

# The **NASA** Journal

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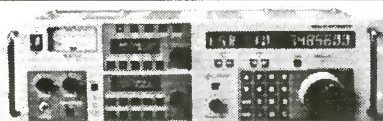


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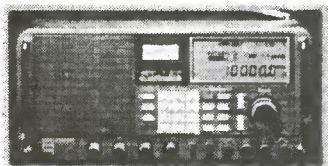


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Yikes, it is December already! It looks like we can say another year is down the drain. Yes, it is time to wrap up another year with some seasonal holiday cheer and new years resolutions. If you have not made up your holiday wish list, now might be a good time to take care of making sure someone in your family remembers to get that important radio-related gismo for you this season. Of course, best wishes for the holiday season from your favorite shortwave club to our favorite shortwave club members.

Our first DXpedition of the season is over. I am happy to report that Fred Kohlbrenner, Bob Montgomery, Ed Mauger, Kris Field and I managed to survive yet another outing to French Creek State Park. See the Musings column for more about this adventure.

**Adrian Peterson** announced the winners of AWR "New Millennium" DX Contest: "This year's two winners are located in India and in Germany. They are Jose Jacob VU2JOS at the National Institute of Amateur Radio in Hyderabad India, and Thomas Drescher at Rosrath in Germany. The major requirement in this year's "New Millennium" contest was to indicate the number of different AWR QSL stamps in the listener's collection; each supported by a valid AWR QSL card. Jose Jacob numbers his total collection of AWR QSL stamps at 384, with more than 200 different notations, each supported by a valid AWR QSL card. His collection contains many copies of the first series of AWR QSL stamps as well as the current series. In view of the fact that Jose Jacob is also on the air in "Wavescan" with his Asian DX Report, it was decided to add another First Place Winner. Thomas Drescher of Rosrath in Germany numbers his

total collection of AWR QSL stamps at 120 with all different at 64 each supported by a valid AWR QSL card. Both contestants will receive the 2000 Bronze Medallion, as well as an autographed copy of Jerry Berg's highly acclaimed book, *On the Short Waves*. Another major segment in this year's contest was to make suggestions regarding future AWR DX contests. Many excellent suggestions were given, and we choose one of these for next year's contest, in the year 2001. Jose Jacob suggested that we search for the world's most beautiful QSL cards and next September we will invite contestants to list what they consider are the five most beautiful QSL cards in their collection, in any mode of radio transmission. Watch for the details around midyear 2001."

**Bob Raymond** <bob.raymond@dxtreme.com>, President of DXTreme Software has informed us that it has released its latest version of a logging software system for Windows based computers, DXTreme Reception Log 2000 ("RL2000"). It is designed to provide casual and serious listeners and DXers with a straightforward, affordable, and powerful logging and reporting system. Basically, RL2000 lets listeners and DXers: Log the stations they have heard; Record and playback audio clips of the stations they have logged; Create customized paper and electronic reception reports; Scan, import, store, and view paper and electronic QSLs; Track the performance of their monitoring stations; Electronically report loggings and QSL reports to radio clubs and publications. RL2000 retails for US\$59.95 including shipping in North America or US\$61.95 including shipping outside North America. Special pricing exists for DXTreme Software custom-

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**Our Motto is - "Unity and Friendship"**

**NASA**

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


ers upgrading from previous versions of RL2000. You can learn more about or order Dxtreme RL2000 by visiting Dxtreme Software on the Web at <http://www.dxtreme.com>.

Another useful hobby resource guide is about to be issued. *The 2001 Shortwave Frequency Guide, Fifth Edition*, published by Klingenfuss Publications (Hagenloher Str. 14, D-72070 Tuebingen, Germany or e-mail [klingenfuss@compuserve.com](mailto:klingenfuss@compuserve.com)) is scheduled for release on December 10, 2000. Billed as "simply the most up-to-date worldwide shortwave radio handbook available today," the 500+ page guide is a useful addition to any listening shack. The direct price of 35 Euros, about US\$30.00 depending upon exchange rates, includes worldwide shipping. The use of computer-to-plate technology limits production time to just 10 days. Since Joerg Klingenfuss does not accept paid advertisements from the industry, his guide often contains some sharp opinions. We should have a review of the 2001 Guide in an upcoming Shortwave Center column.

Just a brief reminder to add the following new radio country, Diego Garcia, to the NASWA Country List, under ASIA, BRITISH INDIAN OCEAN TERRITORY. Also, in the Gazetteer section of the list, add the following country and data, BRITISH INDIAN OCEAN TERRITORY (AS)

UK Overseas Dependency formed in 1965, comprising islands of Chagos Archipelago since 1976; Station location: Diego Garcia (AFRTS transmissions activated August, 2000). Thanks to Chairman Don Jensen and Country List Committee members Jerry Berg, John Bryant, David Clark, Harold Cones, John Fisher, and John Herkimer for the Christmas cheer. Speaking of the club's Country List and Awards booklet, it is still available direct from the Company Store for just US\$3.00 in North America or US\$5.00 overseas. Also, thanks to the combined efforts of John Herkimer and webmaster Ralph Brandi you can now find the Country List and Awards booklet available online for downloading at our website in PDF format.

Finally, it is never too early to begin planning to attend a convention or two. The Winter SWL Festival is just around the corner so it is time to make your plans. Also, we just got word the 2001 WTFDA Convention will be held in Boise ID at the Owyhee Plaza Hotel from 27-29 July. Keep watching the Calendar of Events for more details over the coming months or by contacting the organizers directly at [N7SOK@aol.com](mailto:N7SOK@aol.com) or by writing to 4096 Marcia Place, Boise ID 83704.

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](mailto:rdangelo3@aol.com).*

**Ed Newbury <[newbury@megavision.com](mailto:newbury@megavision.com)>, KC0GDG, Kimball, NE 69145**

### *Reflections on a friend*

I moved to Nebraska in January 1990. I lived in a small town in cattle country called Mullen. It was in the Sandhills, and believe me, it was rural. There were more cattle on one medium size ranch than there were people in the whole county. One morning I was in Big Red's having coffee and chewing the rag with the guys when I overheard Jake the telephone man talking about his shortwave radio. I engaged him in conversation and soon afterward I purchased my DX-440. In the summer of '91 I purchased the Drake R8.

In December I moved to Gordon where I continued my shortwave listening. It must have been that winter that I was talking to another avid shortwave buff that he mentioned that I might enjoy talking with a dedicated DXer and shortwave listener in Lubbock, Texas, Gigi Lytle. Why not, I asked myself. I phoned her. And there started a wonderful friendship.

Over the years I guess we talked by phone about three times a month; sometimes more often. We finally met at the Grove shindig in Atlanta. And it seemed like old friends were meeting. We met a few other times, one or two being at the NASWA Winterfest. Then two summers ago I made the trip to Lubbock and visited Gigi and Tom for a few days.

By phone we talked of many things. Most times we would share our radio and Dxing experiences. But other times there were conversations about bird watching, rock collecting, even cooking. She shared experiences as a Girl Scout leader and a lover of all children. And Gigi shared her passion for the hobby of shortwave. Gigi loved the hobby. She enjoyed it immensely. She had fun with it. And she enjoyed it just for the sake of shortwave listening. Skip Arey in his book, *Radio Monitoring*, asks "are we still having fun?" Gigi's answer to that in her West Texas draw would be, "of course I am."

Gigi won a trip to China was a result of her listening to China Radio International. Believe me, she had stories to tell about that one! Gigi had radio friends in England, New Zealand, Romania, the United States, and other places as well. One time there was going to be a sign-on for some station she was interested in and there was adjacent signal interference from the Voice of America. So she wrote the station engineer of that relay site telling him the problem and asking if he could wait a minute before signing on so she could get the other station's ID. She promised him a tin of homemade cookies. I understand that the reply was something like, "it was the cookies that did it."

And Gigi was also an authentic human being. One time when I was hurting I called her and shared my pain with her. It was a good conversation. And I was happy I was able to do that as our friendship grew. But Gigi also was friends of domestic and stray cats like Mr. O So Sneaky and Bandit plus a couple of others whose names I've forgotten. Consequently we would share experiences of her felines and my Charlie Magnifi-CAT.

I'm sure I could write more, but you get the idea. Gigi was a true friend. I am grateful to God, my Higher Power, that I had the privilege of knowing her. I'm sure many of us will miss her; I know I will. Rest in God's peace, my friend.

Ed Newbury

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

Seasons greetings to all club members. Another great DX filled year is about to end. For me, it has been a good year. The highlight was probably upgrading to a Drake R8B, which I am enjoying very much. I can highly recommend this rig. I have also added the RF Systems Mini-Window antenna to the shack. So far, so good.

Our first DXpedition of the season, and seventh overall, to French Creek State Park is now history. This DXpedition was a Wednesday through Sunday extravaganza with folks coming and going on different days. Fred Kohlbrenner, Bob "Mr. Coffee" Montgomery, Ed Mauger and Kris Field rounded out the group. One Day One, Fred and I began set-up around 3:00 PM with Bob showing up as we began unloading our cars. Ed arrived after dark about six hours later. Kris rounded out the group when he arrived on Thursday evening.

Although overall conditions were only fair, at best, there were some good specialized openings. Thursday morning saw a remarkable late morning opening to Jambi with a fantastic signal past sunrise while the evening saw a nice Horn of Africa opening. Friday morning saw a bundle of Peruvians audible all over the place while Vanuatu made a rare 60-meter band southeast Pennsylvania appearance. Also, Antarctica made welcomed appearances on Thursday and Friday afternoons. Saturday morning ended with nice logs of Myanmar and RRI Biak. Maybe conditions weren't that bad after all?

Most DXpeditions are noted for some famous occurrence and some, like the fire and ice DXpedition, have multiple major events. I recall sliding down a snow-covered hill or being attacked by thorns while doing antenna work. This one was distinctive in that there were no major catastrophes to speak of. We are either getting very good at this or we are getting very dull, boring and predictable.

73-RAD

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## Calendar Of Events

**Dec 15 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831.

**Dec 15 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 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <<http://www.anarc.org/naswa/badx/>>.

**Jan 12 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 <[mmeece@siscom.net](mailto:mmeece@siscom.net)>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>

**Mar 9-10 Convention. The 14<sup>th</sup> Annual Winter SWL Festival**, sponsored by NASWA, will be held in Kulpsville, Pennsylvania (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike). Richard Cuff and John Figliozzi co-chair the organizational committee. It's never too early to begin planning. See you there!

**Mar '01 Contest. 2001 North American DX Championships.** For further information you can send a self-addressed stamped envelope to 2001 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606. Rules will also be posted eventually at <<http://www.anarc.org/>>, and are published in the Awards column in the Journal.

**Jul'01 Convention. The 2001 WTFDA Convention** will be held in Boise ID at the Owyhee Plaza Hotel from 27-29 July. More details to come. Inquires can be sent to: [N7SOK@aol.com](mailto:N7SOK@aol.com) or by writing to 4096 Marcia Place, Boise ID 83704.

**Aug '01 Conference.** The annual EDXC Conference is scheduled to be held from 24-27 August 2001 in Budapest, Hungary. All DXers, shortwave listeners, international broadcasters and other radio enthusiasts are cordially invited to attend. Additional information is available from [risto.vahakainu@helsinki.fi](mailto:risto.vahakainu@helsinki.fi).

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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# Easy Listening

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## Giving Thanks for Electronic Media

I know, the Thanksgiving holiday in the US was in November, but, hey, that's what's on my mind as I finalize the column over Thanksgiving weekend.

It has been argued that the development of electronic media have caused a decline in shortwave listening activity, as potential newcomers to the hobby get their kicks in other ways, and as broadcasters use the excuse of electronic media development to cut back on shortwave resources and programs. While member counts for those clubs who publish statistics support this argument, other recently published statistics point out that sales of mid-priced portable radios are growing here in the US. In addition, I heard an ad for the Grundig Yacht Boy 400 on the hourly CBS Radio News the other evening.

Why the "will of the voter" may not yet be clear in Florida, the "will of the 'Fester" at last year's Winter SWL Festival was clear: people did not want to see paper-based publications disappear. However, the near-instant dissemination, turnaround, and feedback possible with the Internet make the Internet a valuable tool in augmenting the listening experience.

Prices of entry-level computers continue to drop, and the availability of used computers with very adequate functionality for Internet connectivity for price tags below \$500 continue to make it easier to add this functionality to your listening shack. If you live in a metropolitan area of 50,000 population or more, you likely now have access to one or more free Internet service providers. Yes, you must endure advertising on your computer screen, and, yes, these providers of free Internet access can track your Internet usage habits, but in my own opinion the benefits outweigh the costs. If you are in an area where free access is not available, Monthly fee-based

Internet access is now less than \$15 for most providers. When you put your gift list together for Santa this year, consider adding a computer to that request for a new radio.

I mention all this because the US election, with its twists and turns, brought about ad-hoc programming and transmitter extensions at broadcasters including the VOA. There is no way a printed publication could have passed along this information. Canada's coming election will bring special programming on **Radio Canada International** that will have come and gone by the time you read this.

Despite this enthusiasm for electronic media, hopefully this column will continue to play a role in your enjoyment of shortwave programming. We'll review upcoming programming when we can, and we'll also review what we've been listening to.

## Christmas and New Year's Programming

As a result of last year's premature celebration of the millenium, it appears most broadcasters are ignoring the real millenium moment in their upcoming programming. However, the upcoming holidays will yield an assortment of special programming. Here is a quick look at some of what's planned for the holidays:

The **Voice of Russia** hasn't yet finalized details, but look for holiday-themed programming on programs including **Music and Musicians**, **Kaleidoscope**, **Folk Box**, and **Jazz Show**, among others. Keep in mind that the Eastern Orthodox faith celebrates Christmas on January 6<sup>th</sup>, so their Christmas specials won't air until January. Check the "What's New" section of the Voice of Russia webpage for updates.

Meanwhile, **Deutsche Welle** will be airing "looking back" editions on *Marks and Markets* and *Cool*.

**Radio Canada International** promises special programming on December 24<sup>th</sup>, December 25<sup>th</sup>, and January 1<sup>st</sup>, but won't have details until mid-December.

The **BBC World Service** will offer these special features:

Thursdays throughout December, 0230, repeated Fridays, 1530: *Pick of the World* features World Service highlights from the past year. Program editions the last two weeks of December will focus on listener input, so send in your nominations, including approximate dates of original airing, to the program at [pick@bbc.co.uk](mailto:pick@bbc.co.uk) or via fax to +44-20-7557-2531. If faxing, remember to include your international access code (011 in North America) before the number.

Sunday, December 24<sup>th</sup>, 1502: *A Festival of Nine Lessons and Carols* airs live from King's College in Cambridge. The College's famous choir leads the congregation in Christmas carols, and the 90-minute service includes the first performance of a carol by the British composer, Jonathan Dove, written for this broadcast. The program airs live to all regions at this time.

Christmas Day, 1430, repeated Tuesday, 0130: *Music Mix* airs a special *Best Albums of 2000* feature with Kevin Greening looking back at the best popular music albums of the past year.

Tuesday, December 26<sup>th</sup>, 0205: Queen Elizabeth's annual *Christmas Message to the Commonwealth* airs to the Americas. The European streams carry this Christmas Day at 2005; African streams at 1805 on Christmas day, if you can't wait.

Tuesday, December 26<sup>th</sup>, through Saturday, December 30<sup>th</sup>, 0445: *Off The Shelf* presents highlights from five classics during Christmas week: *Dolce Domum* from *Wind*

*in the Willows* on Tuesday; *The Flame Trees of Thika* on Wednesday; *A Tree Grows in Brooklyn* on Thursday; *Natasha's First Ball* from *War and Peace* on Friday, and *The Christmas Truce* on Saturday.

Wednesday, December 27<sup>th</sup>, 0230, repeated Thursday 1505: *Seeing Stars*, in *Science View*, muses on the possibility that Venus, visible as an evening star in December, was the "Star of Bethlehem" chronicled in the Bible 2000 years ago.

Wednesday, December 27<sup>th</sup>, 0230: *Focus on Faith* features Trevor Barnes and how the traditional images of family gatherings at Christmastide match today's reality. Secrets hidden in Nativity paintings will be explored, as will the hopes of Coptic Christians living in the Egyptian town where the Holy Family sought sanctuary from Herod's wrath. Repeated Thursday to the Americas at 1530.

Thursday, December 28<sup>th</sup>, 0205, repeated Friday 1505: *Sports International* airs a special *Year In Focus* program looking back on the year that was, with special emphasis on the 2000 Olympic Games in Sydney. Mike Costello hosts.

Sunday, December 31<sup>st</sup>, 1330: *In Praise of God* offers a special half-hour service from St. Mary's Church, Warwick, in the English midlands. The highlight is a specially-commissioned drama of the Christmas story seen through the eyes of Mary, presented by Playbox Theatre, the national theater company for young people.

## Radio Netherlands Documentaries

Here are some of the upcoming highlights for **Radio Netherlands' Documentary** program, airing to North America Thursdays 0000 and 0500 UTC, and also Saturdays 0030 UTC.

7th & 9th December: *The Rural Renaissance*—One of the charms of small-town America is supposed to be the sleepy



quality of life... but some small-town residents are waking up to a struggle for survival. Their traditional industries are fading away, while the benefits of a technology-driven society are passing them by. Ann-Marie Michel visits one such town, Tifton, Georgia, that's trying to break the mold. It's a rural pocket of activism where the local government is taking a scientific approach to shaping the town's future.

14th & 16th December: *Lifting the Bamboo Curtain*—Last June, North Korea's Supreme leader Kim Jong-il amazed the world by emerging from the shadows. When he embraced South Korean President Kim Dae-Jung at Pyongyang airport in the first ever North-South summit, the reclusive "Dear Leader" stepped into the limelight to reveal a genial statesman bent on reconciliation with the South. Is reunification a real possibility at last? Jane Murphy looks at the legacy of fear and suspicion and what reunification would mean for the long-suffering Korean people.

21<sup>st</sup> & 23<sup>rd</sup> December: *The History of Toys*—From the earliest stone games to the enormous variety in toy warehouses today, children's playthings have always been a barometer of the times. There were chariot games for Roman children and hobby horses for the mini-jousters of the middle ages. In Germany in the Middle Ages, woodcutters produced toy animals, dolls and dolls' houses, perhaps inspired by old fairytales. Parents in 14th century France worried that jousting on rocking horses would instill violent tendencies in their children. Today we worry that computer games and toy guns will turn the next generation into aggressive criminals. Maggie Ayre examines toys and child's play through the ages.

28th & 30th December: *The Delphic Oracle*—In ancient Greece, Delphi was revered as the geographical center of the earth and a fitting site for the shrine of Pythia, Dragon Priestess of Earth—the highest

religious authority in the world for more than two thousand years. The Delphic Oracle has been silent for 1500 years. David Swatling investigates why her ruined home on Mt. Parnassus still holds a magical attraction for thousands of pilgrims each year, who come in search of spiritual guidance.

## Radio Canada International – Oops!

Last month, I mentioned that **Radio Canada International** was reducing its daily hours to North America; that appears not to be the case, after all, as a new three-hour morning broadcast now airs weekdays from 1300 to 1600 UT. Here's what you can expect:

Weekdays, 1300–1600: The domestically produced CBC series ***This Morning***, a current affairs magazine and interview program, airs Mondays through Fridays all three hours. The first hour has long been part of the morning North American shortwave broadcast.

Saturdays, 1300–1400: ***The House*** looks at the week past in Canadian political affairs, behind the scenes from Parliament Hill in Ottawa, with Jason Moscovitz.

Saturdays, 1400–1600: ***Basic Black***: The CBC offers the following description of ***Basic Black***: Journalist, author, and humorist Arthur Black drives this two hour adventure, featuring people with unusual occupations, bizarre passions, and arcane obsessions. To cap it all off, Arthur takes a quirky squint at the week's events in a monologue that finishes every show.

Sundays, 1300–1600: ***This Morning–Sunday Edition*** has historically aired one hour later UT, but is now on at this time.

## Summertime in Australia— Cricket, anyone?

John Figliozzi, our resident Aussie expert, mentions that Radio Australia often offers parallel sports programming this time of the year. Australia–West Indies Test cricket is the fare in December, with the following matches offered:

December 1–5: Second Test–Perth, 0230–0930 UT

December 15–19: Third Test–Adelaide, 0030–0730 UT

December 26–30: Fourth Test–Melbourne, 0000–0700 UT

A different set of frequencies will be used for this service than are used for Radio Australia's normal broadcasts. We in North America will most likely achieve success listening to the Pacific-beamed frequencies of 17580 kHz from 0000 to 0758 UT, with a switch to 11630 kHz from 0800 to 1358 UT.

## BBC World Service—Other Highlights

In addition to the offerings mentioned above, here are a couple other items of interest.

Sundays, 0000: *Play of the Week* highlights include:

December 10<sup>th</sup>, *Ghosts* by Henrik Ibsen—One of the seminal plays of world literature, *Ghosts* by Norwegian writer Henrik Ibsen deeply shocked even the liberal theatre-goers of Europe when it first appeared in 1881. Ibsen said he had to write it after his previous play, *The Doll's House*, to show what might have happened when a woman like Nora doesn't walk out of her life of 'duty'. The play is not just about hereditary illness and the sins of the fathers being visited on their helpless children (in this case hereditary syphilis being passed on to young Oswald), but it is also a condemnation

of the rigid and conventional moral code that society forces people to live by.

December 17<sup>th</sup>, *Joyful and Triumphant* by Robert Lord—Robert Lord—a man who died tragically young—was one of New Zealand's most popular playwrights and *Joyful and Triumphant* was his most frequently performed play. It spans thirty years—each scene set on a different Christmas day in a close-knit New Zealand family. We share their triumphs and their tragedies; we watch teenagers grow into adults, and a new generation come along, destined to cause their own fair share of mayhem and heartbreak.

December 24<sup>th</sup>: *The Lady Vanishes* dramatized by Neville Teller—One of Alfred Hitchcock's most famous early film successes was the 1938 comedy adventure thriller, *The Lady Vanishes*, based on the classic novel of suspense by Ethel Lina White, *The Wheel Spins*. It is the late 1930's and the forthcoming world war casts its shadow across Europe. Iris Carr (Jenny Funnell) is travelling alone on the continent, having visited a remote mid-European country, Zabrovinia, and is returning to England on an express train where she meets a pleasant, garrulous, middle-aged Englishwoman in the railway carriage, Miss Froy. (Renee Asherson).

## In Conclusion

May you and your family have a delightful holiday season, no matter how you celebrate it. Remember to pass along any suggestions for column topics, or specific feedback on programs you like, or don't like, to me at one of the contact points shown above.

See you in 2001!

Richard



# Shortwave Center

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## Roll Your Own QSL Cards

### A Step-by-step Guide on How to Create Customized QSL Cards

by: George Maroti

One time proven technique for extracting an elusive verification from a broadcaster is the use of the prepared QSL card. More than ever, due to budget cutbacks, changes in station personnel, and overworked station staff, radio stations have fewer resources available for verifying the reception reports of DXers.

Not being content with using the commercially available plain text prepared cards, I set out to try to design my own graphic QSL cards. I felt these more personalized prepared cards might pique the interest of the station, and thus improve my chances of a reply. At the very least, a prepared card with just a few simple images would certainly look more pleasing in my QSL album.

### Software

As I have almost no artistic ability, I decided to let my computer do all the work for me. I've found that to design something with text and graphics, most software is strong in one area, but weak in the other. As I wasn't planning on any elaborate designs, I decided to compromise and use the graphics capabilities of the Microsoft Word 97 word processing software.

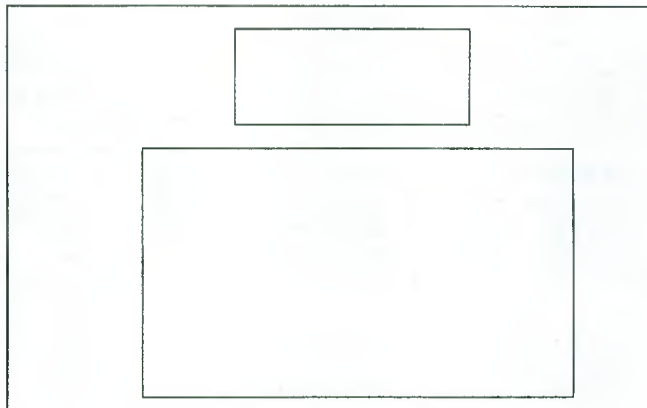
Essentially, text boxes are used to define various areas of the card. Text boxes act as containers for text or graphics that can be positioned on a page and sized. I use one

text box for the card heading, another for the verification text and reception details, and a couple of boxes are used for "holding" the graphics.

### Getting Started

The first step will be to draw the outline of your card. I try to size my cards around 4" high by 6" wide. To get started, open a new document, select "View" from the menu bar, and click on "Page Layout". Then, select "Insert" from the menu bar, and click on "Text Box". Your mouse pointer will now look like a crosshair. To draw the text box, left mouse click the starting point of the box, and while holding down the left mouse button, "drag" the box to a size that you find suitable. (Don't worry too much about the size of the box at this point, as you can very accurately resize the box to within a hundredth of an inch later.)

Next, I add two more text boxes within the first text box to define the text area for the card heading, and reception details. Your card should now look something like this:



## Adding Text

Now, you can continue nesting even more text boxes to hold your graphical images, or type in the text of your card. To insert text in the text box, position your cursor inside the box and click. Your cursor will be at the starting point for the text. At this point, you would type as you normally would using a word processor. All of Word 97's formatting tools, such as font size, color and margin justification are available to you. Your card now might look something like this:

<p style="text-align: center;"><b>RADIO FLEASPECK</b> <i>KINGDOM of NIBI - NIBI</i></p>
<p>Exhalted Listener,</p> <p>We are pleased as punch to verify your excruciatingly detailed reception report as follows:</p> <p>Date: _____ Time: _____ Frequency: _____</p>

## Adding Graphics

Now we're ready to insert some graphics. In order to make the prepared card look as official as possible, I try to find a station logo on the Internet. I first consult Thorsten Koch's "Internet Guide to International Broadcasters" website: <http://www.hard-core-dx.com/iguide/index.html>. If the station's website doesn't turn up there, I use various search engines to search on the station's name. Although the station may not have a website, sometimes images related to the station can still be found.

In the event I can't locate a station logo, I use an outline map of the country or the country's flag. In politically sensitive situations I use generic radio related graphics like an antenna tower. One of my favorite sites is Flags of the World at: <http://www.skalman.nu/fotw/flags/index.html>. Although I don't know any websites that specialize in outline maps of countries, I can


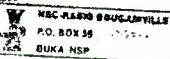
find most maps at <http://www.britannica.com>. The maps found there require some more manipulation, but more about that later.

As an example, visit AFRTS' website at: <http://www.afrts.osd.mil/>. To grab their logo at the top of the page, simply right mouse click on the image to activate a list of options. Depending on the web browser you are using, click on "Save Picture As" or "Save Image As". Now you will have the option to rename the image and store it on your hard drive in the directory or folder of your choice.

To place the AFRTS logo on the card, create another text box in the upper left hand corner. Click inside the new text box, then select "Insert" from the pull-down menu. Click on "Picture", then "From File", to insert the image stored on your hard drive. Locate the directory

where the AFRTS logo was stored, select the file, and click on "Insert" to insert the logo on the card.

To re-size the logo, click on the image to activate the borders and sizing handles of the image. You can now either re-size the image by pulling on one of the corner handles, or by right clicking on the border to activate the picture formatting options. If you elect to use the sizing handles, be aware that in order to maintain the original aspect ratio of the image, you must drag one of the corner handles.

<b>Y P</b>	<b>RADIO BOUGAINVILLE PAPUA NEW GUINEA</b>	
	Dear George Maroti	
<b>Q</b>	Thank you for your reception report. We are pleased to verify your reception of our station transmitting from Buks.	
<b>S</b>	Date of Reception: 24 - 03 - 2000	
<b>L</b>	Time: 10:45 PM (PST)	
	Frequency: 3.125 MHz Transmitter Power: 5 kilowatts	
		P.O. BOX 38 BUKA NSP



borders of your text boxes invisible. To do this, right click on the text box border to activate the pop-up menu, and select "Format Text Box". Click on the "Colors and Lines" tab, and you will have control over the line thickness and color of your text box. To make a box invisible, select "No Line" under the "Color" portion of the menu. Another thing that I like to do is to add some interest to the card's outside edge. Here, I choose a colored double line from the "Style" portion of the "Format Text Box" options.

If you've followed all these steps, your card could look something like this:

As Microsoft Word's image editing capabilities are limited, I find it necessary at times to use a specialized graphics program, such as Paint Shop Pro by Jasc, Inc. (<http://www.jasc.com>). With Paint Shop Pro, you can change the size of an image by using their "resample" function. I use their "magic wand" function to delineate the outline of a country from a larger map. This powerful tool looks at differences in RGB value, hue, or brightness, to distinguish the outline of an image. Once the country's outline is extracted from the larger map, I use the "flood fill" function to paint the country a solid color.



Although this may not be the most eye-catching QSL in your collection, it certainly beats any of the commercially available text only prepared cards.

They say that imitation is the highest form of flattery. Several stations now verify reports with photocopies of my prepared cards. However, most valued by me is a letter from the Bhutan Broadcasting Service in March, 2000, stating that they designed their new QSL card based on my prepared card. After many years of not verifying reception reports, the BBS was finally issuing QSL cards again.

© George Maroti, September 4, 2000 

## Aesthetics

By default, text boxes are created with internal margins. I like to eliminate the margins as it permits more space for text. To do this, active the "Format Text Box" pop-up as before by right clicking on the text box border. Click on the "Text Box" tab where you will have control over the four margins inside the text box. Set all four margins to 0 inches to eliminate the margins.

All that's now left is some "fine tuning" of the card. For example, your card will look more aesthetically pleasing if you make the

# Equipment Reviews


Alan Johnson • 2490 Sharon Way • Reno, NV 89509 • alanjohnson@gbis.com

## Hardware Bits

**MFJ-616 Speech Intelligibility Enhancer**—MFJ Enterprises has recently announced this new product to help hams with high frequency hearing loss, although it looks like it might be useful for SWLs (even with normal hearing) as well. It is essentially a stereo audio equalizer with turnover points at 300, 600, 1200 and 2400 Hertz, allowing for a 20 dB boost or cut at these frequencies. This permits boosting the audio frequencies where most of the speech intelligibility is contained and reducing the frequencies that are mostly noise. The two channel capability allows the use of a balance control to equalize the loudness of each channel to further improve speech intelligibility. The '616 has switches to choose between two inputs, turn the external speakers on or off and bypass the unit to permit comparison of filtered vs. unfiltered audio. It requires an external power supply of 12 volts DC. The suggested list price is \$169.95 and MFJ recommends the use of their MFJ-281 speakers (\$12.95 each) which are optimized for speech frequencies or their MFJ-392 headphones (\$19.95) with the '616. At the time of writing, there was no information on the MFJ-616 on MFJ's website: [www.mfjenterprises.com](http://www.mfjenterprises.com). MFJ may be contacted at: MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762; (662) 323-5869. Hopefully, I will obtain one of these units for review in the near future.

**Alpha Delta Delta-4c Antenna Switch Console**—This is a new antenna switch from Alpha Delta that is configured to sit on a table top next to the radio. It is a heavy cast metal enclosure that is designed not to slide around with use. It measures approximately 6 x 6 x 6 inches. It has sockets for 4 antennas and the cables run straight out of the back

of the unit. It includes a replacable Arc-Plug cartridge for lightning protection. The 4c has SO-239 connectors with a list price of \$139.95 and the 4CN has N connectors for ten dollars more. Although it is expensive, it's nice since it will sit on a shelf or desktop and doesn't slide. See it at: [www.alphadeltacom.com/delta4c.html](http://www.alphadeltacom.com/delta4c.html). Alpha Delta's address is P.O. Box 620, Manchester, KY 40962; (606) 598-2029.

**Industrial Communication Engineers (ICE) Beverage/Long Wire Matching Units**—I recently bought one of these units for use with the 220 feet of wire that I have strung along the top of a fence. There are several models in the 180 series available, either with coverage of 50 kHz to 30 MHz or 1.5 to 30 MHz, with either isolation between the antenna and feedline or with DC continuity to permit control voltages on the antenna for switching. The matching units have taps for antenna impedances of 300, 450, 600 and 800 ohms. I.C.E. also offers terminating loads for beverages and mounting fittings for attaching the units directly to ground rods. I purchased the 180A matching unit and 400MA mounting adapter for \$61.00 from Cable X-perts, Inc. I used a MFJ-259 antenna analyzer and found that the antenna (with a 470 ohm terminating resistor) had a relatively flat SWR around 1.5:1 from 1.5 MHz to 10 MHz. I.C.E. has a website at [www.inducomm.net](http://www.inducomm.net), but Ralph Brandi reports having had problems ordering through that site; I.C.E. told him it's actually owned by a contractor. They can be contacted at: I.C.E., P.O. Box 18495, Indianapolis, IN 46218-0495; (800) 423-2666. They have a series of application pamphlets on their products. Cable X-perts website is: [www.cablexperts.com](http://www.cablexperts.com). 

# Listener's Notebook

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**ALBANIA TWR** changes via Shijak/Cerrik: 0530-0545 Mon, Tue, Wed, Fri Slovak NF 7380 (x7385) \ 6235. 1600-1630 Daily & 1600-1645 Sun Polish NF 7310, NF 9760 (x7380, x9435). ("Observer" Bulgarian Radio, Ivo Ivanov & Anguel Datzinov-BUL, Nov 13/BC-DX/Bueschel-GER)

**ANTARCTICA 15475.6 RNASG/LRA36** 1938 Romantic vocal ballads, amateurish-sounding female announcer in Spanish between selections. Announcement by man at 2045 closedown: "Transmite LRA36, Radio Nacional Antartica San Gabriel, desde Base Esperanza, Anrtica Argentina." (Hill-MA, Nov. 17)

**ARGENTINA RAE, Radiodifusion Argentina al Exterior**, new schedule from Oct 29:

0000-0200	Portuguese	11710
0200-0300	English	11710
0300-0400	French	11710
0800-1200	Spanish	6060 15345
1000-1200	Japanese	11710
1200-1400	Spanish	11710
1800-1900	English	15345
1900-2000	Italian	11710 15345
2000-2100	French	11710 15345
2100-2200	German	15345
2200-2300	Spanish	9690 15345
2300-2400	Spanish	9690 15345

All transmissions Mo-Fr. RAE relays domestic service Sa/Su 1800-0300 on 6060 and 15345. (Arnaldo Slaen-ARG, ConDig Nov 16/BC-DX/Bueschel-GER)

**AUSTRALIA Radio Australia**

0000-0100	English	9660 12080 15240 17580 17750 17795 21740
0000-0100	Vietnamese	15415
0100-0200	English	9660 12080 15240 17580 17750 17795 21725
0200-0500	English	9660 12080 15240 15515 17580 17750 21725
0500-0600	English	9660 12080 15240 15515 17580 21725
0500-0600	Khmer	21725 17750 Mo-Fr
0600-0700	English	9660 12080 15240 15515 17580 17750 21725
0700-0800	English	9660 12080 15240 17580 17750 21725
0800-0900	English	9580 9710 12080

0900-1000	Indonesian	17580 17750 21725 17750 11880
0900-1000	Indonesian	11550-Taiwan
0900-1000	English	9580 21820
0900-1100	Tok Pisin	5995 6020 9710 12080
1000-1100	English	9580 17750 15400 21820
1100-1230	Chinese	9475 11880
1100-1330	English	6020 9580 11650 21820
1230-1330	Vietnamese	9475 11880
1330-1400	English	6020 9580 9655 11650 21820
1400-1700	English	5995 6080 9655 11650
1700-1800	English	5995 6080 9580 11880
1800-1900	English	6080 7240 9580 11880
1900-2000	English	6080 7240 9500 9580 11880
2000-2100	Tok Pisin	6080 7240 Mo-Fr
2000-2100	English	9500 9580 11880
2100-2130	English	7240 9500 9580 9660 * 11880 12080 17715
2130-0000	Indonesian	11695 15415
2130-2200	English	7240 9660 11880 12080 17715
2200-2300	Chinese	15240
2200-2400	English	9660* 12080* 17715 17795 21740
2300-0000	Indonesian	11550-Taiwan
2300-0000	Khmer	15240

\*BBC 2200-2300 (Unknown contributor, or via Andreas Volk-D ?, Oct 24/BC-DX/Bueschel-GER)

**AZERBAIJAN 9155 Radio Dada Gorgud** (t) W speaking in Turkic lang Nov 19 at 0902, 0904 with Turkic song, 0912 with anthem then man in AR. (Liangas-GRC)

**BHUTAN BBS** seems to have introduced a new morning service on 6035 as of Nov-15, \*0100. Noted Nov-16 s/on open carrier at 0053, beautiful signature tune at 0059; Nov-15 beyond 0900; previous s/on time was 0400 on the weekend, 0630 Mo-Fr. (Alok Dasgupta/EDXP/Padula-AUS) 5030 Radio Bhutan, is again on winter time, 1330\* rather than 1230\* (G. Victor Goonetilleke, Sri Lanka, 4S7VK, UADX, via NU Nov 12 via BC-DX via DXLD/Hauser)

**BOLIVIA 3310 Radio Mosoj Chaski**, Cochabamba: This station is currently running 8 kw, although the transmitter is rated for 10 kw. The studio is in Cochabamba, but the transmitter site is located in Cotapacha, about 20 km away. I couldn't go to the transmitter site, but the station director said that the

antenna is only about 7 meters off the ground. They had a big stack of QSL replies ready to send out and invite reports and inquiries.

**4830 Radio Grigota**, Santa Cruz: The station owner, Daniel Artega, says the station is active running half power (500 watts) due to several bad 4-400c tubes. He says new tubes were ordered from California, but never received. The studio is currently undergoing remodeling and is a real mess, although the MW transmission was on the air when I visited. The transmitter location is about 7 km from the center of Santa Cruz. Unfortunately, my monitoring was unable to pick up the station on SW during my stay there and I question whether it is really currently active. I'll try to get another read on the situation in about 2 weeks.

**4855 Radio Centenario**, Santa Cruz: This station is located in a nice, well equipped building on the edge of town just off the highway toward Cochabamba. The station director reports that it is running 4 kw. (WRTH says 5 kw, Passport says 1 kw) It was audible during my stay in Santa Cruz.

**5500 Radio Luz del Oriente**, Santa Cruz: This station (listed in WRTH) does not appear to exist. The address reported in WRTH is a house and the owner said there was a radio transmitter in the back when he moved in a few years ago, which he would be willing to sell fairly cheap. He had never heard of the station, nor had anyone in the vicinity. Interestingly, the current resident has worked in radio and would appear to be knowledgeable.

**5974.2 Radio Nacional**, Cochabamba: This station (listed in WRTH) has apparently gone bankrupt and will not return to the air.

**6015 Radio El Mundo**, Santa Cruz: This station is owned by the El Mundo newspaper and was not on the air during my stay. A visit to the station yielded the information that the station was temporarily off the air due to equipment problems, and that all of the station personnel were on vacation. The representative said he expected the station to be back on the air in a few weeks. We'll see!

**6030/9660 Radio ABC**, Santa Cruz: This station was recently sold and merged into the Radio Antena 1 group. At the moment it is only transmitting on FM, but there are efforts currently underway to re-initiate SW transmissions, hopefully in December 2000 (next month). The local director was not sure of the frequency(s) to be used, but said that it would be "the same as before". No information on power, etc. was available, but I will check back with them in a few weeks to see if more information can be gleaned. (I also mentioned that if they let us know ahead of time by email, it might be possible to get some reception reports from various areas of the world to check their transmission.)

**6095 Radio Cosmos**, Cochabamba: This station has

been off SW for 4-5 years, according to the MW station manager. The primary business was promotion of music recordings and the SW market does not support the business. There are no plans to return to SW, although the station is active on MW.

**6135 Radio Santa Cruz**, Santa Cruz: This station is on the air and often reported, so nothing new here. (Fair-BOL, Cumbre DX Nov 8 via DXLD/Hauser-OK)

**4716.8 Radio Yura**, 2/11 0020-0110 33333 mx LA romantica.. (0100\*) s/off fv dice: "Legamos al final de la trasmision, sera hasta las 3 de la tarde donde nuevamente nos esc ucharan, llamemos donde se encuentren, estamos para atenderlo.. que tengan muy buenas noches, para despedirnos vamos a escuchar estas canciones , somos radio Yura que se encuentra en Yura, la provincia de Quijano, Potosi.. f/out 0106" (Chasqui DX/Arrunategui-PRU)

**4926.0 Radio San Miguel**, Riberalta (t), Nov 12 0026-0041 Seemed program previews: "Las Noticias, La Semana-La Semana, Mandolines, Msica de Puerto Rico" - all with fanfare. No definite ID. Bolivians peak here 0000-0030 Nov.-Jan. (Bill Flynn, OR, DXLD/Hauser)

**CENTRAL AFRICAN REPUBLIC Radio Ndeke-Luka** (ex-Radio MINURCA) is back on shortwave for the past three or four weeks. Presumably using the same freqs as before. (David Smith at UN HQ, via Jerry Berg, NU Nov 7/BC-DX/Bueschel-GER) [9900 from 1800-2300, if I recall - AQ]

**CHINA Nei Menggu Radio Station**, Hohhot has this new schedule for B-00:

0020-0550	Mongolian	9750 7210 7270
0020-0550	Chinese	9520 7165 7105
0950-1505	Mongolian	6195 4785 4525
0950-1515	Chinese	6045 4620 4000
2150-0005	Mongolian	6195 4785 4525
2150-0015	Chinese	6045 4620 4000

(Nagoya DXers Circle via Bob Padula-AUS, EDXP Nov 18/BC-DX/Bueschel-GER)

**CLANDESTINE - AFRICA Radio Voice of Hope** 12060 and 15320 via Madagascar to Sudan. Very good signal on both freqs for weekly test transmissions for the NEW Sudanese Council of Churches. Nov 11 start at 0427-0500 with IS, then ant by woman in En as you are listening our program on Radio Voice of Hope broadcasting on 15320 (12060 has not been mentioned) on a 19 meter SW band and mentioning her name as Jane Namadi and ID many times as "Radio Voice of Hope for the voiceless in Southern Sudan". (Mahendra Vaghjee, Mauritius, Nov 11, BC-DX via DXLD/Hauser) As of 4 Nov 2000, the Radio Netherlands Madagascar relay station is carrying weekly test transmissions for the New Sudanese Council of Churches, in collaboration with the Dutch domestic public broadcaster NCRV. The station is called *Voice of Hope* (VOH) and transmits every Saturday at 0427-0525 on 12060 and 15320kHz



beamed 335 degrees to East Africa. Although the programs will be in English and Sudanese Arabic, a quick listen to the audio of the first broadcast suggests that it's entirely in English! (Sennitt/HCDX)

#### 7000 *Voice of Freedom and Renewal*

(Eritrea/Sudan), verified by email my report from <infosaf@eol.com.er> after I sent them a sound file of the programming which I heard. Getting the QSL involved a few messages back and forth, as they are only able to handle WAV files.

But watch out when you receive an e-mail from them; an attachment sent to me was infected by a virus and had to be deleted. [!]

Transmitter power said to be 10 kW, QTH undisclosed. Schedule every day from 0330-0430 and 1300-1400, exc on Fri, when they are on the air at 0600-0800. V/s Fathi Al Elaziz, SAF Secretary for Culture and Information - SAF meaning Sudan Alliance Forces. They have not responded to my message informing them about their virus infection. (Mika Makelainen-FIN, hexd Nov 12/BC-DX/Bueschel-GER)

*Voice of Sudan*, which broadcast on behalf of the National Democratic Alliance (NDA) against Sudan from its base in Asmara, Eritrea, has been closed down.

The closure comes on the heels of Eritrean President Issayas Afewerki recent trip to Khartoum in seek of economic trade, and just one month short of planned legislative and presidential elections in Sudan. The elections are being boycotted by nearly the entire democratic opposition.

The Sudanese Minister of Culture and Information, Dr. Ghazi Salah al-Din, told the Sudanese News Agency earlier today that the *Voice of Sudan* is now officially off the air in a "positive development" that is the result "of the recent contacts between the two countries..."

Without mentioning the closure of the NDA's radio station, Eritrean ambassador to Sudan Eissa Ahmed Eissa told Agence France Press on yesterday (Oct 30) that "No deal was concluded with the Sudanese government during the last visit by... Afewerki to Khartoum for getting rid of the NDA in exchange for certain economic privileges."

Sudanese Minister of External Relations, Dr. Mustafa Osman Ismail, reported to the Sudan News Agency on Monday, however, that he is "following up the meetings currently being held in Asmara between the Eritrean government and elements of the opposition. "(T)he outcome of these meetings would be more obvious during the coming days," he said, "and in the light of which the next step would be defined."

The closure is clearly the silencing of *The Voice of*

Sudan.

Since April 2000, the NDA has been increasingly isolated by other opposition groups and was expelled from the Umma Party coalition for its resistance to negotiate with the regime in Khartoum. Reports also indicate that the United States government, which has provided the group with at least US\$20 million in non-military aid, has recently become reluctant to provide the group with additional funding.

*The Voice of Sudan*, which hit the airwaves in 1995 and was relatively easy to listen to around the world on short wave, maintained warm relations with its overseas listeners and had a good "QSL" verification policy. Recent efforts since August to reach sources within the NDA, who for years had been friendly to CRW, have been unsuccessful. (Simon Davies in Asmara, Eritrea, contributed to this report./Clandestine Radio Watch/Schoech-GER/Nick Grace C.)

7120 *Voice of the People* (from Madagascar to Zimbabwe), 1700-1755 Male and female announcer talks in English and local, occasional musical breaks. (Barraclough, UK/BDXC-UK/Oct 31/Nov 1, Cumbre DX via DXLD/Hauser)

CLANDESTINE - ASIA *Falun Dafa Radio* in Chinese now is on air via Kostinbrod, Bulgaria site: -  
2200-2215 12145 or 12140  
2215-2230 12140 or 12135  
2230-2245 12135 or 12130  
2245-2300 12140 or 12135

All transmissions heavily jammed. ("Observer" Bulgarian Radio, Ivo Ivanov & Anguel Datzinov-BUL, Nov 13/BC-DX/Bueschel-GER)

5101.12 *Voice of Freedom of Jammu Kashmir*, 1401, Usual English segment/commentary beginning w/intro sounding like "This is V.O. Freedom of Jammu and Kashmir. Dear listeners you will hear program Kashmir Panorama". (31 Oct. Valko, Pele DXpedition, BIHI, hard-core-dx via DXLD/Hauser)

7460U *Voice of Tamil Tigers* (p). Open program at 1450 with flute mx, then followed by a song and nx and commentary on Sri Lanka at 1500. 1515-1527 musical program. Just after that Radio Play and abruptly went off at 1535. No ID has been heard but Sri Lanka and Tamils have been mentioned many times (Mahendra Vaghee, Mauritius, Nov 9, BC-DX via DXLD/Hauser) The station's reappearance on SW seems to be linked to the new peace initiatives launched two weeks back. Station ID "May Kotihanda Kuwanvidulyeh Sinhala Pracharaya". (Goonetilleke-SRI/Hauser)

CLANDESTINE - LATIN AMERICA 6261v, Nov 2 *Voz de la Resistencia - Bloque Oriental* (Colombia), back here again, noted at +2154- with very poor signal. (Yimber Gavrira, Colombia/DXLD/Hauser)

**CLANDESTINE - MIDEAST Radio Iran of****Tomorrow** in Persian/Farsi from Oct. 29:

1800-1830 5830

1830-1900 7120

(Observer, Bulgaria, Nov 1 via DXLD/Hauser)

**Radio Voice of Iran:** 11635 via Moldova \*1630-1700 Oct. 26, Noted at 1624 w/ 900 Hertz tone; jammer appeared at 1628 both a tone & warbler type. S/on with orchestra ballad, with clear ID for 'Radyo Seda-ye Iran' followed with political talks with many references to Iran in Farsi. Noted to past 1700 but signal deteriorated quick after that (E. Kusalik, Alberta, for Clandestine Radio Watch via DXLD/Hauser)

Palestinian clandestine? 6200 'Idaatu Shahia ke Palestina', Ar songs, Ar ID by M with references to USA followed by song/hymn and 2002 with ext reports on Palestine. (Liangas-GRC, Nov 8)

**CONGO-DEMOCRATIC REPUBLIC** 6828.4v, at 0359, open carrier, 0401 sudden talk by man but too weak to even ID. 0402 Afr mx, very similar to that hrd on Zimbabwe and Zambia; transmitter drifting, from 6828.5 ... 6828.38, full AM. One too-weak anmt by man at 0415, faded by 0427. Initially thought R Mogadishu, but now my guess would be **Radio Bukavu**; but this is very tent. (Hans Johnson-Hawaii, Cumbre DX via DXLD, Nov 4/BC-DX/Bueschel-GER)

5066 **Radio Bunia** 1500-1600 Continuous African mx and went off immediately after ID and freq given in Fr my man then by woman in Vn and was still there the next day but nothing as from Nov 16, also no trace of 6828. (Mahendra Vaghjee-MAU, Nov 13/BC-DX/Bueschel-GER)

6713usb **Radio Bukavu** very poor at 1755 with mx and talk in local lang man and woman. Nov 13 and still there when checked again on Nov 16 and 18. (Mahendra Vaghjee-MAU, Nov 13/16&18/BC-DX/Bueschel-GER)

**Radio Candip**, Bunia: Ugandan army Chief of Staff, Major-General Jeje Odongo, said on Tue Nov 7th that Ugandan troops had seized R Candip in Bunia. It had been taken over on Nov 3 by supporters of the 1st VP of the Congolese Rally for Democracy-Liberation Movement (RCD-ML), Mbusa Nyamwisa. The movement has been hit by a leadership dispute, and Nyamwisa's supporters used the station to announce the overthrow of the RCD-ML president, Prof. Ernest Wamba dia Wamba.

The Ugandan army said they would not allow Wamba to be overthrown by force, and intervened on Mon to stop the fighting. "The situation is now calm and quiet. The radio is now back under Ugandan control and is playing music," said Odongo. (RNMN via Mike Terry-UK, BDXC-UK, via NU Nov 12/BC-DX/Bueschel-GER) Observed on usual 5066 and 3390, mx at 1700 Nov 8,

communiqué in Swahili, vernac. from Ugandan army commander. (BBCM, DXLD, NU/BC-DX/Bueschel-GER)

**CUBA** 4970h **Radio Rebelde** 0350-0532 Cuban music, including Guantanamo @ 0528, announcements in Spanish, ID @ 0531, no commercials; 710 x 7, // 710 (under local WOR), 5025 (Brandi-NJ, November 6/HCDX)

**DOMINICAN REPUBLIC** 4960.2 **Radio Villa**, Santo Domingo, Nov. 10, 0034-0045, Back on the air. LA music, male announcer in Spanish, jingles. Canned ID at 0042. 34343 (Veldhuis-HOL/HCDX)

**ECUADOR HCJB** now on 9775 (ex-9730) for the Japanese service 1130-1200. (Koji Yamada-JPN, edxp Nov 14/BC-DX/Bueschel-GER) 1300-1500 in Spanish on new 17690 (x17670) (R Bulgaria "Observer" Ivo Ivanov & Anguel Datzinov-BUL, Nov 20/BC-DX/Bueschel-GER)

**FRANCE Radio France Internationale:**

0000-0030	French	9805 12025Rus 15200G 17710Jap 12025Rus 15200G
0030-0100	French	9790 9800G 11665G
0100-0130	Spanish	15440Ch
0100-0130	French	9790 9800G 11665G
0130-0200	French	15440Ch 15200G
0200-0230	French	5915 5945 7135Mey 7315 9790 11995
0300-0400	French	5990 6045 7280 3965 4890M 7135 7315 9550 9790 9805M 9845 11850M 11995 11910 Mey 11910GAB
0400-0430	Russian	3965 4890M 7135 7315
0400-0430	French	9550 9790 9805M 9845 11850M 11995 11910 Mey 11910GAB
0430-0500	French	3965 4890M 5990 6045 7135 7280 7315 9550 9790 9805M 9845 11850M 11995 11910 Mey 11910GAB
0500-0545	French	5990 6045 6175M 9550 9790 9845 11685 11700 11995 13610 15155Mey 15605M
0500-0600	Arabic	3965 5925
0545-0600	French	6045 6175M 9550 9790 9845 11685 11700 11995 13610 15155Mey 15605M
0545-0600	Polish	5990
0600-0630	Serbo-Croat	6175 7280
0600-0630	Serbian	6175 7280
0600-0700	French	5925 7135M 9790Guy 11700 15135 15155 15300 17800
0630-0700	Albanian	6175 7280
0700-0800	French	7135 9790 9805 11670 11700 11975 15315 15605Mey 17850 21580

0800-0900	French	11670 11700 11845 15300 17620 21580 21685	1600-1730	English	11615 15210 17620 17850
0900-0930	French	11670+G 11700 11845 15300 17620 21580 21620 21685 25820	1700-1730 1700-1800 1700-1800 1700-1800 1730-1800	French Polish Arabic Portuguese French	11995 15300 15605 3965 7135 7325 9790 12015M 15530 11615 11995 15210 15300 15605
0930-1000	Portuguese	11670G			17630G 21645G
0930-1000	French	11670 11700 11845 15300 17620 21580 21620 21685 25820	1800-1830 1800-1900 1800-1900	Spanish Persian French	7325 9430 5900 7160M 9790 11705 11955M 11965 11995 15300 15605
0930-1030	Mandarin	9660Jap 9805Rus			5905 7135
1000-1030	French	11670 11845 15155 15380 17850 21580 21620 21685 25820	1900-2000 1900-2000	Russian French	3965 7160M 7315 9485 9790 11705 11955M 11965 11995
1000-1030	Spanish	11670G			6175 7160M 7315 9485
1030-1100	French	7140Jap 11670 11845 11880Jap 15155 15380 15435G 17850 21580 21620 21685 25820	2000-2100	French	9790 11705 11955M 11965 11995
1100-1130	French	6175 11670 11600Ch 11845 15300 15515 17620 21580 21620 21685 21755M 25820	2000-2100 2000-2100 2000-2100 2030-2100 2100-2130	Serbian Serbo-Croat Portuguese Portuguese Spanish	3965 6090 3965 6090 11965 15200G 17620G 17630G 21645G
1100-1200	Meteo-Mar-Fr	11670G 13640	2100-2200	Romanian	6185 7135
1100-1200	Lao	12015Rus	2100-2200	French	3965 6175 7160M 7315 9485 9790 11705 11955M 11995
1130-1200	French	7140Jap 11600Ch 11845 11880Jap 21580 21620 21685 21755M 25820	2200-2230 2200-2300 2200-2300	Portuguese Polish Mandarin	17620G 3965 5915 7315Jap 7430Rus 7315Vld 7430Rus
1130-1200	Meteo-Marine	6175 15300 15515 17610	2200-2300	Mandarin	7315Jap 7430Rus 7315Vld 7430Rus
1200-1230	Spanish	13640G 15515G	2230-2300	French	17620G
1200-1230	French	9790M 11845 15300 21580 21685 25820	2300-2330	French	9805 12025Rus 12075Rus 17620G 17710Jap
1200-1300	Mandarin	7140Jap 7430Rus			17710Jap
1200-1300	English	11670 15155 15195 15540	2300-2330	Spanish	5920 9790 9800 15200G 17620G 9790 9800 9805 12025Rus 12075Rus 15200G 17620G 17710Jap
1200-1300	Khmer	11600Rus 12015IrK	2330-2400	French	9790 9800 9805 12025Rus 12075Rus 15200G 17620G 17710Jap
1230-1300	French	9790M 11845 15300 15515G 17860G 21580 21685 25820 9790M 11845 15300 17860G 21580 21645G 21685			
1300-1330	French	9790M 11845 15300 17860G 21580 21645G 21685			
1330-1400	French	9790M 11845 15300 21580 21685			
1400-1430	Russian	15155 15605 17610			
1400-1430	Spanish	17575G 21765G			
1400-1500	French	11845 15300 17650 21580 21685			
1400-1500	Vietnamese	6120Jap			
1400-1500	English	11610 17620 17680			
1500-1600	Serbo-Croat	9805 11670			
1500-1600	French	11845 15300 15605 17605 17620 17850 21580 21620 21685 9805 11670			
1500-1600	Serbian	9805 11670			
1600-1630	Spanish	17575G 21765G			
1600-1630	Arabic	9790 12025			
1600-1700	French	6090Ch 11700 15300 17605 21580			
1600-1700	Romanian	9805			

**FRENCH GUIANA** The situation with Montsirny is still unclear. I have been told that the [SRI only?] transmitter is working since November 2, 2000. In fact the first transmissions took place at that date but the transmitter is not working properly. Since this date they transfer the transmission from Montsirny to Issoudun and vice versa. From 15 to 17 November all transmissions were made in Issoudun again. I shall inform you when MSY comes into operation

definitely. Regards, (Wegmueller, SRI, Nov 20, WORLD OF RADIO 1059, DXLD/Hauser)	0000-0045	Tamil	13605 4790 9835 9910 11740 11985 13795
<b>GEORGIA</b> Tbilisi now heard in a new lang, French, instead of the usual Georgian program 0800-0830, followed by En 0830-0900 on 11910 beamed to EUR. Renowned for muddy audio, they seem to have solved the problem at long last. Only trouble is, signal is still weak. Only heard Mon-Fri. Not received here in U.K. at other scheduled times. (Holder-UK, DXLD Oct 24/BC-DX/Bueschel- GER)	0015-0430 0045-0115 0100-0130 0100-0200 0130-0200 0130-0227 0215-0300	Urdu Sinhala Burmese Sindhi Tibetan Nepali Pashto	6155 9595 11620-(from 0100) 11985 9950 13630 5990 7125 9565 13700 3945 6045 9810 11715 9910 11735 11895 13620
<b>GERMANY</b> [non] B-00 sked for <i>Radio Santec</i> : 0100 9435 via DTK Juelich Su 0530 7385 via WRMi Su 1300 9955 via WRMi Su 1300 9710 via Sitkunai-LTU Su 1800 11840 via DTK Juelich Su (Chakroborty-IND, Oct 30/BC-DX/Bueschel-GER)	0300-0345 0315-0415 0400-0430 0415-0430 0430-0530 0430-0530 0700-0800 0830-1130 0845-0945 1000-1100	Dari Hindi Persian Gujarati Arabic Hindi Nepali Urdu Indonesian English	9910 11735 11895 13695 15075 15185 17715-(from 0320) 15780 17845 15185 17715 13620 15780 17845 15075 15185 17715 7250 9595 11850 9595 11620 15775 15780 17485 11585 13700 15020 17485 17840 17895
<b>GREECE</b> Frequency schedule for <i>Voice of Greece</i> 0000-0350 7450 5890 7475 9420 0400-0550 7450 15630 9375 17520 0600-0700 9420 15630 7475 17520 0700-0800 9420 15630 9375 12105 0800-0900 9420 15630 0900-0950 9420 15630 1100-1200 9420 15630 1200-1250 12105 15650 1200-1500 9420 15630 9690D 1300-1350 12105 15650 1400-1650 12105 15650 Eu langs 1500-1700 9420 15630 1700-1800 9420 15630 1700-1900 9375 11645 Eu langs 1800-2050 9420 7450 17705D 17565G 1900-2000 7475 9375 Eu langs 2000-2050 7475 9375 2050-2100 7450 17705D 17565G 2100-2150 9375 7450 17705D 17565G 2100-2250 15650 9420 2150-2200 9375 17705D 17565G 2200-2250 9375 12105 2300-2350 15630 7450 12105 15650 News in English: (Mon-Fri) 0300-0306 on 7450 5895 7375 9420 News in English: (Mon-Fri) 0610-0617 on 9420 15630 7475 17520 News in English: (every day) 1945-1955 on 7475 9375 (Babbis-MD/DXLD/Hauser-OK)	1115-1200 1115-1215 1145-1315 1215-1245 1215-1315 1215-1330 1230-1500 1300-1500 1315-1415 1330-1430 1330-1500 1415-1530 1430-1930 1500-1600 1515-1600 1515-1615 1615-1715 1615-1730 1615-1730 1730-1830 1730-1945 1745-1945 1945-2030 1945-2045 2045-2230 2245-2359 2300-2359 (BBCM)	Thai Tamil Mandarin Telugu Burmese Tibetan Sindhi Sinhala Dari Nepali English Pashto Urdu Baluchi Gujarati Swahili Russian Persian Hindi Malayalam Arabic English French Hindi English English Hindi	13630 15330 17740 13700 15075 15770 17810 17860 15780 17705 13700 15770 17810 11620 11710 9565 11695 6165 9620 11585 9700 15020 7255 9910 3945 4860 6045 11695 9690 11620 13710 7255 9910 3945 4860 6165 9620 11585 11620 15175 9950 17670 11620 15140 7230 9910 7410 9950 12025 13770 17670 7230 12025 9910 13620 7410 9950 11620 11935 13750 15200 17670 9910 13750 7410 9950 7150 7410 9650 9910 9950 11620 11715 9705 9950 11620 13605 9910 11740 13795
<b>GUATEMALA</b> 4052.5 <i>Radio Verdad</i> 0119 Man in Spanish sermon, gospel music on piano; jaunty theme at 0200 faded down for announcements, including freq, ID, and "en Chiquimula, Guatemala." Surprisingly strong, and would have been almost armchair copy except for constant, tremendous static crashes. This on Nov. 11; not there the following evening at 0100 check. (Hill-MA)			
<b>INDIA</b> <i>All India Radio</i> External Service Web Site: <a href="http://www.allindiaradio.com/">http://www.allindiaradio.com/</a> 0000-0045 English 9705 9950 11620			

Three new states were formed in India very recently by dividing existing ones. They are Chhatisgarh with Madhya Pradesh, Jharkhand from Bihar and Uttaranchal from Uttar Pradesh.

This is making interesting changes to the local broadcasting scene.

**AIR Delhi** is now relaying on SW 6030 **AIR Najibabad** which broadcasts only on MW. This is intended for the new state of Uttaranchal. sked is 0200-0310 and 1215-1430. The identification is as AIR Najibabad and when programs originate from other stations like AIR Lucknow its id is given.

For making way for this new transmission, AIR Nepali Service at 0130-0227 on 6045 was discontinued.

Ranchi which has shortwave transmitter is by the way the new capital of Jharkhand. (Jacob-IND/EDXP/Padula-Aus)

#### INDONESIA

3232.14 **RRI Bukittinggi** (p) reactivated? this day only. 1401 unstable carrier, excited woman announcer with short announcements and plenty of musical bridges. Good signal, hadn't noticed this at 1330. Strongest Indo in 90 mb, but fading fast. (Johnson Nov 22/Cumbre)

3325.0 **RRI Palangkaraya**, 1010 Islamic music and reading of Holy Koran. ID at 1035 then lagu lagu hibran. (Nov 11, 2000, Jembatan DX/Yamada-JPN)

**RRI Biak** returned its frequency from 6157vkHz to 6153kHz after short absence in the end of October. (Jembatan DX/Yamada-JPN)

Again **RRI Tanjungkarang** or **RRI Bandarlampung**? At last I received the answer from RRI station on 3395kHz. Although I wrote address as RRI Bandar Lampung, letterhead and station stamp from the station was printed as "RRI Tanjungkarang". Drs. Soewadji, Kepala Seksi Siaran said in the letter that the station called in the programs its name as "RRI Bandarlampung" instead of "RRI Tanjungkarang" because recently Bandar Lampung became popular name of the capital city in Badar Lampung province. Also he wrote consistently its station name as "RRI Tanjungkarang" in his letter. So I decide to say the official name is RRI Tanjungkarang not RRI Bandar Lampung. The name RRI Bandar Lampung is like nickname. In this publication, I will use the name as RRI Tanjungkarang and I recommend to other DX club and DX bulletins to use "RRI Tanjungkarang" because the official name is still RRI Tanjungkarang. (Jembatan DX/Yamada-JPN)

According to the reply, The shortwave frequency on 3985kHz of **RRI Surabaya** is now inactive. (Jembatan DX/Yamada-JPN)

#### INDONESIA BANDSCAN, October 24-27.

This makes 30 active Indo. frequencies logged in SE Australia. Other rpts indicate that these channels are also active: 7173 RRI Serui, 7231 RRI Fak-Fak, 9540 unid. RRI,9614 RRI Samarinda.

2899.1 **RPDT2 Ngada**, 1336, extended Jakarta relay with pro Palestinian b/c.

2960.0 **RPDT2 Manggarai**, 1335, Jakarta relay, fairly regular but not daily.

3161.0 **RSPDT2 Halmahera Tengah**, 1334, just about the toughest Indo to log.

3214.9 **RRI Manado**, 1333, Jakarta relay, reactivated about a week into October.

3264.7 **RRI Gorontalo**, 1146, Indopops under static.

3325.0 **RRI Palangkaraya**, 1332, Jakarta relay.

3344.8 **RRI Ternate**, 1331, Jakarta relay.

3355.4 **RRI Jambi**, 1330, very low level; on previous better reception occasions it has been observed //4925.

3395.2 **RRI Bandar Lampung**, 1328, Jakarta relay; semi-regular.

3905.0 **RRI Merauke**, 1324, Jakarta relay.

3960.5 **RRI Palu**, 1323, Jakarta relay.

3976.1 **RRI Pontianak**, 1322, Jakarta relay.

3987.2 presumed **RRI Manokwari**, 1046, low level.

4000.2 **RRI Kendari**, 1321, Jakarta relay.

4003.2 **RRI Padang**, 1320, Jakarta relay.

4606.4 **RRI Serui**, 1319, also 1452\* Oct 19.

4696.6 **R. Komunikasi Informasi Pertanian**, 1855, all night wayang; often runs all night and seemingly to compensate is sometimes off air at what would be the normal times. According to IDXC, this ID has replaced R. Khusus Informasi Pertanian.

4753.2 **RRI Makassar**, 1317, Jakarta relay.

4789.2 **RRI Fak-Fak**, 1339, Jakarta relay.

4925.0 **RRI Jambi**, 1318, Jakarta relay.

6069.8 **RRI Jayapura**, 1133, slow Indo ballads.

6070.8 **RRI Jayapura**, 1305, Jakarta relay.

6153.8 **RRI Biak**, 1128, Indo ballads.

9525.0 **Voice of Indonesia**, 0922, swapped from Japanese to Indonesian a minute late.

9552.3 **RRI Makassar**, 0803\*, earlier s/off these days.

11760.0 **RRI Jakarta**, 1345, Jakarta nx barely audible under BBC.

11785.0 **Voice of Indonesia**, 0922, kroncong mx in Bahasa Malaysia svc; usually on 9525 from \*0900.

Also 1920 when it would normally be on 15150.

11860.0 **RRI Jakarta**, 0001, "Dinamika Indonesia" with current events from the Indonesian provinces.

15125.0 **RRI Jakarta**, 0002, nx rpt from Timor; takes Programa Nasional Satu (1).

15149.9 **Voice of Indonesia**, 1906, FR nx with nice signals; sometimes uses 11785 or 9525. This stn gives the impression of being demoralized and disorganized. There's no doubt that they're under funded. (David Foster via Numero Uno No.1603/Jembatan DX/Yamada-JPN)

**IRAN** New transmission in English of **Voice of Islamic Republic of Iran**: 1900-1927 "Radio Shalom" on 7175, 7255 both registered as EBRI/NEW (Observer, Bulgaria, Nov 15 via DXLD) Another "Ebri" broadcast is at 0430-0457 on 9830, 11985, per previous schedule. "Ebri" apparently means Jewish rather than Hebrew (Hauser)

**IRELAND** Updated schedule of **RTE Radio One** in English on short waves:  
0130-0200 6155R

1000-1030 11740P  
1800-1830 9895K  
1830-1900 13640S 21620A

A=Ascension

K=Skelton

P=Singapore

R=Rampisham

S=Sackville

(Ivo & Anguel, Observer, Bulgaria Nov 13 via DXLD/Hauser)

#### ISRAEL Voice of Israel External Service

Web Site: <http://www.israelradio.org>

0000-0430	Hebrew-B	7545 9345 11585
0400-0630	Arabic-D	5915 9815 12140
0430-0500	Hebrew-B	7545 11590
0500-0515	English-A	9435 11605(6280 from 12/15) 17545
0500-0600	Hebrew-B	7545 11590 15760
0600-0615	French-R	11605 15640
0600-1700	Hebrew-B	15760 17535
1100-1130	French-R	15640 17545
1130-1135	English-R	15640 17545
1300-1315	Bukharian-R	15660 17545
1315-1330	Georgian-R	15660 17545
1500-1600	Persian	9885 11605 17705 Fr/Sa
1500-1625	Persian	9885 11605 17705 Su/Th
1600-1625	Sp/Ladino	15640 17545 17705 Sa
1600-2215	Arabic-D	5915 9815 12140 15480
1630-1655	French	11605 15650 17545
1700-1725	Yiddish-R	9435 15650
1700-1730	English-A	11605 17545
1700-1900	Hebrew-B	11590 15760 17535
1725-1745	Romanian	9435 11605 15650
1735-1745	Spanish-R	15640
1745-1800	Hungarian	9435 11605 15650
1745-1800	Ladino-R	15650
1800-1825	Yiddish	9435 11605 15650
1830-2000	Russian-R	9435 11605
1900-1945	Hebrew-B	9345 9390 11585 15640
1945-2100	Hebrew-B	9345 9390 11585
2000-2025	English	9435 11605(6280 from 12/15) 15640 15650
2030-2045	French	9435 11605 15640 15650
2045-2100	Spanish	9435 11605 15640 15650
2100-2230	Hebrew-B	9345 9390 11585 15640
2230-2300	Hebrew-B	9345 9390 11585
2300-2400	Hebrew-B	7545 9345 11585

A=Network A - Reshet Alef (English)

B=Network B - Reshet Bet (Hebrew)

D=Network D - Reshet Dalet (Arabic)

R=REQA network for immigrants (BBCM + Poppin-CA/DXLD/Hauser)

0600-1700v 15783v  
1700-0600v 6973v  
(Observer, Bulgaria, via DXLD/Hauser)

#### ITALY IRRS-Shortwave

Web Site: <http://www.nexus.org>

0530-0700	En/It	3985
0700-0800	En/It/Ge	7120 Mo-Fr
0800-1600	En/It/Ge	7120 Sa/Su
1800-2315	En/It/Ge	3980-(alt) 3985 (BBCM)

#### JAPAN Radio Japan

Web Site: <http://www.nhk.or.jp/rjnet/>

0000-0015	English	13650 17810
0000-0100	English-GS	6145c
0100-0200	English	17685
0100-0200	English-GS	9515g 11860k 11870 15325 17810 17835 17845
0130-0200	Bengali	11890s
0200-0230	Hindi	11890s
0200-0300	Japanese-GS	5960c 11860k 11870 15195 15325 17685 17810 17825 17835 17845 17875 21610
0230-0300	Persian	9650g
0230-0300	Urdu	11890s
0230-0300	Portuguese	15590f
0300-0400	Japanese-GS	9650g 9660f 11870 11890s 15195 15325 17685 17810 17835 17875
0300-0400	English-GS	17825 21610
0330-0400	Swahili	6135a
0330-0400	Russian	17845
0400-0430	Arabic	9745g
0400-0430	Spanish	9660f
0400-0430	Korean	17845
0400-0500	Japanese-GS	15195 17810
0430-0500	Mandarin	17845
0430-0500	Russian	11915g
0500-0530	Korean	17845
0500-0530	Spanish	11895f 11915g
0500-0530	French	17820s
0500-0600	English-GS	5975uk 6110c 7230uk 9835 11715 11760 15195 17810 21755 11915g
0530-0545	Italian	11915g
0530-0600	Mandarin	17845
0545-0600	Swedish	11915g
0600-0630	Russian	11715 11760
0600-0630	German	11915g
0600-0700	English	9685
0600-0700	English-GS	7230uk 9835 11740k 15195 21755
0630-0700	Mandarin	17860
0630-0700	French	11915g
0630-0700	Bengali	11890s 15590
0700-0730	Hindi	11890s 15590
0700-0730	Arabic	15220a
0700-0800	Japanese-GS	6145 6165 9685 11740k 11920k 15195 17860 21755

Galei Zahal Radio observed on October 28-31:

0730-0800	Urdu	11890s 15590			11830 11850 11910
0800-0830	Russian	6145 6165	2100-2200	Japanese-GS	7225 11665 11910
0800-0900	Japanese-GS	9530f 9685 9750	2100-2200	English-GS	6115uk 6180uk 11830
		9835 11710uk			11855a 11920k 21670
		11740k 11920k	2100-2200	English	17825
		12030 15590 17650a	2200-2300	Japanese-GS	6110c 6115uk 11665
		17860 21550g 21755			11895f 11910 15220a
0830-0900	Persian	17820s			17825
0900-1000	Japanese-GS	9685 9750 9835	2210-2230	Korean	9560
		11710uk 11740k	2230-2300	Mandarin	9560-(to 2250) 13650-
		11815 11920k 12030			(from 2240)
		15590 17650a 21550g	2240-2300	Malay	17810
		21755	2300-2320	Indonesian	17810
0930-1000	Indonesian	9695	2300-2320	Thai	13650
1000-1030	Spanish	9685 12030 15590f	2300-2359	Japanese-GS	11665 11910
1000-1100	English-GS	9695 15590 21755	2320-2340	Vietnamese	17810
1000-1500	Japanese-GS	9750 11705c(from	2320-2340	Burmese	13650
		1300) 11815	2340-2400	Indonesian	13650
1030-1045	Italian	21700g	2340-2400	Mandarin	13630 17810
1030-1100	Portuguese	15590f			
1030-1100	Burmese	11740k			
1045-1100	Swedish	21700g			
1100-1130	Vietnamese	13660			
1100-1130	Korean	6090			
1100-1130	German	9660uk 11710uk			
1100-1200	English-GS	6120c 9695 15590			
1130-1200	Mandarin	6190			
1130-1200	Indonesian	13660			
1130-1200	Russian	11710uk			
1130-1200	Thai	11740k			
1200-1230	Vietnamese	11740k			
1200-1230	Malay	9695 13660			
1200-1230	Swahili	17790a			
1200-1230	Korean	6190			
1230-1300	Burmese	9695			
1230-1300	Mandarin	6190 11740k			
1230-1300	French	15400a 17790a			
1230-1300	Indonesian	13660			
1300-1330	Russian	6190			
1300-1330	Malay	9695			
1330-1400	Thai	7200			
1400-1430	Korean	6190			
1400-1500	English-GS	7200 9505 9845			
		11880s			
1430-1500	Mandarin	6190			
1500-1520	French	7190			
1500-1600	Japanese-GS	9505 9535 12045s			
1500-1600	English-GS	7200 9750 9845			
1600-1700	Japanese-GS	6035 7140 7200 9505			
		9535 9750 9845			
		12045s 21630a			
1700-1800	English-GS	9505 11970 15355g			
		21630a			
1700-1800	Japanese-GS	6035 6175uk 7140			
		7200 9750- uk 9835			
		11880s 21630a			
1800-1820	French	9685 11785 11970			
1800-1900	Japanese-GS	6035 6175uk 7200			
		9835 11880s 15355g			
1820-1840	Spanish	11970			
1840-1900	Russian	11970			
1900-1920	Russian	5955			
1900-2000	Japanese-GS	6165 11665 11910			
2000-2100	Japanese-GS	6165 7225 11665			

**JORDAN** New schedule of *Radio Jordan* in English:  
 1100-1530 11690  
 1530-1730 17680  
 (Observer, Bulgaria, via DXLD/Hauser)

**KAZAKHSTAN Kazak Radio** on  
[http://www.radio.kz/radio\\_engl.html](http://www.radio.kz/radio_engl.html) "We are broadcasting in FM 101 and 106.5 MHz, AM 1197, USW 66.78 MHz, at the range of Middle waves 250.83 m, Short waves 25.10 m [that mean 11950/11955 kHz?]. Besides you can listen to us in double line network and three-program line being. The Kazak radio's air sounds in 9 lang: Kazak, Ru, En, Ge, Korean, Uygur, Azerbaidzhan, Tatar and Turkish." (Andreas Iwainsky, Austria, A-DX Nov 11 via BC-DX via DXLD/Hauser) I recall listening to Kazakh Radio in the 70s and 80s during our local early evening on 11950. (Salmaniw-BC, Nov 22, DXLD) Doubt really active, but check (Hauser-OK)

**KIRIBATI** 9810 According to RNZI's Technical Manager Adrian Sainsbury, just home from Kiribati, there are no plans at present to repair the SW transmitter, because the Chief Engineer is currently on long term sick leave. (Barry Hartley-NZL, RNZI via Bryan Clark-NZL, Cumbre Nov 7/BC-DX/Bueschel-GER)

**LAOS** 4662.22v *Houa Phan BS*, 1017-1035, SoEaAsian vcl mx w/W anncr host. What sounded very much like and ID by W at 1159 w/ment of meterband, and usual bells as hrd on 6130. Kind of weak but nice audio and clear. Drifting down. Wonder if this was the stn hrd on 4693.52 earlier?? (Dave Valko-Hawaii DXpedition, Cumbre Oct 29/BC-DX/Bueschel-GER)

**Luang Prabang** now seems to be absent from SW. For many months from around June 2000 until late October I was regularly hearing a strong carrier on 6969.5v which was probably them -- same hours as Luang Prabang previously used but with no discernible audio. Perhaps they've finally decided that there's not a lot of point in burning electricity on a transmitter with no modulation (Davies-VTN/Cumbre DX Nov 16 via DXLD/Hauser)

6130 **Lao National Radio** 1159 Seven "Big Ben" gongs, gentle orchestral music, talk by man in presumed Lao. Very weak, but alone on the channel with CHNX currently silent. Don't remember ever hearing Laos from the East Coast before. (Hill, Nov. 19)

**LITHUANIA Radio Vilnius** foreign sec of Lithuanian Radio, to NAM via Juelich, Germany: 0000-0030 in Lith, 0030-0100 in En on 6120. From 1 Jan 2001, these bcs will be moved to the Sitkunai transmitting center in Lithuania. Starting 20 Nov, regular tests will be made with the new NAM antenna at Sitkunai from around 2300-0100 on 6000, alt 9735 with 100 kW of power. The final frequency will depend on the test results (Bernd Trutenau, Lithuania, 8 Nov, BC-DX via DXLD/Hauser)

**MEXICO** Updates from Mexico. In Mexico, Distrito Federal: SW: XERTA 4800 **Radio Transcontinental de America** is still inactive, since April. XERMX 5985 **Radio Mexico Internacional** was broadcasting with 5 kW, yesterday (October 20, 2000) disconnected its transmitter to test other of its old and inactive frequencies. XERMX 9705 **Radio Mexico Internacional** is broadcasting with 6 kW. XERMX 11770 **Radio Mexico Internacional** began its test transmission, I tuned in it from 1500 to 0500 XEOI 6010, **Radio Mil** has a new e-mail to receive reception reports at: radiomil@nrm.com.mx **Radio UNAM**, XEUN 860, XEYU 9000 (inactive) and XEUN 96.1, the new "Director General" is Fernando Escalante Sobrino. (Bojorge, via TL, SW Bulletin Nov 5 via Thomas Nilsson, DXLD/Hauser-OK)

**MOROCCO** 7185 **RTM** 0100 Three pips and ID in Arabic; powerful signal. So much for any chance of hearing Burma from \*0030, one of the few exotic early-evening DX targets left on 41M. (Hill, Nov. 4)

**MOZAMBIQUE** 15293.96 **Radio Mocambique** (p), 1300-1346, 5+1 time ticks, 3 note NBC-like chime, very brief anmt by W probably TC, pause, 7 note nx signature, M w/nx in definite Portuguese of course to 1306, mx bridge, into mx w/W hosting. A ton of canned anmnts 1340-1345, more soft mx. I'm amazed this can be audible in Hawaii but not in PA!!! Already a het there at 1023 next day 4 Nov. (3 Nov.) (Dave Valko, Pele DXpedition, BIHI,

hard-core-dx via DXLD/Hauser)

**MYANMAR** 4725 **Radio Myanmar**, 1332-1340, English talk by woman about responsibilities of school headmasters to 1339, program outro in another lang., more talk. Gone at 1352. Tnx Hans who reaffirmed my hit list that this English segment is Fridays only. (3 Nov.) (Dave Valko, Pele DXpedition, BIHI, hard-core-dx via DXLD/Hauser)

**NORWAY Radio Norway International**

Web Site: www.nrk.no/radionorway

0000-0030	Norwegian	7465 9480 9580 9945
0100-0130	Norwegian	9935 9945
0200-0230	Norwegian	7465 7495 9945
0300-0330	Norwegian	7465 7490 9590
0400-0430	Norwegian	7465 7485 9945
0500-0530	Norwegian	7465 7485 9945
0600-0630	Norwegian	5965 7485
0700-0730	Norwegian	5965 7180 9590 13800
0800-0830	Norwegian	7180 9590
0900-0930	Norwegian	15705 18950
1000-1030	Norwegian	18950 21725
1100-1130	Norwegian	13800 21725
1200-1230	Norwegian	13800 21760
1300-1330	Norwegian	13800 15735 18910 18950
1400-1430	Norwegian	9590 13800 18910 18950
1500-1530	Norwegian	15705 18950
1600-1630	Norwegian	13800 15705 15735
1700-1730	Norwegian	9590 13800 18950
1800-1830	Norwegian	7485 9985 15705 18950
1900-1930	Norwegian	5960 9985 13800 18950
2000-2030	Norwegian	7485 13800 15705
2100-2130	Norwegian	7465 7485
2200-2230	Norwegian	7465 7485
2300-2330	Norwegian	9415 9480

(BBCM)

**PAKISTAN Radio Pakistan**, revised Nov 14:

0045-0115	Assami/En	9780 11650 15455
0100-0215	Urdu	15485 17895
0115-0200	Bangla	9780 11650 15455
0200-0245	Hindi	9780 11650 15455
0245-0315	Tamil	9780 11650 15455
0330-0400	Gujarati	15320 17835
0500-0700	Urdu	15175 17525 21460
0800-1100	Urdu	17520 21465
0900-0930	Indonesian	15430 17660
1000-1030	Tamil	11645 15625 17655
1030-1115	Hindi	11645 15625 17655
1100-1105	English	17520 21465
1115-1145	Bangla	11645 15625 17655
1145-1215	Sinhala	11645 15625 17655
1200-1230	Mandarin	11895 15465
1215-1245	Nepali	11645 15625 17655
1330-1530	Urdu	11570 15100 17510
1400-1430	Turki	7375 9390
1430-1515	Russian	7375 9390
1600-1615	English	11570 15100 15725 17510



1630-1700	Turkish	9770 11665 15725			15250
1700-1745	Persian	9770 11665 15725	0000-0200	Romanian	9510 11940
1700-1900	Urdu	11570 9390	0100-0200	Portuguese	11875 15250
1745-1830	Arabic	9770 11665 15725	0200-0300	English	9570 9690 11740
1800-1900	Urdu	9800			11830 11940 15370
1930-2000	French	11570 9385	0300-0400	Spanish	9570 11830
("Observer" Bulgarian Radio, Ivo Ivanov & Anguel Datzinov-BUL, Nov 15)			0330-0400	Mandarin	9530 17790
			0400-0500	English	9570 11830 15335 17735
<b>PERU 4300.0 UNID, 7/11 0027-0120 mx tropical y pasillos px mensajes musicales s/off mv dicen: "sera hasta manana a las 4 de tarde donde nuevamente estaremos con ustedes....tocan un pasillo y luego el himno nacional.."</b> (Chasqui DX/Arrunategui-PRU)			0500-0530	Bulgarian	0756 5955
			0500-0600	Romanian	17735 21480
			0500-0600	French	5990 9590
			0530-0600	Ukrainian	6085
			0600-0615	Romanian	6135 7105 9510 11940
			0600-0630	Hungarian	5975
			0600-0700	English	9530 11830
			0615-0628	French	6135 7105 9510 11940
			0628-0641	German	6135 7105 9510 11940
			0641-0656	English	6135 7105 9510 11940
			0700-0800	English	17720 21480
			0700-0800	Arabic	15250 15270 15380 17775
			1100-1200	French	15245 15380 17745 17790
			1100-1300	Romanian	11775 15290 17775
			1200-1300	German	11940 15245 17745
			1300-1400	Russian	11810 15250 15315
			1300-1400	English	11940 15290 15335 17805
			1400-1430	Italian	11740
			1400-1500	Arabic	11830 15250 15380 17790
			1430-1500	Mandarin	11740 15405
			1500-1530	Italian	11740
			1500-1600	French	11775 15245 15390 17790
			1500-1600	Russian	11735 15365
			1530-1600	Turkish	11865
			1600-1630	Ukrainian	9645
			1600-1700	Romanian	15365 17840
			1600-1700	German	9690 11940 15245
			1630-1700	Bulgarian	6040
			1700-1730	Serbian	9585
			1700-1800	English	9625 11740 11940 15365
			1700-1900	Romanian	7195 9690
			1730-1800	Greek	9635
			1800-1830	Aromana	7115
			1800-1900	Spanish	11725 15390 17745
			1830-1900	Turkish	7150
			1900-1930	Serbian	6140
			1900-2000	Russian	5965 7155 9550
			1900-2000	German	5955 7195 9690
			1930-2000	Greek	6090
			2000-2030	Italian	7245
			2000-2100	French	7195 9690 11940
			2030-2100	Hungarian	5970 7165
			2100-2200	English	5955 7195 7215 9690
			2100-2200	Romanian	7130 9530
			2200-2300	Spanish	9665 11735
			2200-2300	Portuguese	11790 11940 15365 15380
			2300-2359	English	7195 9570 9690 11940
			2300-2400	Romanian	15365 17745
<b>QATAR Radio Qatar transmission schedule:</b>					
0245-0705	Arabic	7210 9570			
0705-0800	Arabic	9570			
0800-1305	Arabic	9570 11820			
1305-1705	Arabic	9535 9570			
1705-2130	Arabic	9570 11655			
(direct/Ritola-FIN/HCDX)					
<b>ROMANIA Radio Romania International</b>					
Web Site: <a href="http://www.rrr.ro/">http://www.rrr.ro/</a>					
0000-0100	Spanish	9665 11830 11875			

(BBCM)

**RUSSIA Voice of Tatarstan** (Tatarstan Awazy) for B-00.

0500-0600 15105  
0700-0800 15105  
0900-1000 11915

All via Samara

Send your RRs to: P.O.Box 134, Kazan, Tatarstan 420136, Russia. For return postage, please include: SASE (for RUS), 1 IRC (for ARM, BLR, TJK, UZB, UKR and EST), 2 IRC or \$1 (for all other countries). Taped reports from outside Russia may be accepted only if sent by registered mail, or if there is a customs label on the envelope. Otherwise, your letter may be returned or thrown away by the customs at this side of the border. (info received from Ildus Ibatullin, the stn's QSL manager, via Dmitri Mezin, Kazan-RUS, Nov 2/BC-DX/Bueschel-GER)

The Russian State Radio Broadcasting Company the **Voice of Russia** will soon be moving on to a qualitatively new level of broadcasting in the short wave meter band. On Nov. 14-15 our Radio Company conducted digital AM-broadcasting tests, using a Russian transmitter and equipment from Thomcast company. The signal beamed by a transmitting center in Dubna, near Moscow, was successfully picked up in Europe. According to the Voice of Russia chairman Armen Oganesyan, our listeners in the world will be able to receive our short wave programs as clearly as they do FM programs. (From VoR's Nov. 17 News Report/Hauser/HCDX)

Regional broadcasters on shortwave from Oct-29:  
4425 50 RV-726 2000-1600 Yakutsk "Sakha"  
4795 50 RV-44 2200-1800 Ulan-Ude Buryatskaya  
GTRK

4820 50 RV-703 0000-2000 Khanty-Mansiysk  
"Yugoriya"

4895 50 RV-700 0000-2000 Tyumen "Region-  
Tyumen"

5290\* 5 RV-1095 0000-1600 Perm "T-7"

5290 50 RV-98 2200-1800 Krasnoyarsk "Tcent  
Rossii"

5930 50 RV-790 0200-2200 Monchegorsk  
"Murman"

5935 100 RV-1001 1800-1400 Arman "Magadan"

6060 5 ? 2100-1600 Blagoveschensk "Amur"

6095 3 RV-1472 0000-1600 Khanty-Mansiysk  
"Yugoriya"

6125 5 RV-1327 0300-1700 Ioshkar-Ola "Mariy-El"

6160 40 RV-297 0200-2200 Arkhangelsk

"Pomorje"

7140 50 RV-727 2000-1600 Yakutsk "Sakha"

7200 100 RV-729 2000-1600 Yakutsk "Sakha"

7200 RV-1326 0200-1630\*\* Ioshkar-Ola "Mariy-  
El"

7210 100 RV-914 2000-1600 Khabarovsk

"Dalnevostochnoye"

7320 100 RV-647 1800-1400 Arman "Magadan"

7345 50 RV-725 2000-1600 Yakutsk "Shakha"

9530 100 RV-646 1800-1400 Arman "Magadan"

11650 5 RV-1095 1605-2000 Perm "T-7"

11840 15 RV-677 1800-1400 Yuzhno-Sakhalinsk  
"Sakhalin"

15165 5 RV-1326 1635-2200 Ioshkar-Ola "Mariy-El"

15235 3 RV-1472 1605-2000 Khanty-Mansiysk  
"Yugoriya"

15395 5 RV1327 1705-2200 Ioshkar-Ola "Mariy-El"

All transmitters relay Radio Rossii.\* alternative frequency 6150\*\* was noted on the mentioned frequency even later 1630- transmitter RV-645 (Arman) on the frequency 9600 is switched off-transmitter RV-1001 (Arman) works on the new frequency 5935 (instead of 5940 kHz)-GTRK "Yugoriya" (Khanty-Mansiysk) also relays GTRK "Region- Tyumen". (RUS-DX/Klepov/EDXP/Padula-AUS)

4955 **Radio Retro**, Nov 19 1756 with Russian songs, 1759-1800 with numerous IDs and jingles of station, then immediately with songs. (Liangas-GRC)

**SIERRA LEONE** Interesting info in from our friend David Smith at UN HQ: **UN Radio** has started on 6140 SW from here. David advises that he has heard from Duncan Robinson, UN chief of communications in Freetown, that they have commenced SW testing from "the Mammy Yoko compound" on this freq. A Barrett Model 950-HF transceiver is being driven by 600 ohm audio direct from the studio mixer with excellent SW voice quality. They are on the air 24 hrs. a day, with mainly mx at night, programs alternating between English and Kriol. David is putting out a call for reception reports, and will try to convince his counterparts in Sierra Leone that it's a good idea to start printing QSL cards. I will try to get more contact information on this; I am not certain what the mail situation is with Sierra Leone these days. I assume that reports can be sent to David for the time being. (Jerry Berg/NU/EDXP/Padula-AUS)

**SINGAPORE Radio Singapore International** in English 9600 (x9590), at best before 1400. (Uwe Volk-D, Nov 14/BC-DX/Bueschel-GER)

**SLOVAKIA Radio Slovakia International**

Web Site: <http://www.slovakradio.sk>

0100-0130	English	5930 7230 9440
0130-0200	Slovak	5930 7230 9440
0200-0230	French	5930 7230 9440
0700-0730	English	15460 17550 21705
0730-0800	Slovak	15460 17550 21705
0800-0830	German	5915 6055 7345
1400-1430	Russian	9440 11990 13715
1430-1500	German	6055 7345 9450
1600-1630	Russian	5915 9535 11990
1630-1700	Slovak	5915 6055 7345
1700-1730	German	5915 6055 7345
1730-1800	English	5915 6055 7345
1800-1830	French	5915 6055 7345
1830-1900	Russian	5915 9485 11990
1900-1930	German	5915 6055 7345
1930-2000	English	5915 6055 7345

2000-2030 Slovak 5915 6055 7345  
 2030-2100 French 5915 6055 7345  
 (BBCM)

**SOMALIA 6847 Radio Mogadishu VOP.** Recently was on 6828 on the same channel with Radio Bunia (Congo-Kinshasa) poor at 1510 with recital of Koran. (Mahendra Vaghjee-MAU, Nov 13/BC-DX/Bueschel-GER)

6985 **Radio Gaalkacyo**, Thanks Sam Voron tip. (presumed) 1555 flute sounding interval signal. 1557 dead air, then music. Got better at 1635 when English was heard. Sounded like someone from an NGO speaking but will have to review tape. Same IS at 1658 and off so no English at 1700. Strength varies, sometimes just a het, Oct 30 was the best. Full AM signal (Hans Johnson, HI, Oct 29-Nov 2, Cumbre DX via DXLD/Hauser)

7019.9 **Radio Banaadir** (t) Thanks Sam Voron. Sam wasn't able to hear their evening program, but I believe that they have one during the 1600-1700 hours. 1635 with what sounded like talk in Somali, full AM signal. Sporadic jamming going after Voice of Mojahed. Best audio Oct 31, often just a het fading in shortly after 1600. Heard as late as 1756 with what sounded like Somali music. (Hans Johnson, HI, Oct 31-Nov 2, Cumbre DX via DXLD/Hauser)

7530 **Radio Hargeisa** just a carrier at 0400 and 1500, but by 1630 they have usually faded in. USB+carrier Somali music, 1700 same fanfare before the news that I have previously noted. Fading around this time, not sure of exact sign off (Hans Johnson, HI, Oct 29-Nov 2, Cumbre DX via DXLD/Hauser)

**Voice of the People**, reported to use the 11 MHz range and the other Radio Mogadishu have been untraced (Hans Johnson, HI, Oct 29-Nov 2, Cumbre DX via DXLD/Hauser)

#### **SOUTH AFRICA Channel Africa**

Web Site: <http://www.channelafrica.org>

0300-0325	Swahili	9685
0300-0325	English	9525
0330-0355	French	9525
0400-0430	English	5955
0430-0455	Portuguese	3345 5955
0430-0455	French	9525
0500-0530	English	15215
0530-0555	Portuguese	15215
0600-0630	English	15215
0630-0655	Portuguese	15215
1300-1455	English	11720 17780 21725
	Sa/Su	
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

(BBCM)

#### **SWEDEN Radio Sweden**

Web page: [www.sr.se/rs](http://www.sr.se/rs) or [www.radiosweden.org](http://www.radiosweden.org)

0000-0030	Swedish	9495
0100-0130	Swedish	9635
0130-0200	English	9495
0200-0230	Swedish	7155
0200-0230	Swedish	7290
0230-0300	English	7155
0300-0330	Swedish	9495
0330-0400	English	9495
0500-0530	Swedish	9495
0500-0700	Swedish	6065 17505 Mo-Fr
0600-0800	Swedish	9490 Mo-Fr
0700-0800	Swedish	9490 Mo-Fr
0700-0900	Swedish	6065 17505 Sa
0800-1000	Swedish	6065 17505 Su
1100-1110	Swedish	9490 9525/alt 17505 21810
1110-1130	Swedish	9490 9525/alt.17505 21810 Sa/Su
1130-1140	Swedish	18960 21810 Mo-Fr
1130-1140	Swedish	17505 Mo-Fr
1130-1200	Swedish	6065 18690 21810 Sa/Su
1230-1300	English	18960
1300-1315	Swedish	9425/alt 17505 18960 Mo-Fr
1300-1330	Swedish	9425 17505 18960 Sa/Su
1300-1330	Russian	17870
1315-1330	Swedish	17505 18960 Mo-Fr
1330-1400	English	9425 17870 18960
1400-1415	Swedish	9430/alt 17505 18960 Mo-Fr
1400-1430	Swedish	9430/alt17505 18960 Sa/Su
1400-1430	Russian	9865
1415-1430	Swedish	17505 18960 Mo-Fr
1430-1500	English	17505 18960
1500-1530	Swedish	17505 18960
1545-1600	Swedish	18960
1545-1700	Swedish	6065 Sa/Su
1545-1710	Swedish	6065 Mo-Fr
1600-1630	Swedish	6175/alt 7180
1645-1700	Swedish	13765 15495 Sa/Su
1645-1710	Swedish	13765 15395 Mo-Fr
1700-1715	Estonian	6065 Sa/Su
1730-1745	Estonian	5965
1730-1800	Russian	6050/6065
1745-1800	Latvian	5965
1800-1815	Estonian	6065 Mo-Sa
1800-1900	Swedish	6065 Su
1815-1830	Latvian	6065 Mo-Sa
1830-1900	English	6065 9765 Su
1900-1930	Swedish	6065 11615 9765
1930-2000	German	6065 Mo-Sa
1930-2030	German	6065 Su

2000-2030 Russian 6065 9590 Mo-Sa  
 2000-2030 Swedish 9445  
 2000-2030 Russian 9590 Su  
 2030-2100 English 6065 9445  
 2100-2145 Swedish 6065 11615/alt 9445  
 Su  
 2100-2200 Swedish 6065 11615/alt 9445  
 Mo-Sa  
 2200-2230 Swedish 6065 7325  
 2230-2300 English 6065 7325  
 (SR leaflet direct/BC-DX/Bueschel-GER)

**SWITZERLAND *Swiss Radio International***

Web Site: <http://www.swissinfo.org/>

0030-0100 German 9885 9905f  
 0100-0200 English 9885 9905f  
 0200-0230 French 9885 9905f  
 0230-0300 English 9885 9905f  
 0300-0330 Italian 9885 9905f  
 0330-0400 German 9885 9905f  
 0400-0500 English 9605f 9885  
 0500-0530 French 9885  
 0500-0530 English 9665g  
 0530-0545 Italian 9885  
 0530-0600 French 9665g  
 0600-0630 English 9665g  
 0600-0630 French 9885g 13635g 17665  
 0630-0700 German 9885g 13635g 17665  
 0630-0700 German 9665g  
 0700-0730 Italian 9885g 13635g 17665  
 0700-0730 Italian 9665g  
 0730-0800 English 9885g 13635g 17665  
 0830-0900 English 9885f 21770  
 0900-0930 Italian 9885f 21770  
 0930-1000 German 9885f 21770  
 1000-1030 French 9885f 21770  
 1100-1130 English 9535g  
 1100-1200 English 9540s 21770  
 1130-1200 German 9535g  
 1200-1230 French 9535g  
 1200-1230 German 9540s 21770  
 1230-1300 French 13735s 21770  
 1230-1300 Italian 9535g  
 1300-1330 Italian 9540s 21770  
 1300-1330 English 9535g  
 1400-1500 English 12010s 15185  
 1500-1530 German 12010s 15185  
 1530-1600 French 12010s 15185  
 1630-1700 Italian 9605g 13790g 15555  
 1700-1730 Arabic 9605g 13790g 15555  
 1730-1800 English 9605 13790g 15555  
 1800-1815 French 9605g 13790g 15555  
 1830-1900 German 6165g  
 1830-1900 Italian 9605g 11910g 13660  
 1900-1930 Arabic 9605g 11910g 13660  
 1900-1930 Italian 6165v  
 1930-2000 English 9605g 11910g 13660  
 1930-2000 French 6165v  
 2000-2030 English 9605g 11910g 13660  
 13790f  
 2000-2030 English 6165v  
 2030-2100 German 9605g 11910g 13660  
 13790f  
 2100-2130 French 9605g 11910g 13660

2200-2230 French 9885 11660f  
 2230-2300 German 9885 11660f  
 2300-2330 Italian 9885 11660f  
 s=Singapore  
 v=Vatican  
 f=Montsinery, French Guiana  
 g=Juelich, Germany  
 (BBCM)

**TURKEY 5562.04v UNID** I'm hearing a Turkish speaking station here, doesn't sound like a clandestine, but rather a re-bc of an FM outlet. They are already audible at 2030 and s-off few minutes after 0000. (Renato Bruni-I, hcdx Nov 13) This the 6th harmonic of **TRT Izmir** on 927. (Tim Bucknall, hcdx Nov 15/BC-DX/Bueschel-GER)

**UNITED ARAB EMIRATES *Voice of the UAE***  
 Abu Dhabi noted on new 11940 in period 1800-2000\*, Ar, extensive Koran recitations. Not in \ with 13755 which is noted with a different Ar progr, also to 2000\*. UAE R Dubai observed in Ar on 13630 and \ 13675 in period 1800-2000. (Bob Padula-AUS, edxp Nov 17/18/BC-DX/Bueschel-GER) UAE Radio, Abu Dhabi, now has two separate Arabic services during local evening hours. There is a "Koran" network, using 11940, noted 1800-2000\*, adjacent to Sa'udi Arabia's Koran service on 11935! The other Arabic service is noted on 13755 and 15215 in the same time period, as at Nov 22 (EDXP/Padula-AUS/DXLD/Hauser)

**UNITED NATIONS *UN Radio***, sked changes eff Oct 28:

1700-1715 French 6125 Meyerton-RSA, 17595 Skelton-UK  
 1700-1720 French/Port 21490 Meyerton-RSA  
 1725-1745 Port/En 6125 Meyerton-RSA  
 1730-1745 English 15495 Skelton-UK, 17735 ASC Isl  
 1830-1845 Arabic 7260 & 13770 Skelton-UK  
 (Smith-UN via JB, BC-DX via DXLD/Hauser)  
 [see also **SIERRA LEONE**]

**UNITED STATES OF AMERICA *Radio Marti***, all in Spanish:

0000-0300 6030 7365 11775 13820  
 0300-0400 6030 7365 7405 11775  
 0400-0700 6030 7405 9805 11775  
 0700-1000 5980 6030 7365 7405  
 1000-1200 5980 6030 6060 9565  
 1200-1300 5980 6060 7405 9565  
 1300-1400 7405 9565 11930 13820  
 1400-1500 9565 11930 13820 21600  
 1500-1700 11815 11930 13820 21600  
 1700-2200 9825 11930 13820 21500  
 2200-2300 6030 11930 13820 15330  
 2200-2400 6030 11930 13820 15330  
 (IBB Freq List, Nov 11/BC-DX/Bueschel-GER)

**Radio Free Asia**

1400-1500 Vietnamese 9365D 9455S 9920Y

		9930W 11535A 11760T 13635P 15470T
1500-1600	Mandarin	7540D 9910P 11945S 13690T 13735T 15510T 17640T
1600-1700	Mandarin	7540D 9455S-(fr 1630) 9910P 11850T 11945S 13690T 13735T 15510T 17640T
1700-1800	Mandarin	7540D 9455S 9910P 11850T 11945S 13690T 13735T 15510T 17640T
1900-2000	Mandarin	7455D 7540D 9355S 9875P 11790T 11945S 13625T 13680T 13735T 15510T
2000-2100	Mandarin	7455D 7540D 9355S 9455S 9875P 9885T 11950S 13625T 13735T 15510T
2100-2200	Mandarin	7540D 9455S 9875P 9885T 11950S 13625T 13735T 15510T
2200-2300	Cantonese	9570S 9845P 11740T 11785T
2230-2330	Cambodian	7185I 7530A 9930P 15485T
2300-2400	Mandarin	7540D 9905P 11785T 13800S 15430T 15550T
2330-0030	Vietnamese	7515D 9490A 9930P 11580U 11670T 13720S

A=Almaty, Kazakhstan  
D=Dushanbe, Tajikistan  
H=Holzkirchen, Germany  
I=Iranawila, Sri Lanka  
P=KHBN Palau  
S=Saipan  
T=Tinian, Northern Marianas Islands  
U=Ulan Bator, Mongolia  
W=KWHR, Hawaii  
Y=Yerevan, Armenia  
(George Jacobs Assoc, via Noel R. Green-UK, Oct  
19/BC-DX/Bueschel-GER)

**WBCQ2** has just been authorized a new daytime frequency which will begin testing in a couple of weeks: 17495. Hope to sell time to one particular network (Allan Weiner, AW Worldwide, WBCQ Oct 28 via gh, DXLD) Just got authorised to use 17495 daytime 8am-5pm eastern [1300-2200 UT]. Will begin tune up and testing in a couple of weeks. As soon as a client is found we will begin programming during the days. WBCQ-2 Moves to 9335 on Oct 29. (Allan H. Weiner, Oct 27, From WBCQ Central, DX Listening Digest/Hauser)

**WMLK** station manager Gary McAvin tells Cumbre

DX that they have purchased a 250 kW from SwissCom [I assume that this is an old Swiss Radio International unit-Ed.] The transmitter has already arrived in the USA, but WMLK doesn't plan to have it on until March or April 2001. Among other things, they need upgrade the amount of power being delivered to the transmitter site (via Hans Johnson, Oct 25, Cumbre DX Special via DX Listening Digest/Hauser-OK)

Radio station **WGTV** is under new management. New call letters **WWFV** (=World Wide Freedoms Voice). Paid airtime is open to all at \$ 25.00 per hour; new web page : <http://www.wwfv.org/> <http://www.wwfv.net> (still under construction) see the former wgtg web page for details <http://www.wgtg.com> or <http://www.wgtg.org> David Frantz will be staying on with WWFV for the time being during the transition to the new management / owners call WWFV for airtime 1-706-492-5944 (rec.radio.shortwave via Mike Terry, BDXC-UK via DXLD/Hauser)

#### UZBEKISTAN *Radio Tashkent*

0000-0030	Uyгур	5040
0100-0130	English	5955 5975 7105 7285 9540
0130-0200	Dari	5955 5975 7285
0200-0230	Pashto	5955 5975 7285
0230-0330	Uzbek	5955 5975 7105 7285 9540
0600-0630	Turkish	7105 15165 15330
1200-1230	English	5060 5975 6025 9715
1230-1300	Urdu	5060 5975 6025 9715
1300-1330	Hindi	5060 5975 6025 9715
1330-1400	English	5060 5975 6025 9715
1330-1430	Uyгур	5040
1400-1430	Urdu	5060 5975 6025 9715
1430-1500	Mandarin	5040
1430-1500	Hindi	5060 5975 6025 9715
1500-1530	Uzbek	5040
1520-1550	Dari	5975 6025 7285
1550-1630	Uzbek	5975 6025 7105 7285 9540
1630-1700	Persian	5975 6025 7105 7285 9540
1700-1730	Turkish	7105 9540
1700-1730	Arabic	5975 6025 7285 9540
1730-1830	Uzbek	5975 6025 7105 7285 9540
1830-1900	Persian	5975 6025 7105 7285 9540
1900-1930	Arabic	5975 6025 7285 9540
1935-2030	German	5035 7105 9540 11905
2030-2100	English	7105 9540
2130-2200	English	9540
2330-2400	Mandarin	5040

**VIETNAM** Some interesting notes of locals in Hanoi. Of the domestic national channels, the local shortwave freqs in Hanoi for the 1st progr are 5975 and 9530, for the 2nd program 5925 and 9875 (9875 operates daytime only). 6020 and 7210 seem to be coming from

a distant site, probably in the South of the country. (Alan Davies in Hanoi-VTN, Nov 7 via Olle Alm-SWE/BC-DX/Bueschel-GER)

v7156.88 *Ha Giang BS* (t), 1046, Het here (for at least the last half hour), no audio and too much 7145 splatter QRM. This was hrd daily but could never get any audio because of the QRM. Probably unmodulated too.

v6381.34 *Lai Chau BS*, signs on at 1200.

v9930.80 *Voice of Vietnam*, 1400-1420, found this here while KWHR off the air either intentionally or unintentionally (according to stn engineer Sheldon Remington in a recent visit, they do take the transmitters off air during thunderstorms) due to the flooding rains, thunderstorms and power outages at the time. VTN identified by Hans Johnson. (Dave Valko-Hawaii DXpedition, Cumbre Oct 29/Nov 2) [That's a VTN JAMMING station outlet against RFA Vietnamese - Bueschel/BC-DX/Bueschel-GER)

Current frequencies for the regionals on shortwave:

Son La 4976v  
Lao Cai 5597v & 6698v  
Lai Chau 6381v  
Cao Bang 6501v  
Ha Giang 7156v

This week I paid a visit to Lao Cai, about 350 km NW of Hanoi. It lies on the Red River and faces the Chinese town of Hekou in Yunnan Province which is reached by a short railway bridge. Lao Cai is not the most charming of places, perhaps because it was largely demolished during the Chinese invasion of Vietnam in 1979. Most of the new buildings were obviously thrown together in a hurry. Now that relations have improved, quite a few day-trippers cross the border from China in search of cheap shopping (mostly vegetables, actually) and the experience of a foreign country. There are even a couple of duty free shops, but they didn't exactly seem to be doing a roaring trade when I poked my nose through the door.

The local *Voice of Vietnam* station operates 0300-0430, 0945-1100 and 1145-1400 on 1098, 4497v and 6698v kHz. There's probably also an early morning transmission at around 2200-2300, but I'm afraid I wasn't awake in time to hear it. The mediumwave transmitter site is on the western edge of town inside a walled compound marked 'Restricted area - no trespassing' in both Vietnamese and English -- maybe they are aware of the risk of being encroached upon by visiting shortwave listeners?! The shortwave signals may also be coming from the same site, there appear to be two 'birdcage'-type antennas slung end-to-end between three low masts, but this array is hard to see as it is largely overgrown by trees. All three frequencies are rather intermittent, and it's not uncommon for one or

two to be off air at any time. In particular, 6698v often seems to 'die' a couple of minutes after coming on air.

I'm not sure whether the studios are located at this site, it didn't look much my idea of a studio centre with a few rather primitive-looking brick huts scattered around the compound. Also there is no sign on the compound mentioning *Voice of Vietnam*.

The audio from Lao Cai is very variable, some periods are reasonably good but at other times it is very clipped and distorted. This seems to be a studio problem, as the audio is basically the same at any given time on all three frequencies and also on the FM frequency 95.2 MHz which carries a short segment of local programming from 1000 (at other times FM relays the first program of *Voice of Vietnam* from Hanoi). The audio problems seem to be worst on some sections of prerecorded programming, including the sign-on music and ID, so maybe there is a problem with a tape deck.

Both shortwave frequencies are variable. 5597v varies around 5595-5598. On 10 Nov, the other transmitter jumped from previous 6684v to 6698v, where it has consistently been heard since. The carriers of both SW transmitters are a little unstable, especially as the transmitters warm up just after sign on. With the BFO on your receiver turned on, you can hear the whistle changing frequency as the transmitters drift around slightly.

On the way back to Hanoi, I broke the train journey with a day in Yen Bai, also a regional station formerly heard on shortwave. However, Yen Bai is now on FM only, with two frequencies (92.1 and 98.0 MHz) which carry separate local programming at times. Also there is no trace of the MW transmitter at Yen Bai listed on 580 kHz. I think it is over a year now since I heard Yen Bai on shortwave, so I'm not too optimistic that they will ever return...  
(Davies-VTN/EDXP/Padula-AUS)

*Voice of Vietnam* via Sackville-CAN is now shown:

0100-0130	English	9525
0130-0230	Vietnamese	9525
0230-0300	English	9525
0300-0330	Spanish	9795
0330-0400	English	9795
0400-0500	Vietnamese	9795

(RCI/Hauser, DXLD, Nov 14/BC-DX/Bueschel-GER)

# Pirate Radio Report

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

Hi and welcome to the December edition of the **Pirate Radio Report**. Before I forget...*Merry Christmas* and *Happy New Year* to all of you. Hope you get that new receiver from Santa Claus!

## Pirating With Cumbre

Don't forget to check out my weekly segment on the *Pirating With Cumbre* radio show. The current schedule can be found at: [www.cumbredx.org/cdxsk.html](http://www.cumbredx.org/cdxsk.html)

## Europirate Info

Last month I mentioned that it was time for DXers along the East Coast of North America who had a quiet location with a good antenna to try for Europirates, especially early Sunday mornings between 0500-0700 UTC in the 48 meter pirate band between 6200-6400 kHz.

Hans-Joachim Koch of Germany forwards some information on a few Europirates that may be of some use:

**Radio East Coast Holland** is active in the 6270-6295 kHz range. Try for them between 0400-0700 UTC. Their phone#: 0031625426740. Check their web site for current info: [www.listen.to/eastcoastholland](http://www.listen.to/eastcoastholland)

**Radio Alfa Lima International**, another Dutch pirate continues to be active on either 6295 or 6305 kHz with relays of other stations. Their email address is: [alinter@rendo.dekooi.nl](mailto:alinter@rendo.dekooi.nl). You can write to them at Box 663, 7900AR Hoogeveen, Holland. Their phone hotline is +31619508938

High frequency tests from German pirates **Linda Radio** daily at 1400 UTC on 26015 with 10 watts, **Radio East Side** on 25650 kHz USB with 100 watts. New address is: c/o SRS/Deutschland, Postfach 1136, D-06201 Merseburg, Germany.

Good luck. If you hear any, be sure to send those logs into the Pirate Radio Report.

## Loggings...

Many thanks to the following who sent in logs this month: Ralph Brandi-NJ, Ross Comeau-

MA, Marlin Field-MI and George Zeller-OH.

**Fight For Free Radio**, The anti-Pat Murphy pirate was logged immediately after Radio Azteca left the air at 2342 UTC on November 18<sup>th</sup> on 6950 USB. Announcer complained that Free Radio Network moderator Pat Murphy was censoring the info left there. Played C&W tune at sign on "Let Freedom Ring". [Zeller-OH/Lobdell-MA]

**KIPM** was logged on October 28<sup>th</sup> at 0150 UTC to 0240 sign off on 6955 USB. Theme song from the Outer Limits TV Show. Elaborate and complex sketches that were loosely coherent but entertaining. Several mentions of a new address of Box 69, Elkarn, Nebraska 68022. Also heard with a different program on October 29<sup>th</sup> at 0259 UTC. [Zeller-OH]

**Radio Azteca**, the station that Bram Stoker built was heard on 6950 kHz USB on November 18<sup>th</sup> at 2311-2342 UTC with Program #38. The usual assortment of DX humor including Top Ten new clandestine stations and Bram's Bloopers. [Zeller-OH/Lobdell-MA]

Europirate **Radio Alfa Lima International** logged on 6293 kHz AM mode at 0113 UTC with disco/techno music on November 12<sup>th</sup>. [Comeau-MA on DXpedition in Maine]

**Radio Free Oz/The Voice Of Oz** was noted on October 29<sup>th</sup> at 2315 to 0002 sign off. Reception was poor but improved at the end. This must have been an old tape as they were announcing the old Wellsville, NY maildrop. Long live Howard E. Lyon! [Field-MI]

**Radio Neptune**, a new one, was heard at 2319 to 2347 sign off on 6950 kHz USB on November 19<sup>th</sup>. Program of rock music and station IDs as "Radio Neptune Universal Service". Reception reports to Box 109, Blue Ridge Summit, PA 17214.

**WMFQ** was logged on November 7<sup>th</sup> at 0136 UTC on 6945.1 USB with a chopped up Phil Collins song "No Reply" giving the Providence, RI [Box 28413, Zip: 02908]. Full Station ID, James Brownyard imitation, etc. [Brandi-NJ]

Until next month, Happy Pirate DX! 


# QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010

**CARTA DE CONFIRMACION**  
— DE SINTONIA —  
EN ONDA CORTA "SW"  
Q.   
Radio La Hora - Cusco - Perú

## Radio La Hora

CUSCO - Perú



O. G. Colombia

### TARJETA DE VERIFICACION

OAX

Sr. Jerry Berg - Massachusetts - Estados Unidos

Estimado oyente

**RADIO LA HORA CERTIFICA QUE:**  
Sr. Berg es Oyente Internacional SW

Ha captado nuestra Señal de Transmisión en 4855 KHz con f/cw de potencia  
D. 2.00 mts. cada hora de Perú de Fección de Perú de Fección

**RADIO LA HORA**  
CUSCO - PERU  
DEPTO. DE TELECOMUNICACIONES

VERIFICATION CARD

**ALBANIA: Trans World Radio**  
12089.8 via **Cerrik** f/d "Boy in Tree Listening to the Radio" cd. in 2½ mo. w/ schedule (Barto-CT).

**ANTIGUA: Radio \* Vlaanderen International**  
15565 f/d cd. w/ site in 1 mo (Craighead-KS).

**ARGENTINA: Radio Continental LS4**  
15820 f/d cd. w/

2 different station stickers in 3 mo. for a SP rpt. (Barto-CT).

**ASCENSION ISLAND: United Nations Radio** 17710 f/d "UN Radio" cd. w/ \* site in 3 wks. (Kusalik-ALB).

**ASIATIC RUSSIA: Voice of America** 11990 via **Novosibirsk** f/d "Capitol" cd. (Craighead-KS).

**Vatican** 6205 via **Komosomolsk-na-Amure** f/d "Pope w/ Microphone" cd. in 7 wks. (Barto). 7305 via **Irkutsk** same cd. in 6 wks. (Barto)

**Radio Netherlands** 12065 via **Petropavlovsk-Kamchat-sky** f/d "Sheep Pen on the Blaricum Heather" cd. in 28 ds. (Humenyk-ONT).

**BRASIL: ZYF270 Radio Bare**

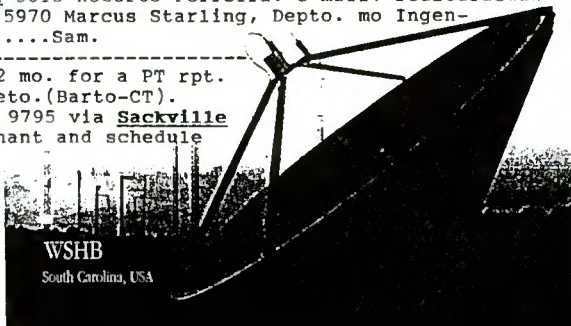
**VERIFICATION SIGNERS: Radio Continental** 15820 Addr: Rivadavia 835, Buenos Aires 1002, Argentina.  
**Trans World Radio** 7375 via **Kamo** John Moore.

Addr: B.P. 349, MC-98007 Monte Carlo, Monaco. **Radio Australia** 9580 e-mail: english@ra.abc.net.au. **Radio Cultura de Araraquara** 3365 D.R. Santos. Addr: Av. Feijo 583 Centro, Araraquara-SP, 14801-140, Brasil.  
**Radio Cultura de Cuiaba** 5015 Roberto Ferreira. e-mail: rcultura@zaz.com.br. **Radio Itatiaia** 5970 Marcus Stirling, Depto. mo Ingenieria.....via pLAY DX.....Sam.

f/d ltr. in PT/EG in 2 mo. for a PT rpt. v/s Socrates Bomfin Neto. (Barto-CT).

**CANADA: Voice of Vietnam** 9795 via **Sackville** f/d "TNVN" cd. w/ pennant and schedule in 2 mo. (Barto-CT).

**CHINA, PEOPLE'S REPUBLIC OF: China National Radio - Network 4 - Tibetan Service**  
11375, 15670 and 12080 f/d "Three Gorges" cd. in 3½ mo.



WSHB  
South Carolina, USA





Radio Singapore International

w/ schedule. (Barto). 8566 and 9390 f/d "CRI Red Dragon" cd. in 7 wks. (Barto). CNR-4 Uighur Service 10260, 11375, 11630 and 15670 f/d cd. "Three Gorges of the Yangtze River in Sichuan" cd. w/ schedule in 2 mo. (Barto) CNR-4 Mongolian Service 4190 and 5420 f/d "Gardens of Suzhou Jiangsu" cd. in 6 wks. w/ paper cuts and schedule. (Barto). CNR-4 Uighur Service 10260 and 11630 f/d "Qiniandian Hall of Prayer for Good Harvest" cd. in 3 mo. (Barto). CNR-2 Taiwan Service 9170 f/d "Gardens" cd. w/ schedule in 2 mo. (Barto). Qinghai People's Broadcasting Station 6260 via Xining f/d "Gardens" cd. in 2 1/2 mo. (Barto-CT).

CLANDESTINE: Voice of Tibet  
\* 15605 via Dushanbe rcvd. an e-mail confirmation in 24 hrs after a f/up for a 98 reception v/s Sonam Dargyay. (Kusalik-ALB). Radio International 7520 via Tiraspol (Grigoriopol) in 24 hrs. for an e-mail rpt. v/s Azar Majedi,

VERIFICATION SINERS: China Huayi Broadcastin Corporation 4840 Addr: P.O. Box 251, Fuzhou, Fujian, PRC 350001. Voice of Tibet 15605 via Dushanbe Sonam Dargyay. Democratic Voice of Burma 15600 via Dushanbe. Saw Nelson Ku, Administrative Assistant. Addr: P.O. Box 6720, Saint Olav Plass, N-0130 Oslo, Norway. Patriotische Union Kurdistans (PUK) 6995 Salah Rashid. Addr: Post Fach 21 02 31, DE-10502 Berlin, Germany. Colmundo Bogota 6065 Dr. Jairo Aguirre.....via PLAY DX.....Sam.

Director. (Kusalik). same in 6 hrs. via e-mail to: Radio7520@yahoo.com (D'Angelo-PA).

NAVAL MEDIA CENTER  
2713 Mitscher Road SW  
Washington, DC 20373-5819  
(202) 433-6410

ARMED FORCES  
  
Television  
SERVICE

July 17, 2000

George L. Glotzbach  
5 Herrada Court  
Santa Fe, NM 87505-8791

Dear George,

This letter serves as confirmation of your February 6, 2000, reception of Armed Forces Radio and Television. The signal originates from Naval Computer and Telecommunications Area Master Station, Key West, Florida at 12689.5 khz and Naval Computer and Telecommunications Station, Puerto Rico at 6458.5 khz.

Naval Computer and Telecommunications Area Master Station, Key West, Florida broadcasts with a 48 foot inverted cone antenna from Boca Chica, Florida with 8 kilowatts of power. Naval Computer and Telecommunications Station, Puerto Rico broadcasts with a ground-based, omnidirectional wire antenna with a 30 foot diameter. The signal is broadcast at 10 kilowatts from Isabela, Puerto Rico.

AFRTS shortwave radio transmissions have historically existed to provide AFRTS radio service to U.S. Navy vessels and outlying military posts receiving limited American radio or television through other means. The signals will be in existence for a limited time until a new technology, which is currently being tested, allows for reception of AFRTS via satellite.

We are pleased that you have received the AFRTS shortwave signal and thank you for your interest and confirmation of the signal's quality, and I apologize for the delay in my response.

Sincerely,  
  
Michael Foutch  
Broadcast Operations Specialist

RADIO VANUATU

Q.S.L.

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Sik Gong (Tarn Tam) from Anbrom Island, used in village to village communications and in custom ceremonies.

To JEFF A. NOLAN  
of CALIFORNIA.  
I AM PLEASED TO VERIFY YOUR  
RECEPTION OF THIS STATION  
AT G.M.T. 0630 DATE 10/28/1999  
ON 1125, 3945, 7260 KHZ, 4560 KHZ

For RADIO VANUATU  
P.O. Box 49,  
PORT VILA, VANUATU

COSTA RICA: Radio For Peace International 25930 f/d 1tr. w/ schedule in 5 wks v/s James Latham, Station Manager. (Barto-CT).

CZECH REPUBLIC: Radio Prague 11615 f/d "Logo" cd. in 2 wks. w/ schedule and station sticker. (McGuire).

DIEGO GARCIA: AFRTS 12579 via the Naval Computer and Telecommunications Station p/d e-mail reply w/ site in 2 ds. v/s Michael Foutch, Chief Broadcast Operations Specialist (Craighead-Vietnam).

DOMINICAN REPUBLIC: Radio Bahona Internacional 4930 f/d prepared cd. in 20 ds. for a SP rpt., tape and \$1.00. v/s Roberto Lama S., Ing. (Klinck-NY).

ENGLAND: World Beacon Radio 15585 via Skelton e-mail QSL in 4 hr. w/ a nice long 1tr. from Scott Westerman at: reception@worldbeacon.net. (D'Angelo-PA). Central Broadcasting System via Merlin 7140 via Skelton f/d "Niltava Viv-



e-mail rpt. v/s Mikhail Timofeyev, QSL Verifier. (Kusalik). **Voice of**

ida" cd. w/ newsltr. in 2 mo. for a SP rpt. (Barto). **United Nations Radio** 15265 via **Wooferston** f/d "UN Radio" cd. w/ site in 3 wks. (Kusalik-ALB). f/d cd. in 32 ds. w/ station literature and schedule. (D'Angelo). **World Beacon Radio** 9675 via **Rampisham** p/d e-mail reply in 1 day. (Craighead-KS). **HCJB** 11760 via **Rampisham** f/d cd. w/ no site in 8 mo. after a f/up rpt. v/s John Beck, Station Manager. (Kusalik) **Golos - And** 11760 via **HCJB** f/d ltr. in 3 mo. after a f/up rpt. v/s Roger Stubbe, BCB Coordinator. (Kusalik-ALB).

**EUROPEAN RUSSIA: Radio Chechnya Svobodnaya** 11635 via **Saint Petersburg** f/d e-mail QSL in 8 mo. after a f/up rpt. for my second

**VERIFICATION SIGNERS: Radio Globo CBN** 9585 Margarete Rapussi. E-mail: margarete@radioglobo.com.br. **Super Radio Alvorada** 2460 Severiano de Freitas, Diretor Geral. E-mail: severiano@mdnet.com.br. **Radio Centenario La Nueva** 4855 e-mail: mision.espaboi@scbbs-bo.com. **Radio Yura**

4716.7 Rolando Cueto, Periodista. e-mail: canal18@cedro.pts.enteinet.bo Addr: Radio Yura, La Voz de Los Ayllus, Yura, Provincia de Quijarro, Departamento de Potosi. **Radio Dada Gorquid** 9165 Kamil Mamedov, Director of the Division of International Relations - Azerbaijan Broadcasting... via PLAY DX...Sam.

## SPECIAL-QSL

HALMSTAD  
KORTVÅGSKLUBB

Box 15 - Halmstad 1



Korrrekt rapport från

Mark Huménylek

Köls: 9745 M. 5f

Dag: 14 05 2000

Tid: 01.33 UTC

ECUADOR



**Tatarstan** 15105 via **Samara** ltr. w/ f/d cd. w/ site, power and coordinates in 6 wks. (Craighead-KS). **IBRA Radio** 15625 via **Moscow** f/d cd. in 1 mo. (Craighead-KS). **Radio**

**Russia** 11980 red, white and blue "Logo" cd. in 1 mo. (Craighead-KS). **EURO PIRATES: Radio East Side** 6 61 f/d "Map" cd. w/ wrong freq. in 20 ds. \* Also rcvd. a short note from the v/s A. Warner for \$1.00. 600 watts. \* (D'Angelo-PA). **Jolly Roger Radio** 6239.1 (Ireland) f/d "Pirate" cd. in 21 ds. for an e-mail rpt. v/s Joe Vincent. (Kusalik-ALB).

Subject: QSL Response for James Young

Date: Wed, 4 Oct 2000 11:16:11 -0400

From: "Foutch, Michael JOC" <qsl@mediacen.navy.mil>

To: "jwy@snowline.net" <jwy@snowline.net>

Dear James,

This letter serves as confirmation of your September 11, 2000, reception of Armed Forces Radio and Television. The signal originates from Diego Garcia.

AFRTS shortwave radio transmissions have historically existed to provide AFRTS radio service to U.S. Navy vessels and outlying military posts receiving limited American radio or television through other means. The signals will be in existence for a limited time until a new technology, which is currently being tested, allows for reception of AFRTS via satellite.

We are pleased that you have received the AFRTS shortwave signal and thank you for your interest and confirmation of the signal's quality, and I apologize for the delay in my response.

Sincerely,

Michael Foutch  
Chief Broadcast Operations

Specialist

\* **Radio Ozone International** 5788.5 "West-side Radio International Shortwave" cd w/ a 2 page info. sheet. The station is using a new transmitter w/ 250 watts. The antenna is 12 meters high and beamed SSE. This

# RADIO



SEP. 1978 - SEP. 1993

## TOKIO JAPON

11660 cd. in 3 mo. w/ schedule, form ltr. and lots of station brochures, books and magazines.

**MALAGASY REPUBLIC:** Tamil OLI Radio - (Barto).  
 \* Tamil Radio and Television 17495 via Radio Netherlands f/d "Oat Fields in the Naardereng" cd. in 3 mo. (Barto-CT).

**MONGOLIA:** Voice of Mongolia 12085 n/d response in "only" 675 ds. Why bother? (D'Angelo-PA)..... I don't know....Sam.

station has been on the air in one form or another for nearly 20 years. (D'Angelo)

**GERMANY:** Radio RSG 6015 short p/d ltr. w/ a photo of "Bertram and Tobias". Also rcvd. brochures and station sticker in 73 ds. for an e-mail rpt. (D'Angelo-PA).  
Voice of America 6130 via Lampertheim f/d "Liberty Bell" cd. in 49 ds. (Willshaw-NC). 9785 f/d "White House" cd. in 5 wks. (Barto-CT).

**HAWAII:** AFRTS 10320 f/d reply for an e-mail rpt. in 39 ds. v/s Michael Foutch. (D'Angelo-PA). 6350 p/d ltr. in 27 ds. for an e-mail rpt. v/s April K. Gorenflo, Broadcast Operations Specialist. (Wilkins-MO).

**ICELAND:** AFRTS 10320 via Keflavic f/d ltr. \* w/ site in 6 wks. v/s same as above. (Craighead-RS)

**INDIA:** All India Radio 3945 via Gorakhpur f/d cd. in 3 mo. direct from Delhi v/s A.K. Bhatnager, Director of Freq. Assignments. (Kusali-ALB).

**IRAN:** VOIRI 13785, 13605, 11950 and



**VERIFICATION SIGNERS:** Radio Universidad 6105 Rafael A Solano. TIFC Faro del Caribe 5055 Carlos Rozotto Piedrasanta, Director Administrativo. Addr: Apartado 2710-1000, San Jose, Costa Rica. Hrvatska Radio new Addr: Croatian Info Centre, Meduliceva 13, HR-1000 Zagreb. British Broadcasting Corporation 11605 via Merlin Service (relayed from Zyvi, Cyprus) Michelle Franks, Communications Assistant at Merlin. Addr: 20 Lincoln's Inn Field, London, WC2A 3ES. Cyprus Broadcasting Corporation 9670 at Zyvi Pavlos Soteriades, Director General. Addr: P.O. Box 4824, Nicosia 1397.... via PLAY DX..Sam.



BRANCH OF FEDERAL STATE UNITARY ENTERPRISE  
 THE RUSSIAN TELEVISION AND RADIO BROADCASTING COMPANY  
 CENTER OF BROADCASTING AND RADIO COMMUNICATIONS No.2  
 ul. Akademika Pavlova 13A, St. Petersburg, 197376, Russia  
 Telephone: 234-10-02 Telex: 121868 PGR J Fax: 234-29-71  
 E-mail: 94/WLUPSC@pd614phd.su

James W. Young  
 WDX6JY-SWL  
 jw@mailto.snowline.net

St. Petersburg  
 August 22<sup>nd</sup>, 2000

Radio Rossii via Kaliningrad  
 Confirmation No. 152

Dear listener,

Thank you very much for your reception report of our Radio Rossii relay. We are very glad to tell you that all details of your report are correct:

Date: August 15<sup>th</sup>, 2000  
 Frequency: 15305 kHz  
 Time (UTC): 14.46 - 15.11  
 Time (Moscow): 18.46 - 19.11  
 Transmitters location: Kaliningrad / Bolshakovo  
 Total power of transmitters: 160 kW  
 Transmitter aerial azimuth: 118 degrees

**MOROCCO:** Voice of America 13640 f/d "Yosemite National Park" cd. in 1 mo. (Barto-CT).

**PERU:** Radio Horizonte 5020 f/d form ltr. in 198 ds. for a

Ethiopia

**QSL**  
Verification Card

Ethiopia

Station Voice of the Tigray Revolution, Mekele  
To Richard A. D'Angelo  
This is to confirm your reception of our transmission dated  
6 September 1996 0324 - 0402 hours UTC on a  
frequency of 5,500 kHz. with water



X *[Signature]*  
**FAE TESEMIHAEL**  
Signature & Official Seal

f/up rpt. in SP (D'Angelo-PA).  
**Radio La Hora** 4855 cd. w/ nice  
note and station pennant in 399  
ds. v/s Carlos Gamarra Moscoso,  
Director de Frecuencias. Thanks  
to TIN who visited the station  
and encouraged the v/s to reply.  
(D'Angelo-PA). **Radio San Miguel**  
4966 prepared cd. rcvd. thanks  
to the assistance from TIN in  
Japan on a recent visit to Peru.  
(D'Angelo). **Ondas del Sur Orie-  
nte** 5068 same as above regarding  
a visit by Nozaki. **Radio Mundo**  
5082.5 same as above. (D'Angelo)  
\* **Radio Chasqui** 5981 v/s Fe-  
lipe S. Velarde Hinojosa

\* M., Representative Legal. same as above. (D'Angelo). **Radio  
Tawantinsuyo** 6175 v/s Ing. Raul Montesinos Espejo, Direc-  
tor Gerente. same as all the others. (D'Angelo-PA).

**PHILIPPINES: Radio Pilipinas** 15190 n/d ltr. w/ schedule in  
160 ds. v/s Tanny V. Rodriguez, Station Manager. (D'Ang-  
**PUERTO RICO: AFRTS** 6458.5 via **Isabela** p/d e-mail elo-PA)  
reply in 27 ds. v/s Michael Foutch. Report to:  
qsl@mediacan.navy.mil. (Wilkins-MO).

**VERIFICATION SIGNERS: Radio R.G.S.** 6015 via **Julich** Joerg  
Bertram, Program Director. Addr: Alleestrasse 1, DE-  
42653 Solingen, Germany. **Voice of Greece** 7475 Addr:  
P.O. Box 60019, Gr-15310, Aghia Paraskevi-Attikis,  
Athens, Greece.

**Radio Verdad** 4050  
Dr. Edgar Amilcar  
Madrid Moral, Ger-  
ente. Addr: Apartado 5,  
Chiquimula, Guatemala.  
**Que Hu'onq Radio** 9930 via **KWHR**  
Doan Trang, Director and Nguyen  
Khoi, Manager. Addr: 2670 South  
White Road, Suite 165, San Jose,  
CA 95148. **Radio Costena Ebene-  
zer** 4930.6 Ivan Franc. e-mail  
addr: casasp@yahoo.com.....  
via PLAY DX.....Sam.

**PIRATING WITH CUMBRE**



via  
Craighead

**QSL**

**QATAR: Qatar Broadcasting Service** 17895 via **Al Khaisah** n/d ltr. in 68  
ds. w/ 32 page station history book. This was for a taped rpt. and 2  
IRCs. v/s Jassim Mohamed Al-Qatan, Head of Public Relations. (Will-  
shaw-NC). 11655 and 9570.1 p/d ltr. w/ brochures in 2 mo. (Barto-CT).

**ROMANIA: Radio Romania International** 11940 p/d "Georges Enesco" cd. w/  
schedule and ltr. in 62 ds. This was for a taped rpt. and 2 IRCS.

**SAIPAN: KFBS** 11580 via **Marpi** f/d "Antenna/Rainbow" cd. (Willshaw-NC).

in 81 ds. for a  
taped rpt. v/s  
Irene Gabbie,  
QSL Department.  
(Willshaw-NC).

**SEYCHELLES: FEBA**  
**Voice of For-  
giveness** 15530  
f/d "Staff at  
Console" cd. in  
2½ mo. w/ sked.  
(Barto-CT).

**SICILY: AFRTS Sig-  
onella** 10940.5  
p/d e-mail re-

**SWR**  
SÜDWESTRUNDFUNK

**QSL**

Craighead





QSL



# RADIO MARABUNTA

Mr. Edward Kusalik, CANADA.  
 Confirmamos su correcto reporte en 14565 LSB KHz., el 6 Agosto 2000,  
 a las 0030-0059 horas UTC.  
 Nuestra señal fué emitida via Radio Blandengue  
 PFR  
 Mr. Ant., DJ de R. Marabunta — Casilla 159, Santiago 14, CHILE

ply in 9 ds. for my e-mail rpt. (Wilkins-MO). e-mail reply in 49 ds. (D'Angelo-PA).

### SOUTH AMERICA (Pirates):

- \* Radio City 14565 via Radio Blandengue f/d cd. w/ station info. & ltr. in 5½ mo. and 2 wk after an e-mail f/up rpt. Sticker rcvd. (Kusalik-ALB). Jolly Roger
- \* Radio 6950 via Radio Cochiquaz f/d cd. w/ stickers in 8 mo. This was 3 wks. after an e-mail f/up rpt. (Kusalik)

**VERIFICATION SIGNERS:** Radio Reloi 9820 Isidro Betancourt Silva, Director General. Radio Rebelde 6140 Addr: Apartado 6277, La Habana 10600 Cuba. La Voz del Upano 5040 and 4870 new addr: Mision Salesiana 10 de Agosto s/n, Macas, Ecuador (Departamento Morona Santiago). The v/s is Leonor Guzman, Directora. La Voz del Napo 3279 Ramiro Cabrera. HCJB 9780 Addr: P.O. Box 17-17-691, Quito, Ecuador. Radio Finland



DIRECTORATE GENERAL,  
 ALL INDIA RADIO,  
 A.V. BHAWAN, SANSAD MARG,  
 NEW DELHI-110001, INDIA.


No. 3/1/2000 EIII / 609 Dated: 6.8.2000.

Dear Sir/Madam,

We gratefully acknowledge and confirm your Reception Report.

Date: 25-12-1997 Frequency: 3715 kHz

Time: 15.07 Station: GORAKHPUR

Yours Faithfully,  
  
 Director (Freq. Assignments)  
 (A.K. BHAINAGAR)

whale and other: 4 lines (4 lines - 1 line) (1 line - 1 line) (1 line - 1 line)

Champaner 4  
 Pat. 1.18  
 Thomson

O.I.G.S.



MR. EDWARD KUSALIK

2117 - 10 'A' STREET

CORDALE, ALBERTA

CANADA TIM 1 BG

11845 R. Makela, Chief Engineer. Addr: Short-wave Station Base, FIN-28560, Pori, Finland.. via PLAY DX.....Sam.

- \* Radio Marabunta 14565.1 via Radio Blandengue f/d "Ant" cd. w/ sticker in 2 mo. via the Santiago addr. I sent \$1.00 to the station.
- \* (Kusalik-ALB). Radio East Side 6950 via Radio Cochiquaz f/d cd, w/ ltr. in 14 ds. from Germany. v/s A. Warner.
- \* (Kusalik). Radio Perfekt 6950 via Radio Cochiquaz f/d form ltr.

- \* w/ stickers in 6 mo. via Germany. (Kusalik). Radio Dr. Tim 6950 via Radio Cochiquaz f/d cd. w/ ltr. in 6 wks. via Germany for \$1.00. v/s Dr. Tim. (Kusalik). Emisora Z del Dragon 6950 via Radio Blandengue f/d cds. w/ ltr. in 48 ds. from Chile. (Kusalik-ALB).

**SRI LANKA:** Voice of America 13760 and 13795 via Iranawila 3 f/d cds. for a Special Test Broadcast in July of 99. This was in 15 mo. after

several e-mail f/up rpts. v/s Gary R. Wise, Station Manager. (Kusalik). 13735 f/d "Liberty Bell" cd. in 5 wks. (Barto-CT).

**SUMATERA:** Radio Republik Indonesia 5040 via Pekanbaru f/d personal ltr. w/ my prepared cd. which was signed and stamped in 32 ds. for an IN rpt and \$1.00. v/s Rahman Hakim, Ke-

# QSL



# Emisora Z del Dragon

Dear: EDWARD KUSALIK

Emisora Z del Dragon agradece y confirma su informe de recepción, el mismo fue verificado con nuestros registros y es correcto.

Date: January 23rd, 2000

UTC: 00.15 - 00.31

Frequency: 6950 442 USB

Power: 100 watts

*Sede*



Via the facilities of Radio Blandengue - South America

# UN Radio

الإذاعة الأمم المتحدة · 联合国广播处  
United Nations Radio · La Radio des Nations Unies  
Радио Объединенных Наций  
La Radio de las Naciones Unidas

Thanks

*Richard D'Angelo*

for the report on a United Nations broadcast

at 4 September 2000 1730-1745 UTC

on 15265 kHz

via Waferton

the details of which are correct

Day" cd. in 7 wks. w/ newsltr., schedule and station decal. (Barto-CT). **Central Broadcasting System - Variety Network** 11840 f/d "Taroko National Park-Suhwa Freeway"

**VERIFICATION SIGNERS:** **Radio Denmark** 17505 Erik Koie, DXer & QSL Manager. Addr: DK-1999 Kopenhagen, Denmark. **Radio Sandaun** 3205 Celina Korel, Station Journalist. **Radio Bouganville** 3325 Aloysius L. Rumina, Provincial Programme Manager. Addr: P.O. Box 35, Buka. **Radio Santa Rosa** 6045 Addr: Casilla

4451, Lima 1 is old - new addr: Jiron Camana 170, Lima 1, Peru. v/s Pedro Flores, Periodista. e-mail: pedro.flores@mix mail.com. **Radio La Oroya** 4904.7 Jacinto Figueroa Yauri, Director Gerente. e-mail: radoroya@ec-red.com. **Radio Ilucan** 5678 Jose Galvez Salazar, Gerente. Addr: Jiron Lima 290, Cutervo, Peru. **Radio Veritas Asia** 9660 Miss Cleofe R. Labindao, Audience Relations Officer...via PLAY DX.....Sam.

## OZONE RADIO INTERNATIONAL SHORT WAVE

M.B.

Q.S.L.

TO *Richard A. D'Angelo*

DATE 6.2.00

TIME 08.05

FREQUENCY 5.7885

TX POWER



THANK YOU FOR YOUR REPORT 73s

cd. in 7 wks. w/ schedule, decal, station sticker and newsltr. (Barto-CT).

**TIBET: Xizang Peoples Broadcasting Station** 5240 f/d "Three Gorges of the Yangtze River" cd. in 2 mo. (Barto).

**USA: KDDZ** 1690 **Arvada**, CO f/d ltr. in 9 mo. after 2 f/up rpts. for ms. v/s Yvonne Anderson, Administrative Assistant. (Kusalik). **WOSN** 1660 **Kalamazoo, MI** f/d prepared cd. w/ personal ltr. in 1 yr. after 2 f/up rpts. v/s William J. Wertz, Vice President. (Kusalik). **WBBS** 11900 **Worldwide Broadcasting System** f/d "Certificate" in 116 ds. w/ a short

Subj: Re: Reception Report

Date: Fri, 27 Oct 2000 12:20:10 AM Eastern Daylight Time

From: "Larry Holtz" <lholtz@entercom.com>

To: <Rdangelo3@aol.com>

Dear Mr. D'Angelo:

This message is sent to verify your reception of KPM556, Portland, Oregon. As you know, KPM556 is an auxiliary broadcast station associated with KGON (FM), Portland. I really appreciate your report, and I am surprised that you were able to hear the station in Pennsylvania. At this time we are not sending written QSL cards or responses to reception reports because our staff is busy building new radio studios.

We are planning to install a better transmitting antenna for this station in about eight weeks. I would really appreciate any additional reports from you.

Thanks.

radio  
FILES

Köln, den 9.1.1992

Wir danken Ihnen für Ihren Empfangsbericht und bestätigen Ihnen gern die Richtigkeit Ihrer Beobachtung. Sie hörten unseren Sender SHIGULOVSK auf 12055 kHz am: 20.12.1991 0156-0230 UTC Thank You for Your reception report which has been checked with our schedules and found to be correct. We are very glad to verify herewith your report.

DEUTSCHE WELLE  
HA Hochfrequenztechnik

*Rich Stage*

DRUCKSACHE IMPRIME

Richard A. D'Angelo  
2216 Burkey Drive  
Wyomissing  
PA 19610  
USA

personal ltr. apologizing for the delay. v/s Jo Ann Josey. \* (D'Angelo-PA). KGON/KPM556 25950 Portland, OR QSL in 1 ds. for an e-mail rpt. This is an auxiliary broadcast outlet for KGON-FM. My rpt. was sent to: lholtz@kgon.com (D'Angelo-PA). WHRI 13760 f/d "World Map" cd. in 132 ds. for ms. v/s James L. Holycross (Willshaw). KOWB 1660 Fargo, ND prepared cd. w/ ltr. in 23 ds. for ms. v/s Brian Whalen, Assistant Program Director. (Kusalik). APRTS 12689.5 via

Key West (Boca Chica) f/d e-mail reply in 1 hr. 20 min. for an e-mail rpt. (Willshaw-NC). WRMI Radio Miami International 9955 f/d "Florida Alligator in Everglades National Park" cd. in 138 ds. v/s Jeff White. (Willshaw). Adventist World Radio 6040 via WHRI-2 f/d commemorative QSL w/ station stamps in 32 ds. (Glotzbach). same w/ sticker and calendar in 20 ds. v/s Dr. Adrian Peterson. (Kusalik).

**VERIFICATION SIGNERS: China Radio International** 9535 Addr: CRI, Beijing, PRC 100040.

Radio Japan 15355 via Moyabi (Italian Service) Mrs. T. Hanamoto. Addr: Redazione Italiana, NHK, 150-8001 Tokyo, Japan. Deutsche Welle 15275 Addr: DW, DE-50888, Colonia, Germany. Radio Canada International 17870 Bill

Señor  
Georde L. Glotzbach  
5 Herrada Ct.  
Santa Fe, NM 87505-8791  
U.S.A.

*Glotzbo*

Westenhaver. All India  
Radio 4970 via Shillong  
R. Venugopal, Superintendent Engineer. All India  
Radio 3945 via Gorakhpur  
Addr: Postbag 26, Gorakhpur

273 001, Uttar Pradesh, India.... via  
PLAY DX....Sam.

Apreciado amigo:

Reciba sinceros saludos de parte de los trabajadores de Radio Santa Cruz. Nos llena de alegría saber que tenemos un amigo en ese hermoso país.

Le confirmamos que la programación escuchada por usted el día 16 de Agosto del presente año, de hrs. 19:53 a 20:09 hora local boliviana, ES CORRECTA.

Gracias por ser nuestro oyente, aunque nuestra programación no es dedicada a los oyentes extranjeros, bienvenido a nuestra sintonía y programación de radio Santa Cruz.

Le cuento un poquito sobre la Radio y nuestra ciudad: El aniversario de Radio Santa Cruz es el 25 de Octubre. Tenemos con un transmisor de 10 Kws. de potencia, aunque ahora está funcionando con 7 Kws. nuestra antena es Dipolo Cerrado

Santa Cruz tiene una población aproximadamente de 1.5 millones de ha., es uno de los principales departamentos de Bolivia. Cuenta con 15 provincias. Casi todo el año el clima es agradable. Generalmente tiene, una temperatura entre 25 a 30° sobre cero.

Casi todo el departamento de Santa Cruz es planicie, con inmensos llanos tropicales. En la provincia Florida, tenemos el "FUERTE" famosas Ruinas Arqueológicas, ubicadas en el valle de Samaipata. A 15 Km. de la ciudad tenemos unas majestuosas "Lomas de Arenas" bordeando varias lagunas de aguas cristalinas y además muchos otros lugares turísticos.

Reiterándole nuestra amistad y en espera de que nos siga sintonizando, me despido de usted con la esperanza de que visite ésta su casa radial.

Cordialmente,



*F. Flores*  
Fragoso Flores S.I.  
Director General

**VENEZUELA: Radio Yara-**

\* cuy 4940 f/d postcard in 204 ds. via Winter Monges who visited the station on my behalf. (D'Angelo-PA)

**VIETNAM: Voice of Vietnam**

12020 via Hanoi-Sontay p/d "TNVN" cd. w/ sked. in 104 ds. (Willshaw-NC).

**WEST IRIAN: Radio Republik Indonesia** 6153.7 via Biak prepared cd. was signed and stamped in 37 ds. 750 watts. v/s Dayid Alex Siahainenia. All for an IN rpt. w/ \$1.00 (D'Angelo-PA).

Hope everyone enjoyed this mos. QSL Column. Quite a few nice QSLs this time around especially from D'Angelo and Kusalik.

*KAM*



# Net Notes

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

Welcome to the last column for 2000. We are about to embark on the politically correct start of the new Millennium. (As we discussed last year; there was no year 0). As you celebrate the holiday season give thanks for your blessings and be safe.

**Internet Relay Chat SWL chat channel.** You may recall that for the past few years we've occasionally mentioned #swl that usually has some activity on it day and night. Not unsurprisingly it is most active during evenings and on weekends with the likes of regulars Charles Alexander, Ralph Brandi, Pete Costello, Dan Ferguson, Bob Montgomery, Kevin Murr, Jay Novello, David Ross, as well as a number of persons from Europe. (Apologies for any omissions.) After multiple Efnets failings this past summer and fall, the group is on StarChat ([www.starchat.net](http://www.starchat.net)) and the improved network performance is significant. Come join us. Why, you ask? Alerts to good conditions from Mark Veldhuis and others in Europe cause receivers to be turned on as sunset approaches the east coast. The parallel DXing sessions are quite interesting when multiple sets of ears are listening to Nepal or Indonesia or an African, digging out an ID. You can listen to our latest catches on our Audio Bytes page. On our home page ([www.trsc.com](http://www.trsc.com)), click on the N1DK button to get to help pages on how to configure the Windows' IRC program mIRC, and click on the mIRC button to get the latest version of the program (the button automatically updates itself when a new version is posted).

**WebBrain** is an interesting new search engine that enables both browsing and search-

ing. It is new to the Web. We entered the word "shortwave". The top half of the window shows graphical links of categories and sub-categories that can be navigated in a browse mode. The bottom half of the window shows the results in a conventional form. We haven't completely explored this site yet but apparently there is a way to configure the site to make it "think the way you do." We shall see. Test the logic at [www.webbrain.com](http://www.webbrain.com).

**Via Hard Core DX.** From Jose Jacob of the National Institute of Amateur Radio in India:

*"India 3 new states were formed in India very recently by dividing existing ones. They are Chhatisgarh from Madhya Pradesh, Jharkhand from Bihar and Uttaranchal from Uttar Pradesh.*

*"This is making interesting changes to the local broadcasting scene.*

*"AIR Delhi is now relaying on SW 6030 AIR Najibabad which broadcasts only on MW. This is intended for the new state of Uttaranchal. sked is 0200-0310 and 1215-1430. The identification is as AIR Najibabad and when programs originate from other stations like AIR Lucknow its id is given.*

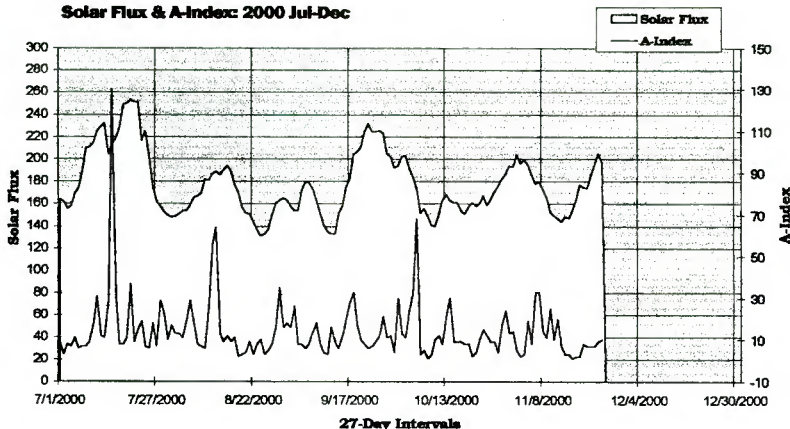
*"For making way for this new transmission, AIR Nepali Service at 0130-0227 on 6045 was discontinued.*

*"Ranchi which has SW Tx is by the way the new capital of Jharkhand."*

**Changes at trsc.com.** Check out our Web pages for a host of updates and tweaks in recent months.

The <http://> is implied in the URLs listed

**Solar Flux & A-Index: 2000 Jul-Dec**





# 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>Ralph BRANDI</b> , Tinton Falls, NJ	AOR AR-7030, 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>John DAVIS</b> , Johnstown, OH	4-R390A, 3-R391, R392
<b>Guy DUNN</b> , Clifton, NJ	DX-398, 23' long, 19' high
<b>Walt FAIR</b> , Maracaibo, VENEZUELA	Sangean ATS-909 Realistic ant. and LW
<b>Bob HILL</b> , Littleton, MA	Sony 2010 120' dipole at 35'
<b>Harold LEVISON</b> , Phila, PA	Drake R8
<b>Jerry LINEBACK</b> , Scranton, KS	Icom 746 beverage antennas
<b>George MAROTI</b> , Mt. Kisco, NY	R8B, 2010, 30/45 m. dipoles
<b>David M MARTIN</b> , MD, Atlanta, GA	RX-320, Eavesdropper trap dipole
<b>Jim MOATS</b> , Ravenna, OH	no equipment listed
<b>Bob MONTGOMERY</b> , Levittown, PA	NRD-535D, R390A, RX320, SE3, T2FD, active ant.
<b>Ed NEWBURY</b> , Kimball, NE	WJ-1000, R8, 60' sloper, 20' loop
<b>David ROSS</b> , Hamilton, ONT	Drake R8, Icom IC75, 50' inverted "L" antenna
<b>Dave VALKO</b> , DXpedition, HI	NRD-535D, two 200' beverages
<b>Fred WILLSHAW</b> , Charlotte, NC	Drake R8B & EMF indoor antenna
<b>Gerald WITHAM</b> , Keauu, HI	no equipment listed

Not sure where the year went but another is on the way. Hope you and yours have a very nice Holiday season. We could use a few new contributors. Seems the numbers are dropping off for some reason.

Till next year, 73

Bob Montgomery



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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.


# Tropical Band Loggings

Sheryl Paszkiewicz • 314 Riverview Drive, Apt 16 • Manitowoc, WI 54220 • sherpsz@aol.com

- 3172.7 PERU R *Municipal Panao* 11/16 0948 talk, rustic vcl, IDs (D'An-FCDX)  
 3205 BRAZIL R *Ribeirao Preto* 11/15 2213 talk, pop mx, IDs (D'An-FCDX)  
 3235 NEW BRITAIN *RWNB* 11/17 1150 island vcls, talk, EG ID (D'An-FCDX)  
 3289.7 GUYANA *Vo Guyana* 10/9 0450 BBC sports pgm, BBC ID, TP (D'An-FCDX)  
 3310 BOLIVIA R *Mosoj Chaski* 11/15 2309 talk, rustic vcls, ID (D'An-FCDX)  
 3316 SIERRA LEONE *SLBS* 11/15 2130 hilife mx, long talks, ID (D'An-FCDX)  
 3340 PERU R *Altura* 11/17 1045 fast talk, ID alternating (D'An-FCDX)  
 3365 BRAZIL R *Cultura* 10/18 2255 talk, ID, ads, jingles, lite mx (Fair-VEN) 11/15  
 0017 pop & romantic vcls, jingles, IDs (D'An-FCDX)  
 3810 ECUADOR *HD2IOA* 10/1 1000 time signals & ID (Mont-PA)  
 3975 HUNGARY R *Budapest* 11/1 0519 talk, piano mx, EG ID (Will-NC)  
 4052.5 GUATEMALA R *Verdad* 11/16 0109\* piano mx, ID, anmts, NA (D'An-FCDX) 11/11  
 0119 sermon, gospel mx, anmts, ID, vy strong sig (Hill-MA)  
 4389 PERU R *Imperio* 11/7 0943 long talk, rel talk, choir, poor (D'An-FCDX)  
 4409.8 BOLIVIA R *Eco* 11/15 2316 romantic vocals, poor (D'An-FCDX)  
 4410.2 PERU *LV de la Alabanza* 11/17 0030 rel vocal, Ids, sermon (D'An-FCDX)  
 4420.9 PERU R *Bambamarca* 11/18 1036 OA vocals, TC, ID (D'An-FCDX)  
 4485.2 PERU R *Frecuencia* 11/16 2358 canned echo ID, instl, flutes (D'An-FCDX)  
 4534.2 PERU R *Horizonte* 11/16 1048 OA vocals, long talk, ID, TC (D'An-FCDX)  
 4552.3 BOLIVIA R *Tropico* 10/14 2305 talk, poor with ute QRM (Fair-VEN) 11/16 2331  
 long talk, occas rustic vcls (D'An-FCDX)  
 4655 PERU R *Celendin* 11/17 0003 OA vocals, ID, chatty anncr (D'An-FCDX) 11/11  
 0010 Andean huaynos, comunicados, Tcs, IDs (Nove-NC)  
 4725 MYANMAR R *Myanmar* 11/18 1122 soft vocals, ID, nx (D'An-FCDX)  
 4750.1 PERU R *San Francisco* 10/15 0940 OA mx, anmts, different mx style after  
 1030 (Mont-PA)  
 4753.3 SULAWESI *RRI Makassar* 11/15 2154 mx, talk, IS, ID, nx (D'An-FCDX)  
 4754.7 BRAZIL R *Educ Rural* 10/12 2340 tropical ballads, rancheros, ID (Fair)  
 4775 BRAZIL R *Congonhas* 10/8 0008 talk, Brazilian mx (Mont-PA)  
 4790 INDIA *AIR Chennai* 11/7 0040 subcont mx, poss ID (Bran-NJ)  
 4795 BRAZIL R *Aquidauana* 10/15 2350 heated rel talk, poss ID (Fair-VEN)  
 4800 INDIA *AIR Hyderabad* 11/7 0046 2 OM in EG, ment India (Bran-NJ)  
 4800 LESOTHO R *Lesotho* 11/7 0306 lang, Afr mx, ment Maseru, IS (Bran-NJ)  
 4800.7 MEXICO *XERTA* 11/5 0427 live bx, some mx, soft voice ID (D'An-FCDX)  
 4824.4 PERU *LV de la Selva* 11/7 1023 OA vocals, ID, romantic vcls (D'An-FCDX)  
 4826.4 PERU R *Sicuaní* 10/1 0940 OA mx, anmts, flute mx (Mont-PA)  
 4826.6 MAURITANIA *ORTM* 10/15 0059\* drifting again, AR phone talk (Alex-PA)  
 4835 GUATEMALA R *Tezulutlan* 10/1 1035 calliope mx, het, talk, ID (Mont-PA)  
 4845 GUATEMALA R *Kekchi* 10/7 0159\* rel pgm in Kekchi, NA (Alex-PA)  
 4845 MAURITANIA *ORTM* 10/28 2155 AR Koran, mx, ID, phone calls (Brou-IL) 10/7  
 0101\* solid, no drifting. AR talk & mx, Koran, NA at s/off (Alex-PA)  
 4850 CHINA *CNR-2* 11/17 2237 EG talk abt Argentina, 2255 into CH (D'An)  
 4865 BRAZIL R *Missoes da Amazonia* 10/4 0907 greetings, tent ID, mx (Mont)  
 4881.1 PERU R *Comas* 11/17 1007 OA vocals, TC, ID (D'An-FCDX)  
 4890 PAPUA *NBC* 10/24 1110 EG PGM on UN assistance (Will-NC)  
 4890.2 PERU R *Chota* 11/17 2258 guitar & flute, TC, ID, rustic vocals (D'An-FCDX)  
 4910 INDIA *AIR Jaipur* 11/18 \*0023 IS, anmt, choral anthem (Hill-MA) 11/7 0105  
 subcont mx, talk, ID in Hindi (Bran-NJ)

- 4919 **ECUADOR R Quito** 10/14 0310 distorted audio, SP nx, ID (Alex-PA)  
 4920 **INDIA AIR Chennai** 11/16 1220 interview, talk, brief mx, TP, ID (D'An)  
 4925 **SUMATRA RRI Jambi** 11/16 1204 Jak nx, remote rpts, drum, ID (D'An)  
 4930 **DOMINICAN REP R Barahona** 10/19 0416 mx, s/off, ID (Will-NC) 10/14 0245  
 stable sig, ballads, ID, LA mx (Alex-PA)  
 4930 **HONDURAS R Costena** 10/29 0409 rel talk, s/off, ID (Will-NC)  
 4955 **PERU R Cultural** 11/17 0958 instls, ID, anmts, muffled audio (D'An-FCDX)  
 \*4960 **INDIA AIR Ranchi** 11/7 0023 IS, mx, talk (Bran-NJ)  
 4992.5 **PERU R Ancash** 11/17 0952 long talk, Tcs, anmts, OA vocals (D'An-FCDX)  
 4995.6 **PERU R Andina** 11/17 0948 talk over rustic mx, echo ID (D'An-FCDX)  
 5003 **EQUAT GUINEA RN** 10/16 2206\* female vcls, ID, anmts, NA (D'An-FCDX)  
 5005 **NEPAL R Nepal** 11/6 2312 IS, gongs, "Yo Nepal" ID mx, trx Veldhuis (Bran)  
 5015 **TURKMENISTAN Turkmen R** 11/7 0225 Cent Asian mx, Ids, IS, mx (Bran)  
 5019.8 **COLOMBIA Ecos del Atrato** 11/7 1038 nx, sports, ID, good w/het (D'An)  
 5020 **NIGER LV du Sahel** 11/16 2200\* FR talk, hilife, recitations, ID (D'An-FCDX)  
 5100 **LIBERIA** 11/3 2301-0000\* EG nx, pop vocals, ID, s/off, NA (D'An-FCDX)  
 \*5765U **GUAM AFN** 11/17 1016 sports pgm, PSAs, rock mx next day (D'An-FCDX)  
 5875 **UNID** 10/22 0208 Mideast lang, nx, phone ins, ment Israel, Arafat (Brou IL)  
 5900 **BULGARIA R Bulgaria** 10/22 0242 BG mx, ID, Mission Imposs theme (Brou)

Thank you to all contributors. Special thank you to Rich and Bob for your patience regarding my email situation. I won't let that happen again. Contributions from 5 whole states but yet some real good loggings. We also had Venezuela, thanks to Walt. Hope everyone in the US and Canada had good Thanksgiving Days. Merry Christmas and Happy HanukkaH.

Note that Guam was heard on 5765, probably the first time I've had that country in the loggings in the 12 years I've been doing this column. 

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

In Jerry Lineback's Shortwave Center column, Ken Smith writes about the Handicapped Aid Program, Roger Legge discusses the accuracy of verifying USSR transmitter sites, and Kim Andrew Elliott writes about preparing for the 1979 World Administrative Radio Conference. Elliott, as a member of the Frequency Recommendation Committee, represented ANARC while Larry Magne represented NASWA at the FCC Working Group meeting in Washington, DC. A special feature by Adrian Peterson talked about Voice of America relay stations. QSL editor Bill Oliver reports contributions from 52 members reporting on 105 countries.

**For sale: MFJ-956 antenna tuner in excellent condition. Price \$12.00 including shipping. Bumper stickers, 10" by 3/4", red on white saying "Dxers do it with such frequency it HERTZ!". Decorate vehicles, shack, etc. Price \$1.33 each postpaid. Jerry Klinck, 11943 Big Tree Road, East Aurora, NY 14052.**

# International Band Loggings

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

- 5900 **BULGARIA R Bulgaria** 0242, BG, tropical mx, ID, Mission Impossible theme (Brouillette, IL 10/22)
- 59551 **COLOMBIA Voz de los Centauros** in SP, full ID 0948, S Am nx 0952, fades but clearly audible at S-8 ment of US presidential debate, much QRM as WYFR \* 0956 spatter kicks in (Montgomery PA 10/6)
- 5990 **CUBA China R Int** relay in EG 2322, stock rpts, nx, rpt on growing a new apple variety (Levison PA)
- 5990 **ETHIOPIA R Ethiopia** in Amharic(p) 0313, monotonous stringed mx, not typical Horn of Africa style, sing-songy as if in some kind of recitation, very hard to copy thru BBC slop on 5995 (Hill MA 11/12)
- 5990 **CUBA China R Int** Havana relay in EG 2300, IS, ID, nx, ment of Korean War (McGuire MD 10/25)
- 6040 **ANTIGUA Deut Welle** relay in EG 0115, nx on Nazi compensation fund, ID, exc (Fair VENEZ 10/13)
- 6045 **ZIMBABWE RadioTwo** in EG 1643, "Never My Love" by the Association, excited promo, into pgm segment and then to tlk, blocked by VOA at 1700 (Valko PA 11/2) Tnx to Hans Johnson for ID help.
- 6055 **RWANDA R Rwanda** Kigali in FR/EG/lcl langs 2052, African indigenous and popular mx, ID, fqys, NA, off 2101 (Brandi NJ 10/19) in langs daily abt 1602, dance mx bridges, f-g (Valko PA 10/30)
- 6055 **SPAIN REE** Noblejas in EG 0511, massive military aid to Colombia to fight drugs (Newbury NE)
- 6080 **AUSTRALIA RA** in EG 1640, contemporary piano mx, negro spiritual, ID, nx, p (Witham HI 10/14)
- 6130 **CANADA CHNX** Halifax in EG 2210, relaying CHNS "Oldies 96" w/numerous repeated ancmts abt the station, often for 30 min or more-seemingly this was a test transmission (Martin GA 11/5)
- 6145 **CANADA R Japan** relay Sackville in EG 0005, cmnty on insurance, prehistoric findings (Levison PA)
- 6155 **UNITED KINGDOM R Telefis Eireann** relay in EG 0143, sports reports (Brouillette IL 10/15)
- 6160 **PHILIPPINES VOA** relay in EG 1129, ID, News Now, Albright meets Kim in N Korea (Newbury NE)
- 6160 **CANADA CBC Radio One** Vancouver, BC (relay CKZU) in EG 0705, nx, ID, mx: "Shake, Rattle, & Roll", vintage vocal mx, p (Witham HI 10/14)
- 6165 **ZAMBIA R Two** in EG 1645, hi-life mx, excited annrc during song w/ID and pgm name "Radio Two Music Roundabout" at 1847 local Zambia Time", exc signal (Valko PA 10/30)
- 6185 **CHINA Huayi BC** Fuzhou in CH 1601\*, tlk by YL in CH, then s/off ancmt in EG "China Huayi Broadcasting Corporation is signing off. Thank you very much for listening", QRM (Valko PA 11/3)
- 6200 **CZECH REPUBLIC R Prague** in EG 0005, ID, Talking Point, cmntry on Euro, g (McGuire MD 11/8)
- 6210 **ETHIOPIA R Fana** Addis Ababa in EG/Amheric 1457-1502, nice lcl mx, OM w/apparent sked in lang, a few ID's in EG "This is R Fana", then OM w/tlk in Amheric, f, better on 6940 (Valko PA 10/30)
- 68966v **ISRAEL R Galei Zahel 1** in HB 0035, call-in show, US pop tunes, interview of Clinton re Palestine-Israel situation, occas CW and rtty QRM, much fqy drifting (Montgomery PA 10/22)
- 7115 **THAILAND R Thailand** in Thai 1231, patriotic sounding song, Asian rock mx, voice-overs, s/off with sked at 1600, choral NA, exc signal, //6070 very weak (Valko PA 10/29)
- 7160 **ALBANIA R Tirana** in EG 0147, nx re new minister of culture/sports appointed (Pasquale PA 10/18)
- 7185 **MOROCCO RTV Marocaine** in AR 0100, 3 pips and ID in AR, powerful sig leaving no chance to tune in Burma, one of the few exotic early evening DX targets left over on 41 M (Hill MA 11/4)
- 7245 **TAJIKISTAN R Tajikistan** in EG 1647, nx in EG w/actualities, instrum'l mx 1658, ID in EG 1659 as "transmission presented by R Tajikistan 'The World at 7', co-chan QRM (Valko PA 11/1)

- 7245 **ANGOLA R *Nac da Angola*** in PT/FR 1952, mx, multiple ID's in langs at TOH, into FR pgmg, more mx, every Ham within copy range apparently uses this fqy to tune up, p (Brandi NJ 10/18)
- 72671 **PAKISTAN *Azad Kashmir R*** in Kashmiri via Islamabad 1207-1217\*, nx in lang, ID in EG 1211, tlk, marching song (NA?) and gone, g (Valko PA 10/30)
- 7295 **MALAYSIA *Radio 4 Kajang*** in EG 1750, pop mx, time ticks, ID fanfare, PSA, fair sig mixing with co-channel stn (Valko PA 11/4, Newbury NE 10/3)
- 7325 **AUSTRIA *RAI*** Vienna in EG 0250, cmntry on wine making in Austria, exc (Levinson PA 10/31)
- 73501 **CHINA *Heilongjiang PBS*** in CH 1032-1109, alter'g tlks by M/W, nx?, soft instrumentals, exc signal! //copy on 4840 only fair but both fqys in the clear (Valko PA 10/29)
- 7365 **CROATIA *Croatian R*** in CR 0535, interview, regional nx, ID and off by 0555, p (Witham HI 10/7)
- 9465 **SEYCHELLES *FEBA*** in Baluchi 0240, tlk, regional mx, IS, and 0245 s/off, f (Witham HI 10/4)
- 9505 **BRAZIL *R Record*** Sao Paulo in PT 2224, pop vcl, tlk, jingle ID, discussion, p-f (D'Angelo PA 10/14)
- 9525 **CANADA *V of Vietnam*** relay Sackville in EG 0127, tlk on endangered bird species (Davis OH 10/30)
- 9540 **POLAND *R Polonia*** Warsaw in EG 1955, profile of PL pop singer, ID by the singer, close of pgm with farewell to "World Radio Network" listeners, ID (Brandi NJ 10/18) in EG 2100, mx variety pgm including big-band mx, blues, etc, f/o 2125 (Martin GA 11/5)
- 9550 **BANGLADESH *Bangladesh Betar*** Dhaka in EG 1804-1816\*, VO Islam pgm, tlks on Islam, ID & mx, piercing flutes, fair sig but lousy modul, intermittents (Valko PA 10/30)
- 9565 **RWANDA *Deut Welle*** relay in EG 0400, ID, nx bulletins w/stories on US election mess, ME conflict, land reform in Zimbabwe, "Newslink" 0405, //7280, 11965 (Moats OH 11/11)
- 9590 **SINGAPORE *R Singapore Int*** in EG 1252, phone interview, ID in jingle, rpt on business takeover, TC for 1300, into more nx (Brandi NJ 10/14)
- 9630 **COSTA RICA *REE España*** relay in SP 0200, IS, ID, fqy, sked, national nx, g (McGuire MD 11/9)
- 96663 **NORTH KOREA *KCBS*** Pyongyang in KR 2136, catchy No Korean pops //116799 (Brandi NJ 10/18)
- 9680 **THAILAND *R Thailand*** in EG/Thai 2030, IS, full ID 2031, nx, long rpt about new e-commerce policy in Thailand, chngeover to Thai lang at 2045 (Brandi NJ 10/18)
- 9690 **ANTIGUA *Deut Welle*** relay in GM 0600, IS, ID, tlk on Yugoslavia, PM Milosovic (McGuire 11/5)
- 9695 **CANADA *V of Vietnam*** relay in EG 0100, rpt on temp Mideast agreement, g (Pasquale PA 10/18)
- 9715 **UZBEKISTAN *R Tashkent*** in EG 1200-1228\*, nx, cmntry, ID, lcl pop mx, mail (Alexander PA 11/4)
- 97796 **YEMEN *Rep of Yemen R***, Sana in EG \*1800, full EG ID, drum bridge, nx, g (Valko PA 10/29)
- 9795 **CANADA *V of Vietnam*** relay in EG 0358, world nx, data on VT exports, cmntry on Agent Orange, rapid fading (Clifton NJ 11/10)
- 9810 **UKRAINE *RUI*** Nikolayev in EG 0010, nx, cmntry, local folk mx, poor signal w/VOR also using same fqy, RUI hrd also on //9610, 7420 (both poor) (Alexander PA 11/4)
- 9855 **GERMANY *R Vilnius*** relay Jülich in EG 0030, rpt on repatriation of exiled Lithuanians (Pasquale PA)
- 9865 **RUSSIA *R Vlaanderen*** relay via Petropavlovsk in EG 1145, ID as Voice of Brussels, discussion on Euro currency (Newbury NE 10/3)
- 9885 **SWITZERLAND *SRI*** Sottens in GM 0030, IS, ID, stn/Internet QTH, polit nx, //9905 (McGuire 10/27)
- 9900 **EGYPT *R Cairo*** in EG 0005, EG version of AR poem, chants, ID, garbled audio (Newbury NE 10/27)
- 9965 **ARMENIA *V of Armenia*** Kamo in EG 2055, IS, ID, ancmt, nx, mailbag, several mx sels, vg signal (Ross ONT 11/4) in EG 2055, 20 min pgm in EG including nx, local Yerevan wx rpt, mx preview with highlights and sels clebrating the birthday of a famous Armenian female artist, ID, postal address and station name given as both VO Armenia and Nat'l Radio of Armenia (Martin GA 11/8)
- 109405 **SICILY *Armed Forces Net*** relay in EG 0223, NPR nx, "National Story Project" on history of White House, signal fair with f/o (Brouillette IL 11/4)
- 11375 **CHINA *CNR Beijing 4*** in Mongolian(p) 1541, Asian mx, tlk, //11630 via Lingshi (Brandi NJ 10/14)
- 11570 **PAKISTAN *R Pakistan*** in Urdu 1900\*, world svce, pgm of vcls, short ancmts between sels, OM with ID and s/off ancmt at 1858 followed by choral NA, f (D'Angelo PA 11/4)
- 11640 **SOUTH AFRICA *World Beacon*** Relay via Meyerton in EG 2000, tlk abt man, peace, love, and joy, ID and Internet address, f (Moats OH 11/1)

- 11650nf? **PAKISTAN R Pakistan** in Bangla(p) 0124, vcls sounding like film mx, ID 0145, nx, signal strong but choppy with hummy audio, //15455 barely audible (Hill MA 11/6)
- 11675 **KUWAIT R Kuwait** in AR \*0300, ID, YL w/nx, ment Indonesia, Kuwait, & America (Witham 10/16)
- 116799 **NORTH KOREA KCBS** Pyongyang in KR 2155, catchy lcl pop tunes, //96663 (Brandi NJ 10/18)
- 11720 **SOUTH AFRICA Channel Africa** in EG 0527, nx on African Development Bank (Newbury NE 10/17)
- 11720nf **FINLAND Scandanavian Weekend Radio** in EG 0225, rock mx, ID "SWR" rising out of the noise abt 0235, more mx, sig very poor but xmtr only outputting 50 watts!, ID by male DJ, only bits and pieces of dialogue understandable, total wipe out at 0325 by open carrier (Brandi NJ 11/4, Maroti NY 11/4)
- 11720 **GUAM AWR** in CH \*2100-2200\*, choppy but fair overall, no sign of Scandanvania Weekend Radio during their ancd test period (but see above) (Hill MA 11 3,4)
- 117341 **TANZANIA R Tanzania Zanzibar** in SH 1903, nx, ID 1905 "Sauti ya Tanzania Zanzibar", wiped out at 2000 when China R Int relay station at Mali opened up on 11735 (Brandi NJ 11/3)
- 11770nf **MEXICO R Mexico Int** in EG 2315, pgm comparing mx of Native Americans in Arizona w/traditonal folk mx of Mexico (Martin GA 11/4) in SP 0238, instmls, clear ID in SP, exc (Valko PA 11/1)
- 11785 **IRAQ R Iraq Int** in AR 0345, tune in to AR mx, tlk, ID's, instrumental version of Barry Mannilow's Copacabana song, Koran 0412, sig very strong but usual lousy modulation, hum (Alexander PA 11/4)
- 11820 **POLAND R Polonia** Warsaw in EG 1225, nx, stock mkt rpt, ID, cooking pgm, piano mx interludes, tlks abt classical composers, best signal +10 over S-9 but way down after that (Montgomery PA 10/11)
- 11860 **INDONESIA RRI** Jakarta in IN? 2359, "SCI" hrd several times, into nx? 0000, weak, fluttery and badly squeezed between RCI and WYFR, too much splatter to make readable copy (Hill MA 11/12)
- 11885 **CZECH REPUBLIC R Liberty** in RS 0000, ethnic mx, pips, "R Svoboda" ID, nx, g (McGuire 10/19)
- 11930 **JORDAN R Jordan** in AR 0410, regional nx, fqy, sked, ID, mentioned Amman (McGuire MD 11/9)
- 11935 **SAUDI ARABIA BSKSA** Riyadh in AR 2210, Koran readings, pips, ID, into nx (Brouillette IL 10/29)
- 119548 **ANGOLA R Nacional** in PT 0403, tlk w/ments Angola, Luanda, nice ID, pgm intro (Valko PA 10/31)
- 12000nf **RUSSIA V of Russia** in EG 0158, IS, nx, pgm on Russian econ, f, //17595, 15595 (Alexander 10/21)
- 120148 **MONGOLIA VOM** Ulan Bator in EG 2030\*, mx, QTH, //12085, both fqys poor (Witham HI 10/11)
- 12110 **GREECE V of Greece** in GK 1240, ethnic mx, male vocalist, exc (Levison PA 10/10)
- 13605nf **INDIA All India Radio** in EG 2354, ID, nx, into mx, new fqy for AIR between 2245-0045 repl 7410, 13625, stringed instrum'ts/drums, f-g copy, poor modul'n (Montgomery PA 11/4, Costello NJ 11/4)
- 13640nf? **MADAGASCAR R Canada Int** relay in EG 1759, ID, website, fqys, nx items, f-p (Moats OH 11/11)
- 13660nf **NETHERLAND ANTILLES R Vlaanderen Int** relay in EG 2230, This is new fqy for RVI's afternoon EG bst to No America, ex 15565, exc (Brouillette IL 10/29)
- 13730 **AUSTRIA RAI** Vienna in EG 0158, expert skier on comparing new equip to old, exc (Levison PA)
- 15060 **TAIWAN WYFR** relay in HD 0048, much tlks, QTH, instrmt'l version of "Theme from WYFR", ID as Family Radio in EG at 0100, then into EG pgmg (Brandi NJ 10/18)
- 15135 **RWANDA Deut Welle** relay Kigali in EG 1907, "Newslink" in progress, rpts on Palestinian conflict, Austria's Freedom Party, tlk re underground economy, press review, //11810 (Moats OH 11/1)
- 15190 **PHILIPPINES R Pilipinas** in EG 1850, pgm on commerce, feature on genetically-modified papaya, Including Hawaiian "rainbow papaya" variant (Martin GA 11/8) in EG 1927\*, business rpt, repetitive canned ID, s/off with sked, p-f (D'Angelo PA 10/9)
- 15265nf **UNITED KINGDOM U.N. Radio** relay in EG1730, nx on Yugo elections, ID, g (Witham HI 10/4)
- 15270 **TAIWAN V O Asia** Taipei in Thai 2320, lang lesson, vocals, fqy, sked, pop mx, p (Witham HI)
- 15345 **ARGENTINA RAE** Buenos Aires in SP 2320, tlk on Moslem relig in Buenos Aires (Brouillette IL)
- 15395 **THAILAND R Thailand** in EG 0030, cmnty on Yugoslavia, wx rpt for Europe, pips, NA (Levison PA)
- 15400 **ASCENSION ISLAND BBC** relay in EG 2030, "Newshour", sports nx, //17830 (Moats OH 14)
- 15425 **SRI LANKA SLBC** in EG 0210, relig pgm, TC/ID 0230, tlk re e-mails, pop mx (Valko PA 11/1)
- 15520 **UKRAINE R Ukraine Int** Kiev in EG 1200, ID, lcl folk mx, nx, cmntry, f (Alexander PA 11/4)
- 17505 **NORWAY R Norway** in NO 1715, nx, interview, tlk, into R Denmark relay 1730, f (Witham HI 10/4)

- 17570 **RUSSIA VOT Mediterranean** relay Khabarovsk in JP 0540, mx, tlk, vocals, g (Witham HI 10/7)
- 17590 **GERMANY R Vlaanderen Int** relay in DT 1800, IS, ID, ment Africa, fqy, sked (McGuire MD 10/18)
- 17590 **RUSSIA R Nederlands** relay Khabarovsk in DT 2335, nx, Netherland's sports highlights (Witham HI)
- 17595 **EGYPT R Cairo** in EG 1305, EG Listeners Club, ID, TC, AR study pgm, poor modulation (Fair VEN)
- 17665 **SOUTH AFRICA World Beacon** Relay via Meyerton in EG 1810, preaching, audience reaction, promo, Florida QTH, website, ID, //9765 (Witham HI 10/11)
- 17790 **ROMANIA RRI** Bucharest in EG 1340, integrating kids into RM community, //15250 (Newbury NE)
- 18960 **SWEDEN R Sweden** in EG 1138, Cinema Africa Film Fest being held in Stockholm (Pasquale 10/21)
- 21605 **UNITED ARAB EMIRATES R Dubai** in EG \*1601, pgm re morality and philosophy, ID, //13675, 15395 (Alexander PA 11/4)
- 21730 **NORWAY R Denmark** relay in DN 1730, vocals between tlks, some EG inserts (Levison PA 10/21)
- 21745 **CZECH REPUBLIC R Prague** in EG 1650, mx sels, ID repeated several times, nx, wx (Levison PA)
- 25870 **USA WFLA** Tampa, FL relay in EG 1350, tlk show chatter, ID, nx TOH, g (D'Angelo PA 10/17)
- 25950 **USA KGON/KPM** Portland, OR in EG 1608, another one of these "cue" stations with continuous reggae mx, no ancmts hrd, f-p on peaks (D'Angelo PA 10/26)
- 26470 **USA WJFP** (FM mode) Cocoa Beach, FL in EG 1545, male preacher until 1600 ID, "You are listening to the very best of gospel radio....." (D'Angelo PA)

## Clandestine, Tentative, Presumed, or Unknown

- 59651 **MALAYSIA(p) RM Radio One(p)** in Malay 1502, nx in lang, mx bridge, ballad (Valko PA 11/1)
- 60349 **CHINA(p) Yunnan PBS(p)** in CH 1007, mostly CH-sounding tlk, QRM splatter (Valko PA 10/29)
- 6240 **ARMENIA(p) TWR** in lang? \*0028-0100\*, s/on w TWR IS, continuous relig mx, IS again 0045, relig tlk, p (Alexander PA 10/15) AWR(p) in KR(p) 0053, relig sermon? (Hill MA 11/4) ED: Seems to be a difference of opinion as to TWR or AWR this time slot.
- 6985 **SOMALIA R Gaalkacyo(p)** in lang? 1659\*, tlk, brief mx, speech?, more mx, jammer type QRM began at 1656, brief chanting vocal, flute IS to 1659 (Valko PA 11/3)
- 6995 **IRAQ(p) V of the People Kurdistan(p)** in AR 0422, long tlks, AR tunes, ID?, fluttery reception, fades (Montgomery PA 10/22) in AR 0330, tlk, website, Mideast mx, p (Witham HI 10/3)
- 70197 **SOMALIA(p) R Banaadir(p)** in lang? 1733, tlk, brief mx, rpts from different sources, fading badly by 1800 but still hanging on w/bits of audio at 1817 recheck (Valko PA 10/30)
- 7085v **AFGHANISTAN V of Shari'ah** in lang/EG \*1257-1542+, Mideast mx w/vcls, jamming QRM from both sides of fqy, pgm in EG from 1530-1545, ID, Afghan & regional nx, group chants (Valko 10/30)
- 7357 **ALGERIA CLANDESTINE Natl R Saharan Arab Democratic Republic** in AR 2150-2302\*, ex-7450, AR pop mx, ID? 2254, orch NA at s/off (Alexander PA 10/21, D'Angelo PA 10/14)
- 8300 **CLANDESTINE New Star Broadcasting Station** in lang? 1431, "usual" s/on mx, ID by YL, decent signal on 8300, //15388 weaker w/slight QRM (Valko PA 10/30)
- 99301 **VIETNAM V of Vietnam** in VT 1400, found here while KWHR off the air either intentionally or unintentionally (according to KWHR's stn engr, they do take the xmtrs off air during thunderstorms due to the flooding rains, power outages at the time. Tnx to Hans Johnson for Vietnam ID. (Valko 11/2) ED: According to R Free Asia' current sked, the RFA relay via KWHR is normally scheduled here in VT this time slot. Things get curiouser and curiouser!
- 12010 **RUSSIA(p) R Maryja(p)** in PL 1515, translation from EG, possible ID 1530, also translation from SP to PL (Brandi NJ 10/14)
- 12055 **MOLDOVA CLANDESTINE R Iran of Tomorrow** in AR? \*1824, o/c and tones until YL vcls air at 1829, instrum mx bridge and ID 1830, ancmts, nx bulletins, tlks w/field reps, off at 1900, f-g (D'Angelo PA 10/26)
- 13710 **SAIPAN R Free Asia** relay in Burmese 0035, OM on phone arguing w/pgm host (Newbury NE 10/3)
- 15060 **UNIDENTIFIED OM** in lang? 0010, tlk, ment China, Mongolia, Jakarta (Witham HI 10/14)
- 15294 **MOZAMBIQUE(p) R Mocambique(p)** in PT 1300, 5+1 time ticks, 3 NBC-type chimes, nx to 1306, mx lots of canned ancmts, more soft mx (Valko HI 11/3) ED: Valko probably on vacation for this one?
- 17885 **KUWAIT(p) R Pinyoy(p)** in lang? 1050-1114, mix of vcls hosted by soft-talking YL ancr, nx at TOH, no ID noted (D'Angelo PA 11/7)

Best wishes to all NASWA members and contributors for a very happy Christmas and New Years.

# English Schedules

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0000-0015	<b>Radio Japan</b>	6145.0na	13650.0as	17810.0as				
0000-0015	<b>V. of Cambodia</b>	11940.3as						
0000-0030	<b>BBC World Service</b>	3915.0as	5965.0as	5975.0na	6175.0na	6195.0as	7105.0as	
		9410.0me	9590.0am	9915.0sa	11945.0as	11955.0as	12095.0sa	
		15280.0as	15360.0as	17615.0as	17790.0as			
0000-0030	<b>Radio Cairo</b>	9900.0am						
0000-0030	<b>Radio Mexico Int'l</b>	9705.0am	11770.0am					
0000-0030	<b>Radio Thailand</b>	9655.0af	9680.0af	11905.0af				
0000-0030	<b>Sri Lanka B'casting Corp.</b>	4940.0do						
0000-0030	<b>VOA</b>	7215.0as	9890.0as	11760.0as	15185.0as	15290.0as	17740.0as	
		17820.0as						
0000-0045	<b>All India Radio, Delhi</b>	9705.0as	9950.0as	11620.0as	13605.0as			
0000-0056	<b>Radio Pyongyang</b>	4405.0va	11460.0na	11710.1na	13760.1na	15180.0na		
0000-0059	<b>Radio Canada Int'l</b>	5960.0am	9755.0am					
0000-0100	<b>Radio Australia</b>	9660.0pa	12080.0pa	15240.0as	17580.0va	17750.0as	17795.0va	
		21740.0va						
0000-0100	<b>Radio Bulgaria</b>	7400.0na	9400.0na					
0000-0100	<b>a Scandinavian Weekend R.</b>	11690.0va						
0000-0100	<b>whfa VOA</b>	5995.0am	6130.0ca	7405.0am	9455.0ca	9775.0am	11695.0ca	
		13740.0am						
0000-0100	<b>WWCR Nashville TN</b>	3215.0na	5070.0na	7435.0na	13845.0na			
0000-0100	<b>WWFV McCaysville GA</b>	9320.0uf	12172.0uf					
0000-0130	<b>Radio Netherlands</b>	6165.0na	9845.0na					
0000-0200	<b>Christian Voice, Austr.</b>	9875.0as	13780.0as	15165.0as	17645.0as	21680.0as		
0000-0200 s	<b>a Global Sound Kitchen</b>	3955.0eu	6180.0eu	7165.0eu				
0000-0200	<b>R. for Peace Int'l</b>	7480.0va	15048.9va	15065.0va	21815.1uf			
0000-0200	<b>Radio Exterior de Espana</b>	6055.0na						
0000-0200	<b>University Network</b>	9940.0as						
0000-0200	<b>WRMI Miami FL</b>	9955.0am						
0000-0200	<b>WSHB Cypress Creek SC</b>	7535.0al	9430.0na	15285.0am				
0000-0200 sm	<b>WWBS Macon GA</b>	11900.0uf						
0000-0200	<b>WYFR Okeechobee FL</b>	6085.0na	9505.0na	15060.0as				
0000-0300	<b>Christian Voice, Zambia</b>	4965.0do						
0000-0330	<b>WINB Red Lion PA</b>	12159.9am						
0000-0400	<b>KWHR Naalehu HI</b>	17510.0as						
0000-0500	<b>a SIBC Solomon Islands</b>	9545.0do						
0000-0500 s	<b>a SIBC Solomon Islands</b>	5020.0do						
0000-0500	<b>WHRA Greenbush ME</b>	7580.0na						
0000-0615	<b>CBC Northern Service</b>	9625.0do						
0000-0700	<b>WBQC Monticello ME</b>	7415.0na	9335.0na					
0000-0705	<b>Radio New Zealand Int'l</b>	17675.0pa						
0000-0730	<b>Nat'l BC, Papua NG</b>	9675.0do	11880.0lr					
0000-0800	<b>NBC Windhoek, Namibia</b>	3270.0af	3290.0af	7215.0lr				
0000-0830	<b>ABC Alice Springs</b>	4835.0do						
0000-0830	<b>ABC Katherine</b>	5025.0do						
0000-0830	<b>ABC Tennant Creek</b>	4910.0do						
0000-0900	<b>HCJB Quito Ecuador</b>	9745.0na	11840.0na	21455.0uf				
0000-1000	<b>Caribbean Beacon</b>	6090.0am						
0000-1000	<b>Voice of Guyana</b>	3289.7do	5949.4do					
0000-1000	<b>Voice of Hope, Liberia</b>	6280.0af						
0000-1000	<b>WEWN Birmingham AL</b>	5825.0va						
0000-1000	<b>WHRI Noblesville IN</b>	5745.0na	7315.0sa					
0000-1000	<b>ZLXA New Zealand</b>	3935.0do	7290.0do					
0000-1100	<b>Radio Vanuatu</b>	3945.0do	4960.0do	7260.0do				
0000-1100	<b>SBC Radio 1, Singapore</b>	6150.0do						
0000-1400	<b>KAIJ Dallas TX</b>	5755.0va						
0000-1600	<b>KTBN Salt Lake City UT</b>	7510.0na						
0000-1600	<b>RTM Radio 4, Malaysia</b>	7295.0do						
0000-1600	<b>WRNO New Orleans LA</b>	7354.3na						
0015-0100	<b>Radio Japan</b>	6145.0na						
0030-0100	<b>BBC English Teaching</b>	9600.0as	17615.0as					
0030-0100	<b>BBC World Service</b>	5965.0as	5975.0na	6175.0na	6195.0as	7105.0as	9410.0me	
		9590.0am	9915.0sa	11955.0as	12095.0sa	15280.0as	15360.0as	
		17790.0as						
0030-0100	<b>Radio Thailand</b>	9655.0as	11905.0as	13695.0na				
0030-0100	<b>Radio Vilnius, Lithuania</b>	6120.0na						
0030-0100	<b>VOA Special English</b>	7215.0as	9890.0as	11760.0as	15185.0as	15290.0as	17740.0as	
		17820.0as						
0030-0130	<b>VOIRI Teheran</b>	6065.0am	6135.0am	9022.1am				
0030-0200	<b>Sri Lanka B'casting Corp.</b>	4940.0do	6005.0as	6075.0as	9770.0as	15425.0as		
0045-0115	<b>Radio Pakistan</b>	9780.0as	11650.0as	15455.0as				
0050-0056	<b>Int'l BC Tamil</b>	7460.0as						
0050-0110	<b>RAI, Rome</b>	6010.0na	9675.0na	11800.0na				



0100-0127		<b>Radio Prague Int'l</b>	6200.0na	7345.0na				
0100-0127		<b>Voice of Vietnam</b>	9525.0na					
0100-0130		<b>Radio Slovakia Int'l</b>	5930.0na	7230.0ca	9440.0sa			
0100-0130		<b>Radio Tashkent</b>	5955.0as	5975.0as	7105.0as	7285.0as	9540.0as	
0100-0130	s	<b>Universal Life, Germany</b>	9435.0as					
0100-0130	tw hfa	<b>VOA</b>	5995.0am	6130.0ca	7405.0am	9455.0ca	9775.0am	13740.0am
0100-0145		<b>Deutsche Welle</b>	6040.0am	6145.0na	9640.0am	9700.0na	9765.0na	
0100-0156		<b>China Radio Int'l</b>	9570.0na					
0100-0156		<b>Radio Pyongyang</b>	3560.0va	11734.9va	15229.9va	17734.9va		
0100-0200		<b>BBC World Service</b>	5965.0as	5975.0na	6175.0na	6195.0as	9410.0me	9590.0am
			9915.0sa	11955.0sa	12095.0sa	15280.0as	15310.0as	15360.0as
			17790.0as					
0100-0200		<b>Radio Australia</b>	9660.0pa	12080.0pa	15240.0as	15415.0as	17580.0va	17750.0as
			17795.0va	21725.0va				
0100-0200		<b>Radio Japan</b>	9515.0me	11870.0me	11860.0as	15325.0as	17685.0pa	17810.0as
			17835.0sa	17845.0as				
0100-0200		<b>Radio Ukraine Int'l</b>	7420.0eu	9610.0eu	9810.0na	11840.0eu		
0100-0200		<b>VOA</b>	7115.0as	7200.0as	9850.0as	11705.0as	11820.0as	15250.0as
			15300.0as	17740.0as	17820.0as			
0100-0200		<b>Voice of Indonesia</b>	9525.0va	11784.9va	15149.8va			
0100-0230		<b>Swiss Radio Int'l</b>	9885.0am	9905.0am				
0100-0300		<b>WWFV McCaysville GA</b>	6890.0uf	9320.0uf				
0100-0500		<b>Radio Havana Cuba</b>	6000.0na	9820.0na	11705.0uf			
0100-0500		<b>WWCR Nashville TN</b>	3215.0na	5070.0na	5935.0na	7435.0na		
0100-0800	a	<b>Scandinavian Weekend R.</b>	11720.0va					
0130-0145		<b>Voice of Africa, Libya</b>	11815.0af	15415.0af	15435.0va			
0130-0200	s	<b>Radio Finland</b>	9655.0na	12035.0na				
0130-0200		<b>Radio Sweden</b>	9495.0as					
0130-0200		<b>Radio Telefis Eireann</b>	6155.0am					
0130-0200	tw hfa	<b>VOA</b>	5995.0am	6130.0ca	9455.0ca			
0130-0200	tw hfa	<b>VOA Special English</b>	7405.0am	9775.0am	13740.0am			
0140-0200		<b>Vatican Radio</b>	7335.0au	9650.0au				
0200-0210		<b>Radio Bangladesh</b>	4882.0as					
0200-0227		<b>Radio Prague Int'l</b>	6200.0na	7345.0na				
0200-0230		<b>Radio Budapest</b>	9835.0na					
0200-0245		<b>Deutsche Welle</b>	7285.0as	9615.0as	9765.0as	11965.0as		
0200-0256		<b>Radio Pyongyang</b>	11844.8va	13649.8va				
0200-0256		<b>Radio Romania Int'l</b>	9570.0na	9690.0as	11740.0as	11830.0na	11940.0pa	15370.0pa
0200-0259		<b>Radio Canada Int'l</b>	9535.0am	9755.0am	11865.0am	15260.0as	17860.0as	
0200-0300		<b>BBC World Service</b>	5975.0na	6135.0am	6175.0na	9410.0me	9770.0af	9915.0sa
			11760.0me	11955.0as	12095.0sa	15280.0as	15310.0as	15360.0as
			17790.0as					
0200-0300		<b>Radio Korea</b>	7275.0as	11725.0sa	11810.0sa	15575.0na		
0200-0300		<b>Radio Myanmar</b>	7185.0do					
0200-0300	tw hfa	<b>RAE Buenos Aires</b>	11709.1am					
0200-0300		<b>VOA</b>	7115.0as	7200.0as	9850.0as	11705.0as	11820.0as	15250.0as
			15300.0as	17740.0as	17820.0as			
0200-0300		<b>Voice of Russia</b>	7180.0na	9765.0na	12020.0na	13665.0na	15470.0na	
0200-0300		<b>WSHB Cypress Creek SC</b>	5850.0af	7535.0na	9430.0na			
0200-0330		<b>KJES Vado NM</b>	7555.0na					
0200-0330		<b>Radio Cairo</b>	9475.0am					
0200-0400		<b>R. for Peace Int'l</b>	5920.0af	6970.0va	7480.0va	15048.9va	21815.0ir	
0200-0400		<b>Radio Australia</b>	9660.0pa	12080.0pa	15240.0as	15415.0as	15515.0va	17580.0va
			17750.0as	21725.0va				
0200-0400		<b>Radio Taipei Int'l</b>	5950.0na	9680.0na	11740.0am	11825.0pa	15345.0as	
0200-0400		<b>WYFR Okeechobee FL</b>	6065.0na	9505.0na				
0200-0430		<b>Sri Lanka B'casting Corp.</b>	6005.0as	6075.0as	6130.0do	9770.0as	15425.0as	
0200-0500		<b>Christian Voice, Austr.</b>	9865.0as	13780.0as	15185.0as	17645.0as	21680.0as	
0200-1000		<b>WRMI Miami FL</b>	7385.0na					
0200-2110		<b>Kenya BC Corp</b>	4935.0do					
0215-0220		<b>Radio Nepal, Katmandu</b>	3230.0as	5005.0as				
0230-0245		<b>BBC English Teaching</b>	15380.0as	17615.0as				
0230-0257		<b>Voice of Vietnam</b>	9525.0na					
0230-0300		<b>AWR Europe, Slovakia</b>	7235.0as					
0230-0300		<b>ORF Vienna</b>	7325.0na					
0230-0300		<b>Radio Sweden</b>	9495.0na					
0230-0330		<b>Radio Pilipinas, Manila</b>	11805.0pa	15120.0pa	15270.0pa			
0230-1400		<b>University Network</b>	17765.0as					
0245-0300		<b>BBC English Teaching</b>	9610.0af					
0245-0300		<b>Radio Tirana, Albania</b>	6115.0na	7160.0na				
0250-0300		<b>Vatican Radio</b>	7305.0am	9605.0am				
0250-2210		<b>Zambia Nat'l BC Corp.</b>	6165.0do	6265.0do				
0300-0310		<b>Vatican Radio</b>	7305.0am	9605.0am				
0300-0310	mtwhf	<b>Voice of Greece</b>	5895.0va	7450.0va	7475.0va	9420.0va		
0300-0330		<b>AWR Africa, Meyerton</b>	9515.0af					
0300-0330		<b>BBC World Service</b>	3255.0af	5975.0na	6005.0af	6135.0am	6175.0na	6190.0af
			6195.0eu	7160.0af	9410.0eu	11730.0af	11760.0me	11765.0af
			11955.0me	12095.0af	15280.0as	15310.0as	15360.0as	17760.0as
			17790.0as	21660.0as				
0300-0330		<b>Channel Africa, S. Africa</b>	9525.0af					
0300-0330	sm w fa	<b>Radio Minsk, Belarus</b>	5970.0pa	7210.0af				
0300-0330		<b>Radio Thailand</b>	9655.0am	11905.0am	15460.0na			
0300-0330		<b>VOA</b>	6035.0af	6080.0af	7105.0af	7290.0af	7340.0af	7415.0af
			9575.0af	9885.0af				
0300-0330	mtwhf	<b>VOA</b>	4960.0af					
0300-0330	a	<b>Wales Radio Int'l</b>	9735.0na					

0300-0345		<b>Deutsche Welle</b>	6045.0na	9535.0na	9640.0am	9700.0na	11750.0na		
0300-0356		<b>China Radio Int'l</b>	9690.0na						
0300-0400		<b>Faro del Caribe, C. Rica</b>	5054.6ca	6175.0ca	9644.7ca				
0300-0400		<b>Overcomer Ministries</b>	5910.0na	6110.0eu	6185.0na	9405.0sa	9430.0as	9470.0af	
			9490.0me	9680.0as	9770.0sa				
0300-0400 sm		<b>R. Luz y Vida, Honduras</b>	3250.0ca						
0300-0400		<b>Radio Bulgaria</b>	7400.0na	9400.0na					
0300-0400		<b>Radio Iraq Int'l</b>	7157.0lr	9684.0lr	11787.0lr				
0300-0400		<b>Radio Japan</b>	17825.0ca	21610.0pa					
0300-0400		<b>Radio Sultanate Oman</b>	15355.0va						
0300-0400		<b>Voice of Russia</b>	7180.0na	12020.0na	13665.0na	15470.0na			
0300-0400		<b>WSHB Cypress Creek SC</b>	5850.0al	7535.0eu					
0300-0430		<b>Radio Cultural, Guatemala</b>	3300.0do	5955.0do					
0300-0530		<b>Zimbabwe BC Corp.</b>	4828.0do	6045.0do					
0300-0600		<b>Christian Voice, Zambia</b>	6065.0do						
0300-0600		<b>Radio Botswana</b>	3356.0do	4820.0do	7255.0do				
0300-0600		<b>Radio Rwanda</b>	6055.0do						
0300-0600		<b>Radio Uganda</b>	4976.0do	5026.0do					
0300-0600		<b>Voice of Islam, Malaysia</b>	6175.0as	9750.0as	15295.0as				
0300-0800		<b>WWFV McCaysville GA</b>	5085.0uf	6890.0uf					
0310-0340		<b>Vatican Radio</b>	9660.0af						
0330-0345		<b>Voice of Africa, Libya</b>	11815.0af	15415.0af	15435.0va				
0330-0357		<b>Voice of Vietnam</b>	9795.0na						
0330-0400		<b>BBC World Service</b>	3255.0af	5975.0na	6005.0af	6135.0am	6175.0na	6190.0af	
			6195.0eu	7160.0af	9410.0eu	11730.0af	11760.0me	11765.0af	
			11955.0me	12095.0af	15280.0as	15310.0as	15420.0af	17760.0as	
			17790.0as	21660.0as					
0330-0400 m		<b>La Voz Evangelica, Hond.</b>	4819.2do						
0330-0400		<b>Radio Budapest</b>	9835.0na						
0330-0400		<b>Radio Dubai, UAE</b>	11725.0na	12005.0na	13675.0na	15400.0na			
0330-0400		<b>Radio Sweden</b>	9495.0na						
0330-0400		<b>Radio Tirana, Albania</b>	6115.0na	7160.0na					
0330-0400		<b>VOA</b>	6035.0af	6080.0af	7105.0af	7290.0af	7415.0af	9575.0af	
			9885.0af						
0330-0830		<b>Radio Myanmar</b>	9730.8do						
0345-0400		<b>FEBA Seychelles</b>	11885.0af						
0400-0427		<b>Radio Prague Int'l</b>	7345.0na	7385.0na	9435.0na				
0400-0429		<b>R. Vlaanderen Int'l</b>	11985.0na						
0400-0430		<b>Channel Africa, S. Africa</b>	5955.0af						
0400-0430 s twhfa		<b>Radio Mexico Int'l</b>	9705.0am	11770.0am					
0400-0430		<b>Radio Nigeria, Kaduna</b>	6090.0do	7275.0do					
0400-0430		<b>VOA</b>	6080.0af	7170.0af	7290.0af	7415.0af	9575.0af	9775.0af	
			9885.0af	15205.0as					
0400-0445		<b>Deutsche Welle</b>	7280.0af	9565.0af	11935.0af	11965.0af			
0400-0445		<b>WYFR Okeechobee FL</b>	6065.0na	9355.0eu	9505.0na				
0400-0456		<b>China Radio Int'l</b>	9730.0na						
0400-0456		<b>Radio Romania Int'l</b>	9570.0na	11830.0na	15335.0as	17735.0as			
0400-0500		<b>BBC World Service</b>	3255.0af	5975.0na	6005.0af	6135.0am	6175.0na	6190.0af	
			6195.0eu	7160.0af	9410.0eu	11760.0me	11765.0af	12095.0af	
			15280.0as	15310.0as	15420.0af	15575.0me	17760.0as	17790.0as	
			21660.0as	21830.0me					
0400-0500		<b>KWHR Naalehu HI</b>	17780.0as						
0400-0500		<b>Radio Australia</b>	9660.0pa	12080.0pa	15240.0as	15415.0as	15515.0va	17580.0va	
			17750.0as	21725.0va					
0400-0500		<b>Radio Ukraine Int'l</b>	9610.0eu	9810.0na					
0400-0500		<b>Swiss Radio Int'l</b>	9885.0am	9905.0am					
0400-0500		<b>Voice of Russia</b>	7125.0na	7180.0na	12000.0na	12020.0na	13665.0na	15445.0na	
			15470.0na	15595.0na	17595.0na				
0400-0500		<b>Voice of Turkey</b>	6020.0va	7240.0af	9655.0al	21715.0pa			
0400-0500		<b>WSHB Cypress Creek SC</b>	7535.0eu	9840.0al	12020.0af				
0400-0600		<b>R. for Peace Int'l</b>	5920.0al	6970.0va	7480.0va	15048.9va			
0400-0700		<b>KVDH Los Angeles CA</b>	9975.0am						
0400-0800 mtwhfa		<b>WMLK Bethel PA</b>	7555.0eu	9465.0eu					
0400-2305		<b>Radio Nigeria, Enugu</b>	6025.0do						
0400-2400		<b>Cameroon Radio-TV</b>	4850.0do						
0425-0440		<b>RAI, Rome</b>	6145.0af	7120.0af					
0427-0525		<b>Radio Voice of Hope</b>	12060.0af	15320.0af					
0430-0457		<b>Radio Prague Int'l</b>	9865.0as	11600.0as					
0430-0500		<b>AWR Africa, Meyerton</b>	12080.0af						
0430-0500		<b>TWR Swaziland</b>	4775.0af	6035.0af					
0430-0500		<b>VOA</b>	6080.0af	7170.0af	7290.0af	7415.0af	9575.0af	9775.0af	
			15205.0as						
0430-0530		<b>Radio Netherlands</b>	6165.0na	9590.0na					
0430-1000		<b>Radio Nigeria, Lagos</b>	3326.0do	4990.0do					
0430-1000		<b>Sri Lanka B'casting Corp.</b>	6130.0do						
0430-2305		<b>Radio Nigeria, Ibadan</b>	6049.9do						
0430-2305		<b>Radio Nigeria, Kaduna</b>	4770.0do	6090.0do	7275.0do	9570.0do			
0445-0500		<b>WYFR Okeechobee FL</b>	9355.0eu						
0500-0504		<b>Radio Pakistan</b>	15175.2me	17520.2me	21465.0me				
0500-0505		<b>WWCR Nashville TN</b>	2390.0na	5070.0na	5935.0na				
0500-0505 sm		<b>WWCR Nashville TN</b>	3210.0na						
0500-0505 twhfa		<b>WWCR Nashville TN</b>	3215.0na						
0500-0515		<b>Kol Israel</b>	9435.0va	11605.0va	17545.0va				
0500-0530		<b>AWR Africa, Meyerton</b>	5960.0af	6015.0af					

0500-0530	<b>BBC World Service</b>	5975.0na 9410.0eu 12095.0eu 17640.0af	6005.0af 9740.0as 15280.0as 17760.0as	6175.0am 11760.0me 15310.0as 17790.0as	6190.0af 11765.0af 15360.0as 17885.0af	6195.0eu 11940.0af 15420.0af 21660.0as	7160.0af 11955.0pa 15575.0me
0500-0530	<b>Channel Africa, S. Africa</b>	15215.0af					
0500-0530	<b>Christian Voice, Austr.</b>	9865.0as	15185.0as	17645.0as	21680.0as		
0500-0530	twhfa <b>Radio Mexico Int'l</b>	9705.0am	11770.0am				
0500-0530	<b>Swiss Radio Int'l</b>	9655.0eu					
0500-0530	<b>Vatican Radio</b>	9660.0af	11625.0af				
0500-0545	<b>Deutsche Welle</b>	5960.0na	6120.0na	9670.0na	11795.0na		
0500-0556	<b>China Radio Int'l</b>	9560.0na					
0500-0559	<b>Radio Canada Int'l</b>	9760.0af	11850.0af	11905.0me			
0500-0600	s a <b>Radio Australia</b>	9660.0pa	12080.0pa	15240.0as	15515.0va	17580.0va	21725.0va
0500-0600	<b>Radio Exterior de Espana</b>	17750.0as					
0500-0600	<b>Radio Japan</b>	6055.0na 5975.0eu 15195.0as	6110.0na 17810.0as 21755.0pa	7230.0eu 21755.0pa	9835.0na	11715.0as	11760.0as
0500-0600	<b>VOA</b>	5970.0af 9775.0af	6035.0af 11825.0eu	6080.0af 12080.0af	7170.0af 15205.0as	7295.0af	9700.0af
0500-0600	<b>Voice of Russia</b>	7125.0na 17595.0na	7180.0na	12020.0na	15445.0na	15470.0na	15595.0na
0500-0600	mtwhfa <b>Voice of Russia</b>	12000.0na					
0500-0600	<b>WSHB Cypress Creek SC</b>	7535.0eu	9840.0al	12020.0al	15195.0af		
0500-0600	<b>WYFR Okeechobee FL</b>	5985.0na	9355.0eu	11550.0eu			
0500-0700	<b>Radio Havana Cuba</b>	9550.0na	9820.0na	9830.0uf			
0500-0700	<b>Voice of Nigeria</b>	7255.0af					
0500-0720	<b>TWR Swaziland</b>	6035.0af	7200.0af	9500.0af			
0500-0800	<b>Radio Kuwait</b>	15110.0as					
0500-0800	<b>SIBC Solomon Islands</b>	5020.0do	9545.0do				
0500-1000	<b>KWHR Naalehu HI</b>	11565.0pa	17780.0as				
0500-1000	<b>Radio Liberia Int'l</b>	5100.0do					
0500-1000	<b>WHRA Greenbush ME</b>	7435.0af					
0505-1000	<b>WRCR Nashville TN</b>	2390.0na	3210.0na	5070.0na	5935.0na		
0525-0915	<b>Ghana Broadcasting Corp.</b>	3366.0do	4915.0do				
0530-0545	<b>BBC English Teaching</b>	6010.0eu	9915.0eu				
0530-0600	<b>BBC World Service</b>	5975.0na 9410.0eu 12095.0eu 17760.0as	6005.0af 9740.0as 15310.0as 17790.0as	6175.0am 11760.0me 15360.0as 21660.0as	6190.0af 11765.0af 15420.0af	6195.0eu 11940.0af 15575.0me	7160.0af 11955.0pa 17640.0af
0530-0600	smtwhf <b>BBC World Service</b>	17885.0af					
0530-0600	<b>Radio Dubai, UAE</b>	13675.0au	15435.0au	17830.0au	21700.0au		
0530-0600	<b>Radio Thailand</b>	9655.0eu	11905.0eu	15115.0eu			
0530-0700	<b>Italian Radio Relay Svc</b>	3985.0va					
0530-1630	<b>Zimbabwe BC Corp.</b>	5975.0do	6045.0do				
0600-0615	<b>TWR Meyerton</b>	11640.0af					
0600-0620	<b>Vatican Radio</b>	4005.0eu	5883.0eu	7250.0eu			
0600-0629	<b>Radio Canada Int'l</b>	6045.0eu	6150.0eu	9780.0eu			
0600-0630	<b>Channel Africa, S. Africa</b>	15215.0af					
0600-0630	<b>Swiss Radio Int'l</b>	9655.0eu					
0600-0630	<b>VOA</b>	5970.0af 11805.0af	5995.0af 11825.0eu	6035.0af 11930.0af	6080.0af 12080.0af	7170.0af 15205.0as	7295.0af 15600.0af
0600-0641	<b>Radio Romania Int'l</b>	9530.0na	11830.0na				
0600-0645	<b>Deutsche Welle</b>	6140.0eu	7225.0af	9565.0af	11785.0af		
0600-0700	<b>BBC World Service</b>	6005.0af 9580.0pa 12095.0eu 17760.0as	6175.0am 9740.0as 15310.0as 17790.0as	6190.0af 11760.0me 15360.0as 17885.0af	6195.0eu 11765.0af 15420.0af 21660.0as	7160.0af 11940.0af 15575.0me	9410.0eu 11955.0pa 17640.0af
0600-0700	<b>Radio Australia</b>	9660.0pa 17750.0as	12080.0pa 21725.0va	15240.0as 15415.0as	15515.0va	17580.0va	
0600-0700	<b>Radio Japan</b>	7230.0eu	9685.0pa	9835.0na	11740.0as	15195.0as	21755.0pa
0600-0700	<b>Republic of Yemen Radio</b>	9780.0me					
0600-0700	<b>Voice of Malaysia</b>	6175.0as	9750.0as	15295.0as			
0600-0700	<b>Voice of Russia</b>	15460.0au	15470.0au	15525.0au	17570.0au	17655.0au	21790.0au
0600-0700	<b>WYFR Okeechobee FL</b>	5985.0na	7355.0eu				
0600-0800	<b>R. for Peace Int'l</b>	5920.0af	6970.0va	7480.0va	15048.9ir		
0600-0800	s <b>WSHB Cypress Creek SC</b>	7535.0af					
0600-0900	<b>Radio Rwanda</b>	6055.0do					
0600-1000	<b>SLBS, Sierra Leone</b>	3316.0do					
0600-1300	<b>Radio Uganda</b>	5026.0do	7110.0do	7196.0do			
0600-1500	<b>Christian Voice, Zambia</b>	9865.0do					
0600-1530	<b>Radio Botswana</b>	7255.0do	9600.0do				
0600-2200	<b>ELWA Monrovia, Liberia</b>	4760.0do					
0610-0620	mtwhf <b>Voice of Greece</b>	7475.0eu	9420.0eu	15630.0eu	17520.0pa		
0630-0645	s a <b>BBC English Teaching</b>	6180.0eu	9875.0eu				
0630-0645	<b>Vatican Radio</b>	11625.0af					
0630-0700	<b>Georgian Radio, Tbilisi</b>	11805.0eu					
0630-0700	<b>VOA</b>	5995.0af	7170.0af	11825.0eu	11930.0af	15205.0as	
0630-0700	s a <b>VOA</b>	5970.0af 15600.0af	6035.0af 15600.0af	6080.0af 11930.0af	7295.0af	11805.0af	12080.0af
0641-0656	<b>Radio Romania Int'l</b>	6135.0eu	7105.0eu	9510.0eu	9530.0na	11830.0na	11940.0eu
0645-0700	<b>BBC English Teaching</b>	6180.0eu	9635.0eu				
0645-0900	<b>Deutsche Welle</b>	6140.0eu					
0700-0715	<b>WBCQ Monticello ME</b>	7415.0na					
0700-0730	<b>Radio Slovakia Int'l</b>	15460.0au	17550.0au	21705.0au			
0700-0730	mtwhfa <b>V. of the Mediterranean</b>	6010.0eu					
0700-0730	a <b>VOA</b>	6873.0lf	6873.0uf				

0700-0745		<b>BBC World Service</b>	6175.0am	6190.0af	9410.0eu	9580.0pa	9740.0as	11760.0me
			11765.0af	11940.0af	11955.0pa	12095.0eu	15310.0as	15360.0as
			15400.0af	15485.0eu	15565.0eu	15575.0me	17640.0eu	17760.0as
			17790.0as	17830.0af	21660.0as			
0700-0745 s	a	<b>BBC World Service</b>	17885.0af					
0700-0745		<b>WYFR Okeechobee FL</b>	7355.0eu	9985.0eu	11850.0eu			
0700-0756		<b>Radio Romania Int'l</b>	17720.0af	21480.0af				
0700-0800		<b>Italian Radio Relay Svc</b>	7120.0va					
0700-0800		<b>KHBN Palau</b>	9965.0as	9985.0as	15725.0as			
0700-0800		<b>Radio Australia</b>	9660.0pa	12080.0pa	15240.0as	15240.0va	15415.0as	17580.0va
			17750.0as	21725.0va				
0700-0800		<b>Radio Taipei Int'l</b>	5950.0na					
0700-0800		<b>Voice of Russia</b>	15460.0au	15470.0au	17570.0au	17655.0au	21790.0au	
0700-0825		<b>Voice of Malaysia</b>	6275.0as	9750.0as	15295.0as			
0700-1100		<b>Radio Africa, Eq. Guinea</b>	15184.8af					
0700-1100		<b>Voice of Hope, Germany</b>	5975.0eu	21590.0me				
0705-0710	mtwhfa	<b>Croatian Radio, Zagreb</b>	6165.0eu	9830.0eu	13830.0eu			
0705-0720		<b>BBC English Teaching</b>	6005.0af					
0705-1205		<b>Radio New Zealand Int'l</b>	15175.0pa					
0720-0735	smtwhf	<b>TWR Swaziland</b>	6035.0af	7200.0af	9500.0af			
0730-0740 s	a	<b>KWTR Guam</b>	15200.0as					
0730-0745	mtwhf	<b>Vatican Radio</b>	4005.0eu	5883.0eu	6185.0eu	7250.0eu	9645.0eu	11740.0eu
			15595.0eu					
0730-0800	t h	<b>Georgian Radio, Tbilisi</b>	6080.0eu					
0730-0800		<b>ORF Vienna</b>	6155.0eu	13730.0eu				
0730-0800		<b>Radio Finland</b>	9510.0va	21670.0as				
0730-0800		<b>Swiss Radio Int'l</b>	9885.0af	13635.0af	17665.0af			
0730-1400		<b>Nat'l BC, Papua NG</b>	4890.0do	9675.0lr				
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					
0740-0800		<b>KWTR Guam</b>	15200.0as					
0745-0755 s	a	<b>TWR Monte Carlo</b>	9870.0eu	12070.0eu				
0745-0800		<b>BBC World Service</b>	6175.0am	6190.0af	9410.0eu	9580.0pa	9740.0as	11760.0me
			11765.0af	11940.0af	11955.0pa	12095.0eu	15310.0as	15360.0as
			15400.0af	15485.0eu	15565.0eu	17640.0eu	17760.0as	17790.0as
			17830.0af	21660.0as				
			15575.0as	17885.0af				
0745-0900 s	a	<b>BBC World Service</b>	9870.0eu	12070.0eu				
0755-0920		<b>TWR Monte Carlo</b>	9870.0eu	12070.0eu				
0800-0804		<b>Radio Pakistan</b>	9540.0do	17520.0eu	21465.0eu			
0800-0827		<b>Radio Prague Int'l</b>	11600.0eu	15255.0eu				
0800-0829		<b>R. Vlaanderen Int'l</b>	5985.0eu					
0800-0900 s		<b>Amateur Radio Lg, SAF</b>	9750.0af	21560.0af				
0800-0900		<b>BBC World Service</b>	6190.0af	9410.0eu	9740.0as	11940.0af	11955.0pa	12095.0eu
			15310.0as	15360.0as	15400.0af	15485.0eu	15565.0eu	17640.0eu
			17760.0as	17830.0af	21660.0as	21830.0me		
0800-0900		<b>KNLS Anchor Point AK</b>	9615.0as					
0800-0900		<b>Radio Australia</b>	5995.0pa	9580.0va	9710.0as	12080.0pa	13605.0va	15240.0va
			15415.0as	17750.0as	21725.0va			
0800-0900		<b>Radio Korea</b>	9570.0om	13670.0eu				
0800-0900		<b>Voice of Indonesia</b>	9525.0va	11784.9va	15149.8va			
0800-0900		<b>Voice of Russia</b>	9905.0au	15460.0au	15470.0au	17495.0au	17525.0au	17570.0au
			17655.0au					
0800-0900	mtwhfa	<b>WMLK Bethel PA</b>	7555.0eu	9465.0eu	9475.0eu			
0800-0900		<b>WSHB Cypress Creek SC</b>	7535.0eu	9845.0eu				
0800-0915		<b>KWTR Guam</b>	15200.0as	15330.0as				
0800-1000		<b>VOA</b>	11995.0as	13615.0as	15150.0as			
0800-1100		<b>KHBN Palau</b>	9955.0as	9965.0as	9985.0as	15725.0as		
0800-1100		<b>R. for Peace Int'l</b>	5920.0af	6970.0va	15048.9lr			
0800-1105		<b>SIBC Solomon Islands</b>	5020.0do					
0800-1300		<b>a Scandinavian Weekend R.</b>	11690.0va					
0800-1600 s	a	<b>Italian Radio Relay Svc</b>	7120.0va					
0800-1700		<b>NBC Windhoek, Namibia</b>	7165.0af	7215.0af				
0805-0810 s		<b>Croatian Radio, Zagreb</b>	6165.0eu	9830.0eu	13830.0eu			
0815-0900	f	<b>FEBE Seychelles</b>	15460.0as					
0830-0900		<b>Georgian Radio, Tbilisi</b>	11910.0eu					
0830-0900		<b>Swiss Radio Int'l</b>	9885.0au	21770.0af				
0830-2130		<b>ABC Alice Springs</b>	2310.0do					
0830-2130		<b>ABC Katherine</b>	2485.0do					
0830-2130		<b>ABC Tennant Creek</b>	2325.0do					
0900-0930		<b>BBC World Service</b>	6195.0as	9605.0as	9740.0as	11760.0me	11765.0as	11945.0as
			11955.0pa	12095.0eu	15190.0sa	15310.0as	15360.0as	15400.0af
			15485.0eu	15565.0eu	15575.0as	17640.0eu	17760.0as	17790.0as
			17830.0af	17885.0af	21470.0af	21660.0as		
0900-0945		<b>Deutsche Welle</b>	6140.0eu	6160.0pa	11785.0af	12055.0as	15410.0af	17625.0pa
			17770.0as	17800.0af	17820.0as	17860.0af	21560.0af	
0900-0956		<b>China Radio Int'l</b>	11730.0pa	15210.0pa				
0900-1000 s	a	<b>BBC World Service</b>	6190.0af	11940.0af				
0900-1000		<b>Radio Australia</b>	9580.0va	13605.0va	21820.0va			
0900-1000 s	a	<b>Radio Australia</b>	15400.0as	17750.0as				
0900-1000 s		<b>V. of the Mediterranean</b>	11770.0eu					
0900-1000		<b>Voice of Russia</b>	9905.0au	15460.0au	15470.0au	17495.0au	17525.0au	17570.0au
0900-1000	mtwhfa	<b>WMLK Bethel PA</b>	9475.0eu					
0900-1000		<b>WSHB Cypress Creek SC</b>	7535.0eu	9455.0sa				
0900-1100		<b>HCJB Quito Ecuador</b>	11755.0pa	21455.0uf				
0900-2100		<b>Radio Rwanda</b>	6055.0do					

0915-0930	<b>KTWR Guam</b>	15330.0as							
0915-1200	<b>Ghana Broadcasting Corp.</b>	6130.0do							
0915-1200 s	<b>a Ghana Broadcasting Corp.</b>	4915.0do							
0930-1000	<b>AWR Europe, Forli</b>	9660.0eu							
0930-1000	<b>BBC English Teaching</b>	9605.0as	11765.0as	11945.0as					
0930-1000	<b>BBC World Service</b>	6195.0as	9740.0as	11760.0me	11955.0pa	12095.0eu	15190.0sa		
		15310.0as	15360.0as	15400.0af	15485.0eu	15565.0eu	15575.0as		
		17640.0eu	17760.0as	17790.0as	17830.0af	17885.0af	21470.0af		
		21660.0as							
0930-1000	<b>Georgian Radio, Tbilisi</b>	11910.0me							
0930-1130	<b>Radio Netherlands</b>	7260.0as	9790.0au	12065.0as					
0940-1000 s	<b>Voice of Armenia, Yerevan</b>	4810.0eu	15270.0eu						
0945-1100	<b>Deutsche Welle</b>	6140.0eu							
1000-1027	<b>Voice of Vietnam</b>	9839.6as	12019.7as						
1000-1029	<b>Radio Prague Int'l</b>	21745.0va							
1000-1030	<b>BBC World Service</b>	6195.0va	9740.0as	11760.0me	11955.0pa	12095.0eu	15310.0as		
		15360.0as	15485.0eu	15565.0eu	15575.0as	17640.0eu	17760.0as		
		17790.0as	21470.0af	21660.0as					
1000-1030	<b>KSDA Guam</b>	11660.0as	15330.0as						
1000-1030	<b>Radio Telefis Elreann</b>	11740.0au							
1000-1030	<b>Sri Lanka B'casting Corp.</b>	4940.0do							
1000-1045	<b>a ORF Vienna</b>	6155.0eu	13730.0eu						
1000-1056	<b>China Radio Int'l</b>	11730.0pa	15210.0pa						
1000-1100	<b>All India Radio, Delhi</b>	11585.0as	13700.0au	15020.0as	17485.0au	17840.0as	17895.0au		
1000-1100	<b>a BBC World Service</b>	6190.0af	11940.0af						
1000-1100 s	<b>a BBC World Service</b>	15190.0sa	15400.0af	17830.0af					
1000-1100 s	<b>a BBS, Bhutan</b>	6035.0do							
1000-1100	<b>KHBI Saipan, Marianas</b>	11840.0as	11870.0as						
1000-1100	<b>Radio Australia</b>	9580.0va	13605.0va	15400.0as	17750.0as	21820.0va			
1000-1100	<b>Radio Japan</b>	9695.0as	15590.0as	21755.0pa					
1000-1100	<b>VOA</b>	5985.0pa	6165.0ca	7370.0ca	9590.0ca	11720.0as	15250.0as		
		15425.0as							
1000-1100	<b>Voice of Nigeria</b>	7255.0af							
1000-1100	<b>WEWN Birmingham AL</b>	5825.0va	7465.0eu						
1000-1100	<b>WSHB Cypress Creek SC</b>	6095.0am	9455.0sa						
1000-1100	<b>WWCR Nashville TN</b>	2390.0na	5070.0na	5935.0na	7435.0na				
1000-1100	<b>WYFR Okeechobee FL</b>	5950.0na							
1000-1200	<b>BBC World Service</b>	17885.0af							
1000-1300	<b>WHRI Noblesville IN</b>	6040.0na	9495.0sa						
1000-1300	<b>WRMI Miami FL</b>	9955.0am							
1000-1600	<b>KWHR Naalehu HI</b>	9930.0as	11565.0pa						
1000-1600	<b>Radio Nigeria, Lagos</b>	4990.0do	7285.0do						
1000-1800	<b>Radio Liberia Int'l</b>	6100.0do							
1000-1900	<b>SLBS, Sierra Leone</b>	5980.0do							
1000-2000	<b>Voice of Hope, Liberia</b>	11530.0af							
1000-2000	<b>ZLXA New Zealand</b>	3935.0do							
1000-2200	<b>Caribbean Beacon</b>	11775.0am							
1000-2200	<b>Voice of Guyana</b>	5949.4do							
1030-1045	<b>Radio Ethiopia</b>	5990.0do	7110.0do	9704.2do					
1030-1100	<b>BBC World Service</b>	6195.0va	9740.0as	11760.0me	11955.0pa	12095.0eu	15310.0as		
		15485.0eu	15565.0eu	15575.0as	17640.0eu	17790.0as	21470.0af		
		11660.0as							
1030-1100	<b>KSDA Guam</b>	11660.0as							
1030-1100	<b>Radio Dubai, UAE</b>	13675.0eu	15370.0eu	15395.0eu	21605.0eu				
1030-1100	<b>Radio Vilnius, Lithuania</b>	9710.0eu							
1030-1100	<b>Voice of Mongolia</b>	12085.0au							
1030-1130	<b>Sri Lanka B'casting Corp.</b>	4940.0do	11835.0as	15120.0as	17850.0as				
1100-1104	<b>Radio Pakistan</b>	9540.0do	17520.0eu	21465.0eu					
1100-1127	<b>Voice of Vietnam</b>	7285.0as							
1100-1130	<b>BBC Caribbean Report</b>	6195.0ca	15220.0ca						
1100-1130	<b>BBC World Service</b>	5965.0na	6195.0as	9580.0as	9740.0as	11760.0me	11955.0as		
		12095.0eu	15280.0as	15310.0as	15400.0af	15485.0eu	15565.0eu		
		15575.0as	17640.0eu	17700.0as	17790.0sa	17830.0af	21470.0af		
		6190.0af	11940.0af						
1100-1130 s	<b>BBC World Service</b>	6195.0na	15190.0sa	15220.0am					
1100-1130 s	<b>a BBC World Service</b>	9540.0as	9535.0eu	21770.0as					
1100-1130	<b>Swiss Radio Int'l</b>	6140.0eu	15410.0af	17800.0af	21780.0af				
1100-1145	<b>Deutsche Welle</b>	6140.0eu	15410.0af	17800.0af	21780.0af				
1100-1200	<b>Radio Australia</b>	5995.0pa	6020.0va	9580.0va	12080.0pa	13605.0va	21820.0va		
1100-1200	<b>Radio Japan</b>	6120.0na	9695.0as	15590.0as					
1100-1200	<b>Radio Korea</b>	9650.0am							
1100-1200	<b>VOA</b>	5985.0pa	6110.0as	9645.0as	9760.0as	11705.0as	11720.0as		
		15250.0as	15425.0as						
		7445.0as							
1100-1200	<b>Voice of Asia, Taiwan</b>	21590.0me							
1100-1200	<b>Voice of Hope, Germany</b>	2390.0na	5070.0na	5935.0na	9475.0na				
1100-1200	<b>WWCR Nashville TN</b>	5950.0na	11830.0na						
1100-1200	<b>WYFR Okeechobee FL</b>	3945.0do	4960.0do	7260.0do					
1100-1215 s	<b>Radio Vanuatu</b>	15185.0as	15385.0as	15585.0as	21470.0as	21730.0as			
1100-1230	<b>VOIRI Teheran</b>	5825.0va	15745.0eu						
1100-1300	<b>WEWN Birmingham AL</b>	6095.0am	11660.0am						
1100-1300	<b>WSHB Cypress Creek SC</b>	6150.0as	9600.0as						
1100-1400	<b>Radio Singapore Int'l</b>	12005.0am	15115.0am	21455.0uf					
1100-1530	<b>HCJB Quito Ecuador</b>	11690.0eu							
1100-1530	<b>Radio Jordan</b>	9955.0as	9965.0as	9985.0as	13840.0as				
1100-1600	<b>KHBN Palau</b>	15048.9ir	21815.1uf						
1100-2000	<b>R. for Peace Int'l</b>	9420.0eu	15630.0eu						
1110-1120	<b>Voice of Greece</b>								

1115-1130		<b>BBC English Teaching</b>	11805.0eu	13745.0eu	15270.0eu	15325.0eu	17625.0eu		
1115-1130	mtwh	<b>BBC English Teaching</b>	9410.0eu	11680.0eu					
1115-1130	mtwhf	<b>Vatican Radio</b>	5883.0eu	9645.0eu	11740.0eu	15595.0eu	21850.0eu		
1115-1145		<b>Radio Nepal, Katmandu</b>	3230.0as	5005.0as					
1130-1135		<b>Kol Israel</b>	15640.0va	17545.0va					
1130-1145		<b>Voice of Africa, Libya</b>	11815.0af	15415.0af	15435.0va				
1130-1157		<b>Radio Prague Int'l</b>	11640.0eu	21745.0af					
1130-1159		<b>R. Vlaanderen Int'l</b>	9865.0as						
1130-1200		<b>BBC World Service</b>	5965.0na	6195.0va	9580.0as	9740.0as	11760.0me	11955.0as	
			12095.0eu	15220.0am	15280.0as	15310.0as	15485.0eu	15565.0as	
			15575.0as	17640.0eu	17700.0as	17830.0af	21470.0af		
1130-1200	s	<b>BBC World Service</b>	6190.0af	11940.0af					
1130-1200		<b>Swiss Radio Int'l</b>	9540.0as	21770.0as					
1130-1200	f	<b>Vatican Radio</b>	15595.0va	17515.0va					
1130-1200	a	<b>Wales Radio Int'l</b>	17625.0au						
1130-1230		<b>Sri Lanka B'casting Corp.</b>	4940.0do						
1130-1330		<b>Radio Netherlands</b>	6045.0eu	9860.0eu					
1145-1600		<b>Deutsche Welle</b>	6140.0eu						
1200-1215		<b>BBC English Teaching</b>	7135.0as	11835.0as					
1200-1215		<b>V. of Cambodia</b>	11940.3as						
1200-1220	mtwhf	<b>BBC Caribbean Report</b>	6195.0ca	15220.0ca					
1200-1220		<b>BBC World Service</b>	5965.0na	6195.0as	9515.0na	9580.0as	9740.0as	11760.0me	
			11955.0as	12095.0as	15280.0as	15310.0as	15485.0eu	15565.0as	
			15575.0me	17640.0eu	17700.0as	17830.0af	17885.0af	21470.0af	
1200-1220	s	a <b>BBC World Service</b>	6190.0af	6195.0na	11940.0af	15220.0am			
1200-1220	fa	<b>Radio Almaty, Kazakhstan</b>	9620.0eu	11840.0eu					
1200-1230		<b>FBC Manila</b>	15110.0as						
1200-1230		<b>Radio Tashkent</b>	5060.0as	5975.0as	6025.0as	9715.0as			
1200-1245		<b>WYFR Okeechobee FL</b>	5950.0na	11830.0na	11970.0na				
1200-1256		<b>China Radio Int'l</b>	9730.0as	9760.0pa	11675.0pa	11980.0as	15415.0as		
1200-1256		<b>Radio Pyongyang</b>	3560.0va	9640.0va	9850.0va	9975.0va	11335.3va	13650.1va	
1200-1259		<b>Radio Canada Int'l</b>	6150.0as	11730.0as					
1200-1300	mtwhf	<b>BBS, Bhutan</b>	5030.0do						
1200-1300		<b>KHBI Saipan, Marianas</b>	5915.0as	9880.0as					
1200-1300		<b>Radio Bulgaria</b>	15700.0eu	17500.0eu					
1200-1300		<b>Radio France Int'l</b>	11670.0eu	15155.0eu	15195.0eu	15540.0af			
1200-1300		<b>Radio Taipei Int'l</b>	7130.0as	9610.0au					
1200-1300		<b>Radio Ukraine Int'l</b>	15520.0eu						
1200-1300		<b>VOA</b>	6110.0as	9645.0as	9760.0as	11705.0as	11715.0as	15250.0as	
			15425.0as						
1200-1330		<b>Radio Australia</b>	5995.0pa	6020.0va	9580.0va	11650.0pa	21820.0va		
1200-1330		<b>Voice of Hope, Germany</b>	15715.0me						
1200-1400		<b>WWCR Nashville TN</b>	5070.0na	5935.0na	7435.0na	15685.0na			
1200-1700		<b>Ghana Broadcasting Corp.</b>	4915.0do	6130.0do					
1200-2400		<b>CBC Northern Service</b>	9625.0do						
1205-1650		<b>Radio New Zealand Int'l</b>	6095.0oc						
1215-1330		<b>Radio Cairo</b>	17595.0as						
1220-1240	w	<b>Radio Almaty, Kazakhstan</b>	9620.0eu	11840.0eu					
1220-1300		<b>BBC World Service</b>	5965.0na	6195.0va	9515.0na	9580.0as	9740.0as	11760.0me	
			11955.0as	12095.0as	15220.0am	15280.0as	15310.0as	15485.0eu	
			15565.0eu	15575.0me	17640.0eu	17700.0as	17830.0af	17885.0af	
			21470.0af						
1220-1300	s	a <b>BBC World Service</b>	6190.0af	11940.0af					
1230-1245		<b>BBC English Teaching</b>	5875.0eu	9410.0eu	9635.0eu	11680.0eu	11895.0eu	13670.0eu	
			15105.0af	15270.0eu	15325.0eu	17610.0eu	17780.0af	21640.0af	
1230-1257		<b>Voice of Vietnam</b>	9839.6as	12019.7as					
1230-1259		<b>R. Vlaanderen Int'l</b>	9925.0eu						
1230-1300		<b>AWR Europe, Forli</b>	17820.0eu						
1230-1300	mtwhfa	<b>ORF Vienna</b>	6155.0eu	13730.0eu					
1230-1300		<b>Radio Bangladesh</b>	7184.0as	9550.1as	15520.1as				
1230-1300		<b>Radio Sweden</b>	18960.0na						
1230-1300		<b>Radio Thailand</b>	9655.0as	9810.0as	11905.0as				
1230-1600		<b>Sri Lanka B'casting Corp.</b>	4940.0do	6005.0as	6075.0as	9770.0as	15425.0as		
1240-1300	t	<b>Radio Almaty, Kazakhstan</b>	9620.0eu	11840.0eu					
1245-1300		<b>BBC English Teaching</b>	5875.0eu	9410.0eu	9635.0eu	11680.0eu	11895.0eu	13670.0eu	
			15270.0eu	15325.0eu	17610.0eu				
			15535.0me						
1300-1330		a <b>FEBA Seychelles</b>	15225.0as	15330.0as					
1300-1330		<b>KSDA Guam</b>	9535.0eu						
1300-1330		<b>Swiss Radio Int'l</b>	6110.0as	9645.0as	9760.0as	11705.0as	11715.0as	15425.0as	
1300-1355		<b>VOA</b>	6095.0eu	7270.0eu	9525.0eu	11820.0eu			
1300-1356		<b>Radio Polonia, Warsaw</b>	7405.0na	9570.0na	11675.0pa	11900.0pa	11980.0as	15180.0as	
1300-1356		<b>China Radio Int'l</b>	11940.0eu	15290.0eu	15335.0na	17805.0na			
1300-1400		<b>Radio Romania Int'l</b>	5965.0na	5995.0as	6190.0af	6195.0va	9515.0na	9590.0na	
		<b>BBC World Service</b>	9740.0as	11760.0me	11940.0af	12095.0eu	15220.0am	15310.0as	
			15420.0af	15485.0eu	15565.0eu	15575.0me	17640.0eu	17700.0as	
			17830.0af	17885.0af	21470.0af				
1300-1400		<b>KHBI Saipan, Marianas</b>	7460.0as						
1300-1400		<b>KNLS Anchor Point AK</b>	9615.0as						
1300-1400		<b>Radio Korea</b>	9570.0as	13670.0om					
1300-1400		<b>WSHB Cypress Creek SC</b>	9430.0am	9455.0na					
1300-1400		<b>WYFR Okeechobee FL</b>	11550.0as	11740.0na	11830.0na	11970.0na			
1300-1500	s	a <b>Channel Africa, S. Africa</b>	11720.0af	17780.0af	21725.0af				
1300-1500		<b>Overcomer Ministries</b>	6110.0eu						
1300-1559		<b>Radio Canada Int'l</b>	9640.0na	13655.0na	17710.0na				
1300-1600		<b>WEWN Birmingham AL</b>	11875.0na	15745.0eu					

1300-1600	<b>WHRI Noblesville IN</b>	6040.0na	15105.0sa						
1300-2100	<b>Radio Uganda</b>	4976.0do	5026.0do						
1300-2100	<b>WWFV McCaysville GA</b>	9400.0uf	12172.0uf						
1300-2200	<b>a Scandinavian Weekend R.</b>	11720.0va							
1300-2300	<b>WRMI Miami FL</b>	15725.0va							
1305-1310	<b>Croatian Radio, Zagreb</b>	6165.0eu	9830.0eu	13830.0eu					
1330-1345	<b>BBC English Teaching</b>	15105.0af	21640.0af						
1330-1357	<b>Voice of Vietnam</b>	7145.0eu	9730.0eu						
1330-1400	<b>All India Radio, Delhi</b>	9690.0as	11620.0as	13710.0as					
1330-1400	<b>KSDA Guam</b>	11755.0as							
1330-1400	<b>ORF Vienna</b>	6155.0eu	13730.0eu						
1330-1400	<b>Radio Australia</b>	5995.0pa	6020.0va	9580.0va	11650.0pa	11660.0as	21820.0va		
1330-1400	<b>Radio Dubai, UAE</b>	13630.0eu	13675.0eu	15395.0eu	21605.0eu				
1330-1400	<b>Radio Finland</b>	15400.0na	17660.0na						
1330-1400	<b>Radio Sweden</b>	9425.0as	18770.0as	18960.0na					
1330-1400	<b>Radio Tashkent</b>	5060.0as	5975.0as	6025.0as	9715.0as				
1330-1400	<b>VOA</b>	6110.0as	9645.0as	9760.0as	11705.0as	15425.0as			
1330-1430	<b>Voice of Turkey</b>	17690.0va	17815.0eu						
1330-1600	<b>Voice of Hope, Germany</b>	15715.0me	17550.0as						
1345-1405	<b>Vatican Radio</b>	15235.0au	17515.0au						
1400-1429	<b>Radio Prague Int'l</b>	21745.0va							
1400-1430	<b>Radio Australia</b>	5995.0va	6080.0pa	9580.0va	11650.0pa	11660.0as			
1400-1430	<b>Radio Thailand</b>	9530.0as	9655.0as	11905.0as					
1400-1430	<b>Universal Life, Germany</b>	9955.0na							
1400-1430	<b>VOA</b>	6110.0as	7125.0as	9645.0as	9760.0as	11705.0as	15205.0as		
1400-1430	<b>VOA</b>	18275.0lf	18275.0uf						
1400-1456	<b>China Radio Int'l</b>	7180.0as	7405.0na	9700.0as	11675.0as	11765.0as	13685.0af		
1400-1500	<b>All India Radio, Delhi</b>	9690.0as	11620.0as	13710.0as					
1400-1500	<b>BBC World Service</b>	5995.0as	6190.0af	6195.0as	9515.0na	9590.0na	9740.0as		
		11940.0af	12095.0eu	15220.0na	15310.0as	15485.0eu	15565.0eu		
		15575.0me	17640.0eu	17700.0as	17830.0af	17840.0am	21470.0af		
		21660.0af							
1400-1500	<b>Radio France Int'l</b>	11610.0as	17620.0va	17680.0as					
1400-1500	<b>Radio Japan</b>	7200.0as	9505.0na	9845.0as	11880.0me				
1400-1500	<b>Radio Sultanate Oman</b>	15140.0eu							
1400-1500	<b>Radio Taipei Int'l</b>	15125.0as							
1400-1500	<b>Swiss Radio Int'l</b>	12010.0as	15185.0as						
1400-1500	<b>WYFR Okeechobee FL</b>	11550.0as	11740.0na	11830.0na	17760.0na				
1400-1600	<b>KJES Vado NM</b>	11715.0na							
1400-1600	<b>SBC Radio 1, Singapore</b>	6150.0do							
1400-2200	<b>WWCR Nashville TN</b>	9475.0na	12160.0na	13845.0na	15685.0na				
1400-2400	<b>KAIJ Dallas TX</b>	13815.0va							
1415-1420	<b>Radio Nepal, Katmandu</b>	3230.0as	5005.0as						
1430-1500	<b>KSDA Guam</b>	15225.0as							
1430-1500	<b>KTWR Guam</b>	15330.0as							
1430-1500	<b>ORF Vienna</b>	6155.0eu	13730.0eu	17855.0au					
1430-1500	<b>Radio Sweden</b>	17505.0va	18960.0na						
1430-1500	<b>VOA</b>	6110.0as	7125.0as	9645.0as	9760.0as	11705.0as	15205.0as		
		15395.0as	15425.0as						
1430-1600	<b>Radio Australia</b>	5995.0va	6080.0pa	9580.0va	11650.0pa	11660.0va			
1430-1600	<b>Radio Myanmar</b>	5985.9do							
1430-1630	<b>Radio Netherlands</b>	12070.0as	12090.0as	15595.0as					
1430-2400	<b>University Network</b>	9940.0as							
1500-1530	<b>BBC World Service</b>	5975.0as	5995.0as	6190.0af	6195.0as	9410.0eu	9515.0na		
		9590.0na	9740.0as	11860.0af	11940.0af	12095.0eu	15220.0na		
		15310.0as	15400.0af	15420.0af	15485.0eu	15565.0eu	17700.0as		
		17830.0af	17840.0am	21470.0af	21490.0af	21660.0af			
1500-1530	<b>Channel Africa, S. Africa</b>	17770.0af							
1500-1530	<b>a FEBA Seychelles</b>	11600.0as							
1500-1530	<b>Radio Mexico Int'l</b>	9705.0am	11770.0am						
1500-1530	<b>Voice of Mongolia</b>	12015.0as	12085.0as						
1500-1556	<b>China Radio Int'l</b>	7160.0as	7405.0na	9785.0as	13685.0af	15125.0af			
1500-1556	<b>Radio Pyongyang</b>	4405.0va	6574.9na	9335.2na	11710.1na	13760.2na			
1500-1600	<b>KTWR Guam</b>	15330.0as							
1500-1600	<b>Overcomer Ministries</b>	6110.0eu	13810.0me						
1500-1600	<b>Radio Japan</b>	7200.0as	9750.0as	9845.0as					
1500-1600	<b>VOA</b>	7125.0as	9575.0as	9645.0as	15205.0as	15395.0as			
1500-1600	<b>VOA Special English</b>	6110.0as	9760.0as	9845.0as	12040.0as	15460.0as			
1500-1600	<b>Voice of Russia</b>	7180.0na	7315.0as	9800.0as	9875.0as	11500.0as			
1500-1600	<b>WYFR Okeechobee FL</b>	11830.0na	17750.0na						
1500-1700	<b>Voice of Nigeria</b>	7255.0af							
1500-2400	<b>Christian Voice, Zambia</b>	4965.0do							
1530-1545	<b>BBC English Teaching</b>	11685.0as	15545.0as						
1530-1545	<b>FEBA Seychelles</b>	11600.0as							
1530-1545	<b>Radio Bangladesh</b>	4882.0as	15520.1as						
1530-1545	<b>Voice of Shariah, Afghan.</b>	7002.2lr	7085.0as						
1530-1600	<b>AWR Europe, Slovakia</b>	13860.0as							
1530-1600	<b>BBC World Service</b>	5975.0as	5995.0as	6190.0af	6195.0as	9410.0eu	9515.0na		
		9590.0na	9740.0as	11940.0af	12095.0eu	15220.0na	15310.0as		
		15400.0af	15485.0eu	15565.0eu	17700.0as	17830.0af	17840.0am		
		21470.0af	21660.0af						
1530-1600	<b>mtwhf World Beacon</b>	6145.0af							
1530-1630	<b>HCJB Quito Ecuador</b>	12005.0am	15115.0am						
1530-1630	<b>VOIRI Teheran</b>	7115.0as	9635.0as	11775.0as					

1530-1730		<b>Radio Jordan</b>	17680.0na							
1530-1800		<b>Radio Botswana</b>	3356.0do	4820.0do	7255.0do					
1545-1600	smtw	<b>a FEBA Seychelles</b>	11600.0as							
1545-1600	s	<b>Radio Bangladesh</b>	4882.0as	15520.1as						
1550-1610	h	<b>Vatican Radio</b>	9865.0au	13765.0au	15235.0au					
1600-1615		<b>BBC World Service</b>	3915.0as	5975.0as	6190.0af	6195.0as	7160.0as	9410.0eu		
			9740.0as	11940.0af	12095.0eu	15310.0as	15400.0af	15565.0eu		
			17700.0as	17830.0af	17840.0am	21470.0af	21660.0af			
1600-1615	mtwhfa	<b>BBC World Service</b>	9515.0na							
1600-1615		<b>Radio Pakistan</b>	11570.1me	15100.2af	15725.0af	17510.0me	17725.0af			
1600-1627		<b>Voice of Vietnam</b>	7145.0eu	9730.0eu						
1600-1630		<b>Channel Africa, S. Africa</b>	9525.0af							
1600-1630	s	<b>a KTRW Guam</b>	15330.0as							
1600-1630		<b>Radio Dubai, UAE</b>	13630.0eu	13675.0eu	15395.0eu	21605.0eu				
1600-1630		<b>Radio Mexico Int'l</b>	9705.0am	11770.0am						
1600-1630		<b>Voice of Hope, Germany</b>	17550.0as							
1600-1645		<b>Deutsche Welle</b>	6140.0eu	6170.0as	7225.0as	9735.0af	15380.0as	15455.0af		
			17810.0as	21780.0af						
1600-1656		<b>China Radio Int'l</b>	7190.0af	13650.0af						
1600-1656		<b>Radio Pyongyang</b>	3560.0va	6520.0va	9600.0va	9975.0va				
1600-1700		<b>KSDA Guam</b>	11980.0as							
1600-1700		<b>Overcomer Ministries</b>	6110.0eu							
1600-1700		<b>Radio Algiers</b>	11715.0va	15160.0va						
1600-1700		<b>Radio Australia</b>	5995.0va	6080.0pa	9580.0va	9655.0va	11650.0pa	11660.0va		
1600-1700		<b>Radio Ethiopia</b>	5990.0af	7110.0af	7165.0af	9560.2af	9704.2af	11800.0af		
1600-1700		<b>Radio France Int'l</b>	11615.0af	11995.0af	12015.0af	15210.0af	17850.0af			
1600-1700		<b>Radio Korea</b>	5975.0om	9515.0af	9870.0af					
1600-1700		<b>Sri Lanka B'casting Corp.</b>	4940.0do							
1600-1700		<b>VOA</b>	6035.0af	6110.0as	7125.0as	9575.0as	9645.0as	9760.0as		
			11920.0af	12040.0af	13710.0af	15205.0as	15240.0af	15395.0as		
			15485.0af							
1600-1700		<b>VOA Special English</b>	13600.0af	15445.0af	17895.0af					
1600-1700		<b>Voice of Russia</b>	4940.0me	4965.0me	4975.0me	6005.0me	7305.0as	9830.0me		
1600-1700		<b>WYFR Okeechobee FL</b>	11830.0na	15215.0na	17760.0na	18980.0eu	21455.0eu	21525.0af		
1600-1800		<b>KHBN Palau</b>	9955.0as	9965.0as	13840.0as					
1600-1800		<b>WHRI Noblesville IN</b>	13760.0na	15105.0as						
1600-1800		<b>World Beacon</b>	6145.0af							
1600-1800		<b>WSHB Cypress Creek SC</b>	18910.0af							
1600-2000		<b>KWHR Naalehu HI</b>	9930.0as							
1600-2100		<b>WEWN Birmingham AL</b>	11875.0na	13615.0na	15745.0eu					
1600-2300		<b>WHRA Greenbush ME</b>	17650.0af							
1600-2300		<b>WINB Red Lion PA</b>	13570.0eu							
1600-2300		<b>WRNO New Orleans LA</b>	7394.3na	15420.0af						
1600-2305		<b>Radio Nigeria, Lagos</b>	3326.0do	4990.0do						
1600-2400		<b>KTBN Salt Lake City UT</b>	15590.0na							
1615-1700		<b>BBC World Service</b>	3915.0as	5975.0as	6190.0af	6195.0as	7160.0as	9410.0eu		
			9740.0as	11940.0af	12095.0eu	15310.0as	15400.0af	15420.0af		
			15565.0eu	17700.0as	17830.0af	17840.0am	21470.0af	21660.0af		
1615-1700	mtwhfa	<b>BBC World Service</b>	9515.0na							
1615-1700	s	<b>a BBC World Service</b>	11860.0af	21490.0af						
1630-1700	s	<b>FEBA Seychelles</b>	11605.0as							
1630-1700		<b>Georgian Radio, Tbilisi</b>	6180.0me							
1630-1830		<b>Radio Cairo</b>	15255.0af							
1630-2200		<b>Zimbabwe BC Corp.</b>	4828.0do	6045.0do						
1645-1700		<b>Radio Tajikistan</b>	7245.0							
1645-1900		<b>Deutsche Welle</b>	6140.0eu							
1650-1850	mtwhf	<b>Radio New Zealand Int'l</b>	15120.0as							
1700-1715		<b>Radio Galkayo, Somalia</b>	6985.0va							
1700-1727		<b>Radio Prague Int'l</b>	5930.0eu	17485.0af						
1700-1727		<b>Voice of Vietnam</b>	12070.0eu							
1700-1730		<b>BBC World Service</b>	3255.0af	3915.0as	5975.0as	6005.0af	6190.0af	6195.0eu		
			7160.0as	9410.0af	9510.0as	9630.0af	9740.0as	15400.0af		
			15420.0af	15575.0me	17830.0af	17840.0na	21470.0af			
1700-1730		<b>Channel Africa, S. Africa</b>	17870.0af							
1700-1730		<b>Kol Israel</b>	11605.0va	17545.0va						
1700-1730		<b>Radio France Int'l</b>	11615.0af	15210.0af						
1700-1756		<b>China Radio Int'l</b>	7150.0af	9570.0af	9670.0af	9695.0af	11910.0af			
1700-1756		<b>Radio Romania Int'l</b>	9625.0eu	11740.0eu	11940.0eu	15365.0eu				
1700-1800		<b>R. Omdurman, Sudan</b>	7200.0do	9200.0do	9205.0do					
1700-1800		<b>Radio Australia</b>	5995.0va	6080.0pa	9580.0va	9655.0va	9815.0as	11880.0va		
1700-1800		<b>Radio Japan</b>	9505.0na	11970.0eu	15355.0af					
1700-1800		<b>VOA</b>	6040.0af	6110.0as	7125.0as	9645.0as	9760.0as	11920.0af		
			12040.0af	15205.0as	15240.0af	15395.0as	15445.0af	17895.0af		
1700-1800	mtwhf	<b>VOA</b>	5990.0as	6045.0as	9525.0as	9670.0as	9795.0as	11955.0as		
			12005.0as	15255.0as						
1700-1800		<b>a Voice of Greece</b>	9420.0eu	15630.0eu						
1700-1800		<b>Voice of Russia</b>	9830.0me							
1700-1800		<b>WYFR Okeechobee FL</b>	18980.0eu	21455.0eu						
1700-1900		<b>Voice of Hope, Germany</b>	9495.0va							
1700-2200	smtwhf	<b>WMLK Bethel PA</b>	15265.0eu							
1700-2300		<b>Radio Africa, Eq. Guinea</b>	5003.7af	7190.0af	15184.8af					
1700-2300		<b>Sri Lanka B'casting Corp.</b>	4940.0lr							
1700-2400		<b>Ghana Broadcasting Corp.</b>	3366.0do	4915.0do						
1700-2400		<b>NBC Windhoek, Namibia</b>	3270.0af	3290.0af	7215.0lr					
1715-1730		<b>Vatican Radio</b>	4005.0eu	5883.0eu	7250.0eu	9645.0eu	15595.0eu			
1725-1740		<b>TWR Monte Carlo</b>	5855.0me							



1730-1745		<b>BBC English Teaching</b>	3390.0af 9915.0eu	5875.0eu 11770.0eu	5970.0eu	7230.0af	9520.0af	9530.0eu
1730-1745		<b>BBC World Service</b>	3255.0af 7160.0as 15420.0af	3915.0as 9410.0eu 15575.0me	5975.0as 9510.0as 17830.0af	6005.0af 9630.0af 17840.0na	6190.0af 9740.0as 21470.0af	6195.0eu 15400.0af
1730-1745		<b>TWR Swaziland</b>	9500.0af					
1730-1745	mtwhf	<b>TWR Swaziland</b>	3200.0af					
1730-1745	mtwhf	<b>United Nations Radio</b>	6125.0af	15495.0af	17735.0af			
1730-1745		<b>Voice of Africa, Libya</b>	11815.0af	15415.0af	15435.0va			
1730-1800		<b>AWR Africa, Meyerton</b>	12130.0af					
1730-1800	s	<b>BBC World Service</b>	7385.0as	9780.0as	11660.0as			
1730-1800		<b>KSDA Guam</b>	7455.0as	11560.0me				
1730-1800		<b>Radio Slovakia Int'l</b>	5915.0eu	6055.0eu	7345.0eu			
1730-1800		<b>Swiss Radio Int'l</b>	9605.0af	13790.0af	15555.0af			
1730-1830		<b>Radio Netherlands</b>	6020.0af	11655.0af				
1730-1930		<b>Radio Pilipinas, Manila</b>	11730.0pa	11890.0pa	15190.0pa			
1745-1800		<b>BBC English Teaching</b>	5875.0eu 11770.0eu	5970.0eu	6065.0as	9530.0eu	9605.0as	9915.0eu
1745-1800		<b>BBC World Service</b>	3255.0af 9410.0eu 17830.0af	3915.0as 9510.0as 17840.0na	5975.0as 9740.0as 21470.0af	6190.0af 15400.0af	6195.0eu 15420.0af	7160.0as 15575.0me
1745-1800		<b>Radio Bangladesh</b>	7184.0eu	7462.6eu	9550.1eu	15520.1eu		
1745-1900		<b>TWR Swaziland</b>	3200.0af	9500.0af				
1745-1945		<b>All India Radio, Delhi</b>	7410.0eu 17670.0af	9950.0eu	11620.0eu	11935.0af	13750.0af	15200.0af
1800-1827		<b>Radio Prague Int'l</b>	5930.0eu	7315.0va				
1800-1827		<b>Voice of Vietnam</b>	7145.0eu	7440.0eu	9730.0eu			
1800-1830		<b>AWR Africa, Meyerton</b>	5960.0af	6100.0af				
1800-1830		<b>BBC World Service</b>	3255.0af 9740.0pa 21470.0af	5975.0as 15400.0af	6190.0af 15420.0af	6195.0eu 15575.0me	9410.0eu 17830.0af	9510.0as 17840.0na
1800-1830		<b>Channel Africa, S. Africa</b>	17870.0af					
1800-1830		<b>Georgian Radio, Tbilisi</b>	11910.0eu					
1800-1830		<b>Radio Telefis Eireann</b>	9895.0me					
1800-1830	s	<b>Universal Life, Germany</b>	11840.0af					
1800-1830		<b>Voice of Azerbaijan</b>	6110.0eu	9155.0eu				
1800-1855		<b>Radio Polonia, Warsaw</b>	5995.0eu	7285.0eu				
1800-1859		<b>Radio Canada Int'l</b>	11720.0af	13640.0af				
1800-1900	m	<b>Amateur Radio Lg, SAF</b>	3215.0af					
1800-1900		<b>KHBN Palau</b>	9965.0as	13840.0as				
1800-1900		<b>Radio Australia</b>	6080.0as	7240.0pa	9580.0va	9655.0va	9815.0as	11880.0va
1800-1900		<b>Radio Bangladesh</b>	7184.0eu	7462.6eu	9550.1eu	15520.1eu		
1800-1900		<b>Radio Taipei Int'l</b>	3965.0eu					
1800-1900	mtwhf	<b>RAE Buenos Aires</b>	15345.0eu					
1800-1900		<b>Republic of Yemen Radio</b>	11770.0me					
1800-1900		<b>VOA</b>	6035.0af 13710.0af	6040.0af 15240.0af	9760.0as 15580.0af	9840.0as	11920.0af	11975.0af
1800-1900	s	<b>Voice of Russia</b>	7340.0eu	9775.0eu	9830.0af	9890.0eu	11510.0af	
1800-1900		<b>World Beacon</b>	5940.0eu	6045.0eu				
1800-2000		<b>WHRI Noblesville IN</b>	3230.0af	9675.0af	17665.0af			
1800-2000		<b>WSHB Cypress Creek SC</b>	9495.0sa	13760.0na				
1800-2000		<b>WYFR Okeechobee FL</b>	15665.0eu	18910.0af				
1800-2100		<b>Radio Kuwait</b>	18980.0eu					
1800-2200		<b>Radio Botswana</b>	11990.0va					
1800-2200		<b>Radio Botswana</b>	3356.0do	4820.0do				
1800-2300		<b>Italian Radio Relay Svc</b>	3985.0va					
1800-2400		<b>Radio Liberia Int'l</b>	5100.0do					
1830-1845	m w	<b>BBC English Teaching</b>	6050.0eu	9685.0eu	11925.0eu			
1830-1859		<b>R. Vlaanderen Int'l</b>	5910.0eu	9925.0eu	13710.0eu			
1830-1900		<b>BBC World Service</b>	3255.0af 9740.0pa 21470.0af	6005.0af 15400.0af	6190.0af 15420.0af	6195.0eu 15575.0me	9410.0eu 17830.0af	9630.0af 17840.0na
1830-1900	s	<b>Georgian Radio, Tbilisi</b>	6080.0eu					
1830-1900	mtwhfa	<b>Radio Sweden</b>	6065.0eu					
1830-1900	s	<b>Radio Sweden</b>	9765.0eu					
1830-1900		<b>Radio Telefis Eireann</b>	13640.0na	21630.0af				
1830-1900	s	<b>VOA</b>	13675.0af	15160.0af	17895.0as			
1830-2030		<b>Radio Netherlands</b>	6020.0af	9895.0af	11655.0af	13700.0af	17605.0af	
1845-1915		<b>RTVC Brazzaville, Congo</b>	5985.0af					
1850-1855	mtwhf	<b>Radio New Zealand Int'l</b>	17675.0pa					
1855-2400		<b>Radio New Zealand Int'l</b>	17675.0pa					
1900-1927		<b>Voice of Vietnam</b>	7145.0eu	9730.0eu				
1900-1927		<b>VOIRI Teheran</b>	7175.0af	7255.0af				
1900-1945		<b>Deutsche Welle</b>	11765.0af	11810.0af	13610.0af	15135.0af	15390.0af	17810.0af
1900-1956		<b>China Radio Int'l</b>	6165.0af	9440.0af	9585.0af			
1900-1956		<b>Radio Pyongyang</b>	4405.0va	6574.9na	9335.2na	11710.1na	13760.1na	
1900-2000		<b>BBC World Service</b>	3255.0af 9740.0pa	6005.0af 15400.0af	6190.0af 15575.0as	6195.0eu 17830.0af	9410.0eu	9630.0af
1900-2000	a	<b>BBC World Service</b>	17840.0na					
1900-2000		<b>HCJB Quito Ecuador</b>	17660.0eu					
1900-2000		<b>KJES Vado NM</b>	15385.0au					
1900-2000		<b>Overcomer Ministries</b>	17870.0na					
1900-2000		<b>R. Central, Papua NG</b>	3290.0ir					
1900-2000		<b>Radio Australia</b>	6080.0as	7240.0pa	9500.0as	9580.0va	9815.0as	11880.0va
1900-2000		<b>Radio Korea</b>	5975.0om	7275.0eu				
1900-2000		<b>Radio Thailand</b>	9535.0eu	9655.0eu	11905.0eu			

1900-2000		<b>a Sri Lanka B'casting Corp.</b>	6010.0eu						
1900-2000		<b>VDA</b>	4950.0af	6035.0af	7415.0af	9525.0pa	9690.0as	9760.0as	
			11870.0pa	11920.0af	11975.0af	13710.0af	15180.0pa	15240.0af	
			15580.0af						
1900-2000	mtwhf	<b>VDA</b>	5965.0me	9840.0as	11720.0me	11970.0as	13725.0af	15205.0me	
			15410.0as						
1900-2000		<b>VDA Special English</b>	9785.0me	12015.0me	13640.0me				
1900-2000		<b>Voice of Russia</b>	5940.0eu	5950.0eu	6045.0eu	7205.0eu	7340.0eu	9775.0eu	
			9875.0af	9890.0eu	11510.0af				
1900-2000		<b>World Beacon</b>	3230.0af	9675.0af	11640.0af				
1900-2015		<b>TWR Swaziland</b>	3200.0af						
1900-2100		<b>SIBC Solomon Islands</b>	5020.0do						
1900-2100		<b>Voice of Hope, Germany</b>	7290.0eu						
1900-2100		<b>Voice of Nigeria</b>	7255.0af						
1900-2400		<b>SLBS, Sierra Leone</b>	3316.0do						
1904-2000	s	<b>Voice of Greece</b>	7450.0eu	9420.0eu	17565.0sa	17705.0na			
1905-1910		<b>Croatian Radio, Zagreb</b>	13830.0eu						
1915-1930		<b>BBC English Teaching</b>	15105.0af	17885.0af					
1930-2000		<b>Georgian Radio, Tbilisi</b>	11760.0eu						
1930-2000		<b>ORF Vienna</b>	5945.0eu	6155.0eu					
1930-2000		<b>Radio Slovakia Int'l</b>	5915.0eu	6055.0eu	7345.0eu				
1930-2000		<b>Swiss Radio Int'l</b>	9605.0af	11910.0af	13660.0af				
1930-2000		<b>Voice of Greece</b>	7475.0eu	9375.0va					
1930-2030		<b>Voice of Turkey</b>	6140.0uf	7125.0eu					
1930-2030		<b>VOIRI Teheran</b>	6110.0eu	7215.0eu	9022.1eu				
1930-2230		<b>Nat'l BC, Papua NG</b>	4890.0do						
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						
1935-1955		<b>RAI, Rome</b>	5975.0eu	7285.0eu	9760.0eu				
1945-2000		<b>Radio Tirana, Albania</b>	7210.0eu	9510.0eu					
2000-2025		<b>Kol Israel</b>	9435.0va	11605.0va	15640.0af	15650.0va			
2000-2030		<b>Radio Budapest</b>	6025.0eu	7135.0eu					
2000-2030		<b>Swiss Radio Int'l</b>	6165.0eu	9605.0af	11910.0af	13660.0af	13790.0af		
2000-2030		<b>Vatican Radio</b>	9660.0af	11625.0af					
2000-2030		<b>VDA</b>	4950.0af	6035.0af	6095.0as	7415.0af	9690.0as	9760.0as	
			11855.0af	11975.0af	13710.0af	15240.0af	15580.0af	17580.0af	
			17885.0af						
2000-2030		<b>Voice of Mongolia</b>	12015.0eu	12085.0eu					
2000-2045		<b>Deutsche Welle</b>	9725.0eu						
2000-2056		<b>China Radio Int'l</b>	5965.0eu	9440.0af	9840.0eu	11735.0af	13640.0af		
2000-2100		<b>BBC World Service</b>	3255.0af	5975.0pa	6005.0af	6190.0af	6195.0eu	9410.0eu	
			9630.0af	9740.0pa	11835.0af	15400.0af	17830.0af		
2000-2100		<b>R. Nacional de Angola</b>	3374.9va	7245.0va					
2000-2100		<b>Radio Algiers</b>	11715.0eu	11750.0eu	15160.0eu				
2000-2100		<b>Radio Australia</b>	9500.0as	9580.0va	9815.0as	11880.0va	12080.0pa		
2000-2100	s	<b>a Radio Australia</b>	6080.0as	7240.0pa					
2000-2100		<b>Radio Bulgaria</b>	7200.0eu	7500.0eu					
2000-2100	mtwhf	<b>Radio Exterior de Espana</b>	9595.0af	9680.0eu					
2000-2100		<b>Radio Iraq Int'l</b>	7157.0lr	9684.0lr	11787.0lr				
2000-2100	smtwh	<b>a V. of the Mediterranean</b>	7440.0eu						
2000-2100		<b>Voice of Indonesia</b>	9525.0va	11784.9va	15149.8va				
2000-2100		<b>Voice of Russia</b>	5940.0eu	5950.0eu	6045.0eu	7340.0eu	9775.0eu	9890.0eu	
2000-2100		<b>World Beacon</b>	3230.0af	7420.0eu	9675.0af	11640.0af			
2000-2100		<b>WYFR Okeechobee FL</b>	7355.0eu	15565.0eu					
2000-2200		<b>HCJB Quito Ecuador</b>	17660.0eu	21455.0uf					
2000-2200		<b>R. Central, Papua NG</b>	3290.0do						
2000-2200		<b>Radio Damascus</b>	12085.0eu	13610.0eu					
2000-2200		<b>WSHB Cypress Creek SC</b>	11550.0eu	13770.0af	15665.0af				
2000-2400		<b>KWHR Naalehu HI</b>	17510.0as						
2000-2400		<b>R. for Peace Int'l</b>	15048.9va	15065.0va	21815.1uf				
2000-2400		<b>Radio Vanuatu</b>	3945.0do	4960.0do	7260.0do				
2000-2400		<b>Voice of Hope, Liberia</b>	6280.0af						
2000-2400		<b>WHRI Noblesville IN</b>	5745.0sa	9495.0sa	13760.0af				
2000-2400		<b>ZLXA New Zealand</b>	3935.0do	7290.0do					
2025-2045		<b>RAI, Rome</b>	7220.0af	9710.0af	11880.0af				
2030-2045		<b>Radio Thailand</b>	9535.0eu	9655.0eu	11905.0eu				
2030-2045		<b>Voice of Africa, Libya</b>	11815.0af	15415.0af	15435.0va				
2030-2057		<b>Voice of Vietnam</b>	7145.0eu	7390.0eu	9730.0eu				
2030-2100		<b>AWR Africa, Meyerton</b>	9745.0af						
2030-2100		<b>AWR Europe, Germany</b>	9615.0af						
2030-2100	t h	<b>Radio Minsk, Belarus</b>	7105.0eu	7210.0as					
2030-2100		<b>Radio Sweden</b>	6065.0eu	9445.0as					
2030-2100		<b>Radio Tashkent</b>	7105.0eu	9540.0eu					
2030-2100		<b>VDA</b>	6035.0af	6095.0as	7415.0af	9690.0as	9760.0as	11975.0af	
			13710.0af	15240.0af	15580.0af	17580.0af	17885.0af		
2030-2100	s	<b>a VDA</b>	4950.0af						
2030-2115		<b>Radio Cairo</b>	15375.0af						
2030-2125		<b>Radio Polonia, Warsaw</b>	6030.0eu	7185.0eu	7265.0eu	9540.0eu			
2030-2130		<b>Radio Havana Cuba</b>	13660.0uf	13750.0eu					
2040-2100	m	<b>Vatican Radio</b>	9645.0eu						
2045-2230		<b>All India Radio, Delhi</b>	7150.0au	7410.0eu	9650.0eu	9910.0au	9950.0eu	11620.0au	
			11715.0au						
2050-2110		<b>Vatican Radio</b>	4005.0eu	5883.0eu	7250.0eu				
2055-2115	mtwhfa	<b>Voice of Armenia, Yerevan</b>	4810.0eu	9965.0eu					

2100-2127		<b>Radio Prague Int'l</b>	5930.0eu	9430.0as					
2100-2130		<b>BBC World Service</b>	3255.0af 6190.0af 15400.0af	3915.0as 6195.0va 9410.0eu	5965.0as 9740.0pa	6005.0af 11835.0af	6110.0as 12095.0sa		
2100-2130	s	<b>a BBC World Service</b>	5975.0na						
2100-2130		<b>China Radio Int'l</b>	5965.0va	9840.0eu	11735.0af	13640.0af			
2100-2130		<b>Radio Australia</b>	7240.0pa 17715.0va	9500.0as 21740.0va	9580.0va	9660.0pa	11880.0va	12080.0pa	
2100-2145		<b>Deutsche Welle</b>	9615.0af 17835.0af	9690.0af	9765.0as	15135.0as	15410.0af	17560.0as	
2100-2156		<b>Radio Romania Int'l</b>	5955.0eu	7195.0eu	7215.0eu	9690.0eu			
2100-2159		<b>Radio Canada Int'l</b>	5995.0eu	7235.0eu	9770.0eu	9805.0eu	13650.0eu		
2100-2200		<b>KHBN Palau</b>	9985.0as						
2100-2200		<b>KJES Vado NM</b>	15385.0au						
2100-2200		<b>Radio Japan</b>	6115.0eu 17825.0na 15575.0eu	6180.0eu 21670.0pa	11830.0eu	11850.0pa	11855.0af	11920.0pa	
2100-2200		<b>Radio Korea</b>	6035.0af	6040.0me	6095.0as	7415.0af	9595.0as	9670.0as	
2100-2200		<b>VOA</b>	9760.0me 15580.0af	11870.0pa 17580.0af	11975.0af 17735.0pa	13710.0af 17820.0as	15185.0pa	15240.0af	
2100-2200		<b>Voice of Russia</b>	5940.0eu	5950.0eu	6045.0eu	7300.0eu	7340.0eu	9890.0eu	
2100-2200		<b>WEWN Birmingham AL</b>	9975.0eu	11875.0na	13615.0na				
2100-2200		<b>World Beacon</b>	3230.0af	9675.0af	11640.0af				
2100-2200		<b>WYFR Okeechobee FL</b>	7355.0eu	15565.0af	21525.0af				
2100-2230		<b>SIBC Solomon Islands</b>	5020.0do	9545.0do					
2100-2300		<b>WWFV McCaysville GA</b>	9320.0uf	9400.0uf	12172.0uf				
2100-2400		<b>WBCQ Monticello ME</b>	7415.0na	9335.0na					
2115-2130	mtwhf	<b>BBC Caribbean Report</b>	5975.0ca	11675.0ca	15390.0ca				
2115-2200		<b>Radio Cairo</b>	9990.0eu	15375.0af					
2120-2200		<b>a Voice of Greece</b>	9420.0pa	15650.0pa					
2130-2145	t f	<b>BBC Calling Falklands</b>	11680.0sa						
2130-2156		<b>China Radio Int'l</b>	5965.0eu	9840.0eu					
2130-2200		<b>BBC English Teaching</b>	5875.0eu	6050.0eu	9635.0eu				
2130-2200		<b>BBC World Service</b>	3255.0af 6190.0af 15400.0af	3915.0as 6195.0va 9410.0eu	5965.0as 9740.0pa	6005.0af 11835.0af	6110.0as 12095.0sa		
2130-2200		<b>KSDA Guam</b>	11960.0as	11980.0as					
2130-2200		<b>Radio Australia</b>	7240.0pa	9660.0pa	11880.0va	12080.0pa	17715.0va	21740.0va	
2130-2200	t h	<b>Radio Minsk, Belarus</b>	7105.0af	7210.0af					
2130-2200		<b>Radio Tashkent</b>	7105.0eu	9540.0eu					
2130-2200	f	<b>Wales Radio Int'l</b>	6010.0eu						
2130-2225		<b>VOIRI Teheran</b>	9780.0as	11740.0as					
2130-2230		<b>Voice of Turkey</b>	9525.0as						
2130-2400		<b>ABC Alice Springs</b>	4835.0do						
2130-2400		<b>ABC Katherine</b>	5025.0do						
2130-2400		<b>ABC Tennant Creek</b>	4910.0do						
2200-2220	s	<b>a Voice of Greece</b>	9420.0pa	15650.0pa					
2200-2225		<b>RAI, Rome</b>	9675.0as	11900.0as					
2200-2230		<b>Radio Budapest</b>	6025.0eu						
2200-2230		<b>Radio Korea</b>	3975.0eu						
2200-2230	mtwhf	<b>VOA</b>	6035.0af	7415.0af	11655.0af	11975.0af	13710.0af		
2200-2245		<b>Radio Calro</b>	9990.0eu						
2200-2245		<b>WYFR Okeechobee FL</b>	7355.0eu	11740.0na	15565.0af	21525.0af			
2200-2256		<b>China Radio Int'l</b>	7170.0eu						
2200-2259		<b>Radio Canada Int'l</b>	11705.0as						
2200-2300		<b>BBC World Service</b>	5965.0as 9660.0as	5975.0na 11835.0af	6175.0na 11955.0as	6195.0va 12080.0pa	7105.0as 12095.0sa	9590.0na 15400.0af	
2200-2300		<b>Radio Australia</b>	17715.0va	17795.0va	21740.0va				
2200-2300		<b>Radio Bulgaria</b>	7200.0eu	7500.0eu					
2200-2300	s	<b>a Radio Exterior de Espana</b>	9595.0af	9680.0eu					
2200-2300		<b>Radio Taipei Int'l</b>	5810.0eu	9355.0eu					
2200-2300		<b>Radio Ukraine Int'l</b>	5905.0eu	9560.0eu	11770.0eu				
2200-2300		<b>WWCR Nashville TN</b>	7435.0na	9475.0na	12160.0na	13845.0na			
2200-2400		<b>Caribbean Beacon</b>	6090.0am						
2200-2400	fa	<b>Global Sound Kitchen</b>	3955.0eu	6170.0eu	7165.0eu				
2200-2400		<b>KHBN Palau</b>	9955.0as	9965.0as	9985.0as				
2200-2400		<b>RTM Radio 4, Malaysia</b>	7295.0do						
2200-2400	f	<b>Scandinavian Weekend R. VOA</b>	11690.0va 7215.0as 15305.0as	11690.0va 9770.0as 17735.0pa	9890.0as 9890.0as	11760.0as	15185.0as	15290.0as	
2200-2400		<b>Voice of Guyana</b>	3289.7do	5949.4do					
2200-2400		<b>WEWN Birmingham AL</b>	9385.0na	9975.0af	13615.0na				
2200-2400		<b>WSHB Cypress Creek SC</b>	7510.0eu	13770.0af	15285.0sa				
2220-2300	s	<b>Voice of Greece</b>	9420.0pa	15650.0pa					
2230-2257		<b>Radio Prague Int'l</b>	7345.0na	9435.0af					
2230-2259		<b>R. Vlaanderen Int'l</b>	13660.0na						
2230-2300	mtwhf	<b>ORF Vienna</b>	5945.0eu	6155.0eu	13730.0af				
2230-2300		<b>Radio Budapest</b>	3975.0eu						
2230-2300		<b>Radio Sweden</b>	6065.0eu	7325.0eu					
2230-2300		<b>Radio Tirana, Albania</b>	7130.0eu	9540.0eu					
2230-2330		<b>Radio Havana Cuba</b>	9550.0am						
2230-2400		<b>Christian Voice, Austr.</b>	13780.0as	15165.0as	17645.0as	21680.0as			
2230-2400		<b>Nat'l BC, Papua NG</b>	9675.0do	11880.0lr					
2230-2400	s	<b>a SIBC Solomon Islands</b>	9545.0do						
2230-2400		<b>a SIBC Solomon Islands</b>	5020.0do						
2245-2315		<b>Vatican Radio</b>	7305.0as	9600.0as	11830.0as				

2245-2345		<b>WYFR Okeechobee FL</b>	11740.0na						
2245-2400		<b>All India Radio, Delhi</b>	9705.0as	9950.0as	11620.0as	13605.0as			
2300-2329		<b>Radio Canada Int'l</b>	5960.0am	9755.0am					
2300-2329	mtwhf	<b>Radio Canada Int'l</b>	6040.0am	9535.0am	11865.0am				
2300-2330		<b>China Radio Int'l</b>	5990.0na						
2300-2330		<b>Radio Mexico Int'l</b>	9705.0am	11770.0am					
2300-2330		<b>VOA Special English</b>	6045.0as	7140.0as	9545.0as	11925.0as	15395.0as		
2300-2345		<b>Deutsche Welle</b>	9470.0as	9815.0as	13690.0as	17655.0as			
2300-2356		<b>Radio Romania Int'l</b>	7195.0eu	9570.0na	9690.0eu	11940.0na			
2300-2400		<b>BBC World Service</b>	3915.0as	5965.0as	5975.0na	6035.0as	6175.0na	6195.0va	
			7105.0as	9590.0na	11945.0as	11955.0as	12095.0sa	15280.0as	
2300-2400	s	fa <b>Italian Radio Relay Svc</b>	7120.0va						
2300-2400		<b>Radio Australia</b>	9660.0pa	12080.0pa	17715.0va	17795.0va	21740.0va		
2300-2400		<b>Radio Cairo</b>	9900.0am						
2300-2400		<b>SBC Radio 1, Singapore</b>	6150.0do						
2300-2400		<b>Sri Lanka B'casting Corp.</b>	4940.0do						
2300-2400		<b>Voice of Turkey</b>	6020.0eu	9655.0va					
2300-2400		<b>WHRA Greenbush ME</b>	7580.0na						
2300-2400		<b>WINB Red Lion PA</b>	12159.9am						
2300-2400		<b>WRMI Miami FL</b>	9955.0am						
2300-2400		<b>WRNO New Orleans LA</b>	7354.3na						
2300-2400		<b>WWCR Nashville TN</b>	5070.0na	7435.0na	9475.0na	13845.0na			
2300-2400		<b>WWFV McCaysville GA</b>	9320.0uf	12172.0uf					
2330-2345		<b>Voice of Africa, Libya</b>	11815.0af	15415.0af	15435.0va				
2330-2356		<b>China Radio Int'l</b>	5990.0na						
2330-2357		<b>Radio Prague Int'l</b>	7345.0na	9435.0na					
2330-2357		<b>Voice of Vietnam</b>	9839.6as	12019.7as					
2330-2400		<b>Radio Canada Int'l</b>	5960.0am	9755.0am					
2330-2400		<b>Radio Netherlands</b>	6165.0na	9845.0na					
2330-2400		<b>Swiss Radio Int'l</b>	9885.0sa	11660.0sa					
2330-2400		<b>VOA Special English</b>	6045.0as	7130.0as	7140.0as	9545.0as	9620.0as	11805.0as	
			11925.0as	13745.0as	15205.0as	15395.0as			
24hr-		<b>AFRTS</b>	4278.5uf	4319.0uf	4993.5uf	5765.0uf	6350.0uf	6458.5uf	
			6847.5uf	10320.0uf	10940.5uf	12579.0uf	12689.5uf	13362.5uf	
			16847.5uf						
24hr-		<b>CFRX Toronto ON</b>	6070.0do						
24hr-		<b>CFVP Calgary AB</b>	6030.0do						
24hr-		<b>CHNX Halifax NS</b>	6130.0do						
24hr-		<b>CKZN Saint John's NL</b>	6160.0do						
24hr-		<b>CKZU Vancouver BC</b>	6160.0do						
24hr-		<b>University Network</b>	5030.1am	6150.0va	7375.0na	9725.0na	11870.0	13749.8af	
24hr-		<b>WJCR Upton KY</b>	7490.0va	13595.0as					
24hr-		<b>WTJC Newport NC</b>	9370.0na						

Key:

Days:

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

Target Areas:

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

Other Notes:

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

## Bill Oliver

---

**From:** "Glenn Hauser"  
**To:** <ghauser@hotmail.com>  
**Sent:** Friday, November 24, 2000 8:51 PM  
**Subject:** WOR sked as of Nov 24  
WORLD OF RADIO SHORTWAVE-ONLY SCHEDULE AS OF NOVEMBER 24, 2000

NOTE: RFPI's new frequencies 7480 and 15065 given last month were still pending, and there may be also time changes, so RFPI info is omitted from this listing. Check our website below for latest info. Days and times here are strictly UT.

Thu 0030 WOR WBCQ1 7415  
Thu 2130 WOR WWCR 9475 [Dec thru Feb]  
Fri 1030 WOR WWCR 7435  
Sat 0130 WOR WWCR 3215  
Sat 1230 WOR WWCR 15685  
Sun 0030 WOR WBCQ2 9335-CUSB [NEW]  
Sun 0330 WOR WWCR 5070  
Sun 0728 WOR WWCR 5070  
Sun 1930 WOR WWCR 15685  
Sun 2000 WOR WWCR 12160 [NEW]  
Mon 0100 WOR WWCR 3215  
Mon 0601 WOR WWCR 3210  
Tue 1200 WOR WWCR 15685

For latest update of this version, including new RFPI info:  
<http://www.angelfire.com/ok/worldofradio/wormassw.html>

Summaries of each edition of WOR and COM, topic by topic in order, including URLs mentioned and some that were not, are also posted on the WOR site:

<http://www.angelfire.com/ok/worldofradio/wormid.html>  
<http://www.angelfire.com/ok/worldofradio/Commid.html>

WOR RealMedia audio at 32.1 kbps, 7 MB file is now available soon after production, normally early UT Thursdays, at our website. Click on download or stream links near the top.

<http://www.angelfire.com/ok/worldofradio/> or backup site:  
<http://www.angelfire.com/nm/wor/>


Same high-quality file is available by Saturday from WRN in mp3 format via <http://www.wrn.org/ondemand/worldofradio.html>  
Even if you don't see a link for the latest edition, put appropriate Saturday date into browser, such as:  
[ftp://ftp.wrn.org/archive/gh/gh\\_dec0900.mp3](ftp://ftp.wrn.org/archive/gh/gh_dec0900.mp3)  
This is in addition to lower quality RM format archive, going back three months at WRN.

CONTINENT OF MEDIA on demand:  
<http://www.DXing.com/conmedia.htm>

DX LISTENING DIGEST, e-bulletin issued several times a week, may be accessed at  
<http://www.angelfire.com/ok/worldofradio/Dxldmid.html>

Regards, Glenn Hauser, [wghauser@hotmail.com](mailto:wghauser@hotmail.com)

# 14th Annual Winter SWL Fest

Sponsored by  **NASWA**

March 9-10, 2001  
Best Western—The Inn at Towamencin  
(formerly Holiday Inn).  
Sumneytown Pike, Kulpsville, Penna.

Plan to attend your favorite forums Friday and Saturday. Enjoy meeting with your friends in the Hospitality Room. Bring radio related items for the swap meet or to donate for the Silent Auction. Check out your friends' receivers, bring one of your own for others to try!

No frills; just shortwave, longwave, mediumwave, pirates, and scanning. Once again you will enjoy the camaraderie of your hobby friends.

The new year brings a few changes to the 'Fest. First is that the name of the hotel has changed. The location and staff are still the same, however, and so, presumably, is the excellent service we get every year. Second, lunch on Saturday has been upgraded to a pizza & salad buffet. Third, there is now an incentive for you to pre-register, as prices are more expensive for those who wait. Registration options are also more flexible, with new one-day and student registrations.

### Early Registration (rec'd by March 2, 2001)

- Full registration: **\$43**
  - Two-day Partial (no meals): **\$17**
  - One-day Partial (no meals): **\$9**
  - Full spouse/son/daughter: **\$28**
  - Banquet only spouse/son/daughter: **\$16**
  - Student (w/ valid ID, no meals): **\$5**
- Many things, like the raffle, remain the same:

### Late or On-Site Registration

- Full registration: **\$50**
- Two-day Partial (no meals): **\$20**
- One-day Partial (no meals): **\$10**
- Full spouse/son/daughter: **\$35**
- Banquet only spouse/son/daughter: **\$20**
- Student (w/ valid ID, no meals): **\$5**

**GRAND PRIZE** To be announced

**SPECIAL** Register early to win a SW portable! One free entry for an early-bird registration received by February 12, 2001.

Please bring items for the Silent Auction. Proceeds are donated to charity.

Checks should be made payable to WINTER SWL FEST. Register directly with the hotel for your rooms by calling the Holiday Inn at (215) 368-3800. For 2001, one special rate **\$75** single or double! Tell the hotel staff you're with the WINTER SWL FEST to receive this special room rate. *You must make your reservation directly with the hotel to receive this rate; reservations via the Best Western 800 number or web site are not eligible for this rate.* Up to the minute info. can be found on the Winter SWL Fest Web Page at <http://www.trsc.com/winterfest.html> or from <http://www.anarc.org/naswa/>.

The Best Western—The Inn at Towamencin is located at Exit 31 of the PA Turnpike Northeast Extension-Lansdale Interchange. Improved access from the south with the Blue Route (1-476)—ask for details. Limo service is available from Phila. Int Airport directly to the hotel.

Please submit the following form with your registration amount or send for more information to:

SWL WINTERFEST  
P.O. Box 4153  
Clifton Park, NY 12065

NAME: \_\_\_\_\_ (SPOUSE'S NAME) \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ E-MAIL: \_\_\_\_\_ (REQ. FOR REG. CONFIRMATION)

#### REGISTRATION:

- Full (\$43)
- Two-Day Partial (\$17)
- One-Day Partial (\$9)
- Spouse (\$28)
- Banquet only (Spouse) (\$16)
- Student (\$5)

#### BANQUET:

- Roast Beef
- Chicken

#### RAFFLE TICKETS:

- raffle tickets, please  
(\$1 ea./ 6 for \$5/ 13 for \$10)

- Registration Fee Enclosed \$ \_\_\_\_\_
- Raffle Tickets Fee Enclosed \$ \_\_\_\_\_
- Total Check/Money Order \$ \_\_\_\_\_

*Registration cancellations after 2/28/2001 cannot be refunded, however we will refund raffle ticket money if you have to cancel.*

# Company Store

Bill Bergadano KA2EMZ • P.O. Box 484 • Colts Neck, NJ 07722 • ka2emz@cybercomm.net

All s/h charges for the following items are included unless otherwise noted. Please note the new proprietor and address.

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<b>Transmitter Documentation Project (TDP)</b> A result of 10 years of research by DXer Ludo Maes, the TDP presents 80 pages of info listing SW broadcast tx'ers worldwide by country with station name, tx'er site, geographical coordinates, callsign and more	\$10.00 US/CA \$13.00 worldwide
<b>Shortwave Listening Guidebook</b> by Harry Helms. Covers equipment, antennas, propagation, station profiles, utilities, clandestines, QSL'ing, etc. 315 pages.	\$19.95 +2.00 s/h US/CA +3.00 s/h world
<b>Limited Space Antenna Solutions</b> by Frank P. Hughes. Covers the random wire, dipole, vertical, outdoor, loft and indoor antennas, antenna tuners, and grounds.	\$13.00 +1.00 s/h US/CA +2.00 s/h world
<b>Inside Your Shortwave Radio</b> by Ted Benson. Companion to your receiver's instruction manual, filling in what your manual leaves unclear.	\$13.95 +2.00 s/h US/CA +2.50 s/h world
<b>Underground Frequency Guide (New to Company Store!)</b> by Donald W. Schimmel. An in-depth look at illegal radio communications; pirate, spies and so much more! Lists hundreds of frequencies & diplomatic radio systems worldwide. A book no pirate or clanny enthusiast should be without!	\$11.00 +2.00 s/h all
<b>Joe Carr's Receiving Antenna Handbook (Back in stock)</b> A complete guide for high performance antennas from longwave all the way to the upper end of the shortwave spectrum.	\$19.95 +2.00 s/h US/CA +3.00 s/h world
<b>The Vacuum Tube Era (New to our line!)</b> Reviews the golden years of vacuum tube receivers, 1932-1981. If you feel real radios glow in the dark, this is for you! 141 pages.	\$17.00 +1.00 s/h worldwide
<b>Shortwave Receivers, Past &amp; Present</b> by Fred Osterman. A comprehensive guide to over 770 shortwave, amateur and commercial communications receivers produced in the last 55 years! Over 800 photos. 473 pages.	\$22.95 +2.00 s/h US/CA +3.00 s/h world
<b>NASWA Country List and Awards Program Booklet</b>	\$3.00 PP US/CA \$5.00 elsewhere
<b>The System</b> Log Book Masters, QSL reports and log, program notes.	\$2.00 PP worldwide
<b>Propagation Predictor</b> Divides the year into 27-day segments for tracking solar patterns.	\$3.00 PP worldwide
<b>Spectrum Log</b> Covers Tropical and International bands.	\$8.50 PP worldwide
<b>NASWA Reprints Catalog</b> A catalog of 800+ pages of info available from past NASWA issues.	\$3.00 PP worldwide
<b>QSL Signers</b> by Al Quaglieri. The most comprehensive and up-to-date list of verification signers names, titles, and addresses available anywhere!	\$3.00 PP US/CA \$5.00 elsewhere

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