denmark's Tele Danmark received government approval for the final phase of transmitter rollout that will bring 100% DAB Digital Radio coverage to the country. Currently, coverage stands at 30% of the population. A national network of transmitters is due to roll out this year increasing coverage to 75% by August 1, 2002, building to 100% by March 2003.

National public broadcaster, DR, plans to introduce a wide range of new programming, which will be unique to DAB Digital Radio. Listeners will be able to tune in to several youth music channels, a jazz channel, a children's channel, and services offering news and traffic information.

First to benefit from DR's upgrading of transmitters will be Copenhagen, the location of this year's WorldDAB Forum, October 10/11. For further information contact Ms Karen Marie Zeuthen at <mailto:MZ@dr.dk> or visit <http://www.dr.dk/dab/> (Danish). An English version of this web site will be available very soon. (WorldDAB Forum)

### 8. Korea Begins Testing

A pilot DAB service using the Eureka 147 standard begins testing in Korea in February. The Korean Broadcasting System (KBS) received approval last year from the Ministry of Information and Communication

for a five-month trial, after which the MIC will decide whether Korea will adopt the Eureka 147 standard. The MIC hopes to begin official Digital Radio services in 2003, and has set up a committee to look at the legal aspects of introducing Digital Radio services and examining ways of activating DAB related industries. (WorldDAB Forum)

### 9. Singapore Launches Multimedia On SmartRadio

MediaCorp Radio Singapore has launched new and innovative multimedia programming for its DAB service, SmartRadio. With SmartRadio, listeners can view up-to-the-minute information including news, traffic reports, airport flight information, entertainment news and an events guide, all in the easy-to-read, familiar style of a website browser.

For more information about DAB in Asia please contact Ms Pearlynn Pek at the Asia DAB Committee of the World DAB Forum: [mailto:pearlynn\\_PEK@asiadab.org](mailto:pearlynn_PEK@asiadab.org) or visit <http://www.asiadab.org/> (WorldDAB Forum).

### 10. A "Chorus" Of Approval For DAB

On Jan 17, at a London forum for manufacturers organised by Digital One, a new fabless semiconductor company, Frontier Silicon, announced the availability of the Frontier Chorus FS1010, a single-chip DAB/Audio processor based on the licensed META DBX-1 design from Digital One and Imagination Technologies. Production quantities of the new processor are planned for March, and Frontier expect the sub-£100 digital radio to be available the second half of 2002.



The forum was designed to highlight the trends and opportunities presented by DAB Digital Radio following indications at the end of last year that the medium was ripe for mass market adoption. Digital One's aim was to share this information and give encouragement to current and future manufacturers.

Among those attending the forum were more than 40 senior executives from Alpine, Arcam, Atlantic Technology, Audio Partnership, Dixons Stores Group, Hitachi, Imerge, JVC, Kenwood Electronics, LG Electronics, Linn Products, Mercedes-Benz, MG Rover Group, Mitsubishi Electric, Modular Technology, Pace Micro Technology, Psion Digital, Quad, Wharfedale, Bosch, Roberts Radio, Samsung, Sanyon, Sharp UK, Toyota, and TTP.

The event was oversubscribed, and Digital One is planning to host a second forum elsewhere in Europe later this Spring.

¶ For the full press release on the new Frontier Silicon chip, go to [http://www.worlddab.org/presseleases/Frontier\\_Silicon02.pdf](http://www.worlddab.org/presseleases/Frontier_Silicon02.pdf)

¶ For more information on the London Forum, please contact the Mr Kevin Franklin at <mailto:kevinfranklin@digitalone.co.uk> (WorldDAB Forum)

## 11. Slovakia Draws Up Plans

Slovakia received government approval for DAB Digital Radio using Eureka 147 in June 2000. This year, the Research Institute of Posts and Telecommunications is expected to submit to the government, a document outlining the strategy and technical criteria necessary for the implementation of T-DAB. Regular DAB transmission in the L-band is planned for 2006 in the western part of the country. (WorldDAB Forum)

## 12. Sweden Lobbies Brussels

Representatives of Swedish Radio's Board of Governors travel to Brussels in March

to discuss DAB Digital Radio with the EU Commission, and then go on to Geneva for talks with the EBU. Digital Radio in Sweden is undergoing a change in dynamics following a cut in DAB services to 40%. (WorldDAB Forum)

## 13. Isle Of Man 3G/DAB Trials

Trials are currently underway on the Isle of Man, off the UK coast, to test the possibilities of convergence of both 3G and DAB. Partners mm02, Virgin Radio and Crowncastle International have developed the network, while Unique Interactive and XY Networks are supplying data facilities on 3G/DAB and DAB only platforms.

A carefully selected closed user group on the Isle of Man has been given 3G handsets and Psion WaveFinders so that public reaction to audio and data services over both DAB and 3G can be assessed. Six services are currently available, five from Virgin Radio and the local Manx Radio service. An additional Manx audio service is to be added to the trial this Spring.

Please contact Mr Peter Dews <mailto:Peter.Dews@crowncastle.com>) for more information on the trials taking place in the Isle of Man. (WorldDAB Forum)

## 14. CET's Visual Radio DAB Receiver Card

CET Technologies Pte Ltd from Singapore launches an enhanced Visual Radio (VR) DAB receiver capable of receiving both DAB Eureka 147 and proprietary Conditional Access (CA) DAB broadcasts in VHF Band III and L-Band, in the first quarter of this year. Please contact Ms Pearlynn Pek for more information [mailto:perlynn\\_PEK@asiadab.org](mailto:perlynn_PEK@asiadab.org) (WorldDAB Forum)

## 15. "What's New For Radio?" WorldDAB Technical Committee Workshop

The Technical Committee is holding a two-day workshop entitled "What's new for radio?" on May 23 and 24 in Zurich. The aim of the workshop is to provide a complete briefing on the possibilities of DAB. Among topics under discussion will be DAB and mobile technology, DAB and car systems, EPG possibilities and a round up of the market situation around the world. The presentations will consider the whole value chain for the benefit of content providers, transmission providers and manufacturers.

For more information on this Workshop visit the WorldDAB Web Site at <http://www.worlddab.org/> (WorldDAB Forum)

## 16. New Zealand

The Eureka 147 standard is the preferred platform in NZ. Planning will initially concentrate on terrestrial delivery, but possible long-term satellite delivered is being considered.

The timing for large scale introduction of DAB services is at least five years away, and possibly up to 10-15 years. The Radio Spectrum Management Group of the Ministry of Economic Development has recommended that a policy framework be progressed for the allocation and eventual use of DAB L-

band spectrum. (WorldDAB forum)

## 17. Russia

Network Service Co. now offers high-quality digital radio broadcasting in digital TV format (DVB-S). Programming from various radio broadcasting stations is retransmitted via ground-based facilities, radio networks, cable TV networks, and direct-to-home systems. High-quality stereo digital programs are available using a parabolic 90-120 cm antenna across all of Russia, the CIS and former Soviet Republics. (Intersputnik Today via ABU)

## 18. Acknowledgments

WorldDAB Forum; Asia Pacific Broadcasting Union; Australian Broadcasting Authority; Australian Communications Authority AMT (Australia); Intersputnik Today

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(The author is a Chartered Professional Engineer, holding the rank of Member, Institution of Engineers Australia)

Electronic DX Press. Please refer to the EDXP Web site at <http://clix.to/edxp> for all necessary details about the EDXP.

# Changes at the Voice of Nigeria

From [allafrica.com](http://allafrica.com), via Sergei Sosedkin-CAN, BC-DX March 25, 2002

## VON to Commence Igbo, Yoruba Services Soon.

In its sustained efforts to widen its listenership both locally and internationally, Voice of Nigeria (VON) plans to commence broadcasting in the Igbo, Yoruba and Ge languages before the end of June this

year. This is in addition to its existing six-language broadcasts in English, French, Hausa, Fufudi, Kiswahili and Arabic.

VON's Director General, Mr Taiwo Allimi, who disclosed this, said the organisation was fully prepared for the three additional language services, having already re-engineered three of its super power transmitters.

He told a select group of media representatives at an interactive session

in Lagos that, to enhance the viability of the nine-language services, two other transmitters are currently being re-engineered, adding "with time, five transmitters will be running, one of which will be on stand-by during maintenance and another will be dedicated solely for the new languages' broadcasts".

Allimi also hinted that, before the end of May, VON will have developed its own website to project the best of Nigeria's cultural heritage.

The Director General, who was appointed about three years ago, said VON was almost moribund by the time he took over, adding "our mandate was to revive the organisation and make it the most effective and enduring instrument that will continue to expose the value of democracy and the developments in the country to the outside world." He said towards this, he had been able to put a lot of structures on the ground.

For instance, Allimi said, he realised early enough that if VON is to cover Nigeria effectively to the outside world, it would not do to sit down in Lagos and Abuja alone,

adding "this was why we started to open zonal offices in Gombe, Calabar, Sokoto and Ekiti."

He said the same goes for the coverage of Africa to the world, pointing out that "we can't sit down in Nigeria and say we are covering Africa, and we have opened a bureau in South Africa."

The VON boss said global broadcasting must promote world peace, development, universal understanding and world friendship.

He said with this in mind, VON would not cover any conflict from the perspective of conflict alone but also from the perspective of efforts geared towards finding solution to the conflict.

He acknowledged the support of president Olusegun Obasanjo and Minister of information and National Orientation, Prof. Jerry Gana as well as the Ministry of Foreign Affairs to VON since he took over and pledged to sustain the new VON's status of the "sole broadcaster of Nigerian viewpoints by radio to the outside world.

## Station Profile: Everest Radio

### The First Nepalese Community Based Commercial Radio Broadcast

By Richard A. D'Angelo

The post-Cold War era has changed the face of international shortwave broadcasting. No longer the sole domain of governmental organizations, "modern" day international shortwave broadcasting involves numerous complicated broadcasting and relay arrangements with many organization having an opportunity to reach an international audience through the use of shortwave transmitter rental agreements that have become a standard item in today's environment. One such shortwave broadcaster was the fleeting Everest Radio headquartered in London.

Everest Radio was the first Nepalese community based station in England to broadcast to an overseas audience. It began shortwave operations in April 2001. Its programs consisted of news about Nepal, local community activities, interviews with local and visiting guests from Nepal, greetings, musical dedications and requests, a travel guide to Nepal, letters and Nepalese musical features. The station operated through the facilities of Radio Austria International's Moosbrunn transmitter using 100 kilowatts of power on a frequency of 7,235 kHz from 2100 to 2200 UTC four days a week, Saturday, Sunday, Monday and Tuesday broadcasting programs for Nepalese living in the United Kingdom and Western Europe. Consequently, it was well heard throughout Europe and many parts of the world.



Everest Media Services was the sponsoring organization behind the operation. Everest Times London ("ETL") were the producers of the radio programming. One of the key contacts was Bijaya Thapa who was a member of the three person Board of Directors. In fact, many members of the Thapa family were listed as active participants in this project providing services in many areas such as business administration, public relations, program presenters, and website support. Everest Radio tried to be self-sustaining by offering to sell advertising and sponsorships. By sponsoring a 15-minute program block, the purchaser received four 30 second advertisements and cost £150. There were many other package offerings but they were unable to raise enough funds to continue operations. Unfortunately, long-term financial interests could not be sustained to enable Everest Radio to continue program and broadcast operations.

The station attempted to get some community support through the formation of the ETL Listener's Club. The ETL issued membership cards to anyone willing to join the listener's club for £15 per year. ETL claimed that 10% of the membership charge would be forwarded to a well-known, but not named, Nepalese community charity in the United Kingdom. Members received the opportunity to participate in a lucky draw and were entitled to receive special discounts on various events organized by ETL. Membership was open to the Nepalese community and friends of Nepal.

The station's objectives were many. Primarily, Everest Radio sought to inform the Nepalese Community around the world about the activities in Nepal and overseas. The station sought to create harmony and mutual understanding between Nepalese residing around the world with other members of the community. Also, it wanted other people to know about Nepal and its culture in order to contribute to the country's promotion of tourism. In addition Everest Radio created a platform to exchange ideas between Nepalese around the world and provided

entertainment to the Nepalese community and friends. Finally, the station tried to encourage foreign investment in Nepal. Due to its short life as an international broadcast entity, it would be difficult for Everest Radio to claim any successes in these endeavors.

Everest Radio was an excellent verifier of listener reception reports during its brief tenure on shortwave radio. Accurate reception reports with return postage were promptly verified with a partial data "Top of the World" card featuring a beautiful picture Mt. Everest (8,848 meters) from verie signer Kumar Thapa (another member of the Thapa family circle), Director, Editorial and Programming. If you have a report that you neglected to send, you can try reaching the station at:

Everest Radio

226 Greenford Avenue

Hanwell

London W7 3QT

England

In early February 2002, word reached the international shortwave community that Everest Radio discontinued its transmissions via the Moosbrunn, Austria broadcasting facilities due to budgetary problems. Although it had a short life as an international broadcast station, Everest Radio was a little different. Whether the station returns once again to the airwaves is anyone's guess but the commercial nature of international shortwave broadcasting has always been a difficult proposition. Clearly, a sponsoring organization with deep pockets is necessary to secure a reliable, long-term source of funding of station operations. Nevertheless, Everest Radio can still be heard on air in the United Kingdom, Ireland, Europe, Saudi Arabia, Qatar and around the world through the worldwide web through its website .

# Scandinavian Weekend Radio!

Via Bruce Barker

Webmaster:

## Our new QSL card series

<v-v.haikarainen@swradio.net>

We have made a series of new QSL cards. Take a look at:

Technician:

<esa.saunamaki@swradio.net>

<[http://www.swradio.net/fin/images/QSL\\_2002\\_1\\_2\\_A\\_C.jpg](http://www.swradio.net/fin/images/QSL_2002_1_2_A_C.jpg)>

Editors:

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<radio.jack@swradio.net>

<lasol@swradio.net>

<tapanih@mbnet.fi>

<dr.turbo@swradio.net>

<madman@swradio.net>

to find out the first of them, which are available right now. More are to come in the autumn of 2002. There will also be a special X-mas QSL, but you will have to report to us to see it. Collect them all! And please remember to enclose two IRCs with your report. (Remember to have it stamped correctly!). Alternately enclose \$2 US or 2 EUR for return postage. You may also want to print out and use our new reception report form (in PDF format).

Web Page:

<[www.swradio.net](http://www.swradio.net)>

SWR is on the air on the first Saturday of the month, 24 hours, starting at 00:00 local (+2 UTC). We publish our programme schedule on the Web page one week before transmission. Our telephone number during transmissions is +358 400 995 559. There is also a FAX number in use during transmissions +358 3 475 5776. Also SMS messages are welcome.

Best regards from Dj Madman SWR



Mail address is:

Scandinavian Weekend Radio

P. O. Box 35

40321 JYVASKYLA

FINLAND

E-mail addresses:

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Editor-in-chief: <[jarkko.lehtovaara@swradio.net](mailto:jarkko.lehtovaara@swradio.net)>



# Listener's Notebook

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**THANKS THIS MONTH** to the indefatigable Glenn Hauser for the lion's share of our news!

**ANGOLA Radio Nacional**, Luanda is new on 7216.8, ex-7245. French 2000, English 2100. (Vaghjee-MAU + Seager-AUS/hard-core-dx via DX Listening Digest/Hauser-OK)

**Radio Ecclesia**, 6100 from 1900 to 2000, via Meyerton, South Africa. (Andre du Toit-RSA/hard-core-dx via DX Listening Digest/Hauser-OK)

**ARGENTINA** 4759.6h **Radio Nacional**, (harmonic) 0250-0256 Apr 14, Spanish, ads, ID "Nacional," pgm // 870 MW. (Barrera-ARG)

**AUSTRALIA** New frequency for **Radio Australia**, 2330 UT Mar 30 in English, is 15230, no longer on 15240. Remember when 15230 was a frequency of VLH/VLR Melbourne? (Hambly-AUS/DX Listening Digest/Hauser-OK)

English schedule:

|           |  |
|-----------|--|
| 0000-0030 | 9660 12080 15240 15415 17580 17775 17795 21725       |
| 0030-0130 | 9660 12080 15240 15415 17580 17750 17775 17795 21725 |
| 0130-0200 | 9660 12080 15240 15415 17580 17750 17795 21725       |
| 0200-0400 | 9660 12080 15240 15415 15515 17580 17750 21725       |
| 0400-0430 | 9660 12080 15240 15415 15515 17580 21725             |
| 0430-0500 | 9660 12080 15240 15415 15515 17580 17750 21725       |
| 0500-0530 | 9660 12080 15240 15415 15515 17580 21725             |
| 0530-0700 | 9660 12080 15240 15415 15515 17580 17750 21725       |
| 0700-0800 | 9660 12080 15240 15415 17580 17750 21725             |
| 0800-0830 | 5995 9580 9710 11880 12080 15240 15415 21725         |
| 0830-0900 | 5995 9580 9710 11880 12080 15240 15415 17750 21725   |
| 0900-0930 | 9580 11880 15240 21820                               |
| 0930-1100 | 9580 11880 15240 17750 21820                         |
| 1100-1130 | 5995 6020 9475 9580 11650 11880 12080 15240 21820    |
| 1130-1200 | 5995 6020 9475 9580 11650 11880 12080 21820          |
| 1200-1330 | 5995 6020 9475 9580 11650 11880 21820                |
| 1330-1400 | 5995 6020 9475 9580 11650 11660 21820                |
| 1400-1530 | 5995 9580 11650 11660                                |
| 1530-1700 | 5995 9475 9580 11650 11660                           |

|           |   |
|-----------|---|
| 1700-1800 | 5995 9475 9580 9815 11880                       |
| 1800-1900 | 6080 7240 9475 9580 9815 11880                  |
| 1900-2000 | 6080 7240 9500 9580 9815 11880                  |
| 2000-2100 | 9500 9580 9815 11880 12080                      |
| 2100-2130 | 7240 9500 9580 9660 11880 12080 17715 21740     |
| 2130-2200 | 7240 9660 11880 12080 17715 21740               |
| 2200-2300 | 13620 15230 17715 17795 21740                   |
| 2300-2330 | 12080 13620 15230 17715 17795 21740             |
| 2330-2400 | 11695 12080 13620 15230 15415 17715 17795 21740 |

**GRANDSTAND** Radio Australia's weekend sports program, Grandstand, is broadcast on English frequencies from 0210-0700 UT on Saturday and Sunday on 9660, 12080, 17580 and 21725 kHz. (via John Figliozzi, April 12, DX Listening Digest/Hauser-OK)

**Voice International**, Darwin now running Australia-produced programming, with English 1000-1100 on 13685 to China, and Indonesian heard on 15365 at 1026 with "Suara Internasional" ID in between DJ banter and pops. Also heard Mandarin on 13775 at good level at 1030, so now seem to be running at full steam (Matt Francis, Canberra, 31 March, ARDXC via DX Listening Digest/Hauser-OK)

Schedule:

|           |            |       |
|-----------|------------|-------|
| 0430-0500 | Indonesian | 21680 |
| 0530-0600 | Indonesian | 21680 |
| 0900-1300 | Indonesian | 15365 |
| 0900-1400 | Mandarin   | 13775 |
| 0930-1000 | English    | 17645 |
| 1000-1100 | English    | 13685 |
| 1100-1700 | English    | 13635 |
| 1300-1700 | Indonesian | 13660 |
| 1400-1700 | Mandarin   | 17560 |

(Mark J. Fine, Remington, Virginia, USA, DX Listening Digest/Hauser-OK)

**AZERBAIJAN** Schedule of External Radio Service as from March 31, 2002.

|           |                               |      |
|-----------|-------------------------------|------|
| 0215-0300 | Azerbaijani                   | 6110 |
| 1000-1100 | Persian                       | 6110 |
| 1100-1200 | Turkish                       | 6110 |
| 1200-1230 | German                        | 6110 |
| 1230-1300 | French                        | 6110 |
| 1300-1500 | Azerbaijani                   | 6110 |
| 1500-1600 | R Liberty                     | 6110 |
| 1600-1700 | Arabic                        | 6110 |
| 1700-1730 | English                       | 6110 |
| 1730-1800 | Russian "Voice of Azerbaijan" | 6110 |



(Arzu Abdullayev-AZE, root@aztv.baku.az via Mike Bethge, Germany, WWDXC, Apr 6 via BC-DX via DX Listening Digest/Hauser-OK)

**BULGARIA** For A-02, the *Radio Varna* program "Hello Sea"/"Zdravev more" in Bulgarian will be on air 2100-2400 Su and 0000-0300 Mo on 9800 Varna 100 kW / non-directional.

English programs of *Radio Bulgaria* for A-02 are listed:

|           |             |
|-----------|-------------|
| 0200-0300 | 9400 11700  |
| 1100-1200 | 15700 17500 |
| 1900-2000 | 9400 11900  |
| 2100-2200 | 9400 11900  |
| 2300-2400 | 9400 11700  |

(Radio Bulgaria Monitoring/EDXP/Padula-AUS)

**BRAZIL** *Radio Gaucha* schedule:

|           |               |
|-----------|---------------|
| 0900-0400 | 6020-ZYE 850  |
| 0900-0300 | 11915-ZYE 851 |

website: <http://www.clicRBS.com.br> (Samuel Cossio, Brazil, Mar 18, DSWCI DX Window Mar 27 via DX Listening Digest/Hauser-OK)

**CANADA** *CFRX* 6070 is temporarily off the air with transmitter problems. Basically the shortwave transmitter is an "engineer's toy" and if something goes wrong with it they fix it whenever they get a chance and have the budget. 73 de (Bob VE3SRE Chandler, April 14, ODXA via DX Listening Digest/Hauser-OK)

**CHINA** *Voice of the Strait* (Haixia zhi Sheng) 6115 // MW 666 Voice of Strait (Haixia zhi Sheng), English segment on Friday and Sunday at 0930-1000\* UT [not 0900-]. (Roland Schulze, Philippines, Mar 22/24, BC-DX via DX Listening Digest/Hauser-OK)

Frequency changes for *China Radio International*:

|           |            |                  |
|-----------|------------|------------------|
| 1030-1127 | Indonesian | 11700 (ex-11955) |
| 1100-1127 | Esperanto  | 9590 (ex-11925)  |
| 1130-1157 | Burmese    | 9590 (ex-11825)  |
| 1200-1257 | Cantonese  | 17680 (ex-11965) |
| 1200-1257 | English    | 9730 (ex-9715)   |
| 1200-1357 | English    | 11760 (ex-11675) |
| 1400-1457 | English    | DEL 11825        |
| 1600-1627 | Turkish    | 11740 (ex-9570)  |
| 1600-1657 | Arabic     | 15125 (ex-13685) |
| 1700-1727 | Swahili    | 11640 (ex-13685) |
| 1700-1757 | English    | 15205 (ex-15265) |
| 1700-1757 | English    | DEL 9670         |
| 1730-1827 | Hausa      | 11640 (ex-15550) |
| 1800-1857 | German     | 11650 (ex-11900) |
| 1800-1857 | Farsi      | DEL 11740        |
| 1830-1857 | Farsi      | DEL 11880        |
| 1830-1927 | Arabic     | 15125 (ex-15550) |
| 1900-1957 | English    | DEL 11750        |
| 1930-1957 | Portuguese | 11640 (ex-11735) |
| 1930-1957 | Portuguese | 15125 (ex-15550) |
| 1930-1957 | Turkish    | DEL 9680         |
| 2000-2057 | Mandarin   | DEL 11750        |
| 2000-2127 | English    | 11640 (ex-11735) |

|           |         |                  |
|-----------|---------|------------------|
| 2000-2127 | English | 13630 (ex-13640) |
| 2030-2127 | French  | DEL 11760        |
| 2100-2157 | Arabic  | DEL 11750        |
| 2130-2227 | French  | 12015 (ex-11760) |
| 2300-2357 | English | 13680            |

(Ivo and Angel! Observer, Bulgaria, April 16 via DX Listening Digest/Hauser-OK)

Apparently CRI has made up its mind. It was on the 9570 Cuba relay for quite a while. A few weeks [ago?] I found it on 9580. Then it would alternate, one day 9570, next day 9580. Couple times 9580, then 9570. So far its's 9580, It's been poor to fair. Splash from 9575 Arabic (Bob Thomas, CT, Apr 19, DX Listening Digest/Hauser-OK)

**CHINA—TAIWAN** *CBS Radio Taipei International*

1. Variety Network One (Chinese)

|           |                               |
|-----------|-------------------------------|
| 0000-0200 | 11645 11885 15245             |
| 0400-0600 | 11645 11985 15060 15430       |
| 0400-0600 | 11730 15330 15350 Sa/Su       |
| 0600-0800 | 11645 11730 15330 15350 Sa/Su |
| 0800-0900 | 6085 11645 11730 15330 Sa/Su  |
| 0800-1500 | 6085 Mo-Fr                    |
| 0900-1000 | 11645                         |
| 0900-1000 | 6085 7415 11645 Sa/Su         |
| 0900-1700 | 7415 Mo-Fr                    |
| 1000-1100 | 11645 11665                   |
| 1100-1400 | 11615 11645 11665             |
| 1400-1500 | 11640 11665                   |
| 1500-1700 | 11640 11665 15265             |
| 2230-2400 | 6150 11885 15245              |

2. Variety network Two (former Voice of Asia) (Chinese)

|           |       |
|-----------|-------|
| 0200-0300 | 11875 |
| 0400-0600 | 11795 |
| 0900-1100 | 9280  |
| 1048-1100 | 7445  |
| 1300-1500 | 7445  |

3. News Network (Chinese)

|           |                                      |
|-----------|--------------------------------------|
| 0000-0100 | 9640                                 |
| 0100-0200 | 11905                                |
| 0200-0500 | 11905 15290                          |
| 0300-0700 | 15215                                |
| 0700-0800 | 9680 15215                           |
| 0900-1100 | 7380 9640 9680 15395                 |
| 1100-1200 | 7380 9610 9640 9680 15395            |
| 1200-1300 | 7380 9640 9680 15395                 |
| 1300-1700 | 7380 9640 9680                       |
| 2200-2230 | 5950-WYFR 11635 15440-WYFR           |
| 2230-2300 | 5950-WYFR 9640 11635 15440-WYFR      |
| 2300-2400 | 5950-WYFR 9635 9640 11635 15440-WYFR |

4. Mainland Network ("Date with Taipei" features program)

|           |           |
|-----------|-----------|
| 0600-1000 | 11795     |
| 1400-1800 | 7395 6050 |
| 2300-0300 | 9660      |

[includes WYFR relays to Americas]

|                           |           |                          |
|---------------------------|-----------|--------------------------|
| <b>5. Dialect Network</b> |           |                          |
| 0000-0100a                | Hakka     | 5950                     |
| 0000-0100a                | Amoy      | 15440 11875              |
| 0100-0200a                | Cantonese | 5950 7520 15290<br>15440 |
| 0100-0200b                | Amoy      | 11875                    |
| 0200-0300b                | Cantonese | 11855                    |
| 0300-0400b                | Hakka     | 11855                    |
| 0300-0400a                | Cantonese | 11740                    |
| 0500-0600b                | Cantonese | 5950 9680 15320<br>15580 |
| 0600-0700a                | Amoy      | 15580                    |
| 0700-0800b                | Amoy      | 15580                    |
| 0800-0900a                | Amoy      | 11715                    |
| 0900-1000b                | Hakka     | 15465                    |
| 1000-1100                 | Mongolian | 11985                    |
| 1000-1100a                | Amoy      | 11605 15465              |
| 1000-1100b                | Hakka     | 6105 6145                |
| 1000-1100a                | Cantonese | 9610 9780 11635<br>15525 |
| 1100-1200b                | Cantonese | 9780                     |
| 1100-1200a                | Hakka     | 11635 15465              |
| 1200-1300a                | Cantonese | 11915 6145 6105          |
| 1300-1400b                | Amoy      | 11635 15465              |
| 1300-1400b                | Hakka     | 1206 9780                |
| 1300-1400b                | Cantonese | 11915 6145 6105          |
| 1300-1400                 | Tibetan   | 9540                     |
| 1400-1500a                | Hakka     | 11915 6145 6105          |
| 1700-1800a                | Hakka     | 11875                    |

a=Program A, b=Program B

**6. External Network: \* Skelton-UK, # WYFR Florida, @ Issoudun-FR**

|            |            |                                  |
|------------|------------|----------------------------------|
| 0100-0200a | Japanese   | 15310                            |
| 0100-0200  | Chinese    | 17845#                           |
| 0200-0300  | Spanish    | 15215# 17845#                    |
| 0200-0300a | English    | 11740 9680# 5950#<br>15320 15465 |
| 0300-0400  | Korean     | 15465                            |
| 0300-0400b | English    | 5950# 9680# 11875<br>15320       |
| 0400-0500  | Chinese    | 5950# 9680# 15320<br>11855       |
| 0400-0500  | Spanish    | 11740#                           |
| 0500-0600  | Burmese    | 15405                            |
| 0600-0700  | German     | 9355#                            |
| 0600-0700  | Spanish    | 5950#                            |
| 0600-0700a | Thai       | 15405                            |
| 0700-0800a | English    | 5950#                            |
| 0700-0800  | French     | 9355#                            |
| 0800-0900a | Indonesian | 15580                            |
| 0800-0900b | Japanese   | 11605                            |
| 0900-1000  | Chinese    | 9610 11605 9780<br>11520 15525   |
| 0900-1000  | Vietnamese | 11635                            |
| 0900-1000  | Russian    | 11985                            |
| 1000-1100a | Indonesian | 11550 11520                      |
| 1100-1200b | Indonesian | 11550 11520                      |
| 1100-1200a | Japanese   | 7130 11605                       |
| 1100-1200a | English    | 11985a 7445b                     |
| 1200-1300  | Chinese    | 15465 9780 11605                 |
| 1200-1300a | English    | 9610 7130                        |

|             |            |                  |
|-------------|------------|------------------|
| 1200-1300   | Korean     | 9540             |
| 1200-1300b  | Indonesian | 7445 11635       |
| 1300-1400b  | Japanese   | 7130 11605       |
| 1300-1400   | Russian    | 15665 11745      |
| 1400-1500   | Korean     | 9540             |
| 1400-1500a  | Indonesian | 11745            |
| 1400-1500a  | Thai       | 11635 9485       |
| 1400-1500a  | English    | 15265            |
| 1500-1600b  | Thai       | 7445             |
| 1500-1600   | Burmese    | 9595             |
| 1500-1600   | Vietnamese | 11915            |
| 1600-1700   | Arabic     | 11955            |
| 1600-1700a  | English    | 11550            |
| 1700-1800   | Russian    | 9955             |
| 1700-1800b  | English    | 11550            |
| 1800-1900   | German     | 9955             |
| 1800-1900   | Arabic     | 11610            |
| 1800-1900b  | English    | 3955             |
| 1800-1900   | French     | 17750#           |
| 1900-2000   | German     | 6175             |
| 1900-2000   | French     | 6145             |
| 1900-2000   | Chinese    | 9955 15600 17750 |
| 2000-2100   | Spanish    | 18930#           |
| 2000-2100   | French     | 9955 15600#      |
| 2100-2200   | Spanish    | 9955             |
| 2100-2200   | German     | 15600# 11565#    |
| 2100-2200   | Chinese    | 3965@            |
| 2200-2300a  | English    | 15600#           |
| 2200-2300   | French     | 12060@           |
| 2200-2300   | Vietnamese | 9635             |
| 2200-2400ab | Thai       | 7445             |
| 2300-0000   | Spanish    | 15130# 17805#    |

a=Program A, b=Program B

(Miller Liu, Taiwan, April 22, DX Listening Digest/Hauser-OK)

**CLANDESTINE—ASIA** *Voice of Free Jammu and Kashmir / Azad Kashmir Radio* I expected the daylight saving time of +6 UTC in PAK to change the sked time. But VOFJ&K remains on the old sked. 1300 s-on on 5101. English at 1400. As I type this I am listening to it at 1416. At 1430 5101 went off and the transmitter is now on 4791. It also appears that Azad Kashmir R is sticking to the old sked. However on 12/4 when I check 4791 at 1730 it was not there. So maybe they have curtailed transmissions and s-off time is keeping with the new times (Victor Goonetilleke, Sri Lanka, 4S7VK, DXplorer via BC-DX via DX Listening Digest/Hauser-OK)

**CLANDESTINE—MIDEAST** *Radio Payem-e Doost* broadcasts on 7480 kHz between 1800-1830 Mo/We/Fr in Farsi. Website: <http://www.bahairadio.org>, postal: Payem-e Doost, P.O. Box 765, Great Falls, Virginia 22066, USA (G. Hardenmark, Sweden, Mar 11, 2002 for Clandestine Radio Watch April 8 via DX Listening Digest/Hauser-OK)

New schedule for *Voice of Iran* in Farsi:

|           |       |
|-----------|-------|
| 1530-1730 | 17510 |
| 1630-1730 | 15740 |

(Observer, Bulgaria, April 9 via DX Listening Digest/Hauser-OK)

**Radio Sedaye Iran** is lately, including today April 10, heard on 15770 kHz with a very wide Iranian jamming at 1630-1730. (Erik Koie, Copenhagen, Denmark, DX Listening Digest/Hauser-OK)

9710 **Radio Avaye Ashena** = Radio Familiar Voice, 1000-1100 Sun via Sitkunai, heard on April 7th. New program (Mauno Ritola, Finland, Apr 7, 14, Cumbre DX via DX Listening Digest/Hauser-OK) Website: <http://www.avayeashena.com/> (Ed. Hans Johnson, Cumbre DX Apr 15 via DX Listening Digest/Hauser-OK)

The Assyrian Democratic Movement, ZOWAA, has confirmed that the unidentified "clandestine" on 9155 kHz is "their" station - "**Ashur Radio**" as they call it. According to ZOWAA, this station has been broadcasting towards Northern Iraq on 9155 kHz already since April 2000. The program is on the air 2h daily (currently approx. 1700-1900), mainly in Assyrian (two dialects) with some programs in Arabic. Kurdish is not used. The station can be reached at [info@zowaa.com](mailto:info@zowaa.com) Mauno Ritola, Finland, was first to receive an email QSL. It might be of interest that the zowaa.com domain is registered in Sweden (Bernd Trutenau, Lithuania, April 25, DX Listening Digest/Hauser-OK)

**Voice of Komala** in Kurdish and Farsi heard with a new summer time schedule \*0225-0333\* (sometimes 10-15 min longer) and \*1555-1733\* on 4610, 6810v kHz. First noted on March 24th. Often heard a spoken ID "Radio Payam" in the Farsi service. (Peitraitis) Voice of Komala heard 14th April on 4610 kHz from 0225 with introductory music and male announcer with repeated Kurdish identification "Eira Dengi Komala." At 0230 sign on was heard with formal identification then Kurdish talks. Ex 4615. 6810 khz was also noted in parallel as usual. (Ford via Kropf/Cumbre DX/Fleming)

**CONGO—DEMOCRATIC REPUBLIC** 9550.0, **Radio Okapi**, Kinshasa; In South Africa nice and strong signal. Is coming through with a fair signal at 0900, so possibly on 24 hours/day? Was off the air Mar 20 and 21 (Vashek Korinek, RSA, DSWCI DX Window Mar 27 via DX Listening Digest/Hauser-OK)

**COSTA RICA Radio For Peace International** Schedule:

0200-1200 7445U  
1200-0200 21815U  
1800-0600 15040

(RFPI Weekly Update for April 14 via DX Listening Digest/Hauser-OK)

**CROATIA** Schedule for **Croatian Radio** (mostly in Croat)

0000-0100 9925  
0100-0300 9925  
0300-0400 9925  
0400-0500 6165 7365 9830 9925  
0500-0700 6165 7365 9470 9830  
0700-0900 6165 7365 9830 13820

0900-1700 6165 9830 13830  
1700-2300 6165 13830  
2300-2400 9925

(via Alan Roe, Teddington, UK, DX Listening Digest/Hauser-OK)

**CUBA Radio Havana Cuba** in Spanish to Am now 0000-0500 NF 9600 USB (ex-11705 // 11760) (Ivo and Angel! Observer, Bulgaria, April 16 via DX Listening Digest/Hauser-OK) English changes: 0500-0700 NF 9665 USB (ex-9655 // 9550 9820)(Ivo and Angel!, Observer, Bulgaria, April 23, via DX Listening Digest/Hauser-OK)

**CZECH REPUBLIC Radio Prague**

|           |         |                   |
|-----------|---------|-------------------|
| 0000-0027 | English | 7345 11615        |
| 0030-0057 | Spanish | 7345 11615        |
| 0100-0127 | English | 6200 7345         |
| 0130-0157 | Czech   | 6200 7345         |
| 0200-0227 | Spanish | 6200 7345 **7385  |
| 0230-0257 | Czech   | 7345 9870         |
| 0300-0327 | English | 7345 **7385 9870  |
| 0330-0357 | English | 11600 15620       |
| 0400-0427 | Russian | 9865 11600        |
| 0600-0627 | French  | 5930 7345         |
| 0630-0657 | German  | 5930 7345         |
| 0700-0727 | English | 9880 11600        |
| 0730-0757 | Spanish | 9880 11600        |
| 0800-0827 | French  | 9880 11600        |
| 0830-0857 | Czech   | 11600 21745       |
| 0900-0929 | English | 21745             |
| 0930-0957 | Czech   | 21745             |
| 1000-1027 | German  | 6055 9880         |
| 1030-1057 | English | 9880 11615        |
| 1100-1127 | Czech   | 11615 21745       |
| 1130-1157 | Russian | 6055 *15675 21745 |
| 1200-1229 | German  | 6055 7345         |
| 1230-1257 | Czech   | 6055 7345         |
| 1300-1329 | English | 13580 21745       |
| 1330-1357 | Czech   | 13580 21745       |
| 1400-1427 | Spanish | 11990 13580       |
| 1430-1457 | Russian | *9430 11625 13580 |
| 1500-1527 | German  | 5930              |
| 1530-1557 | Russian | *7235             |
| 1530-1557 | Czech   | 5930 21745        |
| 1600-1627 | English | 5930 21745        |
| 1630-1657 | German  | *5990             |
| 1630-1657 | French  | 5930 21745        |
| 1700-1727 | English | 5930 21745        |
| 1730-1757 | Czech   | 5930 21745        |
| 1800-1827 | Spanish | 5930 13580        |
| 1830-1857 | French  | 5930 13580        |
| 1900-1927 | Spanish | 5930 13580        |
| 1930-1957 | Czech   | 5930 11600        |
| 2000-2027 | English | 5930 11600        |
| 2030-2057 | Spanish | 5930 11600        |
| 2100-2127 | Czech   | 11600 15545       |
| 2130-2157 | English | 11600 15545       |
| 2200-2227 | French  | 11600 15545       |
| 2230-2257 | English | 11600 15545       |
| 2300-2327 | Spanish | 11615 13580       |
| 2330-2357 | Czech   | 11615 13580       |



## Transmitters at Litomysl

\*Relayed via Rimavsk Sobota, Slovakia

\*\*Relayed via WRMI Miami, Florida

(Alan Roe, UK, March 31 & Ramon Vazquez Dourado, Spain/DX Listening Digest/Hauser-OK)

**DENMARK** To avoid All India Radio at 2200-2255 UT on 11620 *Radio Denmark* has changed to 11645 kHz. This transmission is intended for the Far East. In Australia there is slight side-splat from China on 11650 until 2227. After that time both sides are clear. Kind Regards, (Erik Koie, DR Radio, April 16, DX Listening Digest/Hauser-OK)

**ECUADOR** New is *Radio Maria Ecuador*, HCVN7, the former La Voz del Napo in Tena, which had been off the air. HCVN7 operates on 3280 kHz with 2,500 watts and belonged to the Josefina Mission. Website: <http://www.radiomariaecuador.org> (Catholic Radio Update April 8 via DX Listening Digest/Hauser-OK)

5905USB *Radio Cosmopolita*, Quito/ Radio Sembrador "Chimborazo 98.1, Riobamba. No, it was no one time occasion. The following day they were there again on 5900.00 kHz, but only for 40 minutes. April 17 they started about 2025 local time but this time on 5905.00 kHz. Note that the frequency is absolutely exact. The transmitter on SW is not intended for the public but functions as a link between Quito and Riobamba: Radio Cosmopolita in Quito and Radio Sembrador "Chimborazo 98.1," broadcasting from the provinces just south of Riobamba. The result of this SW link can be heard at the same time in Quito on MW 960 kHz and in Riobamba on 98.1 MHz. Alejandro told me that another transmitter within shortly will be incorporated into this "enlace" which by the way started in the beginning of April this year—the third station will be "Radio Filadelfia" in Guayaquil broadcasting on MW 1170 kHz. This means that the person managing to hear 5900.00 or 5905.00 kHz simultaneously can log 3 completely different stations, fantastic! These 3 radio stations have it in common that they are run/hired by the Indian Evangelic Movement. Both SW-transmitters in Riobamba and Quito have an effect of about 0.2 kW. Notice that radio amateurs can reach very far away with this [PEP] of their transmitters, so please do not give too early! (Bjorn Malm, Quito, Ecuador, SW Bulletin April 21, translated by editor Thomas Nilsson for DX Listening Digest/Hauser-OK)

**EGYPT** Some new freqs of *Radio Cairo* for A-02, as monitored:

|       |           |                              |
|-------|-----------|------------------------------|
| 7315  | 1800-1900 | Russian ex 6120              |
| 11540 | 1000-2300 | Arabic General Sce ex 9850   |
| 11635 | 1530-1630 | Uzbek ex 9620                |
| 15425 | 1900-2030 | Fulani ex 9720               |
| 15620 | 1600-1815 | Zulu/Shona/Ndebele ex 15475  |
| 17675 | 1200-1700 | Arabic General Sce ex 17670. |

(Radio Bulgaria Monitoring/EDXP/Padula-AUS)

**EL SALVADOR** Mistakenly reported as a harmonic (of MW 810 kHz) is new shortwave relay of *Radio Imperial*, 17833.72 kHz, noted irregularly in the 1900-2200 period. (Henrik Klemetz/DX Listening Digest/Hauser-OK)

## GEORGIA *Radio Georgia*

|           |         |                              |
|-----------|---------|------------------------------|
| 0600-0630 | Russian | 11805                        |
| 0630-0700 | English | 11805                        |
| 0700-0730 | German  | 11805                        |
| 0800-0830 | French  | 11910                        |
| 0830-0900 | English | 11910                        |
| 0730-0800 | English | 6080 Tu/Th1830 6080 Sat, Sun |
| 0930-1000 | English | 11910                        |
| 1630-1700 | English | 6180                         |
| 1830-1900 | English | 11910                        |
| 1830-1900 | English | 6080 Sa/Su                   |

(Rumen Pankov, Bulgaria, April 6, BC-DX Apr 17 via DX Listening Digest/Hauser-OK)

**GREECE** *Voice of Greece* has moved from 17905 to 17900 so it no longer blocks aeronautical traffic on 17904usb. (Morrison Hoyle, Victoria, April 8, DX Listening Digest/Hauser-OK)

Other changes for Voice of Greece in Greek: 0700-1000 and 1100-1300 NF 17900 (ex-17905) (English 0930-1000) (Observer, Bulgaria, April 9 via DX Listening Digest/Hauser-OK)

**HONDURAS** 4819.1, *HRVC*, has reactivated after being off several months. Nice signal at 1115 April 6 with multiple IDs in Spanish. Also announcing website of <http://www.hrvc.org> which has streaming audio [wasn't working when I tried] and an email address (Hans Johnson, FL, Cumbre DX via DX Listening Digest/Hauser-OK)

**INDIA** New freqs for *All India Radio* in A02. Several transmission are synchronized from two transmitters with different direction on the same channel.

|       |           |  |
|-------|-----------|--|
| 5990  | 0100-0200 | Sindhi   |
| 7250  | 0130-0228 | Nepali (NEW)   |
| 9690  | 1330-1500 | GOS-III to SEAsia (NEW)  |
| 11715 | 0130-0228 | Nepali (NEW)   |
| 11775 | 1215-1330 | Tibetan (ex-11695)   |
| 11775 | 1330-1430 | Nepali (ex-11695)  |
| 13685 | 1115-1215 | Tamil (ex-13700)   |
| 13685 | 1215-1245 | Telegu (ex-13700)  |
| 15075 | 1615-1730 | Hindi E.Af (NEW)   |
| 15075 | 1745-1945 | GOS-IV to E.Af(NEW)  |
| 15415 | 1215-1315 | Burmese (NEW)  |
| 11620 | 2045-2230 | GOS-V (one transmitter to Europe and one to Aust/NZ)                     |
| 11620 | 2245-0045 | GOS-I (one transmitter to NEAsia and one to SEAsia)                      |
| 13685 | 1000-1100 | GOS-II English ( one transmitter to NEAsia & one transmitter to Aust/NZ) |

15075 0315-0415 Hindi (one transmitter to ME and one transmitter to E.A.F EXCEPT GOS-II all GOS in English is now broadcast on 11620.

AIR is interested to receive reception comments with GOS in English on 11620 13605 13685 kHz in North America, Australia and New Zealand and of course in Europe. (Alok Das Gupta-IND)

**INDONESIA** 3264.7 *RRI Garontalo* Apr 10 1224-1242 Indonesian, Jakarta news relay and music. ID at 1233. (Kouji Hashimoto/Japan Premium/Iwaka Gatu-JPN)

3325 *RRI Plangkaraya* Apr 10 1320-1330 Indonesian, Talk. ID at 1325. (Kouji Hashimoto/Japan Premium/Iwaka Gatu-JPN) 2203-2208, Tail end of the news ("Warta Berita"), with mention of Palestina and Israel. Jingle with "Radio Republic Indonesia" ID, and something that sounded like "Independant National." Choral song, then back to own programming with local ID by male speaker, followed by soft Indonesian popmusic. (Veldhuis, Apr 20/Cumbre DX/Fleming)

3344.85 *RRI Ternate(p)* Apr 11 1340-1403\* Indonesian, Talk. Music. 1403 s/off. (Kouji Hashimoto/Japan Premium/Iwaka Gatu-JPN)

3905 *RRI Merauke*, 1015-1035, Apr 13, Local language, Musical program comments by man announcer, mention several times Merauke, (Eramo/Japan Premium/Iwaka Gatu-JPN)

3976 *RRI Pontianak* Apr 11 1311-1322 Indonesian, Jakarta news relay and talk. ID at 1314 and 1316. (Kouji Hashimoto/Japan Premium/Iwaka Gatu-JPN) 3976.06 *RRI Pontianak*, 2212-2223, Long talk by female in Bahasa Indonesia. At 2219 piece of music, announcement by male, short piece of music, local ID given by female at 2220. Then talk with frequent music bridges. (Veldhuis, Apr 20/Cumbre DX/Fleming)

4753.3 *RRI Makassar* Apr 16 1155-1205 Indonesian, Talk. ID at 1157. 1200 Jakarta news relay. (Kouji Hashimoto/Japan Premium/Iwaka Gatu-JPN) 1035-1050 beautiful Indonesian music, interesting percussion and string instrumentals (Wilkner/Japan Premium/Iwaka Gatu-JPN)

4789 *RRI Fak Fak* Apr 11 1230-1240 Indonesian, Jakarta news relay. ID at 1232. Music. (Kouji Hashimoto/Japan Premium/Iwaka Gatu-JPN) 1227-1235+ Apr 22. Noted with talks not // to other RRI stns. Decent signal but deteriorating. (Wilkins, Apr 22/Cumbre DX/Fleming)

4874.6 *RRI Sorong* Apr 16 1051-1103 Indonesian, Pops music. ID at 1059. 1100 News. (Kouji Hashimoto/Japan Premium/Iwaka Gatu-JPN)

4925 *RRI Jambi* Apr 11 1240-1301 Indonesian, Talk and music. ID at 1300. (Kouji Hashimoto/Japan

Premium/Iwaka Gatu-JPN) 1213-1240+ Apr 22. Active again. Heard with Jak pgm // 4753.48 to 1234, then into own pgmg. Lagu melayu was followed by talk by W at 1245. Fair at tune-in and deteriorating. (Wilkins, Apr 22/Cumbre DX/Fleming)

6071.2 *RRI Jayapura* Apr 11 0928-0934 Indonesian, Talk. 0930 IS. heavy QRM. (Kouji Hashimoto/Japan Premium/Iwaka Gatu-JPN)

6153.8 *RRI Biak* Apr 14 1022-1035 Indonesian, Pops music. 1028 ID and IS. 1030 ID. Talk. (Kouji Hashimoto/Japan Premium/Iwaka Gatu-JPN)

**IRAN Voice of the Islamic Republic of Iran (VOIRI)** Summer A-02 schedule

|           |          |                                  |
|-----------|----------|----------------------------------|
| 0000-0527 | Persian  | 15084                            |
| 0030-0127 | Spanish  | 9515 9655 13755                  |
| 0030-0127 | English  | 9610 11970                       |
| 0030-0127 | Bengali  | 6005 9570 9890                   |
| 0100-0227 | Tajik    | 7180                             |
| 0130-0227 | Kazakh   | 11935 13770                      |
| 0130-0227 | Urdu     | 9525 11880 13640                 |
| 0130-0227 | Arabic   | 9705                             |
| 0130-0227 | Spanish  | 9560 9655 9810 13755             |
| 0230-0257 | Uzbek    | 7180                             |
| 0230-0257 | Hindi    | 15165 17635                      |
| 0230-0327 | Pashto   | 7130 9605 11765                  |
| 0230-0327 | Spanish  | 13730                            |
| 0230-0427 | Arabic   | 7155 11935                       |
| 0230-0627 | Arabic   | 9790                             |
| 0230-1627 | Arabic   | 15150                            |
| 0300-0327 | Russian  | 9875 11830 13665 13770           |
| 0300-0327 | Armenian | 11860                            |
| 0300-0627 | Dari     | 9580                             |
| 0330-0427 | Arabic*  | 9610 11870                       |
| 0330-0427 | Swahili  | 15260 15595 17570<br>17800       |
| 0330-0527 | Arabic** | 7120 7245 9685                   |
| 0330-0527 | Arabic   | 17610                            |
| 0330-0527 | Azeri    | 13710                            |
| 0430-0557 | Turkish  | 15260 15365                      |
| 0430-1627 | Arabic   | 15125                            |
| 0530-0627 | Bosnian  | 15084 15510 17680                |
| 0530-0627 | Spanish  | 17590 17785                      |
| 0600-0657 | Hausa    | 17600 21810                      |
| 0630-0727 | French   | 17590 17780 21645                |
| 0630-0727 | Italian  | 15084 17705 17825                |
| 0630-0727 | Albanian | 15235 17680                      |
| 0730-0827 | German   | 15084 17590                      |
| 0830-1157 | Persian  | 15084                            |
| 0830-1157 | Dari     | 11880                            |
| 0900-0927 | Pashto   | 11675 12025                      |
| 0930-0957 | Armenian | 9630 11700 15260                 |
| 0930-1227 | Arabic   | 21520 21545 21655                |
| 1000-1057 | Swahili  | 17780 21755                      |
| 1030-1527 | Arabic   | 13675                            |
| 1100-1227 | English  | 15215 15585 15600<br>21470 21730 |
| 1200-1257 | Chinese  | 17785 17825 21460<br>21490       |
| 1200-1257 | Italian  | 15084 15235                      |

|           |          |                                       |
|-----------|----------|---------------------------------------|
| 1200-1457 | Dari     | 7295                                  |
| 1230-1327 | Pashto   | 9630 9790 11870 13785                 |
| 1230-1327 | Malay    | 15200 17555 17635                     |
| 1300-1327 | Japanese | 15235 15555                           |
| 1300-1357 | Kazakh   | 11665 13755 15330                     |
| 1300-2357 | Persian  | 15084                                 |
| 1330-1457 | Urdu     | 9565 9665 11695 13605<br>13785 15420  |
| 1330-1927 | Arabic   | 9860                                  |
| 1400-1457 | Russian  | 12030 15200 15290                     |
| 1430-1457 | Azeri    | 6200                                  |
| 1430-1527 | Pashto   | 7270                                  |
| 1430-1527 | Bengali  | 9525 9810 11995 15395                 |
| 1500-1527 | Hindi    | 9630 9720 11710 15245                 |
| 1500-1557 | Uzbek    | 5955                                  |
| 1500-1657 | Azeri    | 6200                                  |
| 1530-1627 | English  | 7245 9635 11775                       |
| 1530-1627 | Russian  | 9830 11675 11730 12020<br>12095 13790 |
| 1530-1727 | Urdu     | 7270                                  |
| 1600-1727 | Tajik    | 5955                                  |
| 1600-1727 | Turkish  | 7165 9550                             |
| 1630-1727 | Pashto   | 3945 6015 7195 9725                   |
| 1630-1727 | Armenian | 6185 7230 9780                        |
| 1630-1927 | Arabic   | 6025 11740 11840                      |
| 1730-1827 | Bosnian  | 7295 9545 9615                        |
| 1730-1827 | German   | 11765 11855 13730                     |
| 1730-1827 | Russian  | 6140 7115 7205 7305                   |
| 1730-1827 | Swahili  | 9655 11995                            |
| 1730-1927 | Arabic   | 6200                                  |
| 1830-1927 | French   | 11765 11860 11880<br>13665 13700      |
| 1830-1927 | Arabic   | 9705                                  |
| 1830-1927 | Albanian | 7295 9545 9570                        |
| 1830-1927 | Hausa    | 11930 15435                           |
| 1930-1957 | Italian  | 7295 11765 13650                      |
| 1930-2027 | Russian  | 6045 7125 7175 9900                   |
| 1930-2027 | English  | 9800 11670 11695 11855                |
| 1930-2027 | Arabic*  | 6025 6200 9705 9860<br>11740 11840    |
| 2030-0127 | Arabic   | 6200 9705                             |
| 2030-2127 | Arabic   | 6025 9860 11740 11840                 |
| 2030-2127 | Albanian | 9535 11660                            |
| 2030-2127 | Spanish  | 9750 11765                            |
| 2100-2127 | Japanese | 11885 13635                           |
| 2130-0127 | Arabic   | 11710                                 |
| 2130-2227 | English  | 9570 13665                            |
| 2130-2227 | Bosnian  | 9660 9810 11870                       |
| 2330-0027 | Chinese  | 11750 15490 15570                     |
| 2330-0027 | French   | 9560 11970                            |

\*Voice of Islamic Palestinian Revolution

\*\*Voice of Islamic Revolution of Iraq (Observer, Bulgaria, April 19 via DX Listening Digest/Hauser-OK)

**IRELAND** 9389.95, *Laser Hot Hits*, 0630 3/28, Several "Laser" IDs, by male DJ in passing. // 6220, but as expected, much clearer. Postal address, phone # and e-mail address given around 0635. Fair copy. I've read recently that they are using new transmitters, but not 100% sure this is not someone else relaying them. This is the first time I've heard them

on this frequency. Fade out around 0700-0800 (David Hodgson, TN, DX Listening Digest/Hauser-OK)

### ISRAEL *Kol Israel* A02 overseas service schedule

|           |           |                                  |
|-----------|-----------|----------------------------------|
| 0100-0500 | Hebrew    | 13850                            |
| 0300-2210 | Arabic    | 5915                             |
| 0300-2210 | Arabic    | 12150                            |
| 0330-0500 | Hebrew    | 11590                            |
| 0400-0415 | English   | 9435 15640 17600                 |
| 0500-0100 | Hebrew    | 17535                            |
| 0500-0515 | French    | 15640 17545                      |
| 0600-1900 | Hebrew    | 15760                            |
| 1000-1030 | French    | 15640 17545                      |
| 1030-1035 | English   | 15640 17545                      |
| 1200-1215 | Bukharian | 15640 17545                      |
| 1215-1230 | Georgian  | 15640 17545                      |
| 1400-1500 | Persian   | 13850 15640 17545 Fr/Sa/holidays |
| 1400-1525 | Persian   | 13850 15640 17545 Su             |
| 1500-1525 | Sp/Ladino | 17425 15640 17565 Sa             |
| 1530-1555 | French    | 11605 15640 17545                |
| 1600-0330 | Hebrew    | 11585                            |
| 1600-1625 | Yiddish   | 9435 15640 15650                 |
| 1600-1630 | English   | 15615 17545                      |
| 1625-1635 | Moghربي   | 15640                            |
| 1625-1645 | Romanian  | 9435 15640                       |
| 1635-1645 | Spanish   | 15640                            |
| 1645-1700 | Hungarian | 9435 15650                       |
| 1645-1700 | Ladino    | 15640                            |
| 1700-1725 | Yiddish   | 9435 15650                       |
| 1730-1900 | Russian   | 11605 9435                       |
| 1800-1850 | Hebrew    | 15640                            |
| 1900-0600 | Hebrew    | 15760                            |
| 1900-1925 | English   | 11605 15615 17545<br>15640       |
| 1930-1945 | French    | 11605 15615 15640<br>17545       |
| 1945-2000 | Spanish   | 11605 15615 15640<br>17545       |
| 2000-2115 | Hebrew    | 15640                            |

(KOL Website Last-Modified 23 Mar 2002 via JKB & HJB/WWDXC/Kubiak-GER + Hambly-AUS/DXLD/Hauser-OK)

### ITALY *RAI International*

|           |            |                                     |
|-----------|------------|-------------------------------------|
| 0055-0115 | Spanish    | 9840 12030                          |
| 0055-0115 | English    | 9675 11800                          |
| 0115-0130 | Portuguese | 9840 12030                          |
| 0115-0130 | French     | 9675 11800                          |
| 0130-0230 | Italian    | 6110 9675 9840 11765<br>11800 12030 |
| 0230-0315 | Italian    | 9675 9840 11800 12030               |
| 0315-0335 | Spanish    | 9675 9840 11800 12030               |
| 0345-0405 | Russian    | 7235 9670 11800                     |
| 0400-2200 | Italian*** | 7175                                |
| 0400-2200 | Italian**  | 6060 9515                           |
| 0405-0425 | Ukrainian  | 7235 9670 11800                     |
| 0435-0445 | Italian    | 7235 9875                           |
| 0435-0455 | Amharic    | 15250                               |
| 0445-0500 | English    | 7235 9875                           |
| 0455-0530 | Italian    | 15250                               |



|           |            |                                      |
|-----------|------------|--------------------------------------|
| 0505-0525 | Lithuanian | 9670 11800                           |
| 0530-0550 | Romanian   | 9670 11800                           |
| 0530-0550 | Somali     | 15250                                |
| 0600-0620 | Arabic     | 15250                                |
| 0600-0620 | Russian    | 11800 15290                          |
| 0630-1300 | Italian    | 9670 11800                           |
| 1000-1100 | Italian    | 11920                                |
| 1330-1355 | Arabic     | 11800                                |
| 1335-1355 | Albanian   | 7190 9690                            |
| 1400-1415 | Slovene    | 7190 9690                            |
| 1400-1425 | Italian    | 17780 21520                          |
| 1415-1435 | German     | 7190 9690                            |
| 1430-1455 | Arabic     | 9670 11800                           |
| 1435-1455 | Croat      | 7190 9690                            |
| 1500-1520 | Turkish    | 9690 11895                           |
| 1500-1525 | Italian    | 9670 11880                           |
| 1500-1525 | Italian    | 9670 11880                           |
| 1520-1540 | Greek      | 9690 11895                           |
| 1530-1555 | French     | 9670 11885                           |
| 1540-1600 | Bulgarian  | 9690 11895                           |
| 1555-1625 | Italian    | 9670 11885                           |
| 1605-1625 | Russian    | 11805 15290                          |
| 1630-1655 | Arabic     | 11910 15240                          |
| 1630-1655 | French     | 9670 11730                           |
| 1700-1800 | Italian    | 9670 9730 11810 15115<br>15320 17800 |
| 1805-1825 | German     | 6015 9605                            |
| 1810-1825 | Czech      | 6130 7240                            |
| 1825-1840 | Slovak     | 6130 7240                            |
| 1830-1905 | Italian    | 17780 21520                          |
| 1840-1900 | Polish     | 6130 7240                            |
| 1910-1930 | Somali     | 11890 15240                          |
| 1910-1930 | Serbian    | 6130 7240                            |
| 1935-1955 | Ungherese  | 6130 7240                            |
| 1935-1955 | English    | 5970 9745                            |
| 2000-2020 | Danish     | 9600 11755                           |
| 2000-2020 | Swedish    | 9600 11755                           |
| 2000-2020 | Russian    | 6185 9670 11800                      |
| 2000-2020 | Esperanto  | 9600 11755                           |
| 2025-2045 | Arabic     | 6130 7290                            |
| 2025-2045 | English    | 9670 11880                           |
| 2050-2110 | Portuguese | 9670 11880 15240                     |
| 2050-2110 | Portuguese | 6130 7290                            |
| 2110-2130 | Spanish    | 6130 7290                            |
| 2115-2135 | Romanian   | 5970 7250                            |
| 2135-2155 | Arabic     | 7290 9670                            |
| 2135-2155 | Czech      | 5970 7250                            |
| 2155-2210 | Slovak     | 5970 7250                            |
| 2200-0400 | Italian*   | 6060                                 |
| 2205-2230 | English    | 11900 15625                          |
| 2210-2225 | Polish     | 5970 7250                            |
| 2240-0055 | Italian    | 9675 9840 11800 12030                |

\* Notturmo dall'Italia

\*\* Radiouno

\*\*\* Radiodue (via BCL News, Sicily, via Conexin Digital via DX Listening Digest/Hauser-OK)

**IRRS-Shortwave, Milano**

|           |            |            |
|-----------|------------|------------|
| 0430-0600 | En/Italian | 3985       |
| 0600-0700 | En/It/Ge   | 7120       |
| 0700-1500 | En/It/Ge   | 7120 Sa/Su |

|           |           |            |
|-----------|-----------|------------|
| 1700-2215 | En/It/Ge  | 3985       |
| 2200-2300 | En/German | 7120 Fr-Su |

All 10 kw non directional in USB -6db reduced carrier or DSB (via BCL News, Sicily, via Conexin Digital via DX Listening Digest/Hauser-OK)

**JAPAN NHK** has been broadcasting the emergency news programs of "US attack the terrorist group in Afghanistan" per this schedule:

|           |          |                        |
|-----------|----------|------------------------|
| 0100-0200 | English  | 11880E 17560Y          |
| 0100-0400 | Japanese | 6180D                  |
| 0230-0300 | Persian  | 11930G                 |
| 0400-0430 | Arabic   | 11930G                 |
| 0400-0700 | Japanese | 15480D                 |
| 0700-0730 | Arabic   | 15220A                 |
| 0700-1300 | Japanese | 15165D                 |
| 0830-0900 | Persian  | 17820E                 |
| 1300-1500 | Japanese | 15400D                 |
| 1400-1500 | English  | 17755G                 |
| 1500-1700 | Japanese | 15265S                 |
| 1700-1900 | Japanese | 9530D                  |
| 1900-2100 | Japanese | 9590D                  |
| 2100-0100 | Japanese | 6140D (21-22 En??, WB) |

A=Ascension

D=Dubai, UAE

E=Ekala, Sri Lanka

G=Gabon

S=Skelton, UK

Y=Yamata, Japan (NHK A02 booklet via WB, 2002 Mar 30/WWDXC/Kubiak-GER)

**KOREA—SOUTH Radio Korea International** in English:

|           |                 |
|-----------|-----------------|
| 0200-0300 | 9560S 15575     |
| 0800-0900 | 7550 9570 13670 |
| 1130-1230 | 9650S           |
| 1300-1400 | 9570 13670      |
| 1600-1700 | 5975 9515 9870  |
| 1900-2000 | 5975 7275       |
| 2100-2130 | 3955U*          |
| 2100-2200 | 15575           |

S=Sackville, Canada

U=Skelton, UK

\*=Second English program

(via Glenn Hauser, also via Mike Barraclough, DX Listening Digest/Hauser-OK)

**KURDISTAN via UZBEKISTAN/MOLDOVA** New schedule for **Voice of Mesopotamiya** in Kurdish:

|           |           |
|-----------|-----------|
| 0400-1200 | 15675*TAC |
| 1200-1600 | 11530 KCH |

(Ivo and Angel, Observer, Bulgaria, April 9 via DX Listening Digest/Hauser-OK)

**Radio Kurdistan, Voice of Kurdistan Socialist Democratic Party** [clandestine?] heard in Kurdish and Arabic with irregular late evening transmissions \*1945-2057\* on 4130 kHz; March 10-18 (R. Petraitis, Lithuania, Mar 19, 2002 for CRW April 8 via DX Listening Digest/Hauser-OK)

**Voice of Komala** in Kurdish and Farsi heard with a new summer time schedule \*0225-0333\* (sometimes 10-15 min longer) and \*1555-1733\* on 4610, 6810v kHz. First noted on March 24th. Often heard a spoken ID "Radio Payam" in the Farsi service (R. Petraitis, Lithuania, Apr 3, 2002 for *Clandestine Radio Watch* via DX Listening Digest/Hauser-OK)

**KYRGYZSTAN** 6945.1, very tent. *Kyrgyz Radio*, 0157 Apr 17, minor key IS, into program in unID language at 0201, occasional minor key interludes, off at 0218 with apparent Kyrgyz NA; drifted up to .15, then down to .02; txn Lee Reynolds for pointing this station out. Sound clip of anthem at [http://www.brandi.org/6945\\_0217\\_20020417.mp3](http://www.brandi.org/6945_0217_20020417.mp3) Compare to MIDI anthem at <http://www.countryreports.org/sounds/kyrgyzstan.mid> I'm not positive (Ralph Brandi, NJ, DX-plorer via DX Listening Digest/Hauser-OK)

**LAOS** The new A02 frequency season cleared the co-channel interference to the *Lao National R* on 7145. Very listenable signals 1330-1400 English. They have some nice programs featuring Lao traditional life. Their English news is at 1345. S-off varies between 1355-1400 with the National Anthem (Victor Goonetilleke, Sri Lanka, 457VK, DXplorer Apr 13 via BC-DX via DX Listening Digest/Hauser-OK)

4658.57, *Lao National Radio* (LNR), Houa Phan, Mar 04, 1157-1230\* in Laotian, at 1200-1229 relay of // 6130 from Vientiane. Local ID at s-off. Suffers co-channel QRM by a Chinese speaking station on 4658.8, also // 6130 suffers by co-channel Xizang PBS, Lhasa, Tibet. LNR had some transmitter power problems, and also covered sometime by the Chinese signal. Chinese station // on nearby weak 6110 signal too. On Feb 19, China was on 4660 and 6130, and LNR Houa Phan was on 4660.8. At 1232\* both 60 mb stations signed off (Roland Schultze, Philippines, DSWCI DX Window Mar 27 via DX Listening Digest/Hauser-OK)

**LESOTHO** 4800, **LNBS**: I asked the Transmitter Engineer at Radio Lesotho, Emmanuel Rametse, about the status of their transmitter on 4800 kHz. This was his reply: "Our short wave transmitter is still off air due to a problem of spares that are still in the US. These spares have been ordered and we are expecting them any time from now. I hope as soon as we get the spares we will be able to resume transmission." (George Maroti, NY, Apr 23, Cumbre DX via DX Listening Digest/Hauser-OK)

**LIBYA via FRANCE** Updated A-02 schedule for LJB in Arabic:

|           |                         |
|-----------|-------------------------|
| 1000-1100 | 21695                   |
| 1100-1130 | 17695 21675 21695 21810 |
| 1130-1400 | 21675 21695             |
| 1400-1500 | 21695                   |
| 1500-1600 | 17695 21810             |
| 1600-1700 | 15660 17695             |
| 1700-1800 | 15660 17635 17695 17880 |

|           |                         |
|-----------|-------------------------|
| 1800-1900 | 15205 15660 17635 17695 |
| 1900-2000 | 15205                   |
| 2000-2130 | 11635                   |

(Ivo and Angel! Observer, Bulgaria, April 2, via DX Listening Digest/Hauser-OK)

**LIBERIA** 6100, **Voice of Liberia** (so announced), 0630 Mar 19 with African music, mention of "Ambassadors of Music," upbeat anmts, greetings to listeners, ID 0641, TC, 0645 speech by female Reverend of United Methodist Church, African music again 0650, seemingly more brief religious speeches. TC 0656, music, ads 0657, TC 0700, more music, 0702 "Good morning from Monrovia, the news read by. . ." Signal a little fluttery, but not too bad overall (Jerry Berg, MA, NASWA Flashsheet via DX Listening Digest/Hauser-OK)

I decided to check 6100 some more. On Mar 30 I found DW there in force until 0600 s/off, when there was revealed a not-very-strong station on 6099.94 in what sounded like Italian. I assume this was R. Tirana, which is listed at 0300-0800 on 6100 and is often off-fq. Liberia's carrier came on 6100 at 0625. There was a minute of music at 0627, then the Liberian NA with good audio, then an ID with very low audio. The man IDed as R. Liberia International, gave the SW frequency as 6100, and then went into a long program preview; however, the audio was so low that the talking was mostly unreadable. There was also heavy QRN this night. At 0632 they went into upbeat music, and the audio came back up. This problem of good music audio-bad voice audio is apparently intermittent, as I have heard them a few times before with steady audio (Jerry Berg, MA, NASWA Flashsheet April 6 via DX Listening Digest/Hauser-OK)

**MADAGASCAR** The station on 5010.0 closing just after 1900 is Madagascar, heard tonight (28 March) very clearly in parallel with much weaker 3287.6. After the national anthem they play the usual and distinctive Madagascar interval signal which has been around for years and years. Here in Nairobi, 5010 is COMPLETELY CLEAR once Madagascar has signed off. I am very sceptical of these reports of Cameroon on that frequency. I think Cameroon has now left shortwave for good (Chris Greenway, Nairobi, Kenya, March 28, DX Listening Digest/Hauser-OK)

3287 // 5010 **RTM** abruptly went off at 1639 April 3, also nothing on MW when checked; while the station of the self proclaimed president Ravolomanana is still on 9685 (Mahendra Vaghjee, MAURITIUS, hard-core-dx via DX Listening Digest/Hauser-OK)

**STATION 9685**, 0300-20.00, 07 April: this station is also being heard on 9540 USB. If not all night long it should be on the air until 2200 or so. Later: Most probably the actual president is not giving any chance to the self appointed president Ravalo-

manana to be on the air, and around 1900 station 9540 // 9685 has been covered by RTM with more powerful signal and right now RTM is on 3287 // 4991 // 5010 // 9540 and 9685 (Mahendra Vaghjee, Mauritius, April 7, hard-core-dx via DX Listening Digest/Hauser-OK)

**MALI ORTM** Bamako appeared around 0805 UT on odd v9633.98...9633.96, Vernacular news, also on / 11960.00 even (Wolfgang Bschel, Germany, March 31, DX Listening Digest/Hauser-OK)

Freq change for **CRI** via Bamako relay: 1800-1828 Hausa; 1830-1928 Arabic NF 11640 (ex-15550). (Ivo and Angel! Observer, Bulgaria, April 2, via DX Listening Digest/Hauser-OK)

**MALTA Voice of the Mediterranean**

|           |          |              |
|-----------|----------|--------------|
| 0500-0600 | Japanese | 17570K Su    |
| 0530-0600 | Arabic   | 6110         |
| 0700-0800 | Italian  | 9605R Su     |
| 0800-0900 | English  | 9605R Su     |
| 0900-1000 | Maltese  | 9605R Su     |
| 1000-1100 | French   | 9605R Su     |
| 1100-1200 | German   | 9605R Su     |
| 1700-1730 | Italian  | 9605R        |
| 1730-1800 | English  | 9605R        |
| 1900-2000 | English  | 12060M Sa-Th |
| 1900-2000 | English  | 12060M Su    |
| 1900-2100 | Arabic   | 12060M Fr    |
| 2000-2030 | French   | 12060M Su    |
| 2000-2100 | Arabic   | 12060M       |
| 2030-2100 | German   | 12060M Su    |

K=via Komsomolsk, Russia

M=via Moscow, Russia

R=via Rome, Italy

(VOM via Alan Pennington, BDXC-UK, Caversham UK via DX Listening Digest/Hauser-OK)

**MONGOLIA A-02 Schedule for Voice of Mongolia, per the VOM website:**

|           |           |               |
|-----------|-----------|---------------|
| 0830-0900 | Japanese  | 12014.8       |
| 0900-0930 | Mongolian | 12014.8       |
| 0930-1000 | Chinese   | 12014.8       |
| 1000-1030 | English   | 12014.8       |
| 1030-1100 | Mongolian | 9615          |
| 1100-1130 | Chinese   | 9615          |
| 1200-1230 | Japanese  | 9615          |
| 1330-1400 | Russian   | 12014.8 Sa/Su |
| 1500-1530 | English   | 12014.8       |
| 2000-2030 | English   | 12014.8       |

(via Alan Roe, Teddington, UK, DX Listening Digest/Hauser-OK)

**MYANMAR Defense station** on 6570 appears to be back on regular power, fair signals on the 2m mobile antenna!!! at 1425 April 13 (Victor Goonetilleke, Sri Lanka, 4S7VK, DXplorer via BC-DX via DX Listening Digest/Hauser-OK)

**NAMIBIA** The only night frequency at the moment is 3270 (presumed 1700-0500) and the day one

6060 (presumed 0500-1700). Both frequencies (the same transmitter, I suppose) are quite undermodulated and the signals are much weaker than I would normally expect here. Could be that the last SW transmitter is on its way out? (Vashek Korinek, RSA, DSWCI DX Window Mar 27 via DX Listening Digest/Hauser-OK)

3290, **NBC, National Radio "Voice of the Nation"** is being heard only on this frequency and some times with prog in English replayed from an FM station with pop music and BBC News and reports at 1830 April 3, while 3270 is off the air for quite a month now (Mahendra Vaghjee, MAURITIUS, hard-core-dx via DX Listening Digest/Hauser-OK) [Your guess is as good as mine!-AQ]

**NETHERLANDS A-02 Schedule for R. Netherlands**

|           |            |  |
|-----------|------------|--|
| 0130-0225 | Dutch      | 6010sa 11730fl 15315bo   |
| 0130-0325 | Spanish    | 6165bo 9845bo  |
| 0330-0425 | Dutch      | 6165bo 9590bo 9845ma 15560ma   |
| 0430-0530 | English    | 6165bo 9590bo  |
| 0500-0557 | Dutch      | 1512wo 7125fl  |
| 0500-0757 | Dutch      | 9895fl   |
| 0500-1700 | Dutch      | 5955fl 9895fl  |
| 0530-0625 | Dutch/DRM  | 11655bo  |
| 0559-0757 | Dutch      | 11935fl  |
| 0630-0800 | Dutch/DRM  | 15245bo  |
| 0700-0800 | Dutch      | 9820bo 11655bo   |
| 0759-1700 | Dutch      | 13700fl 13700fl  |
| 0930-1015 | Dutch      | 6020bo Mo-Sa   |
| 0930-1130 | English    | 9790bo 12065pe 13710ir   |
| 1030-1125 | Dutch      | 13820ma 17575ma 21480ma  |
| 1030-1125 | English    | 5965sa 6045ju 9860we   |
| 1100-1125 | Spanish    | 15450bo  |
| 1130-1157 | Spanish    | 6165bo 9715bo  |
| 1130-1325 | Indonesian | 11690si 17580ma 21480ma  |
| 1200-1225 | Spanish    | 6165bo 9715bo  |
| 1228-1325 | Dutch      | 17495  |
| 1330-1425 | Dutch      | 9890pe 12065ta 13695kh 17580ma 21480ma                                     |
| 1430-1625 | English    | 9890ma 11835ma 12075ta 15220sa   |
| 1630-1725 | Dutch      | 6020ma 11655ma   |
| 1730-1825 | Dutch      | 9895fl 13700fl 15560fl   |
| 1730-2025 | English    | 6020ma 7120ma 11655fl  |
| 1830-2025 | English    | 9895fl 13700fl   |
| 2030-2125 | Dutch/DRM  | 15565bo  |
| 2030-2125 | Dutch      | 15835ka 6015ma 6020fl 7120ma 9895fl 9895fl 11655fl 15315bo 17605bo 21590bo |
| 2130-2225 | Dutch      | 6020bo 9895fl 13700fl 15155bo 15315fl                                      |
| 2130-2325 | Indonesian | 6120si 7285ma 9590ma   |
| 2230-0125 | Spanish    | 9895fl 11720bo 15315bo   |
| 2330-0025 | Dutch      | 7280ma 9590si 17590kh  |
| 2330-0125 | English    | 6165bo 9845bo  |

bo = Bonaire



fl = Flevo  
 ir = Irkutsk  
 ju = Juelich  
 ka = Kaliningrad  
 kh = Khabrovsk  
 ma = Madagascar  
 pe = Petropavlovsk Kamchatski  
 sa = Sackville  
 si = Singapore  
 ta = Tashkent  
 we = Wertachtal  
 wo = Wolvertem

(Alan Roe, Teddington, UK, DX Listening Digest/  
 Hauser-OK)

**NEW ZEALAND** Schedule for **RNZI** in English from  
 May 5 to September 1, 2002:

0459-0658 11820  
 0659-1105 9885  
 1106-1310 11675  
 1311-1650 6095 occ sports  
 1650-1850 6095 Mo-Fr  
 1851-1950 11725 Mo-Fr  
 1951-2215 15160  
 2216-0458 17675

(Ivo and Angel!!! Observer, Bulgaria, April 12 via DX  
 Listening Digest/Hauser-OK)

**NIGER** 45,650 MHz VHF, *La Voix du Sahel*, Niamey,  
 Mar 20, 0900-1400, regularly heard in FM-modulation  
 on this unusual frequency. This is a so-called  
 STL (Studio-Transmitter Link), i.e. carrying the signal  
 from the studios in Niamey to the transmitting  
 centre outside the city. Worldwide low-band VHF reception  
 is possible as a result of the present sunspot  
 maximum (Maarten van Delft, Netherlands, DSWCI  
 DX Window Mar 27 via DX Listening Digest/Hauser-  
 OK)

Other Europeans frequently receiving it are  
 equally convinced it is a semi-harmonic unintentionally  
 radiated of 91.3 MHz (gh, DX Listening Digest/  
 Hauser-OK)

**OMAN** New **BBC** mainland site is now registered A-  
 02 [but probably not yet in full operation]:

0000-0030 Burmese 9605  
 0000-0100 English 5970  
 0030-0100 Bengali 6065  
 0100-0130 Hindi 6065 11750  
 0100-0300 English 11955  
 0130-0200 Urdu 6065 11750  
 0200-0230 Uzbek 11685 Mo-Fr  
 0200-0300 Persian 11750  
 0230-0300 Hindi 11685 Sa/Su  
 0230-0300 Hindi 11685 Mo-Fr  
 0300-0500 English 15575  
 0300-0600 English 15310  
 0330-0600 Arabic 15185  
 0500-0600 English 11760  
 0700-0800 Pers/Pash 15420 Th  
 0700-0805 English 17790

0700-0900 Pashto 15420 Fr  
 0700-1400 English 11760  
 0730-0800 Pashto 15420 Sa-We  
 0800-0845 Pers/Pash 15420 Sa-We  
 0800-1100 Persian 15420 Th  
 0810-0820 Hindi 17790  
 0820-0830 Urdu 17790  
 0900-1100 English 17790  
 0900-1100 Persian 15420 Fr  
 1000-1100 Persian 15420 Sa-We  
 1100-1200 Pashto 15420 Th/Fr  
 1100-1200 Pashto 15420 Sa-We  
 1100-1700 English 17700  
 1200-1230 Pashto 15420 Th/Fr  
 1200-1230 Pashto 15420 Sa-We  
 1230-1300 Pers/Pash 15420 Th/Fr  
 1230-1300 Pers/Pash 15420 Sa-We  
 1300-1345 Indonesian 6030  
 1400-1445 Hindi 6140  
 1400-1500 Hindi 11920  
 1500-1600 Urdu 5965  
 1515-1545 Sinhala 6140  
 1545-1615 Tamil 6140  
 1615-1900 Persian 6090  
 1630-2200 Arabic 6030  
 1700-1730 Hindi 7235  
 1730-1800 Urdu 7235  
 1900-2000 Persian 5975 Th/Fr  
 2200-2330 Mandarin 17615

(Merlin via Andreas Volk-D, ADDX March 12, 2002;  
 BC-DX via DX Listening Digest/Hauser-OK)

**PAKISTAN** A-02 schedule for *Radio Pakistan*:

0015-0100 Bangla 11580 15455  
 0100-0145 Hindi 11580 15455  
 0145-0215 Tamil 11580 15455  
 0230-0300 Gujarati 15325 17825  
 0400-0600 Urdu 15100 17485 21460  
 0700-1005 Urdu/En 17520 21465  
 0800-0830 Indonesian 15430 17660  
 0900-0930 Tamil 17500 15625  
 0930-1015 Hindi 17500 15625  
 1015-1045 Bangla 17500 15625  
 1045-1115 Sinhala 17500 15625  
 1100-1130 Chinese 17485 15100  
 1115-1145 Nepali 17500 15625  
 1230-1430 Urdu 11570 15100  
 1245-1315 Turki 7355 9425  
 1315-1400 Russian 7355 9425  
 1415-1445 Dari 6105 7375  
 1500-1515 English 11570 15100 15725  
 1530-1600 Turkish 15725 11545  
 1600-1645 Farsi 15725 11545  
 1600-1800 Urdu 15100 11570  
 1645-1730 Arabic 15725 11545  
 1700-1800 Urdu 9390  
 2345-0015 English 11580 15455  
 2345-0115 Urdu 17500 15485

(Ivo and Angel!!! Observer, Bulgaria, April 12 via DX  
 Listening Digest/Hauser-OK)

**PALAU Voice of Hope - KHBN**

0700-0800 9965 9985 15725  
 0800-1000 9955 9965 9985 15725  
 1000-1100 9955 9965 9985 12160 15725  
 1100-1600 9955 9965 9985 12160 13840  
 1600-1700 9955 9965  
 2100-2200 9985  
 2200-2400 9955 9965 9985

(Schedule by Webpage of George Jacobs & Assoc. Inc., Last-Modified 10 Mar 2002, via JKB/WWDXC/Kubiak-GER)

**PAPUA NEW GUINEA** A new Christian radio station that recently opened in Papua New Guinea has permission to broadcast on shortwave with a power of 100 kW. A team of engineers led by Sam Rowley from the HCJB World Radio Engineering Center in the USA recently travelled to Port Moresby to complete installation of *Wantok Radio Light*, the city's first Christian FM station. It will become the hub for the Papua New Guinea Christian Broadcasting Network, a satellite radio network being established through a cooperative effort involving HCJB World Radio and three partner organizations. The shortwave broadcasts will reach not only remote, rugged areas of Papua New Guinea, but the entire region. Other stations are being planned for Vanuatu and the Solomon Islands. You can read an account and see photos of the project on this page: <http://www.missionaryradio.info/png.htm> (Radio Netherlands Media Network April 5 via DX Listening Digest/Hauser-OK)

**PERU** 5005 NF, 0012 April 4, *Radio LTC*, Juliaca, "Noticias LTC," W ID "Radio LTC desde Juliaca...LTC, tres frecuencias, una sola seal" 45444. Ex 5032, Ex 6011. 73 (Rogildo F. Arago, Cochabamba -Bolivia, hard-core-dx via DX Listening Digest/Hauser-OK)

5544.70, *Radio San Lorenzo*. April 11, 2002—0030 UT. New station on SW. In June last year I reported a harmonic on 3120v kHz: "Radio San Lorenzo." If the material from that time still matches, 5544.70 Radio San Lorenzo is located in: parroquia San Lorenzo, la provincia de Cutervo, el departamento de Cajamarca. Just like the station on 3120v they also announce 5544.70 kHz and MW 1560 kHz—as well as another SW-frequency I couldn't get. I have also checked that the station runs the same program as on the harmonic-frequency 3120v kHz (from MW 1560)—was at this occasion 10-15 kHz higher up in frequency.

5940.06, *Radio Melodia*, Arequipa. April 2002—0208 UT. New frequency, earlier on 5995.25 as noted in February last year. I checked the frequency after reading the HCDX mailing list where our member Johan Berglund/JB had an UNID on 5940 kHz. (Bjorn Malm, Quito, Ecuador, SW Bulletin April 21, translated by editor Thomas Nilsson for DX Listening Digest/Hauser-OK)

6039.45 new here is *Radio San Antonio*, April

19, 2250-0005, Spanish, endless Christian songs, several IDs. (Michael Schnitzer-GER)

6642.72 harmonic // 5535.61 harmonic: *Radio Comercial*, Lajas, la provincia de Chota, el departamento de Cajamarca. Only a short explanation why I and Rafael Rodriguez have reported Radio Comercial on different frequencies. Some months before Radio Lajas, Lajas was reactivated on SW with the new name "Radio Comercial" I logged the station on 6642.72 kHz. This is certainly a harmonic from MW 1107.12 kHz. Later I have logged Radio Comercial on 5535.61 kHz, a harmonic from the same MW-frequency (Bjrn Malm, Quito, Ecuador, SW Bulletin April 7, translated by editor Thomas Nilsson for DX Listening Digest/Hauser-OK)

**POLAND Radio Polonia**

|           |             |                 |
|-----------|-------------|-----------------|
| 1000-1030 | Czech       | 5965            |
| 1000-1030 | Slovak      | 5965            |
| 1030-1100 | Polish      | 5965            |
| 1100-1125 | Polish      | 7270            |
| 1100-1130 | Russian     | 6095 9540       |
| 1130-1155 | Belarussian | 5995            |
| 1130-1200 | German      | 6095 9525       |
| 1200-1300 | English     | 6095 9525 11820 |
| 1300-1325 | Lithuanian  | 6095 7275       |
| 1300-1330 | Russian     | 9540            |
| 1330-1355 | Esperanto   | 7275            |
| 1330-1430 | Belarussian | 5995 7180       |
| 1400-1425 | German      | 6095            |
| 1430-1455 | Russian     | 7180            |
| 1430-1500 | Ukrainian   | 6000 7130       |
| 1500-1525 | Ukrainian   | 6010            |
| 1500-1530 | Lithuanian  | 5985 7180       |
| 1530-1555 | Ukrainian   | 6010            |
| 1530-1630 | Polish      | 6035 7285       |
| 1600-1625 | Slovak      | 6095 Su         |
| 1600-1700 | Czech       | 6095 Mo-Sa      |
| 1630-1655 | Ukrainian   | 6010 7270       |
| 1630-1700 | Belarussian | 5995            |
| 1700-1755 | Belarussian | 6175 7180       |
| 1700-1800 | English     | 5995            |
| 1800-1825 | Esperanto   | 7130            |
| 1800-1830 | Russian     | 5995 7180       |
| 1830-1900 | Ukrainian   | 5995 6095 7180  |
| 1900-1925 | Russian     | 6095 7165 7180  |
| 1930-2030 | English     | 7165 7265       |
| 2000-2025 | German      | 6030            |
| 2030-2055 | Ukrainian   | 7180            |
| 2030-2055 | Belarussian | 6000 6040       |
| 2100-2125 | Slovak      | 6010 Su         |
| 2100-2125 | Czech       | 6010 Mo-Sa      |
| 2100-2200 | Polish      | 6040 7165       |
| 2130-2155 | Czech       | 6010 Mo-Sa      |
| 2130-2155 | Slovak      | 6010 Su         |

(Mike Barraclough, Letchworth, UK, April 9, DX Listening Digest/Hauser-OK)

**PORTUGAL RDP** Portugal current A-02 schedule, all programs in Portuguese:

0000-0200 9715 11655 13660 13700 15295 Mo-Fr

0500-0700 9815 11850(0645-0800) 11960 15585 Mo-Fr  
 0700-0755 9815 11850(0645-0800) 11960 Mo-Fr  
 0700-0830 12020 13640 21655 21830 Sa/Su  
 0800-1000 11960 12020 Mo-Fr  
 0830-1000 11995# 12020 13640 21655 21830 Sa/Su  
 1000-1200 12020 13640 21655 21830 Sa/Su  
 1000-1200 11960 12020 21655 21830 Mo-Fr  
 1200-1300 17575\* Mo-Fr  
 1200-1345 12020 13640 17575+ 21655 21830 Sa/Su  
 1300-1500 17575\* 21810 Mo-Fr  
 1345-1400 17575+ 21655 21830 Sa/Su  
 1400-1655 13770 15555+ 17575+ 21655 21830 Sa/Su  
 1600-1900 15525 15445+ 17575\* 17650 17680 21655 Mo-Fr  
 1655-1700 13770 15555+ 17575+ 21655 Sa/Su  
 1700-1900 13770 15555+ 17575+ 17680 21655 Sa/Su  
 1900-2000 11945 13720\* 13770 15555+ 17575+ 17680 21540\* 21655 Sa/Su  
 1900-2300\* 11945 13720 17575\* 21540\* 21800\* Mo-Fr  
 2000-2300 11945 13720\* 17575+ 21540\* 21800+ 2300-2400 9715 11655 13660 13700 15295 Mo-Fr

\* Sa/Su

+ may be extended up to 2300

\* reserved for extended schedule ONLY.

(Goncalves, Portugal, via BC-DX, Apr 11 via DX Listening Digest/Hauser-OK)

**ROMANIA Radio Romania International** English  
 March 31—October 26, 2002

0200-0300 9510 11810 11940 15105 15180 17815  
 0400-0500 9510 11940 17735 21480  
 0600-0700 9635 11940  
 0637-0656 7105 9625 9550 11775  
 0700-0800 21530  
 1400-1500 15250 17735  
 1700-1800 11740 15365 15380 17805  
 2100-2200 9510 9725 11740 11940  
 2300-2400 9570 11740 11775 15105

(RRI website March 31 via gh, DX Listening Digest/Hauser-OK)

**RUSSIA** 11840-USB, **Radio Sakhalin**: From continued monitoring it now appears that their own program is 0900-1000 daily except Sunday; they break away from R Rossii (// 13705) at 0900 and pick it up again at 1000. Program is usually music and telephone talk. Finally got positive ID on Mar 22 (Jerry Berg, MA, DSWCI DX Window Mar 27 via DX Listening Digest/Hauser-OK) Now shift all that one UT hour earlier for DST, right? (gh, DX Listening Digest/Hauser-OK)

**Radio Rossii** shortwave for A02:

5905 1530-2100 100 Moscow  
 5910 0100-0400 100 Moscow

5935 0100-0500 100 Moscow  
 5940 1430-2100 100 Moscow  
 7220 2100-1700 200 Ekaterinburg  
 7355 1730-2100 100 Samara  
 7360 1330-1700 100 Samara  
 7365 0100-0500 100 Samara  
 7440 0430-1500 100 Moscow  
 9490 1530-2100 100 Krasnodar  
 9655 1030-1500 100 Irkutsk  
 9720 0530-1400 100 Moscow  
 9805 1900-2200 100 Irkutsk  
 9845 1830-2100 250 Moscow  
 9885 1300-2000 200 S.Petersburg  
 9895 0200-0400 160 Kaliningrad  
 11655 0830-1500 100 Krasnodar  
 11735 1730-2100 250 Moscow  
 11980 0100-0400 250 Moscow  
 12005 0930-1400 100 Samara  
 12020 0100-0500 250 Moscow  
 12025 0100-0800 100 Krasnodar  
 12065 0530-0900 100 Samara  
 13705 0530-1800 250 Moscow  
 15225 0430-0700 250 Moscow  
 15305 0430-1300 160 Kaliningrad  
 15475 2230-1000 100 Irkutsk  
 17660 0730-1700 250 Moscow

(Nikolay Rudnev-RUS)

**Voice of Tatarstan**, summer schedule, in Tatar and Russian:

0400-0500 11665  
 0600-0700 9690  
 0800-0900 11925

(Ildus Ibatullin, Kazan, Russia, Signal via DX Listening Digest/Hauser-OK)

Some freq changes for **Voice of Russia** (A-02 vs A-01)

0500-0900 English WS NF 17795  
 0700-0900 English WS NF 17675  
 1000-1100 Korean NF 15185  
 1000-1200 Chinese NF 15605, ex 15490  
 1200-1300 Russian WS NF 13720  
 1200-1300 Mongolian NF 15605, ex 15490  
 1200-1300 Vietnamese NF 17645, ex 17570  
 1200-1400 Russian WS NF 11640  
 1300-1400 Chinese NF 15605, ex 15490  
 1300-1400 Russian WS NF 17645, ex 15550 and NF 15560, ex 15460  
 1400-1500 English WS NF 17645, ex 15550  
 1400-1600 Farsi NF 9875, ex 9975  
 1400-1700 Ru NF 11830, ex 11695  
 Commonwealth  
 1400-1900 Ru NF 9820, ex 9450  
 Commonwealth  
 1500-1530 Albanian NF 17685, ex 17725  
 1530-1700 Serbian NF 17685, ex 17725  
 1600-1800 Ru NF 9875  
 Commonwealth  
 1700-1800 Bulgarian NF 17685, ex 17725



|   |            |                                 |           |              |                   |
|---|------------|---------------------------------|-----------|--------------|-------------------|
| 1800-1900   | Greek      | NF 17685, ex 17725              | 1300-1315 | Kangri       | 15445 Su          |
| 1900-2000   | Russian WS | NF 9820, ex 9450                | 1300-1315 | Oriya        | 15445 Mo/Th       |
| 1900-2000   | Russian WS | NF 17685, ex 17725              | 1300-1330 | Gujarati     | 15445 Tu          |
| 2100-2130   | French     | NF 9450, ex 9495 via<br>SMG/VAT | 1315-1330 | Gujarati     | 15445 Sa-Mo/We/Th |
|   |            |                                 | 1315-1345 | Gujarati     | 15445 Fr          |
| (Ivo and Angel!!! Observer, Bulgaria, April 12 via DX<br>Listening Digest/Hausser-OK) |            |                                 | 1330-1345 | Nepali       | 15445 Su/Mo       |
|   |            |                                 | 1330-1345 | Maghi        | 15445 Sa          |
|   |            |                                 | 1330-1345 | Chattisgarhi | 15445 Tu-Th       |
| <b>SEYCHELLES FEBA Radio Broadcast Schedule A02,<br/>Summer 2002</b>                  |            |                                 | 1330-1400 | Tamil        | 11880 Th-Sa       |
| 0015-0030   | Punjabi    | 7265 Th/Sa                      | 1330-1400 | Sinhala      | 9810              |
| 0015-0030   | Dzonkha    | 7265 Fr                         | 1345-1400 | Malayalam    | 15445 We          |
| 0015-0030   | Marathi    | 7265 Su-We                      | 1345-1400 | Tamil        | 11880 Su-We       |
| 0030-0100   | Hindi      | 7265 We-Su                      | 1345-1415 | Malayalam    | 15445 Th-Tu       |
| 0045-0100   | Hindi      | 7265 Mo/Tu                      | 1400-1415 | Urdu         | 11600 Su-Th       |
| 0045-0100   | Bangla     | 9465 Su-Th                      | 1400-1430 | Hindi        | 11600 Sa          |
| 0045-0100   | Assameese  | 9465 Sa                         | 1400-1440 | Urdu         | 9485              |
| 0100-0130   | Tamil      | 7265 Mo/We                      | 1400-1445 | Hindi        | 11600 Fr          |
| 0100-0145   | Tamil      | 7265 Tu/Fr/Sa                   | 1415-1430 | Bangla       | 15445 Su-Th       |
| 0100-0200   | Tamil      | 7265 Su-Th                      | 1415-1445 | Hindi        | 11600 Tu/We       |
| 0130-0200   | Telugu     | 9465                            | 1415-1445 | Bangla       | 15445 Fr          |
| 0145-0200   | Badaga     | 7265 Fr/Sa                      | 1415-1500 | Hindi        | 11600 Su/Mo/Th    |
| 0200-0215   | Siraiki    | 9465 Th-Su                      | 1430-1445 | Bangla       | 15445 Sa          |
| 0200-0215   | Hindko     | 9465 Mo/Tu                      | 1430-1500 | Kumauni      | 11600 Sa          |
| 0200-0215   | Urdu       | 11640 Th-Tu                     | 1440-1455 | Urdu         | 9485 Su           |
| 0200-0230   | Persian    | 11605                           | 1440-1455 | Hindko       | 9485 We-Sa        |
| 0200-0230   | Urdu       | 11640 We                        | 1445-1500 | Punjabi      | 9485 Tu           |
| 0215-0230   | Sindhi     | 9465                            | 1445-1500 | English      | 11600 Fr          |
| 0215-0230   | Punjabi    | 11640 Fr-Tu                     | 1445-1515 | Telugu       | 15445 We-Mo       |
| 0230-0245   | Pashto     | 15555                           | 1445-1515 | Telugu       | 15445 Tu          |
| 0230-0245   | Pashto     | 11640                           | 1455-1510 | Balti        | 9485 Th-Su        |
| 0230-0245   | Baluchi    | 9465 Th                         | 1500-1515 | Kannada      | 11600 Mo/We/Th/Fr |
| 0230-0245   | Brahui     | 9465 Mo/Tu                      | 1500-1515 | Malayalam    | 15445 Sa/Su       |
| 0230-0245   | Baluchi    | 9465 Fr-Su                      | 1500-1515 | Tulu         | 11600 Tu          |
| 0245-0300   | Dari       | 11640 Mo-Th                     | 1500-1530 | Kannada      | 11600 Su          |
| 0245-0300   | Dari       | 15555 Mo-Th                     | 1515-1530 | Turkmen      | 9485 Th-Mo        |
| 0245-0315   | Dari       | 15555 Fr-Su                     | 1515-1530 | Nuer         | 11885             |
| 0245-0315   | Dari       | 11640 Fr-Su                     | 1515-1545 | English      | 11600 Tu/We       |
| 0315-0345   | Hazaragi   | 15555 Sa/Su                     | 1515-1600 | English      | 11600 Mo/Th/Fr    |
| 0315-0345   | Swahili    | 11880 Su/Tu/Th/Fr               | 1530-1545 | Dinka        | 11885             |
| 0315-0400   | Swahili    | 11880 Mo/We/Sa                  | 1530-1545 | Uzbek        | 9485              |
| 0345-0400   | English    | 11880 Fr                        | 1530-1600 | English      | 11600 Sa/Su       |
| 0345-0430   | Arabic     | 15535                           | 1545-1600 | Hazaragi     | 9485              |
| 0445-0515   | Sinhala    | 15555 Fr                        | 1545-1615 | Makonde      | 11885 Sa          |
| 0515-0530   | Baluchi    | 15555 Fr                        | 1600-1615 | Makonde      | 11885 Su-Fr       |
| 0530-0700   | Persian    | 15555 Fr                        | 1600-1630 | Dari         | 9485              |
| 0700-0715   | Luri       | 15555 Fr                        | 1600-1630 | Guragena     | 11640 Mo          |
| 0815-0830   | Telugu     | 15460 Sa                        | 1600-1630 | Amharic      | 11640 Th-Su       |
| 0815-0900   | Hindi      | 15460 Th                        | 1615-1630 | Guragena     | 11640 Tu/We       |
| 0915-0930   | French     | 15430                           | 1615-1645 | Swahili      | 11885 Tu/Th       |
| 1100-1130   | Portuguese | 15445                           | 1615-1700 | Swahili      | 11885 Fr-Mo/We    |
| 1100-1245   | Arabic     | 15535 Tu-Su                     | 1630-1645 | Pashto       | 9485 Sa-Th        |
| 1100-1300   | Arabic     | 15535 Mo                        | 1630-1700 | Dhivehi      | 11605 Fr          |
| 1200-1230   | Tibetan    | 15445                           | 1630-1700 | Amharic      | 11640             |
| 1230-1245   | Bhojpuri   | 15445 Fr/Sa                     | 1645-1700 | Dhivehi      | 11605 We          |
| 1230-1245   | Mundari    | 15445 Mo/Tu                     | 1700-1730 | Oromo        | 11640 Su/Fr       |
| 1230-1245   | Bhili      | 15445 Su                        | 1700-1730 | Somali       | 9485              |
| 1230-1245   | Marwari    | 15445 We                        | 1700-1730 | Somali       | 11885             |
| 1245-1300   | Marathi    | 15445 Su                        | 1730-1745 | Tigrinya     | 11640 Mo-Sa       |
| 1245-1300   | Punjabi    | 15445 Mo-Th                     | 1730-1745 | Somali       | 9485              |
| 1245-1300   | English    | 15535 Th-Sa                     | 1730-1800 | Tigrinya     | 11640 Su          |
|   |            |                                 | 1800-1900 | Malayalam    | 11600 Fr          |

1830-1845 French 9485 Tu/We  
1830-1900 French 9485 Th-Mo  
(FEBA website/Alokesh Gupta-IND)

**SIERRA LEONE** 6137.84 **Radio UNAMSIL** 4/20  
0635 phone in show in English, deep voiced African-  
accented announcer IDing as "Radio UNAMSIL"  
(sounds kind of like "Radio National," but digital  
processing revealed it to be UNAMSIL) before each  
phone call, "You're listening to The Hotline on Radio  
UNAMSIL," African-accented callers on the phone,  
time check @ 0650 for "ten minutes to seven,"  
which matches the time in Freetown, into possible  
news @0653, signal starting to fade out by 0656,  
"welcome back to our listeners," music, another  
"Radio UNAMSIL" ID, into news read by W @ 0700  
(Brandi-NJ)

Graham Powell on IRC channel #swl found this  
press release from yesterday on the UN site that  
might explain why we're hearing this station now:

Press Release 19 April 2002

**UNAMSIL PUBLIC INFORMATION SECTION  
LAUNCHES EXPANDED ELECTIONS COVERAGE AND  
OUTREACH**

Freetown—The Public Information Section of  
the UN Mission in Sierra Leone, on Monday, 22  
April, will launch a series of radio programs and  
public outreach efforts to sensitize the population  
about the upcoming elections. Starting on Monday,  
Radio UNAMSIL, on FM 103 and SW 6140 khz, will  
launch "Election Watch," a program that will air  
Mondays through Fridays from 7:30 to 10:30am, and  
will cover electoral activities around the country,  
supply public education on the issues and provide  
all political parties with an equal chance to air their  
platforms. Programming will also devote core time  
to electoral issues of concern to vulnerable groups,  
i.e. handicapped, internally displaced persons,  
women and children. Two presidential debates will  
be organized and aired by Radio UNAMSIL in collab-  
oration with the Sierra Leone Broadcasting Service  
and other stakeholders on 29 April and 3 May. Radio  
UNAMSIL will provide live coverage from around the  
country on 14 May, Election Day itself, up to the an-  
nouncement of final results. The Section's Commu-  
nity Liaison Unit will continue ongoing voter  
education throughout the country in accordance  
with NEC supplied information. Starting on 23 April,  
its performing artists will undertake a nation-wide  
tour in all districts at the chiefdom level to dissemi-  
nate information on the elections. A Command Per-  
formance will be held at the Lagunda Theatre in  
Freetown on 30 April, the theme of which will be  
free and fair elections. The performance will be  
adapted for radio and broadcast nationwide, as well  
as performed at all UNAMSIL Sector Headquarters.  
The Video Unit will continue collaborating with  
SLBS on the popular "Kapu Sens" program and is  
producing public service announcements to be aired

on the network. UNAMSIL Headquarters, Mammy Yo-  
ko, P. O. Box 5, Freetown, Sierra Leone Tel: 232-22-  
273-183/4/5 Fax: 232-22-273-189 (Brandi-NJ)

**SOMALIA** There's some new Somali activity on  
6750.25. It's in the Rahanwein language, so I need  
to check it out further. Regards, (Chris Greenway,  
Nairobi, Kenya, March 28, DX Listening Digest/  
Hauser-OK) On Mar 31, the Rahaweins declared  
South West Somalia an independent state! (Danish  
Press via Anker Petersen, DSWCI DX Window April 10  
via DX Listening Digest/Hauser-OK)

**SOUTH AFRICA** A-02 Schedule for *Channel Africa*

|           |            |                   |
|-----------|------------|-------------------|
| 0300-0325 | Swahili    | 6095              |
| 0300-0330 | English    | 6035              |
| 0330-0355 | French     | 6035              |
| 0400-0430 | English    | 5955              |
| 0430-0455 | Portuguese | 3345              |
| 0430-0455 | French     | 9525              |
| 0430-0455 | Portuguese | 5955              |
| 0500-0530 | English    | 11710             |
| 0530-0555 | Portuguese | 11710             |
| 0600-0630 | English    | 15215             |
| 0630-0655 | Portuguese | 15215             |
| 1300-1455 | English    | 11720 17780 21725 |
| 1500-1525 | Swahili    | 17780             |
| 1500-1530 | English    | 17770             |
| 1530-1555 | French     | 17770             |
| 1600-1630 | Swahili    | 17860             |
| 1600-1630 | English    | 9525              |
| 1630-1655 | French     | 17860             |
| 1630-1655 | Portuguese | 3345 9525         |
| 1700-1730 | English    | 17860             |
| 1730-1755 | Portuguese | 17860             |
| 1800-1830 | English    | 17870             |
| 1830-1855 | French     | 17870             |

**Radio Sonder Grense**

|           |                     |
|-----------|---------------------|
| 0530-0800 | 7185                |
| 0800-1620 | 9650 1620-0530 3320 |

**South African Radio League**

|           |               |
|-----------|---------------|
| 0800-0900 | 9750 21560 Su |
| 1800-1900 | 3215 Mo       |

(From Sentech website via Alan Roe, Teddington, UK,  
DX Listening Digest/Hauser-OK)

**Radio Veritas** Productions of South Africa will  
begin a program service over leased South African  
transmitters on May 1st and has announced times  
and frequencies. The first program, 1000-1200 UT,  
will be on 7240 kHz and from 1700-1900 UT on  
3280 kHz in the 90 meter band. The first broadcast  
each day will be devoted to Mass and services; the  
evening hours will present a magazine program.  
During the first week on the air, the station will run  
short, 30-second messages from South African bish-  
ops, reports Olinda Orlando, program director.

Radio Veritas has been attempting to secure an  
FM license for several years now, and earlier this  
year announced that it was looking seriously at

shortwave radio as a way to expedite getting on the air. The firm Sentech, which operates South Africa's shortwave transmitters primarily for the South African Broadcasting Corporation, as do other international shortwave services, leases idle transmitter time to various groups. In this case, the transmitters are located at Meyerton, just outside of Pretoria, the national capital (Catholic Radio Update April 15 via DX Listening Digest/Hauser-OK)

**SPAIN REE** website gives this schedule for English broadcasts:

0000-0200 15385  
 0500-0556 6055  
 2000-2100 9570 Mo-Fr  
 2000-2100 15290 Mo-Fr  
 2100-2200 9840 Su  
 2100-2200 9570 Su  
 2105-2200 9570 Sa  
 2105-2200 9840 Sa

(Mike Barraclough, Letchworth, UK, April 4, DX Listening Digest/Hauser-OK)

**TUNISIA** Freq change for **RTT** in Arabic effective April 21:

0400-0700 NF 7190 (ex-7110)  
 1400-1900 NF 11950 (ex-11655)  
 1900-2300 NF 7190 (ex-7110)

(Ivo and Angel!, Observer, Bulgaria, April 23, via DX Listening Digest/Hauser-OK)

**UNITED STATES OF AMERICA WINB** on new 9319.91, April 14 \*0102-0305+; sign on with ID and into English religious programming. Gospel music; "Way of Truth," "Word of the Spirit" and others. These guys do not ID very often. Only ID heard was at sign-on and at 0301. Very good. Also heard April 13 at 0150-0230+ (Brian Alexander, Mechanicsburg, PA, DX Listening Digest/Hauser-OK)

**WWRB**, April 13 2210-2400\* on 12172, English religious programming, ID at sign-off, announced switch to 5085; April 14 \*0003 on 5085, ID at sign-on and into English religious programming (Brian Alexander, PA, DX Listening Digest/Hauser-OK)

**Radio Free Asia** uses IBB transmitters in BIB=Biblis Germany, HOL=Holzkirchen Germany, IRA=Iranawila Sri Lanka, SAI=Saipan and TIN=Timian N Mariana Isls. And Merlin relays TWN=Taiwan and UAE=Al Dhabayya-UAE. A-02 updated schedule of Apr 15.

0000-0100 Lao 12015I 13830 15545T  
 0030-0130 Burmese 13680T 15660 17525  
 17835S  
 0100-0200 Uighur #9350 11520 11895UAE  
 11945UAE 15405S  
 0100-0300 Tibetan 9365 11975H 11695UAE  
 15225T 15695 17730  
 0300-0600 Mandarin 13670T 13760T 15150T  
 15665T 17495 17525  
 17615S 17880S 21690T

0600-0700 Tibetan 17485 17510 17720  
 21500T 21690UAE  
 0600-0700 Mandarin 13670T 13760T 15150T  
 15665T 17495 17525  
 17615S 17880S  
 1100-1200 Lao 9355S 9545T 15560I 15635  
 1100-1300 Tibetan 7470 11590 13625T  
 15510UAE 15695 17855B-  
 (from 1200)  
 1230-1330 Cambodian 11520 13765I 15525T  
 1300-1400 Tibetan 7470 11590 13625T  
 15510UAE 15695 17855B  
 1300-1400 Burmese 9385 11765T 11540#  
 13745T  
 1400-1500 Vietnamese 9455S 9635T 9930W 11510  
 11520 11605N 11765T  
 13775P 15705  
 1400-1500 Korean 7380 11790T 13625  
 13720T  
 1400-1500 Cantonese 9445S 11955S 13625T  
 1500-1600 Tibetan 7470 11510 11780UAE  
 13835  
 1500-1600 Mandarin 9905P 11765T 11945S  
 13625T 13690T 15510T  
 15680 17640T  
 1600-1700 Mandarin 9455S-(fr 1630) 9905P  
 11750T 11795T 11945S  
 13690T 15510T 15680  
 17640T  
 1600-1700 Uighur 7460 9370 9555UAE  
 9675UAE 13625T  
 1700-1800 Mandarin 9355S 9455S 9905P 11750T  
 11795T 11945S 13690T  
 15510T 15680 17640T  
 1800-1900 Mandarin 9355S 9455S 11520 11740T  
 11945S 11955T 13680T  
 15510T 15680 17640T  
 1900-2000 Mandarin 9355S 9455S 9905P 11520  
 11740T 11785T 11945S  
 11955T 13625T 13680T  
 15510T 15680  
 2000-2100 Mandarin 9355S 9455S 9905P 11520  
 11700T 11740T 11785T  
 11935S 13625T 13670T  
 15515T 15680  
 2100-2200 Cantonese 9355S 11785T 13675T  
 2100-2200 Mandarin 9455S 9910P 11700T  
 11740T 11935S 13625T  
 15515T 15680  
 2200-2300 Korean 7460 9455T 11670S 11935S  
 2200-2300 Cantonese 9355S 9955P 11785T  
 13675T  
 2230-2330 Cambodian 9930P 11570 15175I  
 15485T  
 2300-2359 Tibetan 7470 9365# 9805UAE  
 9875H 15695  
 2300-2359 Mandarin 9910P 11785T 13800S  
 15430T 15550T 15680  
 2330-0029 Vietnamese 11540 11560 11580  
 11605N 11670T 13720S  
 15560P



(various sources, updated on Apr 15, 2002 by Wolfgang Bueschel, DX Listening Digest/Hauser-OK)

**Radio Marti**, all in Spanish

|           |                         |
|-----------|-------------------------|
| 0000-0300 | 6030 7365 11775 15330   |
| 0200-0300 | 6030 7365 11775 15330   |
| 0300-0400 | 6030 7365 7405 11775    |
| 0400-0600 | 6030 7405 9805 11775    |
| 0500-0600 | 6030 9805 11775         |
| 0600-0700 | 6030 7405 9805 11775    |
| 0700-0900 | 5980 6030 7405 9805     |
| 0900-1200 | 5980 6030 9565 9805     |
| 1200-1300 | 9565 9805 13820         |
| 1300-1400 | 7405 11845 13630 13820  |
| 1400-1700 | 11845 11930 13630 13820 |
| 1700-2100 | 9565 11930 13630 13820  |
| 2100-2200 | 9565 11930 13820 21500  |
| 2200-2300 | 6030 11930 13820 15330  |
| 2300-2400 | 6030 7365 13820         |

(via Oscar, FL, DX Listening Digest/Hauser-OK)

**Radio Liberty** to N. Caucasus in Russian/Aviri/Chechen/Cherkessi (each 15 mins):

|           |                              |
|-----------|------------------------------|
| 0400-0500 | 9850 BIB 11760 KAV 15355 HOL |
| 1700-1800 | 9810 KAV 11760 BIB 15350 LAM |

(Observer, Bulgaria, April 9 via DX Listening Digest/Hauser-OK)

Some freq changes for **Voice of America**:

|           |           |  |
|-----------|-----------|--|
| 0030-0100 | Hindi     | NF 9680, ex 9585                             |
| 0400-0500 | Ukrainian | NF 7115, ex 7245                             |
| 0400-0500 | Ukrainian | NF 9710, ex9560                              |
| 1230-1300 | Uzbek     | NF 19015 ex 19000 //<br>12140 15120          |
| 1300-1400 | Korean    | NF 7260 ex 7290                              |
| 1500-1530 | Uzbek     | NF 7265 NF 15580, ex 7275<br>15185 // 17785* |
| 1600-1700 | Kurdish   | NF 17765, ex 11975                           |
| 1630-1700 | Hindi     | NF 11695, ex 12075                           |
| 1700-1730 | Serbian   | NF 15245, ex 15545                           |
| 1730-1800 | Hindi     | NF 11695, ex 12075                           |
| 2000-2030 | Ukrainian | NF 7190, ex 15255                            |

(Ivo and Angel!, Observer, Bulgaria, April 23, via DX Listening Digest/Hauser-OK)

Papers were signed and money changed hands yesterday afternoon and as of 9:00am this morning WJCR became the property of Word Broadcasting, **WJIE!** First broadcast day under new ownership is sked for Sunday the 28th but may be sooner if I can get the 7490 transmitter back up to full power tomorrow! They plan on using only the 7490 frequency initially. May put 13595 back on using the old 270 degree antenna later in the season. They have not as yet gotten any means of program delivery established between their studios in Louisville and the transmitter site in Upton. They had been talking about an ISDN or maybe a Switch-56 landline interconnect because the 68 mile long path was too much for a microwave STL link (Larry Baysinger, KY, Apr 25, Cumbre DX)

**URUGUAY** 6140 **Radio Montecarlo**, s/on noted 0900v and on this channel apparently on all local daylight and possibly early evening, though s/off couldn't be traced yet. Not there at 0100, for instance on Apr 24. 9595 and 11735 appear to be inactive. I personally wonder if the sked for SW will be affected in occasion of the coverage of the 2002 Soccer World Cup that begins in late May and will last for all Jun. Uruguayan team will be present on this occasion at Korea/Japan. Some matches are scheduled to start at 0630 (0330 URG time). If SW is activated or not on this possible overnight operation will evidence the interest of the station in the use of the SW. (Nigro-URU/Apr 24)

**VANUATU** At the end of November 2001 I visited the headquarters of **Radio Vanuatu** while on holiday in Port Vila. The transmitter site is on Emtan Lagoon about 5 kilometres south east of Port Vila. The site houses a transmitter building containing two short wave and one medium wave transmitter and their associated antennas. The programs are broadcast on short wave from a 10kW two channel Energy Onix Broadcast Transmitter Model HF-10K-2 tuned to 4960 and 7260. The signal is fed via coaxial cable to dipole antennas directed north and south to the islands in the group.

7260 is principally used from 1900 until 0600 hours, switching to 4960 at 0600 until the end of the transmission at 1115 (Sundays 1000). If one of the channels develops a fault, as happened while I was there, the other frequency acts as the standby. There is a standby transmitter tuned to 3945 kilohertz, but this is currently out of service because of shortage of spare parts to make it operational, and the date for its return to service is unknown (George Brown, Scotland, DSWCI DX Window Mar 27 via DX Listening Digest/Hauser-OK)

**VIETNAM Voice of Vietnam** A02 schedule

|           |            |             |
|-----------|------------|-------------|
| 0000-0030 | Khmer      | 7285        |
| 0000-0100 | Vietnamese | 11640 13740 |
| 0030-0100 | Lao        | 7285        |
| 0100-0130 | English    | 6175S       |
| 0130-0230 | Vietnamese | 6175S       |
| 0230-0300 | English    | 6175S       |
| 0300-0400 | Spanish    | 6175S       |
| 0400-0500 | Vietnamese | 6175S       |
| 0830-0930 | Mandarin   | 12020 9840  |
| 0930-1000 | Indonesian | 12020 9840  |
| 1000-1030 | English    | 12020 9840  |
| 1030-1100 | Indonesian | 12020 9840  |
| 1100-1130 | Spanish    | 11640 13740 |
| 1100-1130 | English    | 7285        |
| 1130-1200 | Thai       | 7285        |
| 1130-1200 | Russian    | 11640 13740 |
| 1200-1230 | Japanese   | 12020 9840  |
| 1200-1230 | Khmer      | 7285        |
| 1230-1300 | Lao        | 7285        |
| 1230-1300 | English    | 12020 9840  |
| 1300-1330 | Russian    | 7285        |

|           |            |                   |
|-----------|------------|-------------------|
| 1300-1330 | French     | 11640 13740       |
| 1330-1400 | Khmere     | 7285              |
| 1330-1400 | English    | 11640 13740       |
| 1400-1430 | Japanese   | 12020 9840        |
| 1400-1430 | Lao        | 7285              |
| 1430-1500 | Mandarin   | 7285              |
| 1430-1500 | Indonesian | 12020 9840        |
| 1500-1530 | Thai       | 12020 9840        |
| 1500-1530 | Cantonese  | 7285              |
| 1530-1600 | Cantonese  | 12020 9840        |
| 1600-1630 | English    | 11640 13740       |
| 1630-1700 | Russian    | 11640 13740       |
| 1700-1800 | Vietnamese | 9725M 11640 13740 |
| 1800-1830 | English    | 9725M 11640 13740 |
| 1800-1830 | English    | 11640 13740       |
| 1830-1900 | French     | 11640 13740       |
| 1830-1900 | French     | 9725M             |
| 1900-1930 | English    | 11640 13740       |
| 1900-1930 | Russian    | 9725K             |
| 1900-1930 | English    | 11640 13740       |
| 1930-2000 | French     | 11640 13740       |
| 1930-2030 | Vietnamese | 9725K             |
| 2000-2030 | Spanish    | 11640 13740       |
| 2030-2100 | English    | 11640 13740       |
| 2100-2130 | French     | 11640 13740       |
| 2130-2200 | Japanese   | 12020 9840        |
| 2200-2230 | Mandarin   | 12020 9840        |
| 2230-2300 | Cantonese  | 12020 9840        |
| 2300-2330 | Thai       | 12020 9840        |
| 2330-0000 | English    | 12020 9840        |

#### Domestic Service Relays

|           |            |                              |
|-----------|------------|------------------------------|
| 0200-1000 | Vietnamese | 9875                         |
| 2200-1600 | Vietnamese | 5925 *5975 6020 7210<br>9530 |

\* 5975 is noted some days on 5970

Sign-off time is nominally 1600, but transmissions may close at different times, sometimes noted as early as 1400, and occasionally later than 1600. Close-down times for each channel may differ.

These relays carry VOV1 (News and Current Affairs), VOV2 (Economic/Social/Cultural/Education) and VOV4 (Ethnic minorities)

H'mong Service (VOV4) (Programs for ethnic minorities in Khmere, H'mong, Ede, Giarai Bana and Kedang)

|           |       |      |
|-----------|-------|------|
| 0500-0600 | Hmong | 6165 |
| 1200-1300 | Hmong | 5035 |
| 1200-1300 | Hmong | 6165 |
| 2200-2300 | Hmong | 6165 |
| 2200-2300 | Hmong | 5035 |

Note: 5035 is not normally used for the 0500 service (noon in Vietnam)

K=Skelton, UK

M=Moosbrun, Austria

S=Sackville, Canada

(Compiled: Bob Padula, Apr-24/EDX)

**UNIDENTIFIED** 5387.72 UNID LA. April 2002. Continues to be heard both mornings and evenings. The station needs more of hard work and has a pretty lousy signal and seldom give any ID as it seems. When not broadcasting purchased religious programs, like "LV de la Salvacin" and "Radio Universal de Vida," it is instead mostly nonstop religious music. I know now that the station is located in a "departamento" and in that case both Ecuador and Bolivia are out of the question. The only geographic name I have heard so far is "Costa Rica" said by a female vicar during mass, what it now can be worth. (Malm SWB via Nilsson Apr 21/Cumbre DX/Fleming)

5796 I have reported an unID earlier on 5796, and it's there with a very weak signal from 22 UT or earlier. I doubt it is anything genuine, probably a harmonic, in that case perhaps the fifth of 828. The language on 5796 sounds like Russian, but I can't be 100 pct. sure. Long programs of various music, including piano jazz, and also a radio play tonight, Mar 31 at 2300. Earlier in the week they were there at 0320, and I tried to compare with 828, be it was not in parallel with a Russian-speaking station on the qrg, which very much sounded like the Radio Svobodna—Radio Liberty format. And R Liberty is indeed listed in Herman Boel's EMWG. (from St. Petersburg with 10 kW). Other checks, with R Rossii and Mayak, showed different programs too. Or is this my rx playing tricks with me? 73 (Johan Berglund, Trollhattan, Sweden. AOR AR7030, K9AY, lw 60 m, hard-core-dx via DX Listening Digest/Hauser-OK)

6715 USB, mystery station; The Korean speaking religious station was operating Wednesday Mar 13 at 2112 and Sunday Mar 17 at 1940 (on air already) until sudden off 2018. This is a strange one (Green, UK and Groppazzi, Italy, DSWCI DX Window Mar 27 via DX Listening Digest/Hauser-OK)

On Friday Mar 15 I checked this frequency at about 2130 and there was nothing at all. At recheck at 2205 it was booming in. Perhaps it signs on around 2200 on Fridays? (Vashek Korinek, RSA, DSWCI DX Window Mar 27 via DX Listening Digest/Hauser-OK)

6715, UNID Korean Religious Station, 2302-2336\* Mar 29, first time hearing what others have been reporting. Generally poor signal with talks and religious vocals with broadcast terminated during a piano instrumental (Rich D'Angelo, PA, NASWA Flashsheet via DX Listening Digest/Hauser-OK)

Just came across an UNID Persian language station on 7300 kHz at 0930 UT. Not DW sce 9-930. Will check it further. Music and freq selection looks like Bulgaria, but latest schedule sent out by Ivo doesn't fit such a Persian service from Sofia (Wolfgang Buschel, Germany, March 31, DX Listening Digest/Hauser-OK)

# QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010


**QSL VERIFICATION**  
BHUTAN BROADCASTING SERVICE CORPORATION


Dear John L. Sgrulletta

Thank you for your reception report. We are pleased to verify your reception of our transmission.

Date: 10/07/2001 Time: 10:00 am

Frequency: 6035 kHz Power: 50 kW

 SIGNATURE

 OFFICIAL SEAL

**ABU DHABI: Radio Australia**

21780 via Al-Dhabbaya f/d "Kangaroo" cd. in 5 1/2 mo. (Craighead-KS).

**ANGOLA: Radio Nacional de**

\* Angola 11955.8 n/d ltr w/ postcard in 85 ds. for a PT rpt. and tape for \$1.00. (Klinck-NY).

**ANGUILLA: Caribbean Beacon**

6090 f/d "Studio" cd. in 8 mo. for a taped rpt. sent via registered mail. v/s Doris Mustington. (Tilbury-Alaska).

**ANTARCTICA (Argentine): LRA36 Radio Nacional Ancangel San Gabriel**

15476 f/d cd. in 6 mo. for a 1999 reception. Also sent \$5.00 and 2 IRCs via registered mail. Thanks to DXer Gabriel Ivan Barrera in Buenos Aires for help on this one. (Tilbury-Alaska).

**STATION INFO: Radio Borderhunter** 6290 Addr: P.O. Box 73, NL-7160 AB

Neede, Holland also 15794.9 w/ Addr: P.O. Box 44, B-2387 Bokkum, Belgium. **Radio Casablanca** 7120 via **IRRS** Addr: Alwin B, Ringstrasse

9, DE-26826 Stepelmoor Elms, Germany. **Radio Casanovas** 6240 same as Borderhunter. **Radio Cochiquaz** 6245 v/s Cachito Mamani, DJ. Addr: Casilla 159, Santiago, Chile. **Radio Kluzenaars** 6295 same as Borderhunter. **Radio Like-deeler** 6305 same as Borderhunter...via PLAY DX.

**"Radio Sicuani"**  
La Emisora Decana de Cuzco

Onda Corta Internacional  
CAX 7.1 - 4825 Kcs  
Banda de 62 mcs.

Onda Media  
CA X 7.1 R - 1355 Kcs.  
Banda Hectométrica.

**CERTIFICADO DE SINTONIA**

La Gerencia de Radio Sicuani - Cuzco - Perú, con la Dirección del Lic. Mario Ochoa Vargas y la Administración del Sr. Esau Gamarra Pino, otorgan la presente carta "QSL" de Verificación de sintonía de nuestra Onda Corta Internacional - banda de 80 metros, confirmando el reportaje de sintonía del Sr. JOHN L. SGRULLETTA de la ciudad de Nueva York EE UU de América; quién ha sintonizado el 21 de Mayo del 2000 nuestra ondas entre las 04 28 horas hasta las 04 59 horas.

Por lo que agradecemos su audiencia de la señal internacional de Radio Sicuani y otorgamos la presente certificación como testimonio de la sintonía.

Sicuani, 17 de Noviembre del 2001.

 Lic. Mario Ochoa Vargas  
Director

 Esau Gamarra Pino  
Administrador





Impresión: "VIT" S.R.L.

▲ Dos de Mayo 1º 2005 - Iserl 084-351136 - Fax 351697 Email Cccosca @ mail.casapicota.com.pe

**ASCENSION ISLAND: Radio Tele**

fis Eireann 21630 via English Bay f/d cd. in 43 ds. for 1 IRC. (Barbour). **BBC Atlantic Relay Station** 17830 ltr. in 7 wks. from Nicola Nicholls, Transmitter Engineer. (Field-MI).

**ASIATIC RUSSIA: Voice of Russia**

13665 via Petropavlovsk Kamchatsky f/d cd. in 1 mo. for an e-mail rpt. (Dybka-TN). 12065 via Komsomolsk for the Herald Broadcasting Network v/s Cindy Riehm. (Glotsbach).

**AUSTRALIA: Voice International**

21680 via Darwin f/d ltr. in 40 ds. for 2 IRC v/s Mrs. Lorna Manning, Site Adm. (Barbour-NH).





**AUSTRIA:** EDXC 9660 via Adventist  
 \* World Radio via Moosbrunn f/d  
 "Marconi Memorial" cd. w/ EDXC  
 info. in 42 ds. for 1 IRC. The  
 QSL came from Italy. (Barbour).  
**BELARUS:** Radio Minsk 7210 via Kal-  
odziscy stamped f/d "Hotel Ag-  
 at" cd. w/ sticker, calendar,  
 info. sheet and sticker in 26  
 ds. for 2 IRCs. (Barbour-NH).  
**BONAIRE:** Radio Vlaanderen Interna-  
tional 13700 f/d "Bragge 2002"  
 cd. in 17 ds. for 1 IRC. (Brouillette-IL).

**BOUGAINVILLE:** Radio Bougainville -  
North Solomons 3325 f/d prepared and stamped cd. in 3 mo. for a taped  
 rpt sent via registered mail. v/s Aloysius Rumina. (Tilbury-Alaska).

**We Get Letters:** Jerry Klinck in East Aurora, NY says that QSLs have  
 slowed down a bit. He wishes everyone a great Easter. Richard Law-  
renson in Tiverton, RI says he was very pleased with the QSL from  
 Mongolia. He got a QSL from BBC Thailand but originally thought it  
 was going to be from Oman. He'll try again. Scott Barbour in Inter-  
 vale, NH had a very productive QSL month. Scott lives very close to  
 Echo Lake State Park and Mount Washington....Nice area.  
 I camped at that park nearly 20 years ago....Sam.

**SUPER**

**CANADA:** Deutsche Welle 6040 via  
Sackville personal ltr. in 1 mo  
 from Selke Broper, Technical Ad-  
 visory Service telling me to send my rpts. to  
 D-50588 Koln address. (Field-MI). Radio Nederland  
 5965 via Sackville f/d "Nature" cd. w/ calendar,  
 sticker and newsltr in 98 ds. for 1 IRC. (Barbour)

**CLANDESTINE:** Radio Fithi (Tigrean International Sol-  
idarity for Justice and Democracy) 15700 via Ju-  
lich f/d ltr. in 4 mo. from Box 60040, Washington  
 DC 20039. (Craighead-KS). Fang Guang Ming Radio  
 5925 verified through the Transmitter Documenta-  
 tion Project Office in 68 ds. w/ f/d "Tower" cd.  
 presumably from Ludo Maes. (D'Angelo-PA).

**COSTA RICA:** Radio Casino 5954 ltr. in SP w/ pennant  
 \* in 258 ds. (Glottzbach-NM).

**CROATIA:** Hrvatska Radio 6165 via Deanovec f/d "Dish  
 Antenna and Building" cd. in 106 ds. for 1 IRC.  
 Schedule was rcvd. v/s Dane Pavlic. (Brouillette-IL). Hrvatska Radio  
Televizija 9830 via Deanovec personal ltr. w/ schedule in 228 ds.


**CUBA:** China Radio International 17720 via Habana f/d cd. (Glottzbach)  
 w/o site along w/ paper cut and a personal note. Stickers were also  
 rcvd. (Field-MI).




**CZECH REPUBLIC:** Radio  
Prague 21745 f/d cd.  
 in 1 mo. w/ station  
 pamphlet. (Field-MI).  
 f/d "Castle" cd. w/  
 booklet on the "65  
 Years of Radio Prague"  
 in 14 ds. for 1 IRC.  
 (Barbour-NH).

**EGYPT:** Radio Cairo  
 My rpt. and tape was  
 returned opened. This  
 is the 2nd time this  
 has happened and my  
 5th time trying to  
 verify Egypt. (Dybka).  
 Very unusual...Sam.

QSL

AWR  Adventist World Radio

QSL STAMPS

Date 21 May Time 1933-1943 kHz 15200, 17630, HRC

2001 1933-1943 17820

Program details / Resume de Emission

15200: Vienna relay (Austria)

17630: Hörby relay (Sweden)

17820: Wertachtal relay (Germany)

Name / Nom Mark Alexander Humenyk

Address / Adresse 26 Crestridge Heights Road

Weston, ON M9P 1A4

CANADA

Radio Canada International P.O. Box 6000/C.P. 6000 Montréal, Canada H3C 3A8

On December 12th, 1901 Guglielmo Marconi received the first transatlantic radio signal at Signal Hill, in St. John's, Newfoundland. Just a year before, on December 23rd, 1900, the Canadian inventor Réginald Fessenden became the first person to transmit the human voice via radio. These OSE card commemorates these important achievements in the history of radio.

ENGLAND: Salama Radio International 12025 p/d cd. w/ ltr. and station info. in 120 ds. (Klinck-NY). in 49 ds. for \$2.00 w/ sticker and a station calendar v/s Mr. Jacob Abdalla, Chairman. (Barbour-NH)... 12025 is via Skelton. 15475 via Woofferton p/d ltr. w/ schedule and sticker in 42

mo. Addr: Box 126, Chessington, Surrey KT9 2WJ. (Craighead-KS). 12025 and 15475 same in 2 mo. (Field-MI).

EURO PIRATE: Mike Radio 9290 f/d photo of their Rohde and Schwartz 750 \* watt transmitter in 150 ds. for \$1.00. (D'Angelo-PA).

EUROPEAN RUSSIA: Radio Studio Doma Radio Gardarika 5920 f/d cd. in 65 ds. \* for a taped rpt. and \$1.00. (Klinck-NY).

GERMANY: Radio Free Europe 11770 via Holzkirchen f/d cd. in 435 ds. v/s John Vodenik, VOA Delano Relay Station. (Glottzbach). Swiss Radio International 13790 via Julich f/d cd. in 2 mo. (Field-MI). SBO - Voice of Oromo Liberation 15715 via Julich f/d form ltr. in 3 wks. on my 3rd

STATION INFO: OBS Doha 17795 v/s Mohammed Jassem Al Qattar, Public Relations. Addr: P.O. Box 3939, Doha, Qatar. Deutsche Welle 17675 via Samara Addr: Technische Beratung, DE-50588 Köln, Germany. Radio Santec

11980 via Samara Addr P.O. Box 5643, DE-97006, Würzburg, Germany. Radio Vlaanderen International 9925 via Moscow Addr: Brussels Calling, BE-1043, Brussels, Belgium. True Light Station 9450 via Petro-pavlovsk v/s Richard E. Adams, Director of China Radio. Addr: 53 Min Chuan West Road, 9th floor, Taipei 10418, Taiwan ....via PLAY DX...Sam.

try. Addr: P.O. Box 51061, 13366 Berlin. (Field-MI). Radio Santec / Universelles Leben 11840 via Julich f/d "Dove" cd. w/ personal ltr., stickers and a boat load of religious materials in 14 ds. for \$2.00. v/s Ms. Janette Wood. (Barbour-NH). High Adventure Ministries 15715 via Julich cd. in 2 mo from the Toronto addr. (Field-MI).

GOA: All India Radio \* 11740 via Panaji f/d



DEPARTEMEN PENERANGAN REPUBLIK INDONESIA DIREKTORAT JENDERAL R.T.F. RADIO REPUBLIK INDONESIA STASIUN REGIONAL I TANJUNGPANGRAH

Jl. Gatot Subroto No. 26 Telp. (0711) 245772 - 262747 Kotak Pos 24 Kode Pos 35213

Bandar Lampung. 26 February 1998

Kepada Yth. : Richard A. D' Angelo 2216 Burkey Drive Wyomissing, PA 19610

Dengan hormat.

Saudara Richard, kami telah menerima surat anda pada hari Senin tanggal 23 February 1998, mengenai laporan RFI Bandar Lampung.

Pada saat itu anda mendengarkan RRI Bandar Lampung, Jum'at tanggal 6 February 1998 pukul 05.50 - 06.05 WIB, pada Frekwensi 88,36 meter dan dapat kami informasikan bahwa

- pukul 05.30 - kami menyiarkan kuliah subuh
05.50 - kami menghadirkan lagu selingan menjelang warta berita
06.00 - RRI Bandar Lampung ikut menyiarkan warta berita sentral dari RRI Jakarta

Untuk itu kami ucapkan terima kasih atas laporan penerimaan anda, dan kami cukup terkesan dengan hobby anda. Akhirnya salam kami untuk istri dan anak-anak anda serta teman-teman yang seahobby dengan anda.

Kepala Stasiun RRI Regional I Bandar Lampung.



M. NASIR AGUN, MBA NIP. 050016876

This is to certify that George Glatzack has successfully heard and sent a signal report to our station located at 11.9 mhz on Sept. 12, 1999 at 012 UTC This certificate is to show our appreciation for your help and support.

WWBS Radio, Macon, Georgia USA

*Glenn Kelly*

cd. in 6 mo. from A.K. Bhatnagar for a taped rpt. sent via registered mail to New Delhi. (Tilbury).

**GREECE: Voice of Greece** 17705 & 15630 f/d cd. w/ schedule in

3 wks. (Field-MI).

**HONDURAS: HRLW Radio Litoral** 4830 "City Skyline and Flying Saucers Radio" cd. w/ small paper flag, 3 page form ltr. and other goodies in 1 mo. v/s Mateo McCollum, Gerente. (Craighead-KS). 4832 p/d cd. w/ ltr. and prepared cd. in 164 ds. for a SP rpt. tape and \$1.00. (Klink-NY).

BARONIA GORGA, NEAR SHALABAD

Date: 15.8.99

OFFICIAL VERIFICATION OF RECEPTION

Station: Radio Kabul  
Location: Kabul, Afghanistan  
Frequency: 75225 Kc  
Power output: SUNW  
Type of antenna: D  
Transmission schedule:  
Available frequency: 18.12.97  
Ownership: State  
Remarks:  
Signed:

**ICELAND: Rikisutvarpid / Icelandic National Broadcasting Station** 13865 via **Reykjavik** stamped f/d "Blue Lagoon" cd. in 15 ds. for 1 IRC and a taped rpt. (Barbour-NH).

**STATION INFO: Radio Taipei International** 6280 v/s Miss Patricia Lin, Secretary. **Radio Ukraine**



**International** 5905 Addr: Vul Khreschchatyk 26, UKR-252001 Kiev, Ukraine. **Radio Telefis Eireann** 6155 via **Rampisham** Addr: RTE, Broadcasting Developments, Dublin 4, Ireland. **World Beacon Africa** 9675 via **Meyerton** Addr: 8133 Bay Meadows Way, Jacksonville, FL 32256. **Voice of the Mediterranean** 11770 via **Samara** Addr: P.O. Box 143, Valletta CMR 01, Malta .....via PLAY DX.....Sam.

**INDIA: All India Radio** 10330 via **Mumbai** f/d cd. in 9 mo. for a taped rpt. \* via registered mail. (Tilbury-Alaska).



RADIO FREE EUROPE  
RADIO LIBERTY

REF. R. INCORPORATED  
1261 CONNELL AVENUE 17TH  
FLOOR WASHINGTON, DC 20006  
TELEPHONE (202) 462-6900

LETTER OF VERIFICATION

Mr. Mark Alexander Humenyk  
26, Crestridge Heights Road  
Weston, Ont. M9P 1A4  
CANADA

26 June 2001

Dear Mr. Humenyk:

Thank you for your reception report of RFE/RL's programs, heard as follows:

22 May 2001:  
0217-0223 UTC in Russian on 9520 kHz. via Playa de Pals, Spain

Please accept this as full verification of your reception.

Yours truly,

*David Wakcutt*

David Wakcutt  
Broadcast Operations Liaison

**JAPAN: NHK** 9505 via **Yamata** f/d cd. in 1 mo. w/ schedule and calendar. (Field-MI).

**KOREA, PEOPLES DEMOCRATIC REPUBLIC OF: Voice of Korea** 11710 f/d "Monument" cd. w/ form ltr. schedule, magazines, 2 calendars, pennant and newsltr in 43 ds. for 1 IRC. (Barbour-NH). 11735 same stuff as above in 50 ds. for a rpt. "via Beijing". (Rugg-PQ).

**LIBERIA: ELWA Radio** 4760 p/d form ltr. in 52 ds. for \$2.00 via registered mail from the Ivory Coast maildrop. v/s Moses T. Nyantee, Station Manager and Sargbah Borkey, Chief Technician. (Barbour-NH).

**MEXICO: Radio Mil** 6010 ltr in SP w/ schedule, calendar, report forms and a f/d cd. in 1 mo. v/s Hector Garcia Bojorge,



DIA Alligator Head Ranch, Port Antonio, JAMAICA



PLACE STAMP HERE  
Post Card

FILE & WIRELESS (W.I.) LTD

WINSTON JAMAICA WI

NOV 29 1965

STATION 64K 43

ACTIVE ON 9928 MCS

NOV 29 1965 AT 2230 G

Thank you for your report.

75

Pub. by The Radio Trading Co., Ltd.  
Kingston, Jamaica, The W. I.  
111014

London, Printed and Made by the British Post Office

Gerry Klinck  
223 Parkers Road,  
Buffalo 20, N.Y.  
U.S.A.

Seccion DX. (Field-MI).

**MOLDOVA: Voice of Russia**  
7180 via Kishinyov f/d  
"Alexander Pushkin" cd.  
in 1 mo. for an e-mail  
rpt. (Dybka-TN).

**MONACO: Trans World Radio**  
9870 f/d "TWR Europe" cd  
w/ schedule and other  
materials in 73 ds. for  
1 IRC. v/s Ms. Beth Chi-  
ck. Report was sent to  
Monaco but the QSL came  
from Austria. (Barbour).

**NEW IRELAND: Radio New Ire-**  
**land** 3905 f/d ltr. in  
249 ds. (Glotzbach).

**NEW ZEALAND: Radio New Zealand International** 17675 cd. in 6 mo. w/ sch-  
edule, tourist info. and station sticker. (Field-MI).

**NORWAY: Radio Denmark** 13800 via Kvitsoy f/d cd. w/ sticker and schedule  
in 18 ds. (Glotzbach-NM). 17525 via Sveio f/d "Painting" cd. w/ sched-  
ule and sticker in 10 ds. v/s Erik Koie. This was for 1 IRC. (Barbour)

**NOTE:** Gerry Klinck sent in some ill-  
ustrations of Caribbean QSLs when  
a few of the Cable and Wireless  
outlets, and others, used to carry  
sporting events in the 60's.

**PERU: Radio Paucartambo** 5895 cd. w/

\* personal ltr. after 8 f/up rpts.  
in SP for a 1995 reception. Letter  
gave new freq. of 6520. (Field-MI).

\* **Radio San Antonio de Padua de Call-**  
**alli** 3375 n/d e-mail reply to 18  
DXers in 23 ds. for a SP rpt. and  
\$1.00. v/s Hno Rolando del Carpio  
Montalvo, Director. Addr: Apartado  
Postal 1817, Arequipa, Peru. E-mail: rсан antinio14@hotmail.com

\* Very pleased w/ this one. (D'Angelo-PA). **Radio Virgen del Carmen** 4886  
cd. in 1 mo. after a f/up rpt. in SP. v/s Jose Lopez A., Director.

\* Also rcvd. postcard. (Field-MI). **Radio Maranon** 4835 f/d "Logo" cd. w/  
ltr., wall calendar and 3 pocket calendars in 49 ds. for a SP rpt.

v/s Marco Rumiche Pur-  
izaca, Periodista. The  
package was sent via  
priority mail. Previ-  
ously I rcvd. e-mail  
QSL. (D'Angelo-PA).

**PHILIPPINES: Voice of**  
**America** 9760 f/d "Sao  
Tome" cd. in 40 ds.  
v/s John Vodenik. (Cle-  
ment-GA). 17820 f/d  
cd. in 1 mo. for SASE  
(Dybka-TN).

**PORTUGAL: Deutsche Welle**  
9640 via Sines f/d cd  
in 1 mo. (Field-MI).

**RWANDA: Deutsche Welle**  
15410 via Kigali f/d  
cd. in 1 mo. (Field).

**SLOVAKIA: Adventist Wor-**  
**ld Radio** 5955 f/d cd.  
"Kids Kard #1" w/ ltr  
for a boy in Spokane,  
WA (I mailed it to

TELECOMMUNICATIONS DEPARTMENT.  
P. O. Box 48,  
Nassau, Bahamas.

This is to verify the reception of our Transmission.

By Gerry Klinck

Date 18th June, 1965

Time 0:40 GMT

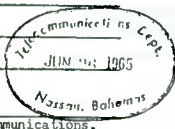
Frequency 3375 Ko/s

Emission A3

Power 500 W

Antenna DIPOLE

A. Keenleyside  
Director of Telecommunications.



CABLE & WIRELESS  
**ZNX**  
BARBADOS  
We confirm reception of ZNX  
by Mr. G. Klinck  
at 00:40 C.M.T. Date 18/6/65  
Many thanks for your report  
R. H. C. M. A.  
Engineer BOARDED HALL.

**QSL VERIFICATION**

**RADIO STATION** Voice of Broad Masses of Eritrea  
**TRANSMITTING FROM:** ASMARA-ERITREA

Dear MR. SAMUEL PARTO

We confirm with pleasure your reception report which conforms to the programs we broadcast. THANK YOU.

FREQUENCY: 7175 KHZ

Date 9.12.98 Time 0400-0410

LANGUAGE ARABIC

*Signature*  
 Signature

Official Seal



him). Maybe I'll get my QSL from him. All in 33 ds. for 1 IRC. (Barbour) Radio Slovakia International 5930 f/d cd. in 115 ds. (McGuire-MD).

**SOUTH AFRICA: Adventist**  
World Radio 9650 f/d cd in 2 wks. w/ schedule. (Field-MI). same in 3 mo. from the London address. (Field). Trans World Radio 11640 via SENTECH f/d "Cape Town Transmitting Station" cd. w/ schedule in 41 ds. v/s Ms. Kathy Otto.

**STATION INFO:** The Russian Beacon 15475 v/s Jeff Johnson, Program Director. CWA155 Radio Banda Oriental 6155 v/s Nora San Martin, Directora. Addr: Sarandi 328, Sarandi del Yi, Duranzo, Uruguay. Radio Los Libertadores en Cristo 6270 v/s Pastor Julio C. Sanchez Bocanegra. Addr: Iglesia Evangelica Pentacostal, Sector Los Livertadores, Jiron San Martin s/n, Bagua Grande, Provincia de Utcubamba, Departamento de Amazonas, Peru. Bloemenkwekerij 6296 v/s Herbert Bloemen, Director. Addr: P.O. Box 145, NL-7160 AC Neede, Netherlands. Classic Rock Radio 7470 Addr: P.O. Box 663, NL-7900 AR Hoogeveen, Netherlands....  
 ... via Play DX... Sam.

**THE UNITED STATES ARMED FORCES RADIO AND TELEVISION SERVICE**

"THE VOICE OF INFORMATION AND EDUCATION"

1016 N. McCadden Place  
 Los Angeles 38, California



Thank you for your report of reception of AFRIS Programming Broadcast over Voice of America transmitter 6.1 ME on:

Frequency 6.1 ME Time - Date 0100 EST; 9 April 1991

Armed Forces Radio and Television Service  
 OFFICE OF INFORMATION & EDUCATION  
 DEPARTMENT OF DEFENSE



My original rpt. was sent via registered mail w/ 3 IRCs to TWR Swaziland addr. (Barbour-NH).

**SRI LANKA: Deutsche Welle** 11965 f/d cd. in 1 mo. (Field-MI). Voice of America 11820 via Irawanala f/d "Satellite Dishes" cd. in 42 ds. v/s John Vodenik. (Wilkins-MO).

**TINIAN: Voice of America** 15150 f/d cd. in 1 mo. for SASE. v/s John Vodenik, Delano Transmitting Station. (Dybka-TN).

**TURKEY: Voice of Turkey** 6020 f/d "Souvenirs" cd. w/ schedule in 75 ds. for 1 IRC. (Barbour-NH). 17815 f/d "Turkish Woman" cd. w/ sticker and schedule in 35 ds. for 1 IRC. (Barbour-NH).

**USA: AFRTS** 12689.5 via Key West, FL f/d ltr. in 84 ds. v/s April Ball, Broadcast Operations Specialist. (Barbour). WEWN 11875 f/d "Map" cd.

The Voice of Tanzania Zanzibar  
 Department of Broadcasting  
 P.O. Box 1178  
 Zanzibar  
 Tanzania  
 Tel: 31985/33718/32324 Fax: 31985



This QSL card certifies that you listened to The Voice of Tanzania Zanzibar on (date): FEB 16, 2001 AND FEB 24, 2001  
 at (time): 1742-1812 AND 1948-2018 UTC / local,  
 on a frequency of: 11.734 KHZ.  
 Transmitter location: ZANZIBAR

Voice of Tanzania Zanzibar has a personnel number of 178. We run our transmitter 15 hours a day from 8:00 o'clock to 9:00 o'clock in the morning and later from 12:00 noon to 24:00 o'clock midnight. We have a 50 KW SW transmitter and a 50 KW MW transmitter located 5 km apart.

This card was designed and donated to Voice of Tanzania - Zanzibar by Guido Schotmans, Antwerp, Belgium.

DEAR MR EDWARD L. TILBURY  
 This to confirm that your Reception report is correct and come to you from Saudi ya Tanzania Zanzibar.  
 Voice of Tanzania Zanzibar broadcasts on freq. 11735 KHZ, from 18:00 to 24:00 hours, our local time everyday.  
 Our programming are in Kiswahili language.  
 Transmitter Power is 50KW China Made.  
 Enjoy our station. Thanks.  
 Yours Transmitter SW Incharge  
 Khalid Hassan Rajab

*Signature*

AHSANTE SANA, KARIBU ZANZIBAR

Radio Rainbow  
 Pitt Ross & R.P.  
 Radio Arc-En-Ciel

C/o P.O.Box 140 104, 53056 BONN, GERMANY

Bonn, 24.11.2001

Dear Richard

Thank you so much for sending your reception report from 9<sup>th</sup> of November 2001 of our radio transmission. Please inform the Ethiopian people around you - if any- about the station.

Once again, our grateful thanks.

Yours sincerely

T. Asselin

in 57 ds. v/s Shirley Ardayay. (Barbour-NH). **WTJC** 9370 f/d "Beacon" cd. w/ sticker, schedule & other info. in 9 ds. for SASE (not used) v/s David Robinson, Chief Engineer. (Barbour-NH). **WYFR** 5810 f/d "Globe and Staff Photo" cd. w/ schedule and calendar in 15 ds. (Barbour-NH).

**USA (Pirates): Mystery Science Radio 6925** f/d QSL sheet in 3 wks. for a rpt. to the Elkhoen, NE mail-drop. Also rcvd. station bumper sticker. (Wilkins-MO). **Kdaze** 6925 f/d "Ren and Stimp" personalized QSL sheet via e-mail in 1 day for a rpt. to: kdaze6955@yahoo.com. (Wilkins-MO).

**VATICAN: Radio Vatican** 9605 and 7305 f/d cd. in 1 mo. (Field-MI). **Swiss Radio International** 6165 f/d cd. w/ site in 1 mo. (Field)...Lots of stuff in the news lately about the behavior of certain priests. Maybe they should be put in a cell with a guy named Bubba and handed a bar of "Pope on a Rope" soap and taken to the shower.

**NOTES: Ed Tilbury** says reception has been poor in Alaska this past winter. His only activity has been to send some f/up rpts. Better luck

next season...Sam. **Andy Rugg** checks in from north of the border that he is extremely pleased with the QSL from Voice of Korea in Pyongyang. After all he has been trying for 15 years. **Jerry Klinck** says its been wild and windy in East Aurora, NY. Haven't lost any antennas but lots of branches are down. One gust was 76 mph. **Scott Bar-**

**bour** in NH says the package he received from North Korea was one of the largest he has ever received while DXing. It was full of all kinds of goodies. Reports are still out to the Solomons, Ghana and Mongolia. Hope to hear from them soon.

Best of QSLing. Till next time.....

Sam

| Date                                   | Time      | Freq  | Name / Nom        |
|--|-----------|-------|-------------------|
| 15 Dec.                                | Heure     | kHz   |                   |
| 2001                                   | 2240-2252 | 11600 | Samuel Barto      |
| Program details / Resume de l'emission |           |       | Address / Adresse |
| 6045: Skelton relay                    |           |       | 47 Prospect Place |
| 9805: Fluro relay                      |           |       | Bristol, CT 06010 |
| 11600: Norby relay                     |           |       | U.S.A.            |
| Radio Canada International             |           |       |                   |





# Net Notes

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

The popular media show DX Party Line on HCJB, Quito, Ecuador, now has a new, unique, Web address of <http://dxpl.hcjb.org/>. The old address of <http://www.hcjb.org/english/dxpl.php> just leads to a blank page with no clue of where to turn to, so be sure to change your bookmarks/favourites entry.

LRA36, the Argentine station in Antarctica on 15476 kHz has been widely heard prior to its late afternoon sign-off. The Web pages with images have changed. Check [http://www.ejercito.mil.ar/antarti/base\\_esperan/Fotos\\_Activid/pages/lra36\\_jpg.htm](http://www.ejercito.mil.ar/antarti/base_esperan/Fotos_Activid/pages/lra36_jpg.htm) and [http://www.fcapi.com.ar/esperanza/pagina\\_otras.htm](http://www.fcapi.com.ar/esperanza/pagina_otras.htm) for the latest images of the frozen continent.

Kim Elliott has closed Communications World aired on the Voice of America, but for the time being we continue to host the Web site at <http://www.trsc.com/cw>. If you wish to capture or archive some of the information from some of the scripts, please do so sooner than later. We're not sure how much longer the pages will continue to be available.

Do you use the Windows' Total Re-

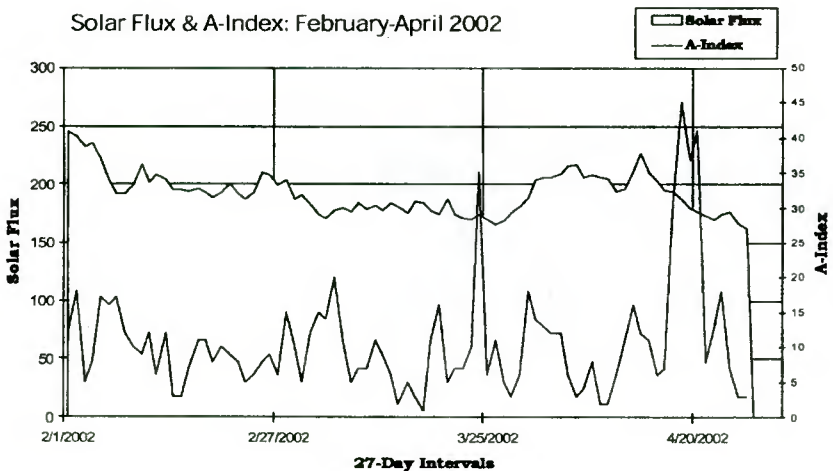
order program to capture audio from the sound card? It's a good program. Version 3.4 was just released. See <http://www.highcriteria.com/> for details.

Late April frequency changes from WWCR, Nashville: 15685 moves to 15825, and 7435 moves to 7465. Both changes were required to resolve interference problems in the target area. See the schedule at <http://www.wwcr.com/> for full details.

The Armed Forces Network (AFN) relaying broadcasts on SSB has never been one for disclosing accurate schedule information, but if programming is your bag check out <http://www.myafn.net/>. It seems listener-oriented and may be more responsive to inquiries.

We enjoyed some good reception conditions in early April, and added 8 new audio clips to the collection. Check them out at <http://www.trsc.com/audio.html>; you'll need a RealAudio Player. Most, if not all of the recordings were made with the TenTec RX-350 receiver. One is a stereo recording with the NRD-525 on the left channel; the RX-350, on the right.

Solar Flux & A-Index: February-April 2002



# Contributors' Page

Bob Montgomery • P.O. Box 1458 • Levittown, PA 19058 • RMonty3@worldnet.att.net

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

The following members sent in contributions:

|  |  |
|--|--|
| <b>Brian ALEXANDER</b> , Mechanicsburg, PA | NRD-545 AOR AR-7030 100' LW                        |
| <b>Sean BARBOUR</b> , NH                   | ATS 818, RS antenna system                         |
| <b>Jerry BERG</b> , Lexington, MA          | R8A 165' LW  |
| <b>Ralph BRANDI</b> , Tinton Falls, NJ     | AOR7030, R8, 250' longwire                         |
| <b>Paul BROUILLETTE</b> , Geneva, IL       | Drake R8, ICF2010, 60' long wire                   |
| <b>Peter COSTELLO</b> , Matawan, NJ        | AR3030 DX-390 YB400 70' LW Tun-4A                  |
| <b>Rich D'ANGELO</b> , Wyomissing, PA      | Drake R8B, Lowe HF-150, DX Sloper                  |
| <b>Mark FINE</b> , Remington, VA           | Drake R8A, 150' longwire                           |
| <b>Bob FRASER</b> , Cohasset, MA           | Sony ICF-2003 ICF-SW100S 2m LW                     |
| <b>George MAROTI</b> , Mt. Kisco, NY       | R8B, 2010, 30/45 m. dipoles                        |
| <b>William McGUIRE</b> , Cheverly, MD      | DX-380   |
| <b>Bob MONTGOMERY</b> , Levittown, PA      | NRD535D, R390A, RX-320, HF150, SE3, active antenna |
| <b>Ed NEWBURY</b> , Kimball, NE            | WJ-1000, R8, 60' sloper, 20' loop                  |
| <b>Mike PACE</b> , Tipton, IA              | Drake SW2, MFJ1022                                 |
| <b>Earl URBELIS</b> , Kings Park, NY       | Kenwood TS940, Yaesu FT-980, Antron 99 ant.        |
| <b>Gerald WITHAM</b> , Keaau, HI           | R8, 185' split LW, ANC-4                           |
| <b>Dan ZIOLKOWSKI</b> , Franklin, WI       | RX320, 100' wire antenna                           |

Next month there will be a new tropical band editor. Sheryl has done a tremendous job over the years. I am sorry to see her move on. Not sure how she managed it for so long. A job well done!

73


Bob Montgomery



# Tropical Band Loggings

Sheryl Paszkiewicz • 314 Riverview Drive, Apt 16 • Manitowoc, WI 54220 • spaszkwicz@yahoo.com

**SPECIAL ANNOUNCEMENT:** The time has come. I am stepping down as tropical bands editor effective immediately. I've done it for 13½ years and it's time to let someone else take the reins. I really appreciate all the support you've given me all this time and I've made some great friends. At this time I don't know who my replacement will be, but I hope you will give him the support you've shown me. Thank you. I am still doing the *NASWA Flash Sheet*. If you haven't signed up yet, email Rich D'Angelo with your email address as he is the one who distributes it after I edit it.

- 2310 **AUSTRALIA ABC**, 3/25 1146, EG vocals, poor //2325 & 2485 (Line-KS)  
 3205 **NEW GUINEA R. Saundaun** 3/30 1155, Vern pops, fair (Lineback-KS)  
 3235 **NEW BRITAIN R. West** 3/25 1151, trad. singing w/drums (Lineback-KS)  
 3245 **PAPUA R. Gulf** 3/25 1140, Vern pops, poor (Lineback-KS)  
 3265 **SULAWESI RRI Gorontalo** 3/30 1158, Indo pops, poor (Lineback-KS)  
 3275 **PAPUA R. Southern Highlands** 3/26 1132, OM in Vern, (Lineback-KS)  
 3315 **ADMIRALITY IS R. Manua** 3/25 1139-1202\*, Vern pops, poor w/rapid fade, rising to fair by 1200, s/o w/NA (Lineback-KS) 4/5 1025 talk in English, ID "Radio Manus" @ 1031; spring is here.... (Brandi-NJ)  
 3325 **KALIMANTAN RRI Palangkaraya** 3/25 1205, RRI nx by OM, (Lineback-KS)  
 3345 **MOLUCCAS RRI Ternate 1157** 3/30, Indo pops, fair (Lineback-KS)  
 3350 **COSTA RICA REE** 4/1 0215 SP dialog //9540 (Paszkwicz-WI)  
 3366. **GHANA BC Corp** 4/5 2315f Amazing reception at this time. Almost crystal clear reception in EE. Male preacher with long talks. S8 signal level. Fades to S6. 2317 hymn sung by group of with an upbeat tone. //3446.(Mont-PA)  
 3905 **NEW IRELAND RNI** 3/26 1133, Vern pops, poor (Lineback-KS)  
 3976 **KALIMANTAN RRI Pontianak** 3/30 1158, Indo pops, poor (Lineback-KS)  
 4000.1 **SULAWESI RRI Kendari** 3/30 1158, Indo pops, fair (Lineback-KS)  
 4716.8 **BOLIVIA R. Yura** 4/9 0022t Very nice music at tune in with signal level of S6. One tune after another with out comments from announcer. (Mont-PA)  
 4753.4 **SULAWESI RRI Makassar** 3/18 not heard since 3-18-02 (Line-KS)  
 4760 **INDIA AIR unknown location** 3/30 1206, Subcont mx, poor rising to fair by 1215 then fading, Delhi not audible, (Lineback-KS)  
 4789 **IRIAN JAYA RRI Fak-Fak** 3/30 1159, Indo pops, poor (Lineback-KS)  
 4874.6 **IRIAN JAYA RRI Sorong** 3/26 1134, Indo pops, poor (Lineback-KS)  
 4890 **PAPUA NBC** 3/30 1156, EG pops, fair (Lineback-KS)  
 4919 **ECUADOR R Quito** 4/4 0832-0922, Latin vocals hosted by a woman with Spanish talk and frequent IDs ("Radio Quito, la voz de la capital") and ads. good signal. (D'Angelo-PA)  
 4960 **SÃO TOME VOA Pinheira** 4/6 0420-0434 Apr 6, man hosting a pop music program with VOA News Now ID and frequency announcements. Feature on health of Chesapeake Bay watershed followed. Fair signal but noisy (D'An)  
 5015 **BRAZIL R. Pioneira** 3/24 no-frills s/on at 0800 with call ltrs and fqys, ID, inspirational msg, into mx prgm. (Berg-MA)  
 5019.91 **SOLOMON ISLANDS Solomon Islands Broadcasting Corporation** 4/5 1056 religious program, prayer in English by minister from local church, ID @ 1059, station about to close, "on behalf of all of us at SIBC, good night", more IDs, frequency announcements, will resume transmissions tomorrow at 6 o'clock, NA, BBCWS pgm (Brandi-NJ) 1157 Apr 9, BBCWS (Line)  
 5025 **BENIN Radio Parakou** 4/10 2230 music, announcements in French, ID @ 2300, then into national anthem, and off, revealing Rebelde (Brandi-NJ) 



# International Band Loggings


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

- 59576v **COLOMBIA Caracol** Villavicencio in SP 1000, int'l/local nx, ads, signal drift, g (Berg MA 3/17)  
 5965 **CANADA R Netherlands** relay in EG \*1130, ID, "Newline", rpt on cloning, g (McGuire MD 3/21)  
 5975 **ANTIGUA BBC** relay in EG 2308, race relations and how people in Afghanistan relate (Face IA 3/15)  
 5985 **CONGO R Congo** in FR 2222, great mx, TC, short ancmts, ad, ID, g w/fades (Montgomery PA 4/7)  
 5995 **MALI R Mali** in FR 0606, African pop mx, many ID's, ancmts, tlks, //47829 (Brandt NJ 4/8)  
 60454 **PERU R Santa Rosa** in SP 0945, OA mx, ads, ID 0954, more mx (Brandt NJ 3/15) ED: only 3 kw.  
 6100nf **LIBERIA R Liberia Int** Monrovia in EG \*0625, mx prior to s/on, NA, ID w/low audio, fqy, long pgm preview, upbeat mx, QRN, QRM, problem of good mx audio, bad voice audio (Berg MA 3/30)  
 61348 **BOLIVIA R Santa Cruz** in SP 0958, mx, ID right at 0958 tune-in (Brandt NJ 3/15)  
 6155 **UNITED KINGDOM R Telefis Eireann** relay via Rampisham in EG \*0130, ID, nat'l nx, sports data, traffic reports, g (McGuire MD 3/20)  
 6165 **CROATIA Croatian Radio** in CR 2235, pop vcls in various langs, ID's, nx, f-g (D'Angelo PA 3/29)  
 6350usb **HAWAII Armed Forces Net** in EG 0831, CNN nx, promos, Consumer Report's tests for DVD players ID, "Speaking of Health", f (D'Angelo PA 3/20)  
 7155 **RUSSIA VOR** Novosibirsk in Farsi 1645, mx, cmntry, panpipe nx, IS, ID, g, //9360 (Witham HI 3/9)  
 7130v **ALBANIA R Tirana** in EG 2130, sked, fqys, nx, ID, fqy drift from 71265 up to 71301, then floated around listed fqy 7130 (Brandt NJ 4/13)  
 7200 **RUSSIA Sakha Radio** Yakutsk in RS 0900, R Rossii prgmg to 0910, into local pgms to beyond 1030, organ IS, weak ID, OM saying "Execute" which seems to be part of their regular opening, tlks, nx?, ad stringers, lite instrum'tls, co-channel QRM, fqy a mess by 1015, //7345 (Berg MA 3/21)  
 7210 **BELARUS R Minsk** in EG 0300, nx, cmntry, tlks, g, in EG except TU/TH (Urbelis NY)  
 72103 **BENIN R Benin** Cotonou in FR 2203-2301\*, Afro pop/rap mx, ancmts, ID "R Nacionale", phone-ins, orchestral NA at s/off (Brandt NJ 4/6, D'Angelo PA 3/17, Montgomery PA 4/7) in FR \*0556-0615+, local drums, NA at s/on, tlk, ID 0600, variety of pop mx, g (Alexander PA 3/24)  
 72168v **ANGOLA R Nac de Angola** in PT 2301, nx, mx, tlks, ID's, lots of ham QRM (Brandt NJ 4/13)  
 7255 **MOROCCO VOA** relay in EG 0100, IS, ID, "News Now", rpt on Middle East, g (McGuire MD 3/20)  
 7325 **LITHUANIA R Vilnius** Sitkunai in EG 0035, nx, ID, rpt on tourism in Latvia, g (McGuire MD 3/27)  
 7370 **UKRAINE R Ukraine Int** Simferopol in EG 0100, IS, nx, pgm re lcl culture, lcl folk mx, return fqy, (Alexander PA 3/30) in EG 0400, IS, ID, nat'l nx, tlk re Ukrainian parliament, g (McGuire MD 3/27)  
 9520 **PHILIPPINES R Veritas Asia** in EG/CH 0940, ezl mx w/o ancmts, full ID in EG 0959, into xmsn in Mandarin at 1000, exc w/slight polar flutter (Brandt NJ 3/28)  
 9550nf **CONGO R Okapi** Kinshasa in FR/SH/vern 2035-2250+, new UN-Hirondelle station in USB, "Okapi" jingle ID, soul-type or Afro vcls, crisp audio cut thru QRM from Cuba, fades, signal improves over evening and was dominant over Cuba at 0145, 10 kw ?? xmtr rptd (Berg MA 3/18, Maroti NY 3/17)  
 9570 **CHINA China National Radio** Xi'an in EG 1745, interview w/welfare recipient, tlk re volunteer taxi drivers offering free rides to the poor, radio travelog, f (Witham HI 3/21)  
 9655 **TURKEY V of Turkey** in EG \*2300, IS, ID, tlk re TK EU membership hopes (Brouillette IL 3/10)  
 9660 **AUSTRIA AWR V of Hope** relay in EG 2100, Bible programs, ID's, request QSLs, g (Urbelis NY)  
 9705 **IRAN VOIRI** Kamalabad in RS 1610, tlk over mx, ID, many ments USA, f, //11785 (Witham HI 3/9)  
 97057 **NIGER LV du Sahel** Niamey in FR 2222, Cuban mx, ID, phone calls, into AR Qu'ran?, NA matching Internet version, brief test tone and off at 2300, wobbly carrier (Brandt NJ 4/13)  
 9737 **PARAGUAY R Nacional** Asuncion in SP 2300, nx, info, ads, ID's, ranchera mx, g (Urbelis NY)  
 9750 **SRI LANKA VOA** relay in Pashto \*0100, ID, IS, regional nx, g (McGuire MD 3/27)  
 9765 **CANADA Deut Welle** relay in EG 0115, rpt on elections in Portugal, ID, g (McGuire MD 3/19)  
 9800 **BULGARIA Radio Varna** in BG 0104, pop mx w/YL DJ, ID's, low modulation (D'Angelo PA 4/1)  
 9850 **GERMANY Deut Welle** Wertachtel in TK 0628, IS, ID, web site, nx, //11680 (Witham HI 3/6)

- 9860 **RUSSIA VO Russia** via Armavir relay 0245, DX feature profiling stations in Chile, ID, nx briefs (Brouillette IL 3/6)
- 9875 **LITHUANIA R Vilnius** Sitkunai in EG 2330, ID, political nx, rpt on poverty, "Welcome to Easter Monday", story of town w/Franciscan church (McGuire MD 3/12, Newbury NE 4/1)
- 11550 **TAIWAN R Australia** relay in IN 2200-2255, nx, tlks, EG lessons daily at 2230, g (Urbelis NY)
- 11580 **NO MARIANAS KFBS Saipan** in EG/Mandarin 1203, EG lessons using Bible verses, into total Mandarin 1208, mx, nx 1215, many ments Hong Kong, choppy sig, f-p (Brbour NH 3/26)
- 11665 **FRANCE RFI** Issoudin in Farsi/FR 1620, tlks, interview, into FR 1630, //13580 (Witham HI 3/9)
- 11675 **NEW ZEALAND NZ Forces Radio** relay in EG 1105, new weekend prgms for NZ Defense Forces overseas, military-related nx etc. (Berg MA 3/23) regular pgming in EG hrd at 1036 w/discussion of Impressionist painters, paintings, and personalities, exc (Newbury NE 4/1)
- 11690 **FINLAND Scandinavian Weekend Radio** in FN 2310, twangy guitar, C&W mx, Johnny Cash and "Ring of Fire", phone #, much QRM, R Vilnius took over fqy 2400 (Berg MA)
- 11720 **FINLAND Scandinavian Weekend Radio** in FN 0034, soul mx, phone #, website, obliterated by WYFR tuning up at 0048 (Brandi NJ 4/6)
- 11755 **GUAM KSDA Adventist World R** relay in EG \*1330, relig tlk and mx, ID, UK and Guam addresses, fqy, target areas, website, off at 1400, rough copy (Barbour NH 3/4)
- 11765 **ALASKA KNLS** Anchor Point in EG \*0800, IS, ID's, Bible pgms, req rpts, tlk on tourism, DX pgm, (Urbelis NY)
- 11800 **ITALY RAI** Rome in EG 0100, rpt on Europe facing a tidal wave of illegal immigrants (Fraser MA)
- 11825 **UNITED KINGDOM VOA** relay Wooferton in EG 0533, VOA "News Now", spec pgm re Japanese Shortwave Club and SWL in Japan, tlk re VOA JP service, req rpts to JP QTH (Berg MA 3/16)
- 11840 **GERMANY R Santec Universal Life** relay via Juelich in EG 1810, ID, QTH, contribution req, pgms: "The Words of Pastor Wayne" and "Original Christians" (Witham HI 3/8, Barbour NH 3/3)
- 11840usb **RUSSIA R Sakhalin** in RS 0900, break away from R Rossii programming for one hour of local pgmg, open w/piano melody, mostly mx and phone tlk, positive ID (Berg MA 3/22)
- 11905 **UZBEKISTAN R Tashkent** in EG 2310, nx, tlks, folk mx, g (Urbelis NY)
- 11960 **GUAM KSDA Adventist World R** relay in EG/JP 2100, ID's and fqs in EG/JP, into fanfare-type intro mx and special on Japanese Shortwave Club, all tlks between 3 JP OM's, ment "SW DX Digest", fanfare mx again at 2121 and return to regular prgmg, exc (Berg MA 3/17)
- 11970 **IRAN VOIRI** Kamalabad in EG \*0030-0132, ID, musical fanfare, Holy Koran recitation followed by nx, vg, andc // fqs as 6035 and 6065 but not heard tho //9610 hrd with vg signal (D'Angelo PA 4/3)
- 11995 **FRANCE RFI** Issoudin in FR 2142, ID, reference to Barnes & Noble, rock mx, g (Newbury NE 4/1)
- 12020 **VIETNAM V of Vietnam** Hanoi in EG \*1000, nx re VT women's union, pgm re music festival, ID at 1027\*, f-p (Barbour NH 3/22)
- 12040 **HUNGARY R Budapest** in HG 2350, M & W in lengthy discussion, occasional classical mx bridges, ID at s/off 2358, listed as weekly xmsn for So America (Brouillette IL 3/30)
- 12060 **RUSSIA VOR** via Armavir relay in PT 2340, tlk on medical research in Russia (Brouillette IL 3/30)
- 12070 **MADAGASCAR R Voice of Hope** relay in EG/AR \*0427, IS, ID, sked, nx on peace tlks, vernacular mx, xmtd only on Saturday - i.e. Friday nite in USA, g (Urbelis NY)
- 13605 **INDIA AIR** Bangalore in EG 1837, mx pgm, nx 1900 re Pakistan & terrorism, ID, cmntry re speaker of parliament, feature "Persons, Places, and Things", g, //15155 Aligarh (Barbour NH 3/5)
- 13680 **CANADA China Int R** relay Sackville in EG 2318, rpt on US "violations" of WTO rules (Fraser MA)
- 13685nf **AUSTRALIA Voice International** Darwin in EG \*1000, upbeat prgmg, nx, sports, wx rpts, preview of pgms, sked, fqs, promos, pop & Christian mx, ID, QTH, switch to 13635 at 1100 (Berg MA 4/3)
- 13700 **NETHERLAND ANTILLES R Vlaanderen** relay Bonaire in EG \*2230, "Radio World", feature on tourism, exc (Brouillette IL 3/10)
- 13820 **GERMANY United Methodist Church** relay Juelich in EG 1710, lively relig mx, rpt abt "A Peaceful Tomorrow", a group opposed to the war in Afghanistan and an appeal to help the refugees, f, //11735 (Witham HI 3/2)
- 13685 **ICELAND Iceland R** Reykjavik in IC \*1411, ID, fqy, nx, field rpts, s/off 1440 (Barbour NH 3/2)
- 15095 **PHILIPPINES FEBC** in Lisu 1420, tlk, IS (matched Kernick's website), pips (Brandi NJ 4/11)
- 15110 **KUWAIT R Kuwait** in EG 0500, nx, Islam tlks, pop mx mix, g, //11990 (Urbelis NY)
- 15190 **PHILIPPINES R Pilipinas** in IN 1745, political cmntry, econ nx, mx, laughter, f (Barbour NH 3/5)

- 15355 **OMAN R Sultanate of Oman** in EG/AR 0300-0358\*, Koran in AR w/EG translations on the recited verses, US pop mx, chimes, nx 0330, phone tlk, abruptly off 0358, f-g (Alexander PA 3/16)
- 154557 **PAKISTAN R Pakistan** Islamabad in EG 0006, cmntry on Pakistan's relationship with India, mx, ID at 0016, f (Fine VA 4/11) in lang?/EG 0205, ID & sked in EG, NA, off 0215 (Montgomery PA 4/11)
- 154755 **ANTARCTICA LRA36 R Nac Arcangel** San Gabriel in SP 2140-2210\*, continuous SP romantic ballads, tangoes, ID 2158, abrupt s/off's w/o ID on different days (Alexander PA 3/29, Brandi NJ 4/2)
- 15475 **RUSSIA R Rossii** Irkutsk in RS 0152, nice mx, no tlk until 0201, then ID, nx? (Montgomery PA 4/6)
- 15775nf **SRI LANKA VOA** relay in Oromo 1850-1900\*, nx, rpt on Palestine, IS, EG ID, replaces 15160, g (Witham HI 3/21)
- 17525 **NORWAY R Denmark** relay in DN 1430, ID at s/on, world nx, NA at 1455\*, vg (Barbour NH 3/8)
- 17795 **AUSTRALIA RA** in EG 2350, pgm on ocean pollution & overfishing, g (Brouillette IL 3/31)
- 17820 **PHILIPPINES VOA** relay in EG 2337, feature on increasing church attendance by teens in the USA, (Brouillette IL 3/31)
- 17835 **RWANDA Deut Welle** relay Kigali in EG 2117, nx abt Zimbabwe elections, rpt on anonymous reporter who fears reprisal (Newbury NE 3/9)
- 17850 **UNITED ARAB EMIRATES World Beacon** relay in EG 1815, ID, relig tlk, QTH in USA, website "African Beacon", p (Barbour NH 3/5)
- 17895 **MOROCCO VOA** relay in EG \*1700, ID for African service, rpt on Israel, g (McGuire MD 3/31)
- 17895 **AUSTRIA R Africa Int** relay in FR/EG \*1500, ID, fqys, mx singing of names of African countries, nx in FR, sports nx in EG, rap mx, f (Barbour NH 3/18)
- 20276 lsb **ARGENTINA R Rivadavia** feeder in SP 0210-0315+, tlks, brief mx breaks, promos, ads, pips 0230 & 0300, SP ballads, f, better on //15820 LSB (Alexander PA 3/30)
- 21550 **CHILE Voz Cristiana** Santiago in SP 1955, Christian women's pgm, seemed live (Brouillette IL 3/9)
- 21680 **AUSTRALIA Christian Voice** Darwin in EG 0035, ID, pop tunes, relig mx, g-f (Montgomery 3/28)
- 21700 **SPAIN R Ext de España** in SP 1930, live futbol coverage, local quality signal (Brouillette IL 3/9)
- 21705 **SAUDI ARABIA BSKSA** Riyadh in AR 1430, tlk w/background mx, street interview, lots of AR mx, abrupt s/off 1458 (Barbour NH 3/15)
- 25820 **FRANCE RFI** Issoudun in EG 1218, quiz pgm, tlks on future of radio, into FR 1230 (Barbour NH)

## Clandestine, Tentative, Presumed, Or Unknown

- 6715 **UNIDENTIFIED Korean Religious Station** in KR 2302-2336, tlks, relig vcls, bst abruptly terminated at 2336 during piano instrum't, apparently xmts on Fri only, rty QRM (D'Angelo 3/29, Berg 3/21)
- 7100 **IRAN V of Islamic Revolution of Iraq** relay in AR 0329, anthem?, military patriotic male chorus, recorded message, Koran?, long tlk w/background mx, AR mx (Barbour NH 3/7)
- 7130 **MADAGASCAR Zimbabwe V of the People** relay via R Nederland xmtrs in EG/verns \*0330-0430, new xmsn supplementing listed 1700-1830 (too early for ECNA), s/on w/brief instrum'ts, ED ID, very difficult to read due to QRM spillover and co-channel stns, website for details on VoP (Berg MA 3/23)
- 9785 **PHILIPPINES Clandestine R Free Afghanistan** relay in Dari 1750, tlks in lang, brief translation in EG about new weapons, s/off at 1800, g, //11920 f (Witham HI 3/21)
- 11000 **CHINA(p) CNR Beijing 6(p)** in CH 1247, tlk, EG pop tune, weak & jammed (Ziolkowski WI 3/17)
- 11570 **UNKNOWN SITE R Free Asia** in Cambodian 2318, oriental flute, string/percussion interludes, pgm sked 2325, YL vocals, abruptly off 2330 (Costello NJ 4/15)
- 12055 **UNIDENTIFIED Scandinavian-sounding lang** 0010, nx, tlk on current affairs (Brouillette IL 3/17)
- 17805 **GERMANY(p) Democratic V of Burma** relay Juelich(p) in Burmese? \*1430, chimes, bells, tent ID, fade out around 1515 (Barbour NH 3/1)
- 17525 **BULGARIA Clandestine Radio Sedaye (Radio Voice of Iran)** in Farsi \*1630-1730, ID, nx in Farsi, brief mx breaks, mainly tlks re Mideast events, good, faint background jamming (D'Angelo PA 3/31)
- 17750 **LIBYA(t) V of Africa** Tripoli in EG 0040, tlks re problems in the Mideast, into FR 0155, ID?, heard Under a second unknown station on same fqy, fair sig w/low audio (Montgomery PA 4/4) 



# English Schedules

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|           |        |                                  |           |           |           |           |           |           |  |
|-----------|--------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 0000-0007 |        | <b>SLBS, Sierra Leone</b>        | 3316.0do  |           |           |           |           |           |  |
| 0000-0015 |        | <b>V. of Cambodia</b>            | 11940.3as |           |           |           |           |           |  |
| 0000-0015 |        | <b>Radio Japan</b>               | 6145.0na  | 13650.0as | 17810.0as |           |           |           |  |
| 0000-0015 |        | <b>Radio Pakistan</b>            | 11580.0as | 15455.7as |           |           |           |           |  |
| 0000-0027 |        | <b>Radio Prague Int'l</b>        | 7345.0na  | 11615.0na |           |           |           |           |  |
| 0000-0030 |        | <b>Radio Australia</b>           | 9660.0pa  | 12080.0pa | 15240.0pa | 15415.0as | 17580.0pa | 17775.0as |  |
|           |        |                                  | 17795.0pa | 21725.0as |           |           |           |           |  |
| 0000-0030 |        | <b>Radio Cairo</b>               | 9900.0am  |           |           |           |           |           |  |
| 0000-0030 |        | <b>Sri Lanka B'casting Corp.</b> | 4940.0in  |           |           |           |           |           |  |
| 0000-0030 |        | <b>Radio Thailand</b>            | 9690.0af  |           |           |           |           |           |  |
| 0000-0030 |        | <b>BBC World Service</b>         | 3915.0as  | 5970.0as  | 5975.0ca  | 6195.0as  | 7105.0as  | 9410.0as  |  |
|           |        |                                  | 9825.0sa  | 11835.0ca | 11945.0as | 11955.0as | 12095.0sa | 15280.0as |  |
|           |        |                                  | 15310.0as | 15360.0as | 17615.0as | 17790.0as |           |           |  |
| 0000-0030 |        | <b>VOA</b>                       | 7215.0as  | 9770.0as  | 11760.0as | 15185.0as | 15290.0as | 17740.0as |  |
|           |        |                                  | 17820.0as |           |           |           |           |           |  |
| 0000-0100 | twhfa  | <b>VOA</b>                       | 5995.0am  | 6130.0am  | 7405.0am  | 9455.0am  | 9775.0am  | 11695.0am |  |
|           |        |                                  | 13790.0am |           |           |           |           |           |  |
| 0000-0030 | mtwhfa | <b>Radio Yugoslavia</b>          | 9580.0in  |           |           |           |           |           |  |
| 0000-0045 |        | <b>All India Radio, Delhi</b>    | 9705.0as  | 9950.0as  | 11620.0as | 13605.0as |           |           |  |
| 0000-0055 |        | <b>Radio Exterior de Espana</b>  | 15385.0na |           |           |           |           |           |  |
| 0000-1000 |        | <b>Caribbean Beacon</b>          | 6090.0am  |           |           |           |           |           |  |
| 0000-0830 |        | <b>ABC Alice Springs</b>         | 2310.0ir  | 4835.0do  |           |           |           |           |  |
| 0000-0830 |        | <b>ABC Katherine</b>             | 5025.0do  |           |           |           |           |           |  |
| 0000-0830 |        | <b>ABC Tennant Creek</b>         | 4910.0do  |           |           |           |           |           |  |
| 0000-0515 |        | <b>CBC Northern Service</b>      | 9625.0do  |           |           |           |           |           |  |
| 0000-0100 |        | <b>Radio Canada Int'l</b>        | 9640.0as  | 11895.0as |           |           |           |           |  |
| 0000-0100 |        | <b>R. for Peace Int'l</b>        | 7445.0ir  | 15038.8va | 21815.0uf |           |           |           |  |
| 0000-0500 | a      | <b>Scandinavian Weekend R.</b>   | 5980.0va  | 11720.0va |           |           |           |           |  |
| 0000-1000 |        | <b>Voice of Guyana</b>           | 3291.3do  | 5949.4do  |           |           |           |           |  |
| 0000-0100 | s      | <b>Radio Finland</b>             | 11990.0na | 13730.0na |           |           |           |           |  |
| 0000-0130 |        | <b>Voice of Hope, Lebanon</b>    | 6025.0as  |           |           |           |           |           |  |
| 0000-0100 |        | <b>RTM Radio 4, Malaysia</b>     | 7295.0do  |           |           |           |           |           |  |
| 0000-0800 |        | <b>NBC Windhoek, Namibia</b>     | 3270.1af  | 3290.1af  |           |           |           |           |  |
| 0000-0125 |        | <b>Radio Netherlands</b>         | 6165.0na  | 9845.0na  |           |           |           |           |  |
| 0000-0500 |        | <b>Radio New Zealand Int'l</b>   | 17675.0pa |           |           |           |           |           |  |
| 0000-0900 |        | <b>Nat'l BC, Papua NG</b>        | 9675.0do  | 11880.0ir |           |           |           |           |  |
| 0000-1100 |        | <b>SBC Radio 1, Singapore</b>    | 6150.0do  |           |           |           |           |           |  |
| 0000-1100 |        | <b>SIBC Solomon Islands</b>      | 5019.9do  | 9545.0do  |           |           |           |           |  |
| 0000-0100 |        | <b>Radio Ukraine Int'l</b>       | 5905.0eu  | 7320.0as  | 9640.0eu  | 12000.0eu | 12040.0na |           |  |
| 0000-0100 |        | <b>KAIJ Dallas TX</b>            | 13815.0va |           |           |           |           |           |  |
| 0000-0100 |        | <b>KTBN Salt Lake City UT</b>    | 15590.0na |           |           |           |           |           |  |
| 0000-0400 |        | <b>KWHR Naalehu HI</b>           | 17510.0as |           |           |           |           |           |  |
| 0000-0300 |        | <b>University Network</b>        | 9940.0as  |           |           |           |           |           |  |
| 0000-0400 |        | <b>WBCQ Monticello ME</b>        | 7415.0na  | 9335.0na  |           |           |           |           |  |
| 0000-1000 |        | <b>WEWN Birmingham AL</b>        | 5825.0na  |           |           |           |           |           |  |
| 0000-0500 |        | <b>WHRA Greenbush ME</b>         | 7580.0eu  |           |           |           |           |           |  |
| 0000-1000 |        | <b>WHRI Noblesville IN</b>       | 5745.0va  | 7315.0am  |           |           |           |           |  |
| 0000-0300 |        | <b>WINB Red Lion PA</b>          | 12159.9am |           |           |           |           |           |  |
| 0000-0200 | sm     | <b>WRMI Miami FL</b>             | 9955.0am  |           |           |           |           |           |  |
| 0000-0200 | twhfa  | <b>WRMI Miami FL</b>             | 7385.0na  |           |           |           |           |           |  |
| 0000-0300 |        | <b>WRNO New Orleans LA</b>       | 7354.4va  |           |           |           |           |           |  |
| 0000-0100 |        | <b>WSHB Cypress Creek SC</b>     | 9430.0am  | 15285.0sa |           |           |           |           |  |
| 0000-0100 | sm     | <b>WWBS Macon GA</b>             | 11910.0uf |           |           |           |           |           |  |
| 0000-0100 |        | <b>WWCR Nashville TN</b>         | 3210.0na  | 5070.0na  | 7435.0na  | 13845.0na |           |           |  |
| 0000-0600 |        | <b>WWRB Manchester TN</b>        | 5085.0uf  | 6890.0uf  |           |           |           |           |  |
| 0000-0100 |        | <b>WYFR Okeechobee FL</b>        | 6085.0na  | 9505.0na  |           |           |           |           |  |
| 0000-0600 |        | <b>Radio Vanuatu</b>             | 3945.0al  | 7260.0do  |           |           |           |           |  |
| 0000-0300 |        | <b>Christian Voice, Zambia</b>   | 4965.0do  |           |           |           |           |           |  |
| 0015-0100 |        | <b>Radio Japan</b>               | 6145.0na  |           |           |           |           |           |  |
| 0020-0030 | w      | <b>Kyrgyz Radio, Bishkek</b>     | 4010.0    |           |           |           |           |           |  |
| 0030-0130 |        | <b>Radio Australia</b>           | 9660.0pa  | 12080.0pa | 15240.0pa | 15415.0as | 17580.0pa | 17750.0as |  |
|           |        |                                  | 17775.0as | 17795.0pa | 21725.0as |           |           |           |  |
| 0030-0130 |        | <b>VOIRI Teheran</b>             | 9610.0am  | 11970.0na |           |           |           |           |  |
| 0030-0100 |        | <b>Radio Vilnius, Lithuania</b>  | 9855.0al  | 11690.0na |           |           |           |           |  |

|           |                                     |           |           |           |           |           |           |
|-----------|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0030-0200 | <b>Sri Lanka B'casting Corp.</b>    | 4940.0in  | 6005.0as  | 6075.0as  | 9770.0as  | 15425.0as |           |
| 0030-0100 | <b>Radio Thailand</b>               | 15395.0na |           |           |           |           |           |
| 0030-0100 | <b>AWR Africa, UAE</b>              | 6035.0as  | 6055.0as  |           |           |           |           |
| 0030-0100 | <b>BBC World Service</b>            | 5970.0as  | 5975.0ca  | 6195.0as  | 7105.0as  | 9410.0as  | 9825.0sa  |
|           |                                     | 11835.0ca | 11955.0as | 12095.0sa | 15280.0as | 15310.0as | 15360.0as |
|           |                                     | 17790.0as |           |           |           |           |           |
| 0030-0100 | <b>VOA Special English</b>          | 7215.0as  | 9770.0as  | 11760.0as | 15185.0as | 15290.0as | 17740.0as |
|           |                                     | 17820.0as |           |           |           |           |           |
| 0043-0050 | <b>Croatian Radio, Zagreb</b>       | 9925.0sa  |           |           |           |           |           |
| 0050-0056 | <b>Int'l BC Tamil</b>               | 11570.0as |           |           |           |           |           |
| 0055-0115 | <b>RAI, Rome</b>                    | 9675.0na  | 11800.0na |           |           |           |           |
| 0100-0127 | <b>Radio Prague Int'l</b>           | 6200.0na  | 7345.0na  |           |           |           |           |
| 0100-0127 | <b>Voice of Vietnam</b>             | 6175.0na  |           |           |           |           |           |
| 0100-0130 | <b>Universal Life, Germany</b>      | 9435.0as  |           |           |           |           |           |
| 0100-0130 | <b>Radio Budapest</b>               | 9560.0na  |           |           |           |           |           |
| 0100-0130 | <b>Radio Slovakia Int'l</b>         | 5930.0na  | 6190.0ca  | 9440.0sa  |           |           |           |
| 0100-0300 | <b>VOA</b>                          | 7115.0as  | 9635.0as  | 11705.0as | 11725.0as | 11820.0as | 13650.0as |
|           |                                     | 17740.0as | 17820.0as |           |           |           |           |
| 0100-0130 | tw hfa <b>VOA</b>                   | 5995.0am  | 6130.0am  | 7405.0am  | 9455.0am  | 9775.0am  | 13790.0am |
| 0100-0130 | <b>Radio Tashkent</b>               | 5025.0as  | 7190.0as  | 9375.0as  | 9530.0as  | 9715.0as  |           |
| 0100-0145 | <b>Deutsche Welle</b>               | 6040.0na  | 9640.0am  | 11810.0na | 13720.0am |           |           |
| 0100-0156 | <b>China Radio Int'l</b>            | 9580.0na  | 9790.0na  |           |           |           |           |
| 0100-0156 | <b>Voice of Korea</b>               | 6195.0as  | 6520.0am  | 7140.0as  | 7580.0am  | 9345.0as  | 11735.0am |
| 0100-0159 | <b>Radio Canada Int'l</b>           | 5960.0am  | 13670.0am | 15170.0am | 15305.0am |           |           |
| 0100-0200 | <b>R. for Peace Int'l</b>           | 7445.0ir  | 15038.8va | 21815.0ir |           |           |           |
| 0100-0500 | <b>Radio Havana Cuba</b>            | 6000.0na  | 9820.0na  | 11705.0uf |           |           |           |
| 0100-0200 | <b>HCJB Quito Ecuador</b>           | 9745.0na  | 11960.0na | 21455.0uf |           |           |           |
| 0100-0200 | <b>Voice of Indonesia</b>           | 9525.0as  | 11785.0as | 15150.0as |           |           |           |
| 0100-0200 | <b>Radio Japan</b>                  | 11860.0as | 11870.0me | 11880.0me | 15325.0as | 17685.0pa | 17810.0as |
|           |                                     | 17835.0sa | 17845.0as |           |           |           |           |
| 0100-0200 | <b>Voice of Russia</b>              | 9665.0na  | 9725.0na  | 11825.0na | 12000.0na | 17595.0na |           |
| 0100-0200 | <b>BBC World Service</b>            | 5975.0ca  | 6195.0as  | 9410.0as  | 9825.0sa  | 11835.0ca | 11955.0as |
|           |                                     | 12095.0sa | 15280.0as | 15310.0as | 15360.0as |           |           |
| 0100-1300 | <b>KAIJ Dallas TX</b>               | 5755.0va  |           |           |           |           |           |
| 0100-0230 | <b>KJES Vado NM</b>                 | 7555.0na  |           |           |           |           |           |
| 0100-1500 | <b>KTBN Salt Lake City UT</b>       | 7510.0na  |           |           |           |           |           |
| 0100-0200 | <b>WSHB Cypress Creek SC</b>        | 9430.0na  | 15285.0sa |           |           |           |           |
| 0100-0400 | <b>WWCR Nashville TN</b>            | 3210.0na  | 5070.0na  | 5935.0na  | 7435.0na  |           |           |
| 0100-0200 | <b>WYFR Okeechobee FL</b>           | 6065.0na  | 9505.0na  | 15060.1as |           |           |           |
| 0105-0112 | <b>Croatian Radio, Zagreb</b>       | 9925.0na  |           |           |           |           |           |
| 0130-0200 | <b>Radio Australia</b>              | 9660.0pa  | 12080.0pa | 15240.0pa | 15415.0as | 17580.0pa | 17750.0as |
|           |                                     | 17795.0pa | 21725.0as |           |           |           |           |
| 0130-0200 | <b>ORF Vienna</b>                   | 9870.0na  |           |           |           |           |           |
| 0130-0200 | <b>Radio Iraq Int'l</b>             | 9687.0ir  | 11787.0ir |           |           |           |           |
| 0130-0200 | <b>Radio Telefis Eireann</b>        | 6155.0ca  |           |           |           |           |           |
| 0130-0200 | <b>Radio Sweden</b>                 | 13625.0as |           |           |           |           |           |
| 0130-0200 | tw hfa <b>VOA</b>                   | 5995.0am  | 6130.0am  | 9455.0am  |           |           |           |
| 0130-0200 | tw hfa <b>VOA Special English</b>   | 7405.0am  | 9775.0am  | 13740.0am |           |           |           |
| 0140-0150 | <b>Voice of Africa, Libya</b>       | 15435.0ir | 17750.0ir |           |           |           |           |
| 0140-0200 | <b>Vatican Radio</b>                | 9650.0au  | 12055.0au |           |           |           |           |
| 0145-0200 | <b>Radio Tirana, Albania</b>        | 6115.0na  | 7160.0na  |           |           |           |           |
| 0200-0210 | <b>Radio Bangladesh</b>             | 4882.0as  |           |           |           |           |           |
| 0200-0230 | <b>AWR Europe, Austria</b>          | 9820.0me  |           |           |           |           |           |
| 0200-0230 | sm w fa <b>Radio Minsk, Belarus</b> | 5970.0eu  | 7210.0eu  |           |           |           |           |
| 0200-0230 | <b>Voice of Hope, Lebanon</b>       | 9615.0as  |           |           |           |           |           |
| 0200-0300 | <b>BBC World Service</b>            | 5975.0ca  | 6195.0eu  | 9410.0eu  | 9770.0af  | 9825.0sa  | 11835.0ca |
|           |                                     | 11955.0as | 12095.0sa | 15280.0as | 15310.0as | 15360.0as | 17790.0as |
|           |                                     | 11965.0as | 13720.0as | 15370.0as |           |           |           |
| 0200-0245 | <b>Deutsche Welle</b>               | 9325.0as  | 11335.2as |           |           |           |           |
| 0200-0256 | <b>Voice of Korea</b>               | 9510.0na  | 11810.0as | 11940.0na | 15105.0as | 15180.0au | 17815.0au |
| 0200-0256 | <b>Radio Romania Int'l</b>          | 15260.0as | 17860.0as |           |           |           |           |
| 0200-0257 | <b>Radio Canada Int'l</b>           | 6060.0am  | 11710.0am |           |           |           |           |
| 0200-0300 | tw hfa <b>RAE Buenos Aires</b>      | 9660.0pa  | 12080.0pa | 15240.0pa | 15415.0as | 15515.0pa | 17580.0pa |
| 0200-0400 | <b>Radio Australia</b>              | 17750.0as | 21725.0as |           |           |           |           |
| 0200-0300 | <b>Radio Bulgaria</b>               | 9400.0na  |           |           |           |           |           |
| 0200-0500 | <b>R. for Peace Int'l</b>           | 7445.0uf  | 15038.8va | 21815.0ir |           |           |           |
| 0200-0330 | <b>HCJB Quito Ecuador</b>           | 9745.0na  | 11960.0na | 21455.0uf | 21470.0as |           |           |
| 0200-0330 | <b>Radio Cairo</b>                  | 9475.0am  |           |           |           |           |           |
| 0200-2400 | <b>RTM Radio 4, Malaysia</b>        | 7295.0do  |           |           |           |           |           |
| 0200-0300 | <b>Radio Myanmar</b>                | 7185.0do  |           |           |           |           |           |
| 0200-0330 | s a <b>Radio Pilipinas, Manila</b>  | 11885.0me | 15120.0me | 15270.0me |           |           |           |
| 0200-0300 | <b>Voice of Russia</b>              | 9665.0na  | 9725.0na  | 12000.0na | 17595.0na |           |           |
| 0200-0300 | <b>Radio Korea</b>                  | 9560.0na  | 15575.0na |           |           |           |           |
| 0200-0430 | <b>Sri Lanka B'casting Corp.</b>    | 6005.0as  | 6075.0as  | 6130.0do  | 9770.0as  | 15425.0as |           |
| 0200-0300 | <b>Radio Taipei Int'l</b>           | 5950.0na  | 9680.0na  | 11740.0va | 15320.0as | 15345.0as |           |
| 0200-0900 | <b>WRMI Miami FL</b>                | 7385.0na  |           |           |           |           |           |

|           |         |                                  |           |           |           |           |           |           |  |
|-----------|---------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 0200-0300 |         | <b>WSHB Cypress Creek SC</b>     | 7535.0am  | 9430.0na  |           |           |           |           |  |
| 0200-0400 |         | <b>WYFR Okeechobee FL</b>        | 6065.0na  | 9505.0na  |           |           |           |           |  |
| 0215-0220 |         | <b>Radio Nepal, Katmandu</b>     | 3230.0as  | 5005.0as  | 7164.4as  |           |           |           |  |
| 0230-0257 |         | <b>Voice of Vietnam</b>          | 6175.0na  |           |           |           |           |           |  |
| 0230-0300 |         | <b>Radio Tirana, Albania</b>     | 6115.0na  | 7160.0na  |           |           |           |           |  |
| 0230-0300 |         | <b>Radio Budapest</b>            | 9570.0na  |           |           |           |           |           |  |
| 0230-0300 |         | <b>Radio Sweden</b>              | 9490.0na  |           |           |           |           |           |  |
| 0230-0300 | a       | <b>Wales Radio Int'l</b>         | 9795.0na  |           |           |           |           |           |  |
| 0243-0250 |         | <b>Croatian Radio, Zagreb</b>    | 9925.0na  |           |           |           |           |           |  |
| 0245-0300 |         | <b>BBC English Teaching</b>      | 9610.0af  |           |           |           |           |           |  |
| 0250-0310 |         | <b>Vatican Radio</b>             | 7305.0am  | 9605.0am  |           |           |           |           |  |
| 0250-2205 |         | <b>Zambia Nat'l BC Corp.</b>     | 6165.0do  | 6265.0do  |           |           |           |           |  |
| 0300-0327 |         | <b>Radio Prague Int'l</b>        | 7345.0na  | 7385.0na  | 9870.0na  |           |           |           |  |
| 0300-0330 | s twhfa | <b>Radio Mexico Int'l</b>        | 9705.0am  | 11770.0am |           |           |           |           |  |
| 0300-0330 |         | <b>Channel Africa, S. Africa</b> | 6035.0af  |           |           |           |           |           |  |
| 0300-0330 |         | <b>Radio Thailand</b>            | 15395.0na |           |           |           |           |           |  |
| 0300-0330 |         | <b>BBC World Service</b>         | 3255.0af  | 5975.0ca  | 6005.0af  | 6190.0af  | 6195.0eu  | 7120.0af  |  |
|           |         |                                  | 7160.0af  | 9410.0eu  | 11730.0af | 11835.0ca | 12035.0af | 12095.0eu |  |
|           |         |                                  | 15280.0as | 15310.0as | 15360.0as | 15575.0me | 17635.0as | 17790.0as |  |
|           |         |                                  | 21660.0as | 21830.0as |           |           |           |           |  |
| 0300-0330 |         | <b>VOA</b>                       | 5855.0af  | 6080.0af  | 7105.0af  | 7275.0af  | 7290.0af  | 7340.0af  |  |
|           |         |                                  | 9575.0af  | 9885.0af  | 17895.0af |           |           |           |  |
| 0300-0345 |         | <b>Deutsche Welle</b>            | 9535.0na  | 9640.0na  | 11935.0am | 15105.0na |           |           |  |
| 0300-0356 |         | <b>China Radio Int'l</b>         | 9690.0na  |           |           |           |           |           |  |
| 0300-0356 |         | <b>Voice of Korea</b>            | 6195.0as  | 7140.0as  | 9345.0as  |           |           |           |  |
| 0300-0600 |         | <b>Radio Botswana</b>            | 3356.0do  | 4820.0do  | 7255.0do  |           |           |           |  |
| 0300-0430 |         | <b>Radio Cultural, Guatemala</b> | 3300.0do  | 5955.0in  |           |           |           |           |  |
| 0300-0400 | sm      | <b>R. Luz y Vida, Honduras</b>   | 3250.0ca  |           |           |           |           |           |  |
| 0300-0400 |         | <b>Radio Japan</b>               | 17825.0ca | 21610.0pa |           |           |           |           |  |
| 0300-0600 |         | <b>Voice of Islam, Malaysia</b>  | 6175.0as  | 9750.0as  | 15295.0au |           |           |           |  |
| 0300-0400 |         | <b>Radio Sultanate Oman</b>      | 15355.0af |           |           |           |           |           |  |
| 0300-0500 |         | <b>Voice of Russia</b>           | 7180.0na  | 9665.0na  | 11750.0na | 12000.0na | 17565.0na | 17650.0na |  |
|           |         |                                  | 17660.0na | 17690.0na |           |           |           |           |  |
| 0300-0400 |         | <b>Radio Taipei Int'l</b>        | 5950.0na  | 9680.0na  | 11875.0pa | 15320.0as |           |           |  |
| 0300-0400 |         | <b>Voice of Turkey</b>           | 7270.0af  | 11655.0va |           |           |           |           |  |
| 0300-0600 |         | <b>Radio Uganda</b>              | 4976.0do  | 5026.0do  | 7196.0do  |           |           |           |  |
| 0300-0400 |         | <b>Radio Ukraine Int'l</b>       | 7150.0eu  | 9640.0eu  | 12040.0na |           |           |           |  |
| 0300-1600 |         | <b>University Network</b>        | 17765.0as |           |           |           |           |           |  |
| 0300-1500 |         | <b>WRNO New Orleans LA</b>       | 7394.3am  |           |           |           |           |           |  |
| 0300-0400 |         | <b>WSHB Cypress Creek SC</b>     | 7535.0eu  | 11550.0eu |           |           |           |           |  |
| 0300-0600 |         | <b>Christian Voice, Zambia</b>   | 6065.0do  |           |           |           |           |           |  |
| 0300-0530 |         | <b>Zimbabwe BC Corp.</b>         | 4828.0do  | 6045.0do  |           |           |           |           |  |
| 0305-0312 |         | <b>Croatian Radio, Zagreb</b>    | 9925.0na  |           |           |           |           |           |  |
| 0310-0340 |         | <b>Vatican Radio</b>             | 9660.0af  |           |           |           |           |           |  |
| 0330-0357 |         | <b>Radio Prague Int'l</b>        | 11600.0as | 15620.0as |           |           |           |           |  |
| 0330-0357 |         | <b>Voice of Vietnam</b>          | 6175.0na  |           |           |           |           |           |  |
| 0330-0600 |         | <b>HCJB Quito Ecuador</b>        | 9745.0na  | 11960.0na | 21455.0uf |           |           |           |  |
| 0330-0400 | m       | <b>La Voz Evangelica, Hond.</b>  | 4819.2do  |           |           |           |           |           |  |
| 0330-0830 |         | <b>Radio Myanmar</b>             | 9730.8do  |           |           |           |           |           |  |
| 0330-0400 |         | <b>Radio Sweden</b>              | 9490.0na  |           |           |           |           |           |  |
| 0330-0400 |         | <b>AWR Africa, UAE</b>           | 11775.0as |           |           |           |           |           |  |
| 0330-0400 |         | <b>Radio Dubai, UAE</b>          | 12005.0na | 13675.0na | 15400.0na |           |           |           |  |
| 0330-0400 |         | <b>BBC World Service</b>         | 3255.0af  | 5975.0ca  | 6005.0af  | 6190.0af  | 6195.0eu  | 7120.0af  |  |
|           |         |                                  | 7160.0af  | 9410.0eu  | 11730.0af | 11835.0ca | 12035.0af | 12095.0eu |  |
|           |         |                                  | 15280.0as | 15310.0as | 15420.0af | 15575.0me | 17635.0as | 17790.0as |  |
|           |         |                                  | 21660.0as | 21830.0as |           |           |           |           |  |
| 0330-0400 |         | <b>VOA</b>                       | 5855.0af  | 6080.0af  | 7105.0af  | 7275.0af  | 7290.0af  | 9575.0af  |  |
|           |         |                                  | 9885.0af  | 17895.0af |           |           |           |           |  |
| 0345-0400 | f       | <b>FEBA Seychelles</b>           | 11885.0af |           |           |           |           |           |  |
| 0345-0400 |         | <b>Radio Tajikistan</b>          | 7245.0    |           |           |           |           |           |  |
| 0400-0415 |         | <b>Kol Israel</b>                | 9435.0va  | 15640.0va | 17600.0va |           |           |           |  |
| 0400-0500 |         | <b>BBC World Service</b>         | 3255.0af  | 5975.0am  | 6005.0af  | 6190.0af  | 6195.0eu  | 7120.0af  |  |
|           |         |                                  | 7160.0af  | 9410.0eu  | 11835.0ca | 12095.0eu | 15280.0as | 15310.0as |  |
|           |         |                                  | 15420.0af | 15575.0me | 17635.0as | 17640.0af | 17790.0as | 21660.0as |  |
|           |         |                                  | 21830.0as |           |           |           |           |           |  |
| 0400-0429 |         | <b>R. Vlaanderen Int'l</b>       | 15565.0na |           |           |           |           |           |  |
| 0400-0430 |         | <b>Radio Australia</b>           | 9660.0pa  | 12080.0pa | 15240.0pa | 15415.0as | 15515.0pa | 17580.0pa |  |
|           |         |                                  | 21725.0as |           |           |           |           |           |  |
| 0400-0430 | mtwhf   | <b>Radio France Int'l</b>        | 9550.0af  | 15155.0af |           |           |           |           |  |
| 0400-0430 | s twhfa | <b>Radio Mexico Int'l</b>        | 9705.0am  | 11770.0am |           |           |           |           |  |
| 0400-0430 |         | <b>AWR Africa, Meyerton</b>      | 7235.0af  |           |           |           |           |           |  |
| 0400-0430 |         | <b>Channel Africa, S. Africa</b> | 5955.0af  |           |           |           |           |           |  |
| 0400-0430 |         | <b>VOA</b>                       | 4960.0af  | 5855.0af  | 6080.0af  | 7275.0af  | 7290.0af  | 9530.0eu  |  |
|           |         |                                  | 9575.0af  | 9885.0af  | 11965.0eu | 15205.0eu | 17895.0af |           |  |
| 0400-0445 |         | <b>Deutsche Welle</b>            | 6180.0af  | 7225.0af  | 12045.0af | 13690.0af |           |           |  |
| 0400-0456 |         | <b>China Radio Int'l</b>         | 9730.0na  | 9560.0na  |           |           |           |           |  |



|           |        |                                     |           |           |           |           |           |           |  |
|-----------|--------|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 0400-0456 |        | <b>Radio Romania Int'l</b>          | 9510.0na  | 11940.0na | 17735.0as | 21480.0as |           |           |  |
| 0400-2400 |        | <b>Cameroon Radio TV</b>            | 4850.0do  |           |           |           |           |           |  |
| 0400-0700 |        | <b>KWHR Naalehu HI</b>              | 17780.0as |           |           |           |           |           |  |
| 0400-0600 |        | <b>WBCQ Monticello ME</b>           | 7415.0na  |           |           |           |           |           |  |
| 0400-0500 |        | <b>WSHB Cypress Creek SC</b>        | 7535.0eu  | 15195.0af |           |           |           |           |  |
| 0400-0900 |        | <b>WWCR Nashville TN</b>            | 3210.0na  | 5070.0na  | 5935.0na  | 7560.0na  |           |           |  |
| 0400-0500 |        | <b>WYFR Okeechobee FL</b>           | 6065.0na  | 9355.0eu  | 9505.0na  | 11580.0eu |           |           |  |
| 0427-0525 | a      | <b>Radio Voice of Hope</b>          | 12060.0af | 15320.0af |           |           |           |           |  |
| 0430-0445 |        | <b>BBC English Teaching</b>         | 6010.0eu  | 9815.0eu  |           |           |           |           |  |
| 0430-0500 |        | <b>Radio Australia</b>              | 9660.0pa  | 12080.0pa | 15240.0pa | 15415.0as | 15515.0pa | 17580.0pa |  |
|           |        |                                     | 17750.0as | 21725.0as |           |           |           |           |  |
| 0430-0600 |        | <b>Italian Radio Relay Svc</b>      | 3980.0al  | 3985.0uf  |           |           |           |           |  |
| 0430-0530 |        | <b>Radio Netherlands</b>            | 6165.0na  | 9590.0na  |           |           |           |           |  |
| 0430-2305 |        | <b>Radio Nigeria, Abuja</b>         | 7275.0do  |           |           |           |           |           |  |
| 0430-2305 |        | <b>Radio Nigeria, Enugu</b>         | 6025.0do  |           |           |           |           |           |  |
| 0430-2305 |        | <b>Radio Nigeria, Ibadan</b>        | 6050.0do  |           |           |           |           |           |  |
| 0430-2305 |        | <b>Radio Nigeria, Kaduna</b>        | 4770.0do  | 6090.0do  |           |           |           |           |  |
| 0430-1000 |        | <b>Radio Nigeria, Lagos</b>         | 3326.0do  | 4990.0do  |           |           |           |           |  |
| 0430-1000 |        | <b>Sri Lanka B'casting Corp.</b>    | 6130.0do  |           |           |           |           |           |  |
| 0430-0500 |        | <b>AWR Africa, Meyerton</b>         | 11975.0af |           |           |           |           |           |  |
| 0430-0500 |        | <b>TWR Swaziland</b>                | 4775.0af  |           |           |           |           |           |  |
| 0430-0500 | mtwhfa | <b>TWR Swaziland</b>                | 3200.0af  |           |           |           |           |           |  |
| 0430-0530 | t      | <b>R. UNMEE, UAE</b>                | 15215.0af |           |           |           |           |           |  |
| 0430-0500 |        | <b>VOA</b>                          | 4960.0af  | 5855.0af  | 6080.0af  | 7275.0af  | 7290.0af  | 9530.0eu  |  |
|           |        |                                     | 9575.0af  | 11965.0eu | 15205.0eu | 17895.0af |           |           |  |
| 0430-0500 |        | <b>Radio Yugoslavia</b>             | 9580.0in  |           |           |           |           |           |  |
| 0443-0450 |        | <b>Croatian Radio, Zagreb</b>       | 9925.0na  |           |           |           |           |           |  |
| 0445-0500 |        | <b>RAI, Rome</b>                    | 7235.0af  | 9875.0af  |           |           |           |           |  |
| 0500-0520 |        | <b>Vatican Radio</b>                | 4005.0eu  | 5890.0eu  | 7250.0eu  | 9660.0af  | 11625.0af | 15570.0af |  |
| 0500-0530 |        | <b>Radio Australia</b>              | 9660.0pa  | 12080.0pa | 15240.0pa | 15415.0as | 15515.0pa | 17580.0pa |  |
|           |        |                                     | 21725.0as |           |           |           |           |           |  |
| 0500-0530 | mtwhf  | <b>Radio France Int'l</b>           | 11685.0af | 17800.0af |           |           |           |           |  |
| 0500-0530 |        | <b>AWR Africa, Meyerton</b>         | 5960.0af  | 6015.0af  |           |           |           |           |  |
| 0500-0530 |        | <b>Channel Africa, S. Africa 11</b> | 710.0af   |           |           |           |           |           |  |
| 0500-0530 |        | <b>BBC World Service</b>            | 6005.0af  | 6190.0af  | 6195.0eu  | 7160.0af  | 9410.0eu  | 11760.0me |  |
|           |        |                                     | 11765.0af | 11940.0af | 11955.0as | 12095.0eu | 15280.0as | 15310.0as |  |
|           |        |                                     | 15360.0as | 15420.0af | 15565.0eu | 17640.0af | 17760.0as | 17790.0as |  |
|           |        |                                     | 21660.0as |           |           |           |           |           |  |
| 0500-0530 | mtwhf  | <b>BBC World Service</b>            | 15575.0as |           |           |           |           |           |  |
| 0500-0530 | s      | <b>BBC World Service</b>            | 17885.0af |           |           |           |           |           |  |
| 0500-0600 | a      | <b>VOA</b>                          | 5970.0af  | 6035.0af  | 6080.0af  | 7195.0af  | 9530.0eu  | 11965.0eu |  |
|           |        |                                     | 12080.0af | 13670.0af | 15205.0eu |           |           |           |  |
| 0500-0545 |        | <b>Deutsche Welle</b>               | 9670.0na  | 9785.0na  | 11985.0na |           |           |           |  |
| 0500-0600 | mtwhf  | <b>BBS, Bhutan</b>                  | 5030.0al  | 6035.0do  |           |           |           |           |  |
| 0500-0600 |        | <b>R. for Peace Int'l</b>           | 7445.0uf  | 15038.8va |           |           |           |           |  |
| 0500-0700 |        | <b>Radio Havana Cuba</b>            | 9550.0na  | 9665.0uf  | 9820.0na  |           |           |           |  |
| 0500-0800 | a      | <b>Scandinavian Weekend R.</b>      | 6170.0va  | 11720.0va |           |           |           |           |  |
| 0500-0600 |        | <b>Radio Japan</b>                  | 5975.0eu  | 6110.0na  | 7230.0eu  | 11715.0as | 11760.0as | 13630.0na |  |
|           |        |                                     | 15195.0as | 17810.0as | 21755.0pa |           |           |           |  |
| 0500-0800 |        | <b>Radio Kuwait</b>                 | 15110.0as |           |           |           |           |           |  |
| 0500-0700 |        | <b>Radio New Zealand Int'l</b>      | 11820.0pa |           |           |           |           |           |  |
| 0500-1000 |        | <b>Voice of Nigeria</b>             | 7255.0af  | 15120.0af |           |           |           |           |  |
| 0500-0600 |        | <b>Voice of Russia</b>              | 17635.0au | 17685.0au | 17795.0as | 21790.0au |           |           |  |
| 0500-0750 |        | <b>TWR Swaziland</b>                | 4775.0af  | 6035.0af  | 9500.0af  |           |           |           |  |
| 0500-0700 | mtwhf  | <b>KWHR Naalehu HI</b>              | 11565.0pa |           |           |           |           |           |  |
| 0500-1000 |        | <b>WHRA Greenbush ME</b>            | 11730.0af |           |           |           |           |           |  |
| 0500-0600 |        | <b>WSHB Cypress Creek SC</b>        | 7535.0eu  | 9840.0af  |           |           |           |           |  |
| 0500-0600 |        | <b>WYFR Okeechobee FL</b>           | 9355.0eu  |           |           |           |           |           |  |
| 0505-0512 |        | <b>Croatian Radio, Zagreb</b>       | 9470.0pa  |           |           |           |           |           |  |
| 0515-0525 |        | <b>Radio Rwanda</b>                 | 6055.0do  |           |           |           |           |           |  |
| 0520-0530 |        | <b>Vatican Radio</b>                | 9660.0af  | 11625.0af | 15570.0af |           |           |           |  |
| 0525-0915 |        | <b>Ghana Broadcasting Corp.</b>     | 3366.0do  | 4915.0do  |           |           |           |           |  |
| 0530-0545 | s      | <b>BBC English Teaching</b>         | 9875.0eu  | 11675.0eu |           |           |           |           |  |
| 0530-0550 | a      | <b>Radio Dubai, UAE</b>             | 15435.0au | 17829.9au | 21695.2au |           |           |           |  |
| 0530-0700 |        | <b>Radio Australia</b>              | 9660.0pa  | 12080.0pa | 15240.0pa | 15415.0as | 15515.0pa | 17580.0pa |  |
|           |        |                                     | 17750.0as | 21725.0as |           |           |           |           |  |
| 0530-0600 |        | <b>Georgian Radio, Tbilisi</b>      | 11805.0eu |           |           |           |           |           |  |
| 0530-0630 |        | <b>AWR Africa, Meyerton</b>         | 15105.0af |           |           |           |           |           |  |
| 0530-0600 |        | <b>Radio Thailand</b>               | 21795.0eu |           |           |           |           |           |  |
| 0530-0600 |        | <b>BBC World Service</b>            | 6005.0af  | 6190.0af  | 6195.0eu  | 7160.0af  | 9410.0eu  | 11760.0me |  |
|           |        |                                     | 11765.0af | 11940.0af | 11955.0as | 12095.0eu | 15310.0as | 15360.0as |  |
|           |        |                                     | 15420.0af | 15565.0eu | 17640.0af | 17760.0as | 17790.0as | 21660.0as |  |
| 0530-0600 | mtwhf  | <b>BBC World Service</b>            | 15575.0as | 17885.0af |           |           |           |           |  |
| 0530-1630 |        | <b>Zimbabwe BC Corp.</b>            | 5975.0do  | 6045.0do  |           |           |           |           |  |
| 0532-0600 |        | <b>ORF Vienna</b>                   | 6155.0eu  | 13730.0eu | 17870.0me |           |           |           |  |
| 0600-0615 |        | <b>TWR Meyerton</b>                 | 11640.0af |           |           |           |           |           |  |

|           |        |                                  |                                    |                                     |                                     |                                    |                                     |                        |
|-----------|--------|----------------------------------|------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|------------------------|
| 0600-0700 |        | <b>BBC World Service</b>         | 6005.0af<br>11955.0as<br>17640.0af | 6190.0af<br>12095.0eu<br>17760.0as  | 7160.0af<br>15310.0as<br>17790.0as  | 9410.0eu<br>15360.0as<br>17885.0af | 11765.0af<br>15485.0eu<br>21660.0as | 11940.0af<br>15565.0eu |
| 0600-0700 | mtwhf  | <b>BBC World Service</b>         | 15575.0as                          |                                     |                                     |                                    |                                     |                        |
| 0600-0630 |        | <b>HCJB Quito Ecuador</b>        | 11680.0eu                          |                                     |                                     |                                    |                                     |                        |
| 0600-0630 | mtwhf  | <b>Radio France Int'l</b>        | 11710.0af                          | 17800.0af                           | 21620.0af                           |                                    |                                     |                        |
| 0600-0630 |        | <b>Channel Africa, S. Africa</b> | 1215.0af                           |                                     |                                     |                                    |                                     |                        |
| 0600-0630 |        | <b>VOA</b>                       | 5970.0af<br>11805.0eu              | 6035.0af<br>11965.0eu               | 6080.0af<br>11995.0af               | 7195.0af<br>12080.0af              | 9530.0eu<br>13670.0af               | 9760.0eu<br>15205.0eu  |
| 0600-0640 |        | <b>Radio Romania Int'l</b>       | 9635.0na                           | 11940.0na                           |                                     |                                    |                                     |                        |
| 0600-0645 |        | <b>Deutsche Welle</b>            | 6140.0eu                           | 11925.0af                           | 13790.0af                           | 17860.0af                          |                                     |                        |
| 0600-1530 |        | <b>Radio Botswana</b>            | 7255.0do                           | 9600.0do                            |                                     |                                    |                                     |                        |
| 0600-0800 |        | <b>R. for Peace Int'l</b>        | 7445.0uf                           | 15038.8ir                           |                                     |                                    |                                     |                        |
| 0600-0700 |        | <b>Italian Radio Relay Svc</b>   | 7120.0uf                           | 7125.0af                            |                                     |                                    |                                     |                        |
| 0600-0700 |        | <b>Radio Japan</b>               | 7230.0eu                           | 11740.0as                           | 13630.0na                           | 15195.0as                          | 17870.0pa                           | 21755.0pa              |
| 0600-1300 |        | <b>ELWA Monrovia, Liberia</b>    | 4760.0do                           |                                     |                                     |                                    |                                     |                        |
| 0600-1800 |        | <b>Radio Liberia Int'l</b>       | 6100.0do                           |                                     |                                     |                                    |                                     |                        |
| 0600-0825 |        | <b>Voice of Malaysia</b>         | 6175.0as                           | 9750.0as                            | 15295.0au                           |                                    |                                     |                        |
| 0600-0700 |        | <b>Voice of Russia</b>           | 15490.0au                          | 17635.0au                           | 17685.0au                           | 17795.0as                          | 21790.0au                           |                        |
| 0600-2400 |        | <b>SLBS, Sierra Leone</b>        | 3316.0do                           |                                     |                                     |                                    |                                     |                        |
| 0600-1300 |        | <b>Radio Uganda</b>              | 5026.0do                           | 7110.0do                            | 7196.0do                            |                                    |                                     |                        |
| 0600-0800 |        | <b>WSHB Cypress Creek SC</b>     | 9450.0af                           |                                     |                                     |                                    |                                     |                        |
| 0600-0700 |        | <b>WYFR Okeechobee FL</b>        | 7355.0eu                           | 11580.0eu                           |                                     |                                    |                                     |                        |
| 0600-1000 |        | <b>Radio Vanuatu</b>             | 3945.0af                           | 4960.0do                            |                                     |                                    |                                     |                        |
| 0600-0700 |        | <b>Republic of Yemen Radio</b>   | 9779.6me                           |                                     |                                     |                                    |                                     |                        |
| 0600-1500 |        | <b>Christian Voice, Zambia</b>   | 9865.0do                           |                                     |                                     |                                    |                                     |                        |
| 0630-0700 |        | <b>Vatican Radio</b>             | 11625.0af                          | 13765.0af                           | 15570.0af                           |                                    |                                     |                        |
| 0630-0645 | mtwhf  | <b>Vatican Radio</b>             | 4005.0eu                           | 5890.0eu                            | 7250.0eu                            | 9645.0eu                           | 11740.0eu                           | 15595.0eu              |
| 0630-0700 |        | <b>HCJB Quito Ecuador</b>        | 11680.0eu                          | 21455.0uf                           |                                     |                                    |                                     |                        |
| 0630-0700 |        | <b>Radio Finland</b>             | 15135.0va                          | 21670.0va                           |                                     |                                    |                                     |                        |
| 0630-0700 |        | <b>VOA</b>                       | 9530.0eu                           | 9760.0eu                            | 11805.0eu                           | 11965.0eu                          | 15205.0eu                           |                        |
| 0630-0700 | s      | <b>a VOA</b>                     | 5970.0af<br>13670.0af              | 6035.0af                            | 6080.0af                            | 7195.0af                           | 11995.0af                           | 12080.0af              |
| 0640-0656 |        | <b>Radio Romania Int'l</b>       | 7105.0eu                           | 9550.0eu                            | 9625.0eu                            | 9635.0na                           | 11775.0eu                           | 11940.0na              |
| 0643-0650 |        | <b>Croatian Radio, Zagreb</b>    | 9470.0pa                           |                                     |                                     |                                    |                                     |                        |
| 0645-0655 | s      | <b>a TWR Juelich</b>             | 6045.0eu                           |                                     |                                     |                                    |                                     |                        |
| 0645-0655 | s      | <b>a TWR Monte Carlo</b>         | 9870.0eu                           |                                     |                                     |                                    |                                     |                        |
| 0645-0900 |        | <b>Deutsche Welle</b>            | 6140.0eu                           |                                     |                                     |                                    |                                     |                        |
| 0655-0750 |        | <b>TWR Juelich</b>               | 6045.0eu                           |                                     |                                     |                                    |                                     |                        |
| 0655-0750 |        | <b>TWR Monte Carlo</b>           | 9870.0eu                           |                                     |                                     |                                    |                                     |                        |
| 0700-0704 |        | <b>Radio Pakistan</b>            | 17520.0eu                          | 21465.0eu                           |                                     |                                    |                                     |                        |
| 0700-0727 |        | <b>Radio Prague Int'l</b>        | 9880.0eu                           | 11600.0eu                           |                                     |                                    |                                     |                        |
| 0700-0729 |        | <b>R. Vlaanderen Int'l</b>       | 5985.0eu                           |                                     |                                     |                                    |                                     |                        |
| 0700-0730 |        | <b>AWR Europe, Austria</b>       | 7230.0va                           |                                     |                                     |                                    |                                     |                        |
| 0700-0730 |        | <b>Radio Slovakia Int'l</b>      | 9440.0au                           | 15460.0au                           | 17550.0au                           |                                    |                                     |                        |
| 0700-0800 |        | <b>BBC World Service</b>         | 6190.0af<br>15310.0as<br>17790.0as | 11760.0me<br>15360.0as<br>17885.0af | 11765.0af<br>15485.0eu<br>21660.0as | 11940.0af<br>15565.0eu             | 11955.0as<br>17640.0eu              | 12095.0eu<br>17760.0as |
| 0700-0730 | mtwhf  | <b>BBC World Service</b>         | 15400.0af                          | 15575.0as                           |                                     |                                    |                                     |                        |
| 0700-0756 |        | <b>Radio Romania Int'l</b>       | 21530.0af                          |                                     |                                     |                                    |                                     |                        |
| 0700-0800 |        | <b>Radio Australia</b>           | 9660.0pa<br>21725.0as              | 12080.0pa                           | 15240.0pa                           | 15415.0as                          | 17580.0pa                           | 17750.0as              |
| 0700-0800 |        | <b>HCJB Quito Ecuador</b>        | 11680.0eu                          | 11755.0pa                           | 21455.0uf                           |                                    |                                     |                        |
| 0700-1100 |        | <b>Radio Africa, Eq. Guinea</b>  | 15184.6af                          |                                     |                                     |                                    |                                     |                        |
| 0700-0800 | mtwhf  | <b>Radio France Int'l</b>        | 15605.0af                          |                                     |                                     |                                    |                                     |                        |
| 0700-0800 |        | <b>Voice of Hope, Germany</b>    | 5975.0eu                           | 21590.0me                           |                                     |                                    |                                     |                        |
| 0700-1500 | s      | <b>a Italian Radio Relay Svc</b> | 7120.0uf                           | 7125.0af                            |                                     |                                    |                                     |                        |
| 0700-1105 |        | <b>Radio New Zealand Int'l</b>   | 9885.0pa                           |                                     |                                     |                                    |                                     |                        |
| 0700-0900 |        | <b>Voice of Russia</b>           | 15490.0au<br>17795.0as             | 17495.0au                           | 17525.0au                           | 17635.0au                          | 17675.0as                           | 17685.0au              |
| 0700-0800 |        | <b>Radio Taipei Int'l</b>        | 5950.0na                           |                                     |                                     |                                    |                                     |                        |
| 0700-1000 |        | <b>KWHR Naalehu HI</b>           | 11565.0pa                          | 17780.0as                           |                                     |                                    |                                     |                        |
| 0700-0800 |        | <b>WYFR Okeechobee FL</b>        | 7355.0eu                           | 13695.0af                           | 15170.0af                           |                                    |                                     |                        |
| 0705-0712 |        | <b>Croatian Radio, Zagreb</b>    | 13820.0au                          |                                     |                                     |                                    |                                     |                        |
| 0705-0720 |        | <b>BBC English Teaching</b>      | 6005.0af                           |                                     |                                     |                                    |                                     |                        |
| 0730-0800 |        | <b>Georgian Radio, Tbilisi</b>   | 11910.0eu                          |                                     |                                     |                                    |                                     |                        |
| 0730-0815 |        | <b>KTWR Guam</b>                 | 15215.0as                          |                                     |                                     |                                    |                                     |                        |
| 0730-1400 |        | <b>R. E. Highlands, Papua NG</b> | 3395.0do                           |                                     |                                     |                                    |                                     |                        |
| 0730-1400 |        | <b>R. Milne Bay, Papua NG</b>    | 3365.0do                           |                                     |                                     |                                    |                                     |                        |
| 0730-1400 |        | <b>R. S. Highlands, Papua NG</b> | 3275.0do                           |                                     |                                     |                                    |                                     |                        |
| 0730-0800 |        | <b>Swiss Radio Int'l</b>         | 15445.0af                          | 17685.0af                           | 21750.0af                           |                                    |                                     |                        |
| 0730-0800 | mtwhf  | <b>BBC World Service</b>         | 15400.0af                          |                                     |                                     |                                    |                                     |                        |
| 0730-0900 | s      | <b>a BBC World Service</b>       | 15575.0as                          |                                     |                                     |                                    |                                     |                        |
| 0750-0820 | smtwhf | <b>TWR Juelich</b>               | 6045.0eu                           |                                     |                                     |                                    |                                     |                        |
| 0750-0820 | smtwhf | <b>TWR Monte Carlo</b>           | 9870.0eu                           |                                     |                                     |                                    |                                     |                        |

|           |       |                                   |           |           |           |           |           |           |
|-----------|-------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0800-0900 |       | <b>BBC World Service</b>          | 6190.0af  | 11760.0me | 11940.0af | 11955.0as | 12095.0eu | 15310.0as |
|           |       |                                   | 15360.0as | 15485.0eu | 15565.0eu | 17640.0eu | 17760.0as | 17885.0af |
|           |       |                                   | 21470.0af | 21660.0as | 21830.0as |           |           |           |
| 0800-0900 | mtwhf | <b>BBC World Service</b>          | 15400.0af | 17830.0af |           |           |           |           |
| 0800-0830 |       | <b>Radio Australia</b>            | 5995.0pa  | 9580.0pa  | 9710.0pa  | 12080.0pa | 15240.0as | 15415.0as |
|           |       |                                   | 21725.0as |           |           |           |           |           |
| 0800-0900 | mtwhf | <b>BBS, Bhutan</b>                | 5030.0al  | 6035.0do  |           |           |           |           |
| 0800-1100 |       | <b>R. for Peace Int'l</b>         | 15038.8ir |           |           |           |           |           |
| 0800-1200 | s     | <b>a R. for Peace Int'l</b>       | 7445.0uf  |           |           |           |           |           |
| 0800-1100 |       | <b>HCJB Quito Ecuador</b>         | 11755.0pa | 21455.0uf |           |           |           |           |
| 0800-1100 |       | <b>a Scandinavian Weekend R.</b>  | 6170.0va  | 11690.0va |           |           |           |           |
| 0800-1200 |       | <b>Voice of Hope, Germany</b>     | 21590.0me |           |           |           |           |           |
| 0800-0900 |       | <b>Voice of Indonesia</b>         | 9525.0pa  | 11785.0pa | 15150.0pa |           |           |           |
| 0800-0900 | s     | <b>V. of the Mediterranean</b>    | 9605.0eu  |           |           |           |           |           |
| 0800-1700 |       | <b>NBC Windhoek, Namibia</b>      | 6060.0af  | 7165.0af  | 7215.0af  |           |           |           |
| 0800-0900 | s     | <b>Amateur Radio League, SAf</b>  |           | 9750.0af  | 21560.0af |           |           |           |
| 0800-0900 |       | <b>Radio Korea</b>                | 7550.0eu  | 9570.0om  | 13670.0eu |           |           |           |
| 0800-0900 |       | <b>KNLS Anchor Point AK</b>       | 11765.0as |           |           |           |           |           |
| 0800-0900 | a     | <b>Remnants Hope Ministry</b>     | 13810.0as |           |           |           |           |           |
| 0800-1000 |       | <b>VOA</b>                        | 11930.0as | 13610.0as | 15150.0as |           |           |           |
| 0800-0900 |       | <b>WSHB Cypress Creek SC</b>      | 9845.0au  | 9860.0eu  |           |           |           |           |
| 0800-0900 |       | <b>WYFR Okeechobee FL</b>         | 13570.0af |           |           |           |           |           |
| 0810-0830 | s     | <b>Voice of Armenia, Yerevan</b>  | 4810.0eu  | 15270.0eu |           |           |           |           |
| 0815-0845 | f     | <b>FEBA Seychelles</b>            | 15460.0as |           |           |           |           |           |
| 0815-0900 |       | <b>KTWR Guam</b>                  | 15215.0as | 15330.0as |           |           |           |           |
| 0830-0930 |       | <b>AWR Europe, Austria</b>        | 17780.0af |           |           |           |           |           |
| 0830-2130 |       | <b>ABC Alice Springs</b>          | 2310.0do  | 4835.0ir  |           |           |           |           |
| 0830-2130 |       | <b>ABC Katherine</b>              | 2485.0do  |           |           |           |           |           |
| 0830-2130 |       | <b>ABC Tennant Creek</b>          | 2325.0do  |           |           |           |           |           |
| 0830-0900 |       | <b>Radio Australia</b>            | 5995.0pa  | 9580.0pa  | 9710.0pa  | 12080.0pa | 15240.0as | 15415.0as |
|           |       |                                   | 17750.0as | 21725.0as |           |           |           |           |
| 0830-0900 |       | <b>Georgian Radio, Tbilisi</b>    | 11910.0eu |           |           |           |           |           |
| 0830-0900 |       | <b>Swiss Radio Int'l</b>          | 21770.0af |           |           |           |           |           |
| 0840-0850 |       | <b>Turkmen Radio, Asgabat</b>     | 4930.0do  |           |           |           |           |           |
| 0843-0850 |       | <b>Croatian Radio, Zagreb</b>     | 13820.0au |           |           |           |           |           |
| 0900-0929 |       | <b>Radio Prague Int'l</b>         | 21745.0va |           |           |           |           |           |
| 0900-0930 |       | <b>Radio Australia</b>            | 9580.0pa  | 11880.0as | 15240.0as | 21820.0as |           |           |
| 0900-0930 |       | <b>KTWR Guam</b>                  | 15330.0as |           |           |           |           |           |
| 0900-0945 |       | <b>Deutsche Welle</b>             | 6140.0eu  | 6160.0pa  | 9510.0va  | 12035.0af | 15410.0af | 15470.0as |
|           |       |                                   | 17715.0as | 17770.0as | 17800.0af | 17820.0as | 21560.0af | 21780.0af |
|           |       |                                   | 21790.0as |           |           |           |           |           |
| 0900-0956 |       | <b>China Radio Int'l</b>          | 11730.0pa | 15210.0pa |           |           |           |           |
| 0900-1000 |       | <b>Voice Int'l, Australia</b>     | 17645.0as |           |           |           |           |           |
| 0900-1100 |       | <b>KHBN Palau</b>                 | 15725.0as |           |           |           |           |           |
| 0900-1400 |       | <b>Nat'l BC, Papua NG</b>         | 4890.0do  | 9675.0ir  |           |           |           |           |
| 0900-1030 |       | <b>BBC World Service</b>          | 6190.0af  | 6195.0as  | 9605.0as  | 9740.0as  | 11760.0me | 11940.0af |
|           |       |                                   | 11945.0as | 12095.0eu | 15310.0as | 15360.0as | 15485.0eu | 15565.0eu |
|           |       |                                   | 15575.0as | 17640.0eu | 17760.0as | 17790.0as | 17885.0af | 21470.0af |
|           |       |                                   | 21660.0as |           |           |           |           |           |
| 0900-1000 | mtwhf | <b>BBC World Service</b>          | 15190.0sa | 15400.0af | 17830.0af |           |           |           |
| 0900-1200 |       | <b>WRMI Miami FL</b>              | 9955.0am  |           |           |           |           |           |
| 0900-1000 |       | <b>WSHB Cypress Creek SC</b>      | 9455.0sa  | 9860.0eu  |           |           |           |           |
| 0900-1000 |       | <b>WWCR Nashville TN</b>          | 5070.0na  | 5935.0na  | 7560.0na  | 9475.0na  |           |           |
| 0900-1000 | mtwhf | <b>Vatican Radio</b>              | 5890.0eu  |           |           |           |           |           |
| 0915-1200 |       | <b>Ghana Broadcasting Corp.</b>   | 6130.0do  |           |           |           |           |           |
| 0915-1200 | s     | <b>a Ghana Broadcasting Corp.</b> | 4915.0do  |           |           |           |           |           |
| 0930-1000 |       | <b>Radio Australia</b>            | 9580.0pa  | 11880.0as | 15240.0as | 17750.0as | 21820.0as |           |
| 0930-1000 |       | <b>Voice of Greece</b>            | 15630.0eu | 17900.0eu |           |           |           |           |
| 0930-1000 | mtwhf | <b>KTWR Guam</b>                  | 15330.0as |           |           |           |           |           |
| 0930-1000 |       | <b>Radio Vilnius, Lithuania</b>   | 9710.0eu  |           |           |           |           |           |
| 0930-1030 |       | <b>Radio Netherlands</b>          | 9790.0pa  | 12065.0as | 13710.0as |           |           |           |
| 0945-1100 |       | <b>Deutsche Welle</b>             | 6140.0eu  |           |           |           |           |           |
| 1000-1004 |       | <b>Radio Pakistan</b>             | 17520.0eu | 21465.0eu |           |           |           |           |
| 1000-1027 |       | <b>Voice of Vietnam</b>           | 9840.0au  | 12020.0au |           |           |           |           |
| 1000-1030 |       | <b>KSDA Guam</b>                  | 11560.0as | 11930.0as |           |           |           |           |
| 1000-1030 |       | <b>Radio Telefis Eireann</b>      | 15280.0au |           |           |           |           |           |
| 1000-1030 |       | <b>Voice of Mongolia</b>          | 12015.0as |           |           |           |           |           |
| 1000-1030 |       | <b>Sri Lanka B'casting Corp.</b>  | 4940.0in  |           |           |           |           |           |
| 1000-1100 | mtwhf | <b>BBC World Service</b>          | 6195.0ca  |           |           |           |           |           |
| 1000-1100 | s     | <b>a BBC World Service</b>        | 15190.0sa | 15400.0af | 17830.0af |           |           |           |
| 1000-1045 |       | <b>KWHR Naalehu HI</b>            | 9930.0as  | 11565.0pa |           |           |           |           |
| 1000-1056 |       | <b>China Radio Int'l</b>          | 11730.0pa | 15210.0pa |           |           |           |           |
| 1000-1056 |       | <b>Voice of Korea</b>             | 3560.0am  | 9335.0am  | 9850.0as  | 11710.0am | 11735.0as |           |
| 1000-2200 |       | <b>Caribbean Beacon</b>           | 11775.0am |           |           |           |           |           |
| 1000-1100 |       | <b>Radio Australia</b>            | 9580.0pa  | 11880.0as | 15240.0as | 17750.0as | 21820.0as |           |
| 1000-1100 |       | <b>Voice Int'l, Australia</b>     | 13685.0as |           |           |           |           |           |



|           |        |   |                           |           |           |           |           |           |           |  |
|-----------|--------|---|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 1000-1130 | s      | a | BBS, Bhutan               | 5030.0af  | 6035.0do  |           |           |           |           |  |
| 1000-1100 |        | a | Radio Finland             | 15530.0eu | 21520.0as |           |           |           |           |  |
| 1000-2200 |        |   | Voice of Guyana           | 5949.4do  |           |           |           |           |           |  |
| 1000-1100 |        |   | All India Radio, Delhi    | 11585.0as | 13695.0au | 15020.0as | 15260.0au | 17510.0au | 17800.0as |  |
|           |        |   |                           | 17895.0au |           |           |           |           |           |  |
| 1000-1100 |        |   | Radio Japan               | 9695.0as  | 15590.0as | 21755.0pa |           |           |           |  |
| 1000-1200 |        |   | Radio Jordan              | 11690.0eu |           |           |           |           |           |  |
| 1000-1600 |        |   | Radio Nigeria, Lagos      | 4990.0do  | 7285.0do  |           |           |           |           |  |
| 1000-1100 |        |   | VOA                       | 5745.0am  | 7370.0am  | 9590.0am  | 9770.0as  | 15240.0as | 15425.0as |  |
| 1000-1200 |        |   | WEWN Birmingham AL        | 7520.0na  | 15745.0eu |           |           |           |           |  |
| 1000-1300 |        |   | WHRI Noblesville IN       | 6040.0na  | 9495.0am  |           |           |           |           |  |
| 1000-1100 | s      | a | WINB Red Lion PA          | 13570.0am |           |           |           |           |           |  |
| 1000-1100 |        |   | WSHB Cypress Creek SC     | 6095.0am  | 9455.0sa  | 11780.0as |           |           |           |  |
| 1000-1200 |        |   | WVCR 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 |        |   | BBC English Teaching      | 11680.0eu | 15325.0eu | 15335.0eu | 17695.0eu |           |           |  |
| 1030-1035 |        |   | Kol Israel                | 15640.0va | 17545.0va |           |           |           |           |  |
| 1030-1045 | mtwhf  |   | Radio Ethiopia            | 5990.0do  | 7110.0do  | 9704.2do  |           |           |           |  |
| 1030-1057 |        |   | Radio Prague Int'l        | 9880.0eu  | 11615.0eu |           |           |           |           |  |
| 1030-1100 |        |   | KSDA Guam                 | 11560.0as |           |           |           |           |           |  |
| 1030-1130 |        |   | Radio Netherlands         | 5965.0na  | 6045.0eu  | 9790.0pa  | 9860.0eu  | 12065.0as | 13710.0as |  |
| 1030-1130 |        |   | Sri Lanka B'casting Corp. | 4940.0in  | 11835.0as | 15120.0as | 17850.0as |           |           |  |
| 1030-1100 |        |   | Radio Dubai, UAE          | 13675.0eu | 15370.0eu | 15400.0eu | 21597.6eu |           |           |  |
| 1030-1100 |        |   | BBC English Teaching      | 9605.0as  | 11945.0as | 15280.0as | 21660.0as |           |           |  |
| 1030-1100 |        |   | BBC World Service         | 6190.0af  | 6195.0as  | 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 |           |           |           |  |
| 1045-2230 |        |   | KWHR Naalehu HI           | 9930.0as  |           |           |           |           |           |  |
| 1045-1600 | s      | a | KWHR Naalehu HI           | 11565.0pa |           |           |           |           |           |  |
| 1100-1127 |        |   | Voice of Vietnam          | 7285.0as  |           |           |           |           |           |  |
| 1100-1130 |        |   | Radio Australia           | 5995.0pa  | 6020.0pa  | 9475.0as  | 9580.0pa  | 11650.0pa | 11880.0as |  |
|           |        |   |                           | 12080.0pa | 15240.0as | 21820.0as |           |           |           |  |
| 1100-1130 | mtwhf  |   | BBC Caribbean Report      | 6195.0ca  | 15190.0ca |           |           |           |           |  |
| 1100-1130 |        |   | BBC World Service         | 6190.0af  | 6195.0as  | 9740.0as  | 11760.0me | 11940.0af | 12095.0eu |  |
|           |        |   |                           | 15310.0as | 15400.0af | 15485.0eu | 15565.0eu | 15575.0as | 17640.0eu |  |
|           |        |   |                           | 17700.0as | 17760.0as | 17790.0sa | 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  | 15160.0as | 15240.0as |  |
|           |        |   |                           | 15425.0as |           |           |           |           |           |  |
| 1100-1145 |        |   | Deutsche Welle            | 6140.0eu  | 11785.0af | 15410.0af | 17860.0af | 21665.0af |           |  |
| 1100-1700 |        |   | Voice Int'l, Australia    | 13635.0as |           |           |           |           |           |  |
| 1100-1200 |        |   | Radio Bulgaria            | 17500.0eu |           |           |           |           |           |  |
| 1100-2400 |        |   | CBC Northern Service      | 9625.0do  |           |           |           |           |           |  |
| 1100-2000 |        |   | R. for Peace Int'l        | 15038.8ir | 21815.0uf |           |           |           |           |  |
| 1100-1430 |        |   | HCJB Quito Ecuador        | 12005.0am | 15115.0am | 21455.0uf |           |           |           |  |
| 1100-1600 |        | a | Scandinavian Weekend R.   | 5990.0va  | 11720.0va |           |           |           |           |  |
| 1100-1230 |        |   | VOIRI Teheran             | 15215.0as | 15585.0as | 15600.0as | 21470.0as | 21730.0as |           |  |
| 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      | 5019.9ir  | 9545.0ir  |           |           |           |           |  |
| 1100-1200 |        |   | Radio Taipei Int'l        | 7445.0as  | 11985.0as |           |           |           |           |  |
| 1100-1200 |        |   | Radio Ukraine Int'l       | 11840.0as | 15520.0eu |           |           |           |           |  |
| 1100-2400 |        |   | WINB Red Lion PA          | 13570.0am |           |           |           |           |           |  |
| 1100-1200 |        |   | WSHB Cypress Creek SC     | 6095.0am  | 9455.0am  |           |           |           |           |  |
| 1100-1200 |        |   | WYFR Okeechobee FL        | 5850.0na  | 5950.0na  | 11725.0sa |           |           |           |  |
| 1105-1310 |        |   | Radio New Zealand Int'l   | 11675.0pa |           |           |           |           |           |  |
| 1115-1145 |        |   | Radio Nepal, Katmandu     | 3230.0as  | 5005.0as  | 7164.4as  |           |           |           |  |
| 1130-1159 |        |   | R. Vlaanderen Int'l       | 9865.0as  |           |           |           |           |           |  |
| 1130-1200 |        |   | Radio Australia           | 5995.0pa  | 6020.0pa  | 9475.0as  | 9580.0pa  | 11650.0pa | 11880.0as |  |
|           |        |   |                           | 12080.0pa | 21820.0as |           |           |           |           |  |
| 1130-1200 |        |   | ORF Vienna                | 6155.0eu  | 13730.0eu | 21780.0as |           |           |           |  |
| 1130-1200 | wh     |   | Georgian Radio, Tbilisi   | 6080.0me  |           |           |           |           |           |  |
| 1130-1225 |        |   | Radio Netherlands         | 5965.0na  | 6045.0eu  | 9860.0eu  |           |           |           |  |
| 1130-1230 |        |   | Radio Korea               | 9650.0na  |           |           |           |           |           |  |
| 1130-1230 |        |   | Sri Lanka B'casting Corp. | 4940.0in  |           |           |           |           |           |  |
| 1130-1200 |        |   | Radio Sweden              | 17505.0as | 18960.0na |           |           |           |           |  |
| 1130-1200 |        |   | BBC World Service         | 6190.0af  | 6195.0as  | 9740.0as  | 11760.0me | 11940.0af | 12095.0eu |  |
|           |        |   |                           | 15190.0am | 15310.0as | 15485.0eu | 15565.0eu | 15575.0as | 17640.0eu |  |
|           |        |   |                           | 17700.0as | 17760.0as | 17830.0af | 17885.0af | 21470.0af |           |  |
| 1130-1200 | s      | a | BBC World Service         | 6195.0ca  |           |           |           |           |           |  |
| 1130-1200 | f      |   | Vatican Radio             | 15595.0va | 17515.0va |           |           |           |           |  |
| 1140-1150 |        |   | Voice of Africa, Libya    | 15435.0ir | 17750.0ir |           |           |           |           |  |
| 1145-1155 |        |   | Radio Rwanda              | 6055.0do  |           |           |           |           |           |  |
| 1145-1600 |        |   | Deutsche Welle            | 6140.0eu  |           |           |           |           |           |  |
| 1200-1215 |        |   | V. of Cambodia            | 11940.3as |           |           |           |           |           |  |

|           |        |                                  |           |           |           |           |           |           |  |
|-----------|--------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 1200-1215 |        | <b>BBC English Teaching</b>      | 7135.Oas  | 11835.Oas |           |           |           |           |  |
| 1200-1220 |        | <b>BBC World Service</b>         | 6190.Oaf  | 6195.Ova  | 9740.Oas  | 11760.Ome | 11940.Oaf | 12095.Oeu |  |
|           |        |                                  | 15310.Oas | 15485.Oeu | 15565.Oeu | 15575.Ome | 17640.Oeu | 17700.Oas |  |
|           |        |                                  | 17760.Oas | 17830.Oaf | 17885.Oaf | 21470.Oaf |           |           |  |
| 1200-1220 | s      | <b>BBC World Service</b>         | 15190.Oam |           |           |           |           |           |  |
| 1200-1220 | mtwhf  | <b>BBC Caribbean Report</b>      | 6195.Oca  | 15190.Oca |           |           |           |           |  |
| 1200-1230 |        | <b>Radio France Int'l</b>        | 15540.Oaf | 25820.Oaf |           |           |           |           |  |
| 1200-1300 |        | <b>VOA</b>                       | 6160.Oas  | 9645.Oas  | 9760.Oas  | 15160.Oas | 15240.Oas | 15425.Oas |  |
| 1200-1230 |        | <b>Radio Tashkent</b>            | 5975.Oas  | 7285.Oas  | 9715.Oas  | 15295.Oas | 17775.Oas |           |  |
| 1200-1255 |        | <b>Radio Polonia, Warsaw</b>     | 6095.Oeu  | 9525.Oeu  | 11820.Oeu |           |           |           |  |
| 1200-1256 |        | <b>China Radio Int'l</b>         | 9730.Oas  | 9760.Opa  | 11760.Opa | 11980.Oas | 15415.Opa |           |  |
| 1200-1330 |        | <b>Radio Australia</b>           | 5995.Opa  | 6020.Opa  | 9475.Oas  | 9580.Opa  | 11650.Opa | 11880.Oas |  |
|           |        |                                  | 21820.Oas |           |           |           |           |           |  |
| 1200-1300 |        | <b>Radio Canada Int'l</b>        | 9660.Oas  | 15190.Oas |           |           |           |           |  |
| 1200-1300 | mtwhf  | <b>Radio Canada Int'l</b>        | 9515.Ona  | 13655.Ona | 17820.Ona |           |           |           |  |
| 1200-1600 |        | <b>Voice of Hope, China</b>      | 7485.Oas  |           |           |           |           |           |  |
| 1200-1330 |        | <b>Voice of Hope, Germany</b>    | 15715.Ome |           |           |           |           |           |  |
| 1200-1700 |        | <b>Ghana Broadcasting Corp.</b>  | 4915.Odo  | 6130.Odo  |           |           |           |           |  |
| 1200-1500 |        | <b>Radio Jordan</b>              | 11690.Ona |           |           |           |           |           |  |
| 1200-1300 |        | <b>Radio Taipei Int'l</b>        | 7130.Oas  | 9610.Oau  |           |           |           |           |  |
| 1200-1300 |        | <b>Overcomer Ministries</b>      | 5975.Oeu  |           |           |           |           |           |  |
| 1200-1300 | s      | <b>Remnants Hope Ministry</b>    | 6110.Oeu  |           |           |           |           |           |  |
| 1200-1600 |        | <b>WEWN Birmingham AL</b>        | 11875.Ona | 15745.Oeu |           |           |           |           |  |
| 1200-2300 |        | <b>WRMI Miami FL</b>             | 15725.Ona |           |           |           |           |           |  |
| 1200-1300 |        | <b>WSHB Cypress Creek SC</b>     | 6095.Oam  | 9455.Oam  | 9585.Oas  | 9875.Oas  |           |           |  |
| 1200-1300 |        | <b>WWCR Nashville TN</b>         | 7560.Ona  | 12160.Ona | 13845.Ona | 15825.Ona |           |           |  |
| 1200-1300 |        | <b>WYFR Okeechobee FL</b>        | 5850.Ona  | 5950.Ona  | 13695.Ona | 17750.Ona |           |           |  |
| 1215-1330 |        | <b>Radio Cairo</b>               | 17595.Oas |           |           |           |           |           |  |
| 1220-1300 |        | <b>BBC World Service</b>         | 6190.Oaf  | 6195.Ova  | 9740.Oas  | 11760.Ome | 11940.Oaf | 12095.Oeu |  |
|           |        |                                  | 15190.Oam | 15310.Oas | 15485.Oeu | 15565.Oeu | 15575.Ome | 17640.Oeu |  |
|           |        |                                  | 17700.Oas | 17760.Oas | 17830.Oaf | 17885.Oaf | 21470.Oaf |           |  |
| 1230-1245 |        | <b>BBC English Teaching</b>      | 15460.Oaf | 17780.Oaf | 21640.Oaf |           |           |           |  |
| 1230-1257 |        | <b>Voice of Vietnam</b>          | 9840.Oas  | 12020.Oas |           |           |           |           |  |
| 1230-1300 |        | <b>Radio Bangladesh</b>          | 7185.Oas  | 9550.Oas  | 15520.Oas |           |           |           |  |
| 1230-1300 |        | <b>Radio Finland</b>             | 15400.Ona | 17670.Ona |           |           |           |           |  |
| 1230-1330 |        | <b>Voice of Hope, Lebanon</b>    | 17795.Oas |           |           |           |           |           |  |
| 1230-1600 |        | <b>Sri Lanka B'casting Corp.</b> | 4940.Oin  | 6005.Oas  | 6075.Oas  | 9770.Oas  | 15425.Oas |           |  |
| 1230-1300 |        | <b>Radio Sweden</b>              | 17505.Oas | 18960.Ona | 21530.Oas |           |           |           |  |
| 1230-1300 |        | <b>Radio Thailand</b>            | 9885.Oas  |           |           |           |           |           |  |
| 1230-1330 |        | <b>Voice of Turkey</b>           | 17615.Oas | 17830.Oeu |           |           |           |           |  |
| 1230-1300 | a      | <b>Wales Radio Int'l</b>         | 17615.Oau |           |           |           |           |           |  |
| 1245-1300 | a      | <b>FEBA Seychelles</b>           | 15535.Ome |           |           |           |           |           |  |
| 1300-1310 | mtwhfa | <b>Turkmen Radio, Asgabat</b>    | 5015.Odo  |           |           |           |           |           |  |
| 1300-1329 |        | <b>Radio Prague Int'l</b>        | 13580.Oeu | 21745.Oas |           |           |           |           |  |
| 1300-1330 |        | <b>KSDA Guam</b>                 | 15385.Oas |           |           |           |           |           |  |
| 1300-1330 |        | <b>AWR Africa, UAE</b>           | 17740.Oas |           |           |           |           |           |  |
| 1300-1356 |        | <b>China Radio Int'l</b>         | 7405.Ona  | 9570.Ona  | 11760.Opa | 11900.Opa | 11980.Oas | 15180.Oas |  |
| 1300-1356 |        | <b>Voice of Korea</b>            | 4405.Oeu  | 7505.Oeu  | 9335.Ona  | 11335.Oeu | 11710.Ona |           |  |
| 1300-1500 |        | <b>Radio Canada Int'l</b>        | 9515.Ona  | 13655.Ona |           |           |           |           |  |
| 1300-1500 | mtwhf  | <b>Radio Canada Int'l</b>        | 17820.Ona |           |           |           |           |           |  |
| 1300-1500 | s      | <b>Radio Canada Int'l</b>        | 17800.Ona |           |           |           |           |           |  |
| 1300-1500 | s      | <b>Channel Africa, S. Africa</b> | 1720.Oaf  | 17780.Oaf | 21725.Oaf |           |           |           |  |
| 1300-1400 |        | <b>Radio Korea</b>               | 9570.Oas  | 13670.Oom |           |           |           |           |  |
| 1300-2100 |        | <b>Radio Uganda</b>              | 4976.Odo  | 5026.Odo  | 7196.Odo  |           |           |           |  |
| 1300-1400 |        | <b>BBC World Service</b>         | 6190.Oaf  | 6195.Ova  | 9740.Oas  | 11760.Ome | 11940.Oaf | 12095.Oeu |  |
|           |        |                                  | 15190.Oam | 15310.Oas | 15420.Oaf | 15485.Oeu | 15565.Oeu | 15575.Ome |  |
|           |        |                                  | 17640.Oeu | 17700.Oas | 17760.Oas | 17830.Oaf | 17885.Oaf | 21470.Oaf |  |
| 1300-2400 |        | <b>KAIJ Dallas TX</b>            | 13815.Ova |           |           |           |           |           |  |
| 1300-1500 |        | <b>KJES Vado NM</b>              | 11715.Ona |           |           |           |           |           |  |
| 1300-1400 |        | <b>KNLS Anchor Point AK</b>      | 11870.Oas |           |           |           |           |           |  |
| 1300-1500 |        | <b>Overcomer Ministries</b>      | 5975.Oeu  | 13810.Oaf |           |           |           |           |  |
| 1300-1400 |        | <b>VOA</b>                       | 6160.Oas  | 9645.Oas  | 9760.Oas  | 15160.Oas | 15425.Oas |           |  |
| 1300-2000 |        | <b>WBCQ Monticello ME</b>        | 17494.9na |           |           |           |           |           |  |
| 1300-1500 |        | <b>WHRI Noblesville IN</b>       | 6040.Ona  | 15105.Oam |           |           |           |           |  |
| 1300-1400 |        | <b>WSHB Cypress Creek SC</b>     | 9430.Ona  | 9455.Oam  | 9940.Oas  |           |           |           |  |
| 1300-2200 |        | <b>WWCR Nashville TN</b>         | 9475.Ona  | 12160.Ona | 13845.Ona | 15825.Ona |           |           |  |
| 1300-1500 |        | <b>WYFR Okeechobee FL</b>        | 11550.Oas | 11830.Ona | 11865.Osa | 11970.Ona | 17510.Osa | 17750.Ona |  |
| 1310-1650 |        | <b>Radio New Zealand Int'l</b>   | 6095.Ooc  |           |           |           |           |           |  |
| 1330-1345 |        | <b>BBC English Teaching</b>      | 15105.Oaf | 21640.Oaf |           |           |           |           |  |
| 1330-1350 |        | <b>Radio Dubai, UAE</b>          | 13630.Oeu | 13675.Oeu | 15400.Oeu | 21597.6eu |           |           |  |
| 1330-1357 |        | <b>Voice of Vietnam</b>          | 11640.Oeu | 13740.Oeu |           |           |           |           |  |
| 1330-1400 |        | <b>Radio Australia</b>           | 5995.Opa  | 6020.Opa  | 9475.Oas  | 9580.Opa  | 11650.Opa | 11660.Oas |  |
|           |        |                                  | 21820.Oas |           |           |           |           |           |  |
| 1330-1400 |        | <b>ORF Vienna</b>                | 6155.Oeu  | 13730.Oeu |           |           |           |           |  |
| 1330-1430 |        | <b>Voice of Hope, Germany</b>    | 15715.Ome | 15775.Oas | 17550.Oas |           |           |           |  |
| 1330-1400 |        | <b>KSDA Guam</b>                 | 11705.Oas | 11980.Oas |           |           |           |           |  |

|           |        |                                  |           |           |           |           |           |           |  |
|-----------|--------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 1330-1500 |        | <b>All India Radio, Delhi</b>    | 9690.0as  | 11620.0as | 13710.0as |           |           |           |  |
| 1330-1400 |        | <b>Lao Nat'l Radio</b>           | 7145.0do  |           |           |           |           |           |  |
| 1330-1400 |        | <b>Radio Sweden</b>              | 17505.0va | 18960.0na |           |           |           |           |  |
| 1330-1400 |        | <b>AWR Africa, UAE</b>           | 15320.0as |           |           |           |           |           |  |
| 1330-1400 |        | <b>Radio Tashkent</b>            | 5975.0as  | 7285.0as  | 9715.0as  | 15295.0as | 17775.0as |           |  |
| 1400-1415 | mtw    | <b>BBC English Teaching</b>      | 11860.0af | 15420.0af | 21490.0af |           |           |           |  |
| 1400-1430 |        | <b>Radio Mexico Int'l</b>        | 9705.0am  | 11770.0am |           |           |           |           |  |
| 1400-1430 |        | <b>Radio Thailand</b>            | 9830.0as  |           |           |           |           |           |  |
| 1400-1500 |        | <b>BBC World Service</b>         | 6135.0as  | 6190.0af  | 6195.0as  | 9740.0as  | 11940.0af | 12095.0eu |  |
|           |        |                                  | 15190.0am | 15310.0as | 15485.0eu | 15565.0eu | 15575.0me | 17640.0eu |  |
|           |        |                                  | 17700.0as | 17830.0af | 21470.0af | 21660.0af |           |           |  |
|           |        |                                  | 7405.0na  | 9700.0as  | 11675.0as | 13685.0af | 15110.0as | 15125.0af |  |
|           |        |                                  | 17720.0na |           |           |           |           |           |  |
| 1400-1456 |        | <b>China Radio Int'l</b>         | 15250.0eu | 17735.0eu |           |           |           |           |  |
| 1400-1456 |        | <b>Radio Romania Int'l</b>       | 5995.0pa  | 9580.0pa  | 11650.0pa | 11660.0as |           |           |  |
| 1400-1530 |        | <b>Radio Australia</b>           | 11610.0as | 17620.0as |           |           |           |           |  |
| 1400-1500 |        | <b>Radio France Int'l</b>        | 7200.0as  | 9505.0na  | 11730.0as | 17755.0me |           |           |  |
| 1400-1500 |        | <b>Radio Japan</b>               | 15140.0eu |           |           |           |           |           |  |
| 1400-1500 |        | <b>Radio Sultanate Oman</b>      | 7390.0as  | 9745.0as  | 12055.0as | 15560.0as | 17645.0as |           |  |
| 1400-1500 |        | <b>Voice of Russia</b>           | 6150.0do  |           |           |           |           |           |  |
| 1400-1600 |        | <b>SBC Radio 1, Singapore</b>    | 15265.0as |           |           |           |           |           |  |
| 1400-1500 |        | <b>Radio Taipei Int'l</b>        | 6160.0as  | 7125.0as  | 9760.0as  | 15160.0as | 15255.0eu | 15425.0as |  |
| 1400-1500 |        | <b>VOA</b>                       | 3230.0as  | 5005.0as  | 7164.4as  |           |           |           |  |
| 1415-1420 |        | <b>Radio Nepal, Katmandu</b>     | 15715.0me | 17550.0as |           |           |           |           |  |
| 1430-1500 |        | <b>Voice of Hope, Germany</b>    | 15330.0as |           |           |           |           |           |  |
| 1430-1600 |        | <b>KTWR Guam</b>                 | 5985.9do  |           |           |           |           |           |  |
| 1430-1600 |        | <b>Radio Myanmar</b>             | 9890.0as  | 11835.0as | 12075.0as | 15220.0na |           |           |  |
| 1430-1625 |        | <b>Radio Netherlands</b>         | 11600.0as |           |           |           |           |           |  |
| 1445-1500 | f      | <b>FEBA Seychelles</b>           | 11570.0me | 15100.0me | 15725.0af | 17750.0af |           |           |  |
| 1500-1515 |        | <b>Radio Pakistan</b>            | 9705.0am  | 11770.0am |           |           |           |           |  |
| 1500-1530 |        | <b>Radio Mexico Int'l</b>        | 12015.0as |           |           |           |           |           |  |
| 1500-1530 |        | <b>Voice of Mongolia</b>         | 17770.0af |           |           |           |           |           |  |
| 1500-1530 |        | <b>Channel Africa, S. Africa</b> | 5975.0as  | 6135.0as  | 6190.0af  | 6195.0as  | 9740.0as  | 11860.0af |  |
| 1500-1530 |        | <b>BBC World Service</b>         | 11940.0af | 12095.0eu | 15190.0am | 15310.0as | 15400.0af | 15420.0af |  |
|           |        |                                  | 15485.0eu | 15565.0eu | 17700.0as | 17830.0af | 21470.0af | 21490.0af |  |
|           |        |                                  | 21660.0af |           |           |           |           |           |  |
|           |        |                                  | 7125.0as  | 9700.0eu  | 15205.0eu | 15255.0eu |           |           |  |
| 1500-1600 |        | <b>VOA</b>                       | 6160.0as  | 9590.0as  | 9760.0as  | 9845.0as  | 12040.0as | 15550.0as |  |
| 1500-1600 |        | <b>VOA Special English</b>       | 7160.0as  | 9785.0as  | 13685.0af | 15125.0af | 17720.0na |           |  |
| 1500-1556 |        | <b>China Radio Int'l</b>         | 4405.0eu  | 7505.0eu  | 9335.0na  | 11335.3eu | 11710.1na |           |  |
| 1500-1556 |        | <b>Voice of Korea</b>            | 15455.0as | 17720.0as |           |           |           |           |  |
| 1500-1559 |        | <b>Radio Canada Int'l</b>        | 9515.0na  | 13655.0na | 17800.0na |           |           |           |  |
| 1500-1559 | s      | <b>Radio Canada Int'l</b>        | 15715.0me | 15775.0as |           |           |           |           |  |
| 1500-1600 |        | <b>Voice of Hope, Germany</b>    | 3910.0eu  | 6295.0eu  | 12255.0eu |           |           |           |  |
| 1500-2230 | s      | <b>Reflections Europe, Ire.</b>  | 7200.0as  | 9750.0as  | 11730.0as |           |           |           |  |
| 1500-1600 |        | <b>Radio Japan</b>               | 11690.0eu |           |           |           |           |           |  |
| 1500-1600 |        | <b>Radio Jordan</b>              | 4940.0me  | 4965.0me  | 4975.0me  | 7325.0me  | 7390.0as  | 11500.0as |  |
| 1500-1600 |        | <b>Voice of Russia</b>           | 11985.0me |           |           |           |           |           |  |
| 1500-2400 |        | <b>KTBN Salt Lake City UT</b>    | 15590.0na |           |           |           |           |           |  |
| 1500-1600 |        | <b>Overcomer Ministries</b>      | 13810.0af |           |           |           |           |           |  |
| 1500-1800 | a      | <b>Overcomer Ministries</b>      | 6015.0af  |           |           |           |           |           |  |
| 1500-2200 |        | <b>WHRA Greenbush ME</b>         | 17650.0af |           |           |           |           |           |  |
| 1500-1700 |        | <b>WHRI Noblesville IN</b>       | 13760.0va | 15105.0am |           |           |           |           |  |
| 1500-2300 |        | <b>WRNO New Orleans LA</b>       | 7394.3am  | 15420.6al |           |           |           |           |  |
| 1500-1600 |        | <b>WYFR Okeechobee FL</b>        | 6280.0as  | 11830.0na | 15520.0as | 17750.0na |           |           |  |
| 1500-2400 |        | <b>Christian Voice, Zambia</b>   | 4965.0do  |           |           |           |           |           |  |
| 1515-1530 | mtwhf  | <b>FEBA Seychelles</b>           | 11600.0as |           |           |           |           |           |  |
| 1530-1545 |        | <b>Radio Bangladesh</b>          | 4882.0as  | 15520.0as |           |           |           |           |  |
| 1530-1545 |        | <b>FEBA Seychelles</b>           | 11600.0as |           |           |           |           |           |  |
| 1530-1545 |        | <b>BBC English Teaching</b>      | 11685.0as | 15540.0as |           |           |           |           |  |
| 1530-1700 |        | <b>Radio Australia</b>           | 5995.0pa  | 9475.0as  | 9580.0pa  | 11650.0pa | 11660.0as |           |  |
| 1530-1600 |        | <b>ORF Vienna</b>                | 17865.0na |           |           |           |           |           |  |
| 1530-1800 |        | <b>Radio Botswana</b>            | 3356.0do  | 4820.0do  | 7255.0do  |           |           |           |  |
| 1530-1600 |        | <b>Georgian Radio, Tbilisi</b>   | 6180.0me  |           |           |           |           |           |  |
| 1530-1630 |        | <b>VOIRI Teheran</b>             | 7245.0as  | 9635.0as  | 11775.0as |           |           |           |  |
| 1530-1600 |        | <b>BBC World Service</b>         | 5975.0as  | 6135.0as  | 6190.0af  | 6195.0as  | 9740.0as  | 11940.0af |  |
|           |        |                                  | 12095.0eu | 15190.0am | 15310.0as | 15400.0af | 15485.0eu | 15565.0eu |  |
|           |        |                                  | 17700.0as | 17830.0af | 21470.0af | 21660.0af |           |           |  |
| 1540-1550 |        | <b>Turkmen Radio, Ashgabat</b>   | 4930.0do  |           |           |           |           |           |  |
| 1545-1600 | s h    | <b>Radio Bangladesh</b>          | 4882.0as  | 15520.0as |           |           |           |           |  |
| 1545-1600 | sm h a | <b>FEBA Seychelles</b>           | 11600.0as |           |           |           |           |           |  |
| 1550-1610 |        | <b>Vatican Radio</b>             | 12065.0au | 13765.0au | 15235.0au |           |           |           |  |
| 1600-1630 |        | <b>BBC World Service</b>         | 3915.0as  | 5975.0as  | 6190.0af  | 6195.0as  | 9740.0as  | 11940.0af |  |
|           |        |                                  | 9510.0as  | 11940.0af | 12095.0eu | 15190.0am | 15310.0as | 15400.0af |  |
|           |        |                                  | 15485.0eu | 15565.0eu | 17700.0as | 17830.0af | 21470.0af | 21660.0af |  |
| 1600-1627 |        | <b>Radio Prague Int'l</b>        | 5930.0eu  | 21745.0af |           |           |           |           |  |



|           |        |                                  |           |           |           |           |           |           |  |  |
|-----------|--------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
| 1600-1627 |        | <b>Voice of Vietnam</b>          | 11640.0eu | 13740.0eu |           |           |           |           |  |  |
| 1600-1630 |        | <b>Kol Israel</b>                | 15615.0va | 17545.0va |           |           |           |           |  |  |
| 1600-1630 |        | <b>Radio Jordan</b>              | 11690.0na |           |           |           |           |           |  |  |
| 1600-1630 |        | <b>Voice of Hope, Lebanon</b>    | 11705.0as |           |           |           |           |           |  |  |
| 1600-1630 |        | <b>Channel Africa, S. Africa</b> | 9525.0af  |           |           |           |           |           |  |  |
| 1600-1635 |        | <b>Voice of Hope, Germany</b>    | 13810.0af | 15715.0me | 17550.0as |           |           |           |  |  |
| 1600-1635 |        | <b>Radio Dubai, UAE</b>          | 13630.0eu | 13675.0eu | 15400.0eu | 21597.6eu |           |           |  |  |
| 1600-1645 |        | <b>Deutsche Welle</b>            | 6140.0eu  | 6170.0as  | 7225.0as  | 9735.0af  | 11665.0af | 17595.0as |  |  |
|           |        |                                  | 21840.0af |           |           |           |           |           |  |  |
| 1600-1656 |        | <b>China Radio Int'l</b>         | 9565.0af  | 9870.0af  |           |           |           |           |  |  |
| 1600-1656 |        | <b>Voice of Korea</b>            | 3560.0af  | 9975.0af  | 11735.1af |           |           |           |  |  |
| 1600-1700 |        | <b>Radio Algiers</b>             | 11715.0in | 15160.0in |           |           |           |           |  |  |
| 1600-1700 |        | <b>Radio Ethiopia</b>            | 5990.0af  | 7110.0af  | 7165.0af  | 9560.2af  | 9704.2af  | 11800.0af |  |  |
| 1600-2000 |        | <b>a Scandinavian Weekend R.</b> | 6170.0va  | 11720.0va |           |           |           |           |  |  |
| 1600-1700 |        | <b>Radio France Int'l</b>        | 11615.0af | 11995.0af | 12015.0af | 15605.0af | 17605.0af | 17850.0af |  |  |
| 1600-1700 |        | <b>a Voice of Greece</b>         | 9420.0eu  | 15630.0eu | 17705.0na |           |           |           |  |  |
| 1600-2305 |        | <b>Radio Nigeria, Lagos</b>      | 3326.0do  | 4990.0do  |           |           |           |           |  |  |
| 1600-1700 |        | <b>Voice of Russia</b>           | 7350.0as  | 11720.0as | 11985.0me | 12055.0as | 15540.0me |           |  |  |
| 1600-1700 |        | <b>Radio Korea</b>               | 5975.0om  | 9515.0af  | 9870.0af  |           |           |           |  |  |
| 1600-2400 |        | <b>Sri Lanka B'casting Corp.</b> | 4940.0in  |           |           |           |           |           |  |  |
| 1600-1800 |        | <b>Radio Taipei Int'l</b>        | 11550.0as |           |           |           |           |           |  |  |
| 1600-1700 |        | <b>VOA</b>                       | 6035.0af  | 6160.0as  | 7125.0as  | 9700.0eu  | 9760.0as  | 13710.0af |  |  |
|           |        |                                  | 15205.0eu | 15225.0af | 15255.0eu | 15410.0af | 17810.0af |           |  |  |
|           |        |                                  | 13600.0as | 15445.0af | 17895.0af |           |           |           |  |  |
| 1600-1700 |        | <b>VOA Special English</b>       |           |           |           |           |           |           |  |  |
| 1600-1700 |        | <b>WEWN Birmingham AL</b>        | 13615.0na | 15745.0eu |           |           |           |           |  |  |
| 1600-2200 | smtwhf | <b>WMLK Bethel PA</b>            | 9465.0eu  | 15265.0af |           |           |           |           |  |  |
| 1600-1800 |        | <b>WSHB Cypress Creek SC</b>     | 18910.0af |           |           |           |           |           |  |  |
| 1600-2200 |        | <b>WWRB Manchester TN</b>        | 9320.0uf  | 12172.0uf |           |           |           |           |  |  |
| 1600-1700 |        | <b>WYFR Okeechobee FL</b>        | 11830.0na | 13855.0af | 15520.0as | 17750.0na | 18980.0eu | 21455.0eu |  |  |
|           |        |                                  | 21525.0af |           |           |           |           |           |  |  |
| 1600-1900 |        | <b>SWR Africa, Zimbabwe</b>      | 6145.0af  |           |           |           |           |           |  |  |
| 1610-1625 |        | <b>TWR Armenia</b>               | 5855.0eu  |           |           |           |           |           |  |  |
| 1615-1630 | s      | <b>a BBC World Service</b>       | 11860.0af | 15420.0af | 21490.0af |           |           |           |  |  |
| 1615-1630 |        | <b>Vatican Radio</b>             | 4005.0eu  | 5890.0eu  | 7250.0eu  | 9645.0eu  | 15595.0eu |           |  |  |
| 1630-1830 |        | <b>Radio Cairo</b>               | 15255.0af |           |           |           |           |           |  |  |
| 1630-1700 |        | <b>KSDA Guam</b>                 | 9385.0me  | 11850.0me | 15450.0me |           |           |           |  |  |
| 1630-1700 |        | <b>Radio Slovakia Int'l</b>      | 5920.0eu  | 6055.0eu  | 7345.0eu  |           |           |           |  |  |
| 1630-1700 |        | <b>AWR Africa, UAE</b>           | 9600.0me  |           |           |           |           |           |  |  |
| 1630-1700 |        | <b>BBC English Teaching</b>      | 9535.0eu  | 11955.0eu | 13645.0eu |           |           |           |  |  |
| 1630-1700 |        | <b>BBC World Service</b>         | 3915.0as  | 5975.0as  | 6190.0af  | 6195.0as  | 7160.0as  | 9410.0eu  |  |  |
|           |        |                                  | 9510.0as  | 11940.0af | 12095.0eu | 15190.0am | 15310.0as | 15400.0af |  |  |
|           |        |                                  | 15420.0af | 15485.0eu | 15565.0eu | 17700.0as | 17830.0af | 21470.0af |  |  |
|           |        |                                  | 21660.0af |           |           |           |           |           |  |  |
| 1630-1700 | s      | <b>a BBC World Service</b>       | 11860.0af | 21490.0af |           |           |           |           |  |  |
| 1630-2200 |        | <b>Zimbabwe BC Corp.</b>         | 4828.0do  | 6045.0do  |           |           |           |           |  |  |
| 1635-1700 |        | <b>Voice of Hope, Germany</b>    | 13810.0af | 15715.0me |           |           |           |           |  |  |
| 1645-1900 |        | <b>Deutsche Welle</b>            | 6140.0eu  |           |           |           |           |           |  |  |
| 1645-1700 |        | <b>Radio Tajikistan</b>          | 7245.0    |           |           |           |           |           |  |  |
| 1650-1850 | mtwhf  | <b>Radio New Zealand Int'l</b>   | 6095.0pa  |           |           |           |           |           |  |  |
| 1700-1715 |        | <b>Radio Galkayo, Somalia</b>    | 6985.0va  |           |           |           |           |           |  |  |
| 1700-1727 |        | <b>Radio Prague Int'l</b>        | 5930.0eu  | 21745.0af |           |           |           |           |  |  |
| 1700-1727 |        | <b>Voice of Vietnam</b>          | 9725.0eu  |           |           |           |           |           |  |  |
| 1700-1730 |        | <b>Voice of Azerbaijan</b>       | 6110.7eu  | 9155.0in  |           |           |           |           |  |  |
| 1700-1730 |        | <b>Radio France Int'l</b>        | 15605.0af | 17605.0af |           |           |           |           |  |  |
| 1700-1730 |        | <b>Channel Africa, S. Africa</b> | 17860.0af |           |           |           |           |           |  |  |
| 1700-1800 |        | <b>VOA</b>                       | 6160.0as  | 7125.0as  | 7170.0as  | 9645.0as  | 9700.0eu  | 9760.0eu  |  |  |
|           |        |                                  | 15255.0eu | 15410.0af | 15445.0af | 17895.0af |           |           |  |  |
| 1700-1800 | mtwhf  | <b>VOA</b>                       | 5990.0as  | 6045.0as  | 7215.0as  | 9770.0as  | 9785.0as  |           |  |  |
| 1700-1745 |        | <b>BBC World Service</b>         | 3255.0af  | 3915.0as  | 5975.0as  | 6190.0af  | 6195.0eu  | 7160.0as  |  |  |
|           |        |                                  | 9410.0eu  | 9510.0as  | 9630.0af  | 11860.0af | 12095.0eu | 15310.0as |  |  |
|           |        |                                  | 15400.0af | 15420.0af | 15485.0eu | 15565.0eu | 17830.0af | 21470.0af |  |  |
| 1700-1755 |        | <b>Radio Polonia, Warsaw</b>     | 5995.0eu  |           |           |           |           |           |  |  |
| 1700-1756 |        | <b>China Radio Int'l</b>         | 9570.0af  | 9695.0af  | 11920.0af | 15205.0af |           |           |  |  |
| 1700-1756 |        | <b>Radio Romania Int'l</b>       | 11740.0eu | 15365.0eu | 15380.0eu | 17805.0eu |           |           |  |  |
| 1700-1800 |        | <b>Radio Australia</b>           | 5995.0pa  | 9475.0as  | 9580.0pa  | 9815.0pa  | 11880.0pa |           |  |  |
| 1700-2300 |        | <b>Radio Africa, Eq. Guinea</b>  | 7189.7af  | 15184.6af |           |           |           |           |  |  |
| 1700-1900 |        | <b>Radio Africa Int'l</b>        | 13820.0af | 15265.0af |           |           |           |           |  |  |
| 1700-1900 |        | <b>Voice of Hope, Germany</b>    | 9495.0eu  | 15715.0me |           |           |           |           |  |  |
| 1700-2400 |        | <b>Ghana Broadcasting Corp.</b>  | 3366.0do  | 4915.0do  |           |           |           |           |  |  |
| 1700-2200 |        | <b>Italian Radio Relay Svc</b>   | 3980.0af  | 3985.0uf  |           |           |           |           |  |  |
| 1700-1800 |        | <b>Radio Japan</b>               | 9505.0na  | 11970.0eu | 15355.0af |           |           |           |  |  |
| 1700-2400 |        | <b>NBC Windhoek, Namibia</b>     | 3270.1af  | 3290.1af  |           |           |           |           |  |  |
| 1700-1800 |        | <b>Voice of Russia</b>           | 9745.0af  | 9775.0eu  | 9890.0eu  | 11510.0af | 11985.0af |           |  |  |
| 1700-1800 | s      | <b>a Voice of Russia</b>         | 7360.0eu  | 9480.0eu  | 9820.0eu  | 11675.0eu |           |           |  |  |
| 1700-1800 |        | <b>R. Omdurman, Sudan</b>        | 7200.0do  | 9200.0do  | 9505.0do  |           |           |           |  |  |
| 1700-2400 |        | <b>University Network</b>        | 9940.0as  |           |           |           |           |           |  |  |



|           |        |                                  |           |           |           |           |           |           |  |
|-----------|--------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 1900-2000 | a      | <b>Voice of Biafra Int'l</b>     | 12125.0af |           |           |           |           |           |  |
| 1900-2300 |        | <b>Voice of Nigeria</b>          | 7255.0af  | 15120.0af |           |           |           |           |  |
| 1900-2000 |        | <b>R. Central, Papua NG</b>      | 3290.0ir  |           |           |           |           |           |  |
| 1900-2000 |        | <b>Voice of Russia</b>           | 7440.0eu  | 9480.0eu  | 9775.0eu  | 9890.0eu  | 11675.0eu | 12030.0eu |  |
|           |        |                                  | 12070.0eu | 15735.0am |           |           |           |           |  |
| 1900-2400 |        | <b>SIBC Solomon Islands</b>      | 5019.9do  | 9545.0do  |           |           |           |           |  |
| 1900-2000 |        | <b>Radio Korea</b>               | 5975.0om  | 7275.0eu  |           |           |           |           |  |
| 1900-2000 | a      | <b>Sri Lanka B'casting Corp.</b> | 6010.0eu  |           |           |           |           |           |  |
| 1900-2000 |        | <b>Radio Thailand</b>            | 7155.0eu  |           |           |           |           |           |  |
| 1900-2000 | f      | <b>R. UNMEE, UAE</b>             | 13750.0af |           |           |           |           |           |  |
| 1900-2000 |        | <b>BBC World Service</b>         | 3255.0af  | 6005.0af  | 6190.0af  | 6195.0eu  | 9410.0eu  | 9630.0af  |  |
|           |        |                                  | 12095.0af | 15310.0me | 15400.0af | 17830.0af |           |           |  |
| 1900-2000 |        | <b>KJES Vado NM</b>              | 15385.0na |           |           |           |           |           |  |
| 1900-2000 |        | <b>VOA</b>                       | 4950.0af  | 6035.0af  | 6095.0eu  | 6160.0eu  | 7375.0af  | 7415.0af  |  |
|           |        |                                  | 9525.0as  | 9760.0eu  | 9770.0eu  | 11770.0as | 11975.0af | 15180.0as |  |
|           |        |                                  | 15410.0af | 15445.0af | 15580.0af |           |           |           |  |
| 1900-2000 |        | <b>WYFR Okeechobee FL</b>        | 15775.0af | 18930.0eu | 18980.0eu |           |           |           |  |
| 1900-2400 |        | <b>Radio Vanuatu</b>             | 3945.0al  | 7260.0do  |           |           |           |           |  |
| 1915-1925 |        | <b>Radio Rwanda</b>              | 6055.0do  |           |           |           |           |           |  |
| 1915-1930 |        | <b>BBC English Teaching</b>      | 15105.0af | 17885.0af |           |           |           |           |  |
| 1930-1959 |        | <b>R. Vlaanderen Int'l</b>       | 9925.0eu  | 13690.0eu |           |           |           |           |  |
| 1930-2000 |        | <b>AWR Europe, Austria</b>       | 7130.0eu  |           |           |           |           |           |  |
| 1930-2000 | t h    | <b>Radio Minsk, Belarus</b>      | 7105.0eu  | 7210.0eu  |           |           |           |           |  |
| 1930-2030 |        | <b>VOIRI Teheran</b>             | 9800.0af  | 11670.0eu | 11695.0af | 11855.0eu |           |           |  |
| 1930-2230 |        | <b>Nat'l BC, Papua NG</b>        | 4890.0do  | 9675.0ir  |           |           |           |           |  |
| 1930-2230 |        | <b>R. E. Highlands, Papua NG</b> | 3395.0do  |           |           |           |           |           |  |
| 1930-2230 |        | <b>R. Milne Bay, Papua NG</b>    | 3365.0do  |           |           |           |           |           |  |
| 1930-2230 |        | <b>R. S. Highlands, Papua NG</b> | 3275.0do  |           |           |           |           |           |  |
| 1930-2025 |        | <b>Radio Polonia, Warsaw</b>     | 7165.0eu  | 7265.0eu  |           |           |           |           |  |
| 1930-2000 |        | <b>Radio Sweden</b>              | 6065.0eu  |           |           |           |           |           |  |
| 1930-2030 |        | <b>Swiss Radio Int'l</b>         | 13645.0af | 15220.0af | 17580.0af | 17735.0af |           |           |  |
| 1930-2000 |        | <b>Salamaa Radio</b>             | 15250.0af |           |           |           |           |           |  |
| 1930-2000 |        | <b>VOA Special English</b>       | 7260.0eu  | 9680.0me  | 13635.0me | 13725.0me |           |           |  |
| 1935-1955 |        | <b>RAI, Rome</b>                 | 5970.0eu  | 9745.0eu  |           |           |           |           |  |
| 1940-2000 | mtwhfa | <b>Voice of Armenia, Yerevan</b> | 4810.0eu  | 9960.0eu  |           |           |           |           |  |
| 1950-2215 |        | <b>Radio New Zealand Int'l</b>   | 15160.0pa |           |           |           |           |           |  |
| 1950-2000 |        | <b>Vatican Radio</b>             | 4005.0eu  | 5885.0eu  | 7250.0eu  | 9645.0eu  |           |           |  |
| 2000-2010 |        | <b>Vatican Radio</b>             | 4005.0eu  | 5885.0eu  | 7250.0eu  | 9645.0eu  | 9660.0af  | 11625.0af |  |
|           |        |                                  | 13765.0af |           |           |           |           |           |  |
| 2000-2027 |        | <b>Radio Prague Int'l</b>        | 5930.0eu  | 11600.0as |           |           |           |           |  |
| 2000-2030 |        | <b>HCJB Quito Ecuador</b>        | 17660.0eu |           |           |           |           |           |  |
| 2000-2030 |        | <b>Voice of Mongolia</b>         | 12015.0as |           |           |           |           |           |  |
| 2000-2100 |        | <b>BBC World Service</b>         | 3255.0af  | 6005.0af  | 6190.0af  | 6195.0eu  | 9410.0eu  | 9630.0af  |  |
|           |        |                                  | 11835.0af | 12095.0af | 15400.0af | 17830.0af |           |           |  |
| 2000-2030 | mtwhf  | <b>Tomorrow's News Today</b>     | 7590.0eu  |           |           |           |           |           |  |
| 2000-2030 |        | <b>VOA</b>                       | 4950.0af  | 6035.0af  | 6095.0eu  | 7375.0af  | 7415.0af  | 9760.0eu  |  |
|           |        |                                  | 9770.0eu  | 11855.0af | 11975.0af | 15410.0af | 15445.0af | 15580.0af |  |
|           |        |                                  | 17745.0af | 17895.0af |           |           |           |           |  |
| 2000-2045 |        | <b>Deutsche Welle</b>            | 6140.0eu  |           |           |           |           |           |  |
| 2000-2045 |        | <b>Radio Iraq Int'l</b>          | 9687.0ir  | 11787.0ir |           |           |           |           |  |
| 2000-2056 |        | <b>China Radio Int'l</b>         | 9440.0af  | 11640.0af | 11790.0eu | 13630.0af | 15110.0af |           |  |
| 2000-2059 |        | <b>Radio Canada Int'l</b>        | 5850.0va  | 5995.0va  | 11690.0va | 11965.0va | 12015.0va | 15325.0va |  |
|           |        |                                  | 15470.0va | 17870.0va |           |           |           |           |  |
| 2000-2100 |        | <b>Radio Algiers</b>             | 11715.0in | 15160.0in |           |           |           |           |  |
| 2000-2100 |        | <b>Radio Australia</b>           | 9500.0as  | 9580.0pa  | 9815.0pa  | 11880.0pa | 12080.0pa |           |  |
| 2000-2400 |        | <b>R. for Peace Int'l</b>        | 15038.8va | 21815.0uf |           |           |           |           |  |
| 2000-2100 | a      | <b>Scandinavian Weekend R.</b>   | 5990.0va  | 11720.0va |           |           |           |           |  |
| 2000-2100 |        | <b>Voice of Hope, Germany</b>    | 6175.0eu  | 15715.0me |           |           |           |           |  |
| 2000-2100 |        | <b>Voice of Indonesia</b>        | 9525.0eu  | 11785.0eu | 15150.0eu |           |           |           |  |
| 2000-2200 |        | <b>R. Central, Papua NG</b>      | 3290.0do  |           |           |           |           |           |  |
| 2000-2100 |        | <b>Voice of Russia</b>           | 9480.0eu  | 9775.0eu  | 11675.0eu | 12030.0eu | 12070.0eu | 15455.0eu |  |
|           |        |                                  | 15735.0am |           |           |           |           |           |  |
| 2000-2100 |        | <b>AWR Africa, Meyerton</b>      | 9745.0af  |           |           |           |           |           |  |
| 2000-2100 | mtwhf  | <b>Radio Exterior de Espana</b>  | 9570.0af  | 15290.0eu |           |           |           |           |  |
| 2000-2100 |        | <b>Radio Damascus</b>            | 12085.0eu | 13610.0eu |           |           |           |           |  |
| 2000-2100 |        | <b>WBCQ Monticello ME</b>        | 7415.0na  | 17494.9na |           |           |           |           |  |
| 2000-2400 |        | <b>WHRI Noblesville IN</b>       | 5745.0va  | 9495.0am  |           |           |           |           |  |
| 2000-2100 |        | <b>WYFR Okeechobee FL</b>        | 13855.0af | 15775.0af | 17725.0sa | 17845.0af | 18980.0eu |           |  |
| 2010-2030 |        | <b>Vatican Radio</b>             | 9660.0af  | 11625.0af | 13765.0af |           |           |           |  |
| 2025-2045 |        | <b>RAI, Rome</b>                 | 9670.0af  | 11880.0af |           |           |           |           |  |
| 2030-2045 |        | <b>Radio Thailand</b>            | 9680.0eu  |           |           |           |           |           |  |
| 2030-2057 |        | <b>Voice of Vietnam</b>          | 11640.0eu | 13740.0eu |           |           |           |           |  |
| 2030-2100 | t h    | <b>Radio Minsk, Belarus</b>      | 7105.0eu  | 7210.0eu  |           |           |           |           |  |
| 2030-2130 |        | <b>Radio Havana Cuba</b>         | 13660.0uf | 13750.0eu |           |           |           |           |  |
| 2030-2200 |        | <b>HCJB Quito Ecuador</b>        | 17660.0eu | 21455.0uf |           |           |           |           |  |
| 2030-2115 |        | <b>Radio Cairo</b>               | 15375.0af |           |           |           |           |           |  |



|           |        |                                    |           |           |           |           |           |           |  |
|-----------|--------|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| 2030-2130 |        | <b>Voice of Turkey</b>             | 9525.0as  |           |           |           |           |           |  |
| 2030-2100 | f      | <b>Wales Radio Int'l</b>           | 7325.0eu  |           |           |           |           |           |  |
| 2030-2100 |        | <b>VOA</b>                         | 6035.0af  | 6095.0eu  | 7375.0af  | 7415.0af  | 9760.0eu  | 9770.0eu  |  |
|           |        |                                    | 11975.0af | 15410.0af | 15445.0af | 15580.0af | 17745.0af | 17895.0af |  |
| 2030-2100 | s      | <b>VOA</b>                         | 4950.0af  |           |           |           |           |           |  |
| 2030-2100 |        | <b>Radio Tashkent</b>              | 5025.0eu  | 9545.0eu  | 11905.0eu |           |           |           |  |
| 2040-2050 |        | <b>Voice of Africa, Libya</b>      | 15435.0ir | 17750.0ir |           |           |           |           |  |
| 2045-2100 |        | <b>All India Radio, Delhi</b>      | 7150.0au  | 7410.0eu  | 9650.0eu  | 9910.0au  | 11620.0au | 11715.0au |  |
| 2100-2130 |        | <b>BBC World Service</b>           | 3915.0as  | 5965.0as  | 6005.0af  | 6190.0af  | 6195.0as  | 6195.0eu  |  |
|           |        |                                    | 9410.0eu  | 11835.0af | 11945.0af | 12095.0sa | 15400.0af |           |  |
| 2100-2115 | mtwhf  | <b>BBC World Service</b>           | 5975.0ca  |           |           |           |           |           |  |
| 2100-2130 |        | <b>Radio Australia</b>             | 7240.0pa  | 9500.0as  | 9580.0pa  | 9660.0pa  | 11880.0pa | 12080.0pa |  |
|           |        |                                    | 17715.0pa | 21740.0pa |           |           |           |           |  |
| 2100-2130 |        | <b>Radio Canada Int'l</b>          | 5850.0va  | 7235.0va  | 13690.0va | 15325.0va | 17870.0va |           |  |
| 2100-2130 |        | <b>China Radio Int'l</b>           | 11640.0af | 11790.0af | 13630.0af | 15110.0af |           |           |  |
| 2100-2130 |        | <b>Radio Budapest</b>              | 3975.0eu  | 6025.0eu  |           |           |           |           |  |
| 2100-2130 |        | <b>Radio Mexico Int'l</b>          | 9705.0am  | 11770.0am |           |           |           |           |  |
| 2100-2130 |        | <b>Radio Korea</b>                 | 3955.0eu  | 15575.0eu |           |           |           |           |  |
| 2100-2130 |        | <b>Radio Yugoslavia</b>            | 6100.0in  |           |           |           |           |           |  |
| 2100-2145 |        | <b>Deutsche Welle</b>              | 9670.0as  | 9765.0as  | 9875.0af  | 11865.0af | 11915.0as | 15135.0af |  |
| 2100-2156 |        | <b>Voice of Korea</b>              | 4405.0eu  | 7505.1eu  | 11335.0eu |           |           |           |  |
| 2100-2156 |        | <b>Radio Romania Int'l</b>         | 9510.0eu  | 9725.0eu  | 11740.0eu | 11940.0eu |           |           |  |
| 2100-2200 |        | <b>R. Nacional de Angola</b>       | 3374.9va  | 7216.8va  |           |           |           |           |  |
| 2100-2200 |        | <b>AWR Europe, Austria</b>         | 15355.0af |           |           |           |           |           |  |
| 2100-2200 |        | <b>Radio Bulgaria</b>              | 9400.0eu  |           |           |           |           |           |  |
| 2100-2300 | f      | <b>Scandinavian Weekend R.</b>     | 6170.0va  | 11690.0va |           |           |           |           |  |
| 2100-2230 |        | <b>All India Radio, Delhi</b>      | 7150.0va  | 7410.0eu  | 9650.0eu  | 9910.0au  | 11620.0au | 11715.0au |  |
| 2100-2200 |        | <b>Radio Japan</b>                 | 6035.0eu  | 6055.0eu  | 6180.0eu  | 11830.0eu | 11855.0af | 17825.0na |  |
|           |        |                                    | 17860.0pa | 21670.0pa |           |           |           |           |  |
| 2100-2200 | s      | <b>Radio Exterior de Espana</b>    | 9570.0af  | 9840.0eu  |           |           |           |           |  |
| 2100-2200 |        | <b>Radio Damascus</b>              | 12085.0na | 13610.0na |           |           |           |           |  |
| 2100-2200 |        | <b>Radio Ukraine Int'l</b>         | 5905.0eu  | 6020.0eu  | 9950.0eu  | 11705.0eu | 11950.0eu |           |  |
| 2100-2200 |        | <b>VOA</b>                         | 6035.0af  | 6040.0eu  | 6095.0eu  | 7375.0af  | 7415.0af  | 9530.0eu  |  |
|           |        |                                    | 9705.0as  | 9760.0eu  | 11870.0as | 11975.0af | 13765.0as | 15185.0as |  |
|           |        |                                    | 15410.0af | 15445.0af | 15580.0af | 17740.0as | 17820.0as | 17895.0af |  |
|           |        |                                    | 7415.0na  | 9335.0na  |           |           |           |           |  |
| 2100-2400 |        | <b>WBCQ Monticello ME</b>          | 13855.0af | 15120.0af | 17725.0sa | 17845.0af | 18980.0eu |           |  |
| 2100-2200 |        | <b>WYFR Okeechobee FL</b>          | 5975.0ca  | 11675.0ca | 15390.0ca |           |           |           |  |
| 2115-2130 | mtwhf  | <b>BBC Caribbean Report</b>        | 5975.0ca  |           |           |           |           |           |  |
| 2115-2130 | s      | <b>BBC World Service</b>           | 5975.0ca  |           |           |           |           |           |  |
| 2115-2200 |        | <b>Radio Cairo</b>                 | 9990.0eu  | 15375.0af |           |           |           |           |  |
| 2130-2145 | t      | <b>BBC Calling Falklands</b>       | 11720.0sa |           |           |           |           |           |  |
| 2130-2156 |        | <b>China Radio Int'l</b>           | 11790.0eu | 15110.0eu |           |           |           |           |  |
| 2130-2157 |        | <b>Radio Prague Int'l</b>          | 11600.0as | 15545.0af |           |           |           |           |  |
| 2130-2200 |        | <b>Radio Tirana, Albania</b>       | 7130.1eu  | 9540.2eu  |           |           |           |           |  |
| 2130-2400 |        | <b>ABC Alice Springs</b>           | 2310.0ir  | 4835.0do  |           |           |           |           |  |
| 2130-2400 |        | <b>ABC Katherine</b>               | 5025.0do  |           |           |           |           |           |  |
| 2130-2400 |        | <b>ABC Tennant Creek</b>           | 4910.0do  |           |           |           |           |           |  |
| 2130-2200 |        | <b>Radio Australia</b>             | 7240.0pa  | 9660.0pa  | 11880.0pa | 12080.0pa | 17715.0pa | 21740.0pa |  |
| 2130-2200 | smtwhf | <b>ORF Vienna</b>                  | 5945.0eu  | 6155.0eu  |           |           |           |           |  |
| 2130-2200 |        | <b>KSDA Guam</b>                   | 11850.0as | 11980.0as |           |           |           |           |  |
| 2130-2230 |        | <b>VOIRI Teheran</b>               | 9570.0au  | 13665.0au |           |           |           |           |  |
| 2130-2200 |        | <b>Radio Korea</b>                 | 15575.0eu |           |           |           |           |           |  |
| 2130-2200 |        | <b>Radio Sweden</b>                | 6065.0eu  | 15255.0as |           |           |           |           |  |
| 2130-2200 |        | <b>BBC World Service</b>           | 3915.0as  | 5965.0as  | 5975.0ca  | 6005.0af  | 6190.0af  | 6195.0as  |  |
|           |        |                                    | 6195.0eu  | 9410.0eu  | 11835.0af | 11945.0as | 12095.0sa | 15400.0af |  |
| 2130-2200 |        | <b>Radio Tashkent</b>              | 5025.0eu  | 9545.0eu  | 11905.0eu |           |           |           |  |
| 2200-2230 |        | <b>Radio Canada Int'l</b>          | 6175.0am  | 9590.0am  | 11920.0am | 13670.0am | 15305.0am | 17695.0am |  |
|           |        |                                    | 17880.0am |           |           |           |           |           |  |
| 2200-2230 | mtwhf  | <b>Radio Mexico Int'l</b>          | 9705.0am  | 11770.0am |           |           |           |           |  |
| 2200-2400 |        | <b>VOA</b>                         | 7215.0as  | 9705.0as  | 9770.0as  | 11760.0as | 13765.0as | 15185.0as |  |
|           |        |                                    | 15290.0as | 15305.0as | 17740.0as | 17820.0as |           |           |  |
| 2200-2230 | mtwhf  | <b>VOA</b>                         | 5855.0af  | 6035.0af  | 7375.0af  | 7415.0af  | 11975.0af |           |  |
| 2200-2230 | smtwhf | <b>Radio Yugoslavia</b>            | 7230.0in  |           |           |           |           |           |  |
| 2200-2245 |        | <b>Radio Cairo</b>                 | 9990.0eu  |           |           |           |           |           |  |
| 2200-2256 |        | <b>China Radio Int'l</b>           | 9880.0eu  |           |           |           |           |           |  |
| 2200-2400 |        | <b>Caribbean Beacon</b>            | 6090.0am  |           |           |           |           |           |  |
| 2200-2300 |        | <b>Radio Australia</b>             | 13620.0as | 15240.0as | 17715.0pa | 17795.0va | 21740.0pa |           |  |
| 2200-2400 |        | <b>Voice of Guyana</b>             | 3291.3do  | 5949.4do  |           |           |           |           |  |
| 2200-2300 | s      | <b>f a Italian Radio Relay Svc</b> | 7120.0uf  | 7125.0af  |           |           |           |           |  |
| 2200-2300 |        | <b>Radio Taipei Int'l</b>          | 15600.0eu |           |           |           |           |           |  |
| 2200-2300 |        | <b>Voice of Turkey</b>             | 11960.0va | 12000.0va |           |           |           |           |  |
| 2200-2300 |        | <b>BBC World Service</b>           | 5965.0as  | 5975.0ca  | 6195.0va  | 7105.0as  | 11685.0as | 11835.0af |  |
|           |        |                                    | 12095.0sa | 15400.0af |           |           |           |           |  |
| 2200-2400 |        | <b>WEWN Birmingham AL</b>          | 9975.0na  | 17595.0af |           |           |           |           |  |
| 2200-2300 |        | <b>WHRA Greenbush ME</b>           | 17650.0eu |           |           |           |           |           |  |
| 2200-2400 |        | <b>WSHB Cypress Creek SC</b>       | 13770.0eu | 15285.0sa |           |           |           |           |  |

|           |                                  |           |           |           |           |           |           |  |  |
|-----------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|
| 2200-2300 | <b>WVCR Nashville TN</b>         | 7435.0na  | 9475.0na  | 12160.0na | 13845.0na |           |           |  |  |
| 2200-2400 | <b>WWRB Manchester TN</b>        | 6890.0uf  | 12172.0uf |           |           |           |           |  |  |
| 2200-2300 | <b>WYFR Okeechobee FL</b>        | 11740.0na | 15695.0eu | 17845.0af |           |           |           |  |  |
| 2205-2230 | <b>RAI, Rome</b>                 | 11900.0as | 15265.0as |           |           |           |           |  |  |
| 2215-2400 | <b>Radio New Zealand Int'l</b>   | 17675.0pa |           |           |           |           |           |  |  |
| 2230-2257 | <b>Radio Prague Int'l</b>        | 11600.0na | 15545.0na |           |           |           |           |  |  |
| 2230-2259 | <b>R. Vlaanderen Int'l</b>       | 15565.0na |           |           |           |           |           |  |  |
| 2230-2400 | <b>Radio Canada Int'l</b>        | 6175.0na  | 9590.0na  | 13670.0na | 17695.0na |           |           |  |  |
| 2230-2330 | <b>Radio Havana Cuba</b>         | 9550.0am  |           |           |           |           |           |  |  |
| 2230-2400 | <b>Nat'l BC, Papua NG</b>        | 9675.0do  | 11880.0ir |           |           |           |           |  |  |
| 2230-2400 | <b>KWHR Naalehu HI</b>           | 17510.0as |           |           |           |           |           |  |  |
| 2245-2400 | <b>All India Radio, Delhi</b>    | 9705.0as  | 9950.0as  | 11620.0as | 13605.0as |           |           |  |  |
| 2300-2330 | <b>Radio Australia</b>           | 9660.0pa  | 12080.0pa | 13620.0as | 15240.0as | 17715.0pa | 17795.0pa |  |  |
|           |                                  | 21740.0pa |           |           |           |           |           |  |  |
| 2300-2356 | <b>China Radio Int'l</b>         | 5990.0na  | 13680.0na |           |           |           |           |  |  |
| 2300-2330 | <b>BBC World Service</b>         | 3915.0as  | 5965.0as  | 5975.0ca  | 6195.0as  | 7105.0as  | 11685.0as |  |  |
|           |                                  | 11945.0as | 11955.0as | 12095.0sa | 15280.0as |           |           |  |  |
| 2300-2330 | <b>VOA Special English</b>       | 7190.0as  | 7200.0as  | 9545.0as  | 11925.0as | 13775.0as |           |  |  |
| 2300-2345 | <b>Deutsche Welle</b>            | 9815.0as  | 12000.0as | 17560.0as | 21790.0as |           |           |  |  |
| 2300-2356 | <b>Radio Romania Int'l</b>       | 9570.0eu  | 11740.0na | 11775.0eu | 15105.0na |           |           |  |  |
| 2300-2400 | <b>Radio Bulgaria</b>            | 9400.0na  |           |           |           |           |           |  |  |
| 2300-2400 | <b>Radio Cairo</b>               | 9900.0am  |           |           |           |           |           |  |  |
| 2300-2400 | f <b>Scandinavian Weekend R.</b> | 5980.0va  | 11690.0va |           |           |           |           |  |  |
| 2300-2400 | <b>SBC Radio 1, Singapore</b>    | 6150.0do  |           |           |           |           |           |  |  |
| 2300-2400 | <b>WHRA Greenbush ME</b>         | 7580.0eu  |           |           |           |           |           |  |  |
| 2300-2400 | s a <b>WRMI Miami FL</b>         | 9955.0am  |           |           |           |           |           |  |  |
| 2300-2400 | mtwhf <b>WRMI Miami FL</b>       | 7385.0na  |           |           |           |           |           |  |  |
| 2300-2400 | <b>WRND New Orleans LA</b>       | 7354.4va  |           |           |           |           |           |  |  |
| 2300-2400 | s a <b>WWBS Macon GA</b>         | 11910.0uf |           |           |           |           |           |  |  |
| 2300-2400 | <b>WVCR Nashville TN</b>         | 5070.0na  | 7435.0na  | 9475.0na  | 13845.0na |           |           |  |  |
| 2300-2400 | <b>WYFR Okeechobee FL</b>        | 5985.0sa  | 11740.0na | 11855.0sa | 15255.0sa | 17750.0sa |           |  |  |
| 2305-2312 | <b>Croatian Radio, Zagreb</b>    | 9925.0sa  |           |           |           |           |           |  |  |
| 2330-2357 | <b>Voice of Vietnam</b>          | 9840.0as  | 12020.0as |           |           |           |           |  |  |
| 2330-2400 | <b>Radio Australia</b>           | 9660.0pa  | 11695.0as | 12080.0pa | 13620.0as | 15240.0as | 15415.0as |  |  |
|           |                                  | 17715.0pa | 17795.0pa | 21740.0pa |           |           |           |  |  |
| 2330-2400 | <b>Voice of Hope, Lebanon</b>    | 6025.0as  |           |           |           |           |           |  |  |
| 2330-2400 | <b>Radio Vilnius, Lithuania</b>  | 9875.0na  |           |           |           |           |           |  |  |
| 2330-2400 | <b>Radio Netherlands</b>         | 6165.0na  | 9845.0na  |           |           |           |           |  |  |
| 2330-2400 | <b>Swiss Radio Int'l</b>         | 9885.0sa  | 11905.0sa |           |           |           |           |  |  |
| 2330-2400 | <b>BBC World Service</b>         | 3915.0as  | 5965.0as  | 5975.0ca  | 6195.0as  | 7105.0as  | 9580.0as  |  |  |
|           |                                  | 11685.0as | 11945.0as | 11955.0as | 12095.0sa | 15280.0as |           |  |  |
| 2330-2400 | <b>VOA Special English</b>       | 7190.0as  | 7200.0as  | 7225.0as  | 7260.0as  | 9545.0as  | 11805.0as |  |  |
|           |                                  | 11925.0as | 13735.0as | 13775.0as | 15205.0as |           |           |  |  |
| 2340-2350 | <b>Voice of Africa, Libya</b>    | 15435.0ir | 17750.0ir |           |           |           |           |  |  |
| 2345-2400 | <b>Radio Pakistan</b>            | 11580.0as | 15455.7as |           |           |           |           |  |  |
| 24hr-     | <b>CFRX Toronto ON</b>           | 6070.0in  |           |           |           |           |           |  |  |
| 24hr-     | <b>CFVP Calgary AB</b>           | 6030.0do  |           |           |           |           |           |  |  |
| 24hr-     | <b>CKZN Saint John's NL</b>      | 6160.0do  |           |           |           |           |           |  |  |
| 24hr-     | <b>CKZU Vancouver BC</b>         | 6160.0do  |           |           |           |           |           |  |  |
| 24hr-     | <b>ZLXA New Zealand</b>          | 3935.0do  |           |           |           |           |           |  |  |
| 24hr-     | <b>R. UNAMSIL, Sierra Leone</b>  | 6137.8af  |           |           |           |           |           |  |  |
| 24hr-     | <b>University Network</b>        | 5029.1am  | 6150.0am  | 7375.0am  | 9725.0sa  | 11869.9am | 13749.9na |  |  |
| 24hr-     | <b>AFRTS</b>                     | 3903.0uf  | 4278.5uf  | 4319.0uf  | 4993.0uf  | 6350.0uf  | 6458.5uf  |  |  |
|           |                                  | 10320.0uf | 12579.0uf | 12689.5uf | 13362.0uf |           |           |  |  |
| 24hr-     | <b>WJCR Upton KY</b>             | 7490.0am  | 13595.0as |           |           |           |           |  |  |
| 24hr-     | <b>WTJC Newport NC</b>           | 9370.0na  |           |           |           |           |           |  |  |

**Key:**

| Days:         | Target Areas:        | Other Notes:         |
|---------------|----------------------|----------------------|
| s - Sunday    | na - North America   | va - Various         |
| m - Monday    | ca - Central America | do - Domestic        |
| t - Tuesday   | sa - South America   | om - Omnidirectional |
| w - Wednesday | am - Americas        |                      |
| h - Thursday  | eu - Europe          | in - Inactive        |
| f - Friday    | af - Africa          | ir - Irregular       |
| a - Saturday  | me - Middle East     | oc - Occasional      |
|               | as - Asia            | al - Alternate       |
|               | pa - Pacific         | lf - Lower Sideband  |
|               |                      | uf - Upper Sideband  |

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|   |  |
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