

# NASAA

# the JOURNAL

## NORTH AMERICAN SHORTWAVE ASSOCIATION

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DECEMBER 1997

**NASAA** the JOURNAL  
NORTH AMERICAN SHORTWAVE ASSOCIATION  
OCTOBER 1997

COVER STORY	1
NEWS	1
DEPARTMENTS	1
REGIONS	1
ADVERTISING	1
CLASSIFIEDS	1
INDEX	1
MEMBERSHIP	1
ADVERTISING RATES	1
MEMBERSHIP RATES	1
ADVERTISING CONTACTS	1
MEMBERSHIP CONTACTS	1

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# Holiday Greetings

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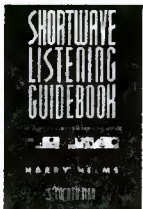
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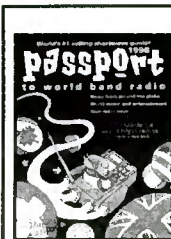
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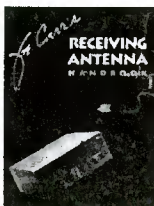


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## ALL ABOUT HAM RADIO

By H. Helms. Have you ever thought of getting a ham radio licence, but didn't know where to start? Here is an exciting new introduction to ham radio written for the 90's. It is written in a direct, humorous way without a lot of math and techno-babble. Perfect for the potential ham without a technical background. ©1992 291 p.

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By G. Halligey. This long respected utility directory is bigger than ever with coverage of aero, CW, FAX, military, time, RTTY and maritime entries. Covers 1605-30,000 kHz organized by frequency plus a new call sign cross-reference. Spiral-bound 10th Ed. ©1997 PW 450 p.

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By Bruce Elving. This unique book covers FM broadcast stations in North America. Maps are included for each state (and Canadian province) showing station call and location. It also includes station listings by location and frequency. ©1997 Seventeenth Edit. *FM Atlas*. 224 p.

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closeout price. 224 p. ©1995.

Order #0983 ..... \$4.95 \$8.90

Season's greetings!!! I hope **Santa** is planning to bring you the club's new, revised *Country List and Awards Program* booklet. If not, buy yourself a copy. It's only US\$3.00 in North America. It's worth having in the shack. Also, don't forget to check out the Company Store during the holiday season.

**Mark Meece**, ANARC's Chairman of the Executive Board, informs me that **George Zeller** has been elected to the board for the first time and that **Harold Cones** and **Mark** have been re-elected once again. I would expect the newly elected board to retain **Mark** as ANARC's Chairman in an upcoming election. Congratulations to all!

Speaking of elections... down under... **George Fildes** has been elected President of DX'ers Calling, Inc. This is the first time **George** has held the post. Other elected officials include **Chris Rogers** (Vice-President), **Ray Everingham** (Secretary) and **Don Cook** (Treasurer). Our long time friend, **Harry Weatherly**, continues as a committee member. Congratulations to all!

From **Adrian M. Peterson**, International Relations, Adventist World Radio we have the following information: "The international winner of the 1997 DX Contest in conjunction with the AWRDX program "Wavescan" is **Mr. John Wilkins** of Wheat Ridge in Colorado, USA, with a total of 929 points. In second and third place are **Peter Grenfell** of Oamaru in New Zealand and **Takuji Sahara** of Tokyo in Japan, with 897 and 892 points respectively. In **John Wilkins** winning entry, he submitted details of the following five exotic QSL cards:- XSG, Shanghai, Coastal Radio, 8502 kHz, 1987; PJB, Bonaire, Trans World Radio, 9535, 1992; XEWA, Mexico, Commercial, 540, 1989; VOA, Honolulu,

### ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave, medium wave and longwave listening, DX tips, and up to the minute hobby news. Contributors share their DX tips via their own amateur radio stations or by telephoning a "gateway" station who then broadcasts the relayed tips. Contributions are also accepted via the Internet Relay Chat (IRC) channel #swl while the net is in progress. Net Controls **Dave Kirby N1DK**, **Hausie WB4JSP**, and **Bob Curtis W1EXZ** host an always lively gang of DX monitors. (Best heard in the eastern half of NAm) Net info is also available at <[http://www.trsc.com/swl\\_net.htm](http://www.trsc.com/swl_net.htm)>.

Voice of America, 1964; HCJB, Ecuador, Gospel, 15395, 1981. A total of more than 500 entries were received from more than 60 countries in the 1997 DX contest which was conducted during the month of September. This year's contest invited listeners to submit details of the five smallest QSL cards in their collection. The regional area winners in the 1997 DX contest are as follows: North America—**John Wilkins—USA—929** points; South Pacific—**Peter Grenfell—New Zealand—897** points; Asia—**Takuji Sahara—Japan—892** points; Europe—**James Parker—Wales—888** points; Latin America—**Ivan Lopez Alegria—Mexico—792** points; and Africa—**David Gordon—South Africa—706** points. Among the awards that winner **John Wilkins** will receive is the coveted Bronze Medallion which is presented to the international winner each year. It is anticipated that his prizes will be presented at an award ceremony yet to be announced. He has also been interviewed for broadcast in the AWR DX program, "Wavescan". Each entry will receive a copy

Our Motto is - "Unity and Friendship"

## Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Fred Kohlbrenner** (2641 South Shields Street, Philadelphia, PA 19142). He will forward them to the appropriate editor. Remember, Fred has now expanded his business to include QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: [fkohl@ix.netcom.com](mailto:fkohl@ix.netcom.com).

of the "World's Smallest QSL Card" which contains a total area of just 35 sq cm. In addition, each entry will also receive the 1997 QSL stamp; and numerous small prizes are awarded for entries in various categories. The QSL Certificate is available on request from all main offices of Adventist World Radio. As a result of his remarkable entry in the 1997 "Wavescan" DX Contest, John Wilkins joins an illustrious honor roll of international DXers who have won previous annual contests. This is the complete list: - 1997 John Wilkins, 1996 William Matthews, 1995 Arthur Cushen, 1984 Salvatore Placanica, 1983 Andrew Elwell, 1982 Andrew Elwell, 1981 Bryan Marsh, 1980 Bryan Marsh, 1979 Ashok Kumar Bose, 1978 Douglas Doull, and 1977 Victor Goonetilleke. Several participants in the 1997 DX contest suggested that next year's contest should be a search for the world's largest QSL card. This then is the title of the 1998 DX contest, "The World's Largest QSL Card", and it is scheduled for the month of September 1998. Additional details will be announced towards the middle of next year."

How is your Portuguese? "Radioescutas" is an electronic mailing list aimed at Portu-

guese-language Dxers and shortwave listeners. It is open to everybody in the radio listening hobby. Although the list's official language is Portuguese, Spanish and English citations are occasionally used. To subscribe to the list, send a message to [<radioescutas-request@carrier.com.br>](mailto:radioescutas-request@carrier.com.br) with the subject "subscribe." You will then receive an automatic message confirming the subscription and detailing a few instructions, in Portuguese, on how to proceed while in the list.

We close this month with one of those "end of an era" notes. **Andy Sennitt**, long time editor of the *World Radio TV Handbook* ("WRTH"), has resigned. His assistant, **Bart Kuperus**, has also resigned. Andy will become a media consultant while Bart moves on to work for a new Dutch company involved in DTP and the Internet. The WRTH'98 will not be affected by this turn of events since it is already at the printer. A search for a new editor is underway. Good luck to Andy Sennitt and Bart Kuperus in their new endeavors.

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



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

The Loudenboomer Report presented "Charlie Meets Santa Claus, Ho-Ho!" In "Headquarters Calling" Dan Ferguson recaps the major changes during the year - the death of Bill Eddings, the change in bulletin format, and headquarters address. Twenty-five members have contributed over \$100.00 to the addressing machine fund. Al Sizer, the new editor of the Shortwave Center, provided his first column in December which featured an article by Don Jensen entitled, "Countries, How To Count Em... And Why." Al Niblack prepares his last Flashsheet column. He will take on editing chores for the Log Report. Ed Shaw's Friendx Fotos featured pictures of Al Reynolds, Frank Orcutt, Corky Webb, and John Creamer.

## Calendar Of Events

- Dec 19 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 215-446-7831.
- Dec 19 Meeting. Boston Area NASWA Chapter.** The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 508-470-1971 or Internet: 74007.3434@compuserve.com. Check the BADX Web Page: <<http://www.grove.net/~badx/>>.
- Dec 20 Meeting. The Miami Valley DX Club** (all band orientation) meets at 1:00 PM. For more information plus this months meeting location contact Dave Hammer at 614-471-9973 or write to MVDXC, Box 292132, Columbus, OH 43229-8132.
- Jan 10 Meeting.** The Tidewater SWL's meet at 6:30 PM. For more information plus meeting location contact Joe Buch at [joseph.buch@dol.net](mailto:joseph.buch@dol.net)
- Jan 10 Meeting. Cincinnati/Dayton Monitoring Exchange (MONIX)** will be touring the WLW-AM 700 transmitter site in Mason, OH. 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 513-777-5296 or e-mail at <[mmeece@one.net](mailto:mmeece@one.net)> if you plan on attending. For additional information about MONIX, check out their web site at <<http://w3.one.net/~mmeece/monix.html>>
- Feb'98 Convention. New Zealand Radio DX League** will hold its 50th anniversary convention at Camp Iona starting on Thursday February 5th at 3:00 PM and conclude on Sunday February 8th. Information and registration form is available from Paul Ormandy, 33 Greta Street, Oamaru, New Zealand or via e-mail <[paulorm@es.co.nz](mailto:paulorm@es.co.nz)>.
- Mar'98 Contest. 1998 North American DX Championships.** Further information will be published in the Journal or you can send a self-addressed stamped envelope to 1998 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606.
- Mar'98 Convention. The 11th Annual Winter SWL Festival** will be held at the Kulpsville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 13-15 March 1997. Organized by the infamous "gang of three" (Messrs. Brown, Cones, and Field) this all wave gathering attracts about 200 hobbyists each year.
- Apr'98 Convention. The 35th Annual International World Wide Continental DX Association (IWWCDA)** will be held in Tahiti at the Charlie Loudenboomer Estate on April 1, 1998 from noon until midnight. Charlie will lecture continuously during this 12-hour period on a variety of boring subjects some of which may actually pertain to shortwave radio. Registration fee is a modest \$150.00 with an extra \$50.00 charge for the traditional hamburger helper banquet. More information is available from Charlie at <[cl@sucker.com](mailto:cl@sucker.com)>.
- Aug'98 Convention. The 36th annual European DX Council conference** will be held in Gothenburg, Sweden on 28-31 August 1998. It will be organized by the Swedish DX Federation. More details to follow.
- Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: [r.dangelo3@genie.com](mailto:r.dangelo3@genie.com)) or Ralph Brandi (Internet: [ralph@mcs.com](mailto:ralph@mcs.com)).

**NASWA**

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

# Easy Listening

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Internet: johnfig@earthlink.net

## Holiday Season Programming

Tis the Season! And without further adieu, may yours be happy, healthy and fulfilling. As our gift to you, we have a special column detailing some of the excellent Seasonal programming available via shortwave this month. A reminder: all days and times are in UTC. [Ed note: John submitted his usual material as well this month, which had to be cut for space. The entire unedited column is on NASWeb at <<http://www.anarc.org/naswa/>> if you have Internet access.]

While far from comprehensive, the following list should provide you with a few listening options over the Holidays. Many stations do not program and schedule far enough in advance to make even the relatively liberal deadlines of *The Journal*. But, it would be fair to say that most stations will have some programming appropriate to the Season, especially during Christmas week, around New Year's Day, and on the Feast of the Epiphany (January 6), the latter especially on European stations and those from countries observing the Eastern Rite. Most of these will take the form of special features, reports and music broadcast within regular magazine-style programs and highlighting aspects of celebrations and observances within their home countries.

For example, from previous years' experience, it is likely that RCICBC will feature some traditional stories read by "Fire-side Al" and messages from Canadian peacekeepers and their families in Canada on *As It Happens* (Mon.-Fri. 2330-0100 on 5960/9755). Listeners' greetings are likely on *The Mailbag* (Mon. 0230 on 6155/9535/9755/9780/11865) each week during December.

The various religious stations in the US and around the world are certain to carry considerable special Christmas programming. For example, apart from meditations on Christmas on Vatican Radio's and WEWN's regular programs, both stations could be expected to broadcast Midnight Mass. (Unfortunately, calls to each station for details were unanswered at deadline.) WYFR, WWCR, WHRI, etc. will likely have their own forms of celebration as well.

The eight days of Hannukah begin on December 24 this year. Kol Israel, both in its longer *English Service* transmissions (1500-1530 on 9365/12080 and 2000-2025 on 7465/9435/9365) and via the relay of *Reshet Bet* (24 hours on 7495, 11590, 15615 or 17545), one of its Hebrew domestic services, can be expected to have special programs and music observing the feast. The attentive listener will find them.

Date	UTC	Station	Program (Frequencies)
8	1330	R. Austria Int.	<i>Report from Austria</i> —seasonal features. (13730)
9	0130	R. Austria Int.	<i>Report from Austria</i> —seasonal features. (7325)
9	0530	R. Austria Int.	<i>Report from Austria</i> —seasonal features. (6015)
	0630	R. Austria Int.	<i>Report from Austria</i> —seasonal features. (6015)
12	0109	HCJB	<i>Studio 9</i> —a unique rendition of "How the Grinch Stole Christmas. (9745)
	0409	HCJB	[see 0109]
16	0200	HCJB	<i>The Least of These</i> —Christmas special part 1. (9745)
	0500	HCJB	[see 0200]
19	0109	HCJB	<i>Studio 9</i> —a special rebroadcast of a "Call of the Andes" program from 10 years ago today. Paul Bell and other "historic" HCJB'ers tell of Ecuadorian Christmas celebrations. (9745)

- 19 0230 **HCJB** *Inspirational Classics*—seasonal music. (9745)  
 0409 **HCJB** [see 0109]
- 20 0109 **HCJB** *Studio 9*—"A Villancico Christmas Special" with Jorge Zambrano featuring Ecuadorian carols. (9745)  
 0409 **HCJB** [see 0109]
- 21 0109 **HCJB** *DX Partyline*—to the North Pole with KNLS. (9745)  
 0409 **HCJB** [see 0109]
- 22 1230 **HCJB** *Christmas in the Air*—a drama tracing the plan and purpose of Christmas from the beginning of time. (15115)  
 0109 **HCJB** *Saludos Amigos*—Christmas special. (9745)  
 0409 **HCJB** [see 0109]  
 0715 **BBC** *Off the Shelf*—*The Christmas Party* by Dina Mehta. (5975/6175)
- 23 0200 **HCJB** *The Least of These*—Christmas special part 2. (9745)  
 0445 **BBC** *Off the Shelf*—*The Christmas Party* by Dina Mehta. (5975/6175)  
 0500 **HCJB** [see 0200]  
 0715 **BBC** *Off the Shelf*—*O'Brien's First Christmas* by Jeanette Winterson. (5975/6175)  
 1230 **HCJB** *Back to the Bible Christmas Special*—music and reflections on the first Christmas. (15115)
- 24 0445 **BBC** *Off the Shelf*—*O'Brien's First Christmas* by Jeanette Winterson. (5975/6175)  
 0715 **BBC** *Off the Shelf*—*The Gift of the Magi* by O. Henry (5975/6175)  
 1230 **HCJB** *Christmas at the Ranch*—fun loving musical celebration from the Flying W Ranch with guest Paul Overstreet. (15115)  
 1305 **DW** *Music for Christmas* (German service—15285/17765)  
 1330 **R. Austria Int.** *Report from Austria*—seasonal features. (13730)  
 1410 **DW** *Christmäs Carols* (German service—13790/17715/17765)
- 24 1502 **BBC** *A Festival of Nine Lessons and Carols*—live from King's College Cambridge. (9515/9590/9740/15220/17840)  
 1632 **DW** *Music and Words for Christmas* (German service—13790/17715/17765)  
 1810 **DW** *Christmas Carols* (German service—17860)  
 2005 **DW** *Sing for Peace* (German service—17810/17860)  
 2105 **DW** *Music for Christmas* (German service—17810/17860)  
 2210 **DW** *Christmas Carols* (German service—6100/9545/9765/11785/11795/15275)  
 2230 **BBC** *A Festival of Nine Lessons and Carols*—rebroadcast of 1502 program. (5975/6175/9590)
- 25 0105 **DW** *Christmas Service*—from der Evangelischen Auslandsgemeinde Brussel. (German service—6100/9545/9765/11785/11795/15275)  
 0130 **R. Austria Int.** *Report from Austria*—seasonal features. (7325)  
 0210 **DW** *Christmas Carols* (German service—6075/6100/6145/11785)  
 0315 **BBC** *The Sporting Year: A Personal View*—Harry Peart in conversation with *Daily Mail* columnist Ian Wooldridge. (5975/6175/9895)  
 0405 **DW** *Sing for Peace* (German service—6045/6075/6145)  
 0445 **BBC** *Off the Shelf*—*The Gift of the Magi* by O. Henry (5975/6175)  
 0505 **DW** *Music for Christmas* (German service—6045/6075/6145)  
 0530 **R. Austria Int.** *Report from Austria*—seasonal features. (6015)  
 0630 **R. Austria Int.** *Report from Austria*—seasonal features. (6015)

- 25 0715 BBC *Off the Shelf—High Spirits* by Robertson Davies. "The Ghost Who Vanished by Degrees". (5975/6175)
- 1130 HCJB *God Came Near*—author/speaker Max Lucado looks at the various events in the Christmas story. (15115)
- 1200 HCJB *Handel's Messiah*—all 150 min. of this classic. (15115)
- 1245 BBC [see 0315] (5965/6195/9515/9740/15220)
- 1330 R. Austria Int. *Report from Austria*—seasonal features. (13730)
- 1410 DW *Christmas Concert* (German service—13790/17715/17765)
- 1505 BBC *Sporting Echoes of '97*—the year's best interviews from Sports International. (9515/9590/9740/15220/17840)
- DW *Songs and Thoughts for Christmas* (German service—13790/17715/17765)
- 1600 BBC *The Queen's Christmas Message*. (9515/17840)
- 1605 DW *New Christmas Carols* (German service—13790/17715/17765)
- 1745 BBC [see 0315] (17840)
- 2010 DW *Christmas Concert* (German service—17810/17860)
- 2100 BBC *The Queen's Christmas Message*. (5975)
- 2210 DW *Christmas Concert* (German service—6100/9545/9765/11785/11795/15275)
- 2245 BBC [see 1505] (5975/6175/9590)
- 2305 DW *Songs and Thoughts for Christmas* (German service—6100/9545/9765/11785/11795/15275)
- 26 0036 R. Netherlands *Media Network*—special 48 minute edition with greetings from and discussions with listeners and results from the survey on the program's future. (6020/6165)
- 0109 HCJB *Studio 9*—"Christmas Music in the Andes" (9745)
- 0130 R. Austria Int. *Report from Austria*—seasonal features. (7325)
- 0145 BBC *The Sporting Year: A Personal View*—Harry Peart in conversation with *Daily Mail* columnist Ian Wooldridge. (5975/6175/9590)
- 0210 DW *DW Christmas Concert*—from St. Gereon Church in Cologne. (German service—6075/6100/6145/11785)
- 0230 BBC *Christmas in the Land of the Polar Bear*—a story set in a remote Polish village on Christmas Eve. (5975/6175/9895)
- HCJB *Inspirational Classics*—special readings and carols for Christmas Day. (9745)
- 0315 BBC *Sporting Echoes of '97*—the year's best interviews from Sports International. (5975/6175/9895)
- 0409 HCJB [see 0109]
- 0436 R. Netherlands [see 0036] (6165/9590)
- 0445 BBC *Off the Shelf—High Spirits* by Robertson Davies. "The Ghost Who Vanished by Degrees". (5975/6175)
- 0530 R. Austria Int. *Report from Austria*—seasonal features. (6015)
- 0630 R. Austria Int. *Report from Austria*—seasonal features. (6015)
- 0715 BBC *Off the Shelf—High Spirits* by Robertson Davies. "Dickens Digested". (5975/6175)
- 1130 BBC [see 0230] (5965/6195/15220)
- 1405 DW *300 Years of Russian Spiritual Music*—with the Royal Consort Vocal Ensemble of Belgrade-Bonn-Budapest. (German service—13790/17715/17765)
- 1605 BBC *Sportworld Extra*—second half commentary of a Boxing Day soccer match. (9515/17840)



- 26 2205 DW [see 1405] (6100/9545/9765/11785/11795/15275)
- 27 0445 BBC *Off the Shelf—High Spirits* by Robertson Davies. "Dickens Digested". (5975/6175)
- 1405 BBC *Sports Review of the Year*. (9515/9590/9740/15220/17840)
- 2230 BBC *Play of the Week: Nativity to Judgement*—Adrian Henri's modern adaptation of the medieval Wakefield Mystery plays. (5975/6175/9590)
- 28 0630 BBC [see 2230] (5975/6175)
- 29 0715 BBC *Off the Shelf—High Spirits* by Robertson Davies. "When Satan Goes Home for Christmas". (5975/6175)
- 30 0445 BBC *Off the Shelf—High Spirits* by Robertson Davies. "When Satan Goes Home for Christmas". (5975/6175)
- 0715 BBC *Off the Shelf—High Spirits* by Robertson Davies. "The Charlottetown Banquet". (5975/6175)
- 31 0445 BBC *Off the Shelf—High Spirits* by Robertson Davies. "The Charlottetown Banquet". (5975/6175)
- 0715 BBC *Off the Shelf—High Spirits* by Robertson Davies. "Offer of Immortality". (5975/6175)
- 1330 R. Austria Int. *Report from Austria*—seasonal features. (13730)
- 1505 DW *Tophits '97* (German service—13790/17715/17765)
- 2005 DW [see 1505] (German service—13790/17715/17765)
- 2200 VOA *New Year Call-In*—tentative. (to 0700/many frequencies)
- 2305 DW *Swing-Party* (German service—6100/9545/9765/11785/11795/15275)
- Jan.1 0105 DW *End-of-Year-Special*—looking back over the events of 1997. (6040/6085/6145/9640/11810)
- 0130 R. Austria Int. *Report from Austria*—seasonal features. (7325)
- 0305 DW [see 0105] (6085/6185/9535/9615/9640)
- 0445 BBC *Off the Shelf—High Spirits* by Robertson Davies. "Offer of Immortality". (5975/6175)
- 0505 DW [see 0105] (5960/6045/6185/9615)
- 0530 R. Austria Int. *Report from Austria*—seasonal features. (6015)
- 0630 R. Austria Int. *Report from Austria*—seasonal features. (6015)
- 1015 R. Austria Int. *New Year's Concert*—live from the "Grosser Musikvereinssaal" in Vienna. Music by Johann, Josef and Eduard Strauss and Helmesberger conducted by Zubin Mehta. (6155/13730\*/15455/17870) \*better after 1100
- 1330 R. Austria Int. *Report from Austria*—seasonal features. (13730)
- Jan.2 0036 R. Netherlands *Media Network*—another 48 minute special. (6020/6165)
- 0130 R. Austria Int. *Report from Austria*—seasonal features. (7325)
- 0436 R. Netherlands [see 0036] (6155/9590)
- 0530 R. Austria Int. *Report from Austria*—seasonal features. (6015)
- 0630 R. Austria Int. *Report from Austria*—seasonal features. (6015)
- Jan.6 1330 R. Austria Int. *Report from Austria*—seasonal features. (13730)
- Jan.7 0130 R. Austria Int. *Report from Austria*—seasonal features. (7325)
- 0530 R. Austria Int. *Report from Austria*—seasonal features. (6015)
- 0630 R. Austria Int. *Report from Austria*—seasonal features. (6015)

Also, check your time charts and try to tune around the world as each nation and time zone rings in the New Year. Until January, good listening!



# Listener's Library

T. J. "Skip" Arey N2EI

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Well here we come to the holiday season. With the sunspot cycle finally picking up I'm sure a lot more listening is getting done these days. And of course now is the time to finalize your plans for *Kulpsville 1998*. I hope you plan to come out and help us start the next decade of this grand radio hobby tradition.

Christmas came a little early for Old Uncle Skip in the form of a box of great books from the American Radio Relay League. Yeah, I know, in spite of my nearly constant harping on the subject here, in *Monitoring Times* and in *American Scannergram*, there are still one or two folks out there who haven't become licensed radio amateurs. Well don't forget that non-hams can get a lot of great radio information by keeping a eye on the amateur radio press. Dollar for dollar, ARRL publications are hard to beat for hard information. They have also entered the computer publishing age with some CD based periodicals as well as line of useful programs. Lets take the *Kulpsville 98* scenario to its full potential with a few of these publications.

## *TravelPlus for Repeaters™*

*1997-1998 Edition*

CD-ROM

\$39.95

The American Radio Relay League

225 Main Street

Newington, CT 06111-1494

1-888-277-5289

Okay, you're planning to drive into Kulpsville this year from your personal little corner of the world. If you are an amateur radio operator (or a dedicated scannist with a receiver that covers the VHF/UHF etc. hams bands) you may want a source for any repeater stations that can be used along the route. The old, and somewhat tedious method of figuring this out, involved a copy of a repeater guide (such as the ARRL's own annually published Re-

peater Directory) and a pile of road maps that cover the area of travel. This is particularly a load of work if the trip is long and it follows a route that you don't use every day. This problem is compounded if you do a lot of traveling outside of your local area. Taking full advantage of modern computer technology coupled with a complete data base of repeater information and mapping software, you've got *TravelPlus for Repeaters™*.

To run the program you will require at least a 386DX / 25 MHz processor supported by a Math coprocessor but a 486DX or Pentium is preferred. You'll need at least 8 Megs of memory but 16 Megs are preferred. The program needs 4 megabytes of free hard disk space to set up and run. The program is runs only in the Windows™ 3.1 or better environment. You'll need to support Windows™ 640x480x256 graphics mode. Of course a CD-ROM drive and a mouse or equivalent pointing device rounds out the hardware requirements. Sorry, this program leaves DOS and Mac folks out of the picture. I still appreciate that it does not require a 3 kilobuck "bleeding edge" machine to run. You could build up a computer that would support this program for under \$200 if you sort through the piles under the tables at hamfests.

Installation is simple. Enter Windows™ and run the setup program from your CD-ROM drive. The manual has only four pages of text and two graphics and to be frank it is more than you will need to figure out how to use *TravelPlus*. In a nut shell, use the mouse to mark two or more points on the map along your route from launch to destination, select the frequencies and bands your interested in, hit the "Create List" button and you get a nice collection of places to tune your transceiver or scanner while you travel. Several pull down menus and screens allow you to further fine tune the data sort and management process.

Right out of the package I did a path along the route I drive to work and found 63 accessible 2 meter and 70 centimeter repeaters to throw my call out to. The route from my humble home to the next Kulpsville gathering came up with 71 machines (I'm fairly close). The all important annual trek to Sandbridge Virginia for male bonding with The Scanner Scum and "strike team" operations with The Burkey Boys selected 117 repeaters. All three lists were sorted saved to disk and printed out in under ten minutes. This is too easy. You can also forgo the map system and just sort through the data base directly.

The data file storage method is proprietary and can't be directly translated into other database programs or scanner/transceiver management programs. It would be neat to just upload the data into a programmable handheld. I'd love to fast load my Yaesu FT-50R like I load my AOR AR-8K from the Percon CD-ROM. This is not so much a criticism as a request for a future feature.

The program is about a goof proof as any I've tried and I am known for being a bit of a bull in a china shop when I'm playing in Windows™. If you are and ham and you go on the road even a few time a year. This program is a great time saver.

Okay you've got your ham ticket and you've got TravelPlus so you know what you can hear. But you really need a transceiver to get in on the action. Maybe you are a brand new "No-Code" Technician class or, like me you haven't upgraded your 2 meter gear since Reagan was in the White House. Before you succumb to the razzle dazzle of the magazine ads, take a look through

***The ARRL VHF/UHF Radio Buyer's Sourcebook***

**Compiled by Rich Roznoy K1OF**

**\$12.00**

**The American Radio Relay League**

**225 Main Street**

**Newington, CT 06111-1494**

**1-888-277-5289**

The short take on this text is that it is a comprehensive compilation of VHF/UHF product reviews taken from the pages of QST magazine from between 1990 and 1997. Between its covers are full reviews with lab testing on 33 handheld and 52 Base/Mobile transceivers covering 6 meters and higher frequencies. These are set up in comparison groups of similar units to make the investigation process much easier. Also included are comparison reviews of antennas and amplifiers.

This book was of great personal use because I upgraded my mobile and handheld equipment to modern "dual-band" transceivers recently. I'm sure I got more than the cover price back in value and savings in picking my new rigs. And it sure beat the pants off of trying to dig through many years of equipment reviews in my QST stacks.

While I was in the market for new radios, this guide would be a great tool for anyone wading through the used market. It's much easier to make an informed decision at the hamfest tables when you have a book like this in your back pocket.

For those of you not familiar with the QST review product review format, equipment is subject to laboratory testing for published specifications. The claims and the facts are displayed side by side. Equipment is also examined for spectral purity and the QST staff pulls no punches. They are also known to contact the manufacturer to get explanations for any anomalies on the record. Radios are further evaluated for ergonomics and are put to use in real world situations to give their reader the best possible picture of what they are getting for their hard earned cash. I wouldn't buy a piece of ham gear today without first seeing what "The League" had to say about it.

If you in the market for a transceiver to "talk-in" to Kulpsville with the rest of us ham oriented monitors. Check this book out before you buy.



# Equipment Reviews

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## The MFJ-1026 Deluxe Noise Canceling Signal Enhancer

The MFJ-1026 is an antenna combiner that allows the user to adjust both the phase and amplitude of the signals received from two antennas. This capability allows the listener to reduce undesired noise and interference or, alternatively, peak the desired signal. The '1026 is similar to units offered by JPS and the English firm, S.E.M. The advantage of such units is that noise reduction occurs before the antenna input of the receiver, preventing AGC overload and receiver desensitization from strong noise signals. Unlike conventional noise blankers this approach to noise reduction does not introduce distortion, is effective on more types of interference and can be used when the noise signal is stronger than the desired signal. Unlike the JPS ANC-4, the MFJ unit allows the user to adjust the gain of both the "Main" and "Noise" antennas, which is useful when using the units to peak a desired signal. The MFJ-1026 also has a phase inversion switch to permit instant switching between peaking and nulling. The owner's manual also states the following benefits for the '1026—"exceptional phase amplitude flatness, making adjustments easy and very repeatable. Typical phasing systems provide either limited phase adjustment range, or change the signal's level as phase is adjusted. In the MFJ-1026, gain changes are less than 3 dB (and typically less than 1 dB) as the phase control is rotated throughout its range." Null depths of up to 60 dB are claimed for the unit.

The MFJ-1026 can be used with a transceiver as well as a receiver. The unit has a built-in amplified whip antenna which can be used as the auxiliary antenna (although the manual states that in most cases, an

external auxiliary antenna will yield the best results). The MFJ-1025 is similar, but lacks the built-in whip and active antenna circuitry.

### The Circuit

The MFJ-1026 consists of a noise amplifier, bridge-type phasing circuit, active combiner and transmitter change over relay. Internal jumpers configure whether or not the internal whip is active and the gain level for the external antenna. The stated frequency range of the '1026 is from mediumwave up to the lower VHF frequencies. The power requirements are 12–15 volts DC at approximately 150 milliamps.

### The Box

The MFJ-1026 is housed in a black box measuring  $6\frac{1}{4}$  x  $1\frac{1}{4}$  x  $6\frac{1}{2}$  inches. There is a hole in the top of the cabinet for the whip antenna to screw into the circuit board. The whip measures 20 inches when fully extended. Across the back panel are SO-239 connectors for the main antenna and output to the radio. The auxiliary antenna may be connected either through a SO-239 or via a RCA jack. There is an additional RCA jack for a relay control line from a transceiver, a 2.1 mm coaxial jack for DC power and a ground stud.

The front panel has knobs for setting the delay time for the transmit/receive relay, adjusting the gain for the Main and Auxiliary antennas and adjusting the phase. There are pushbuttons for On/Off, Pre-amp selection, Frequency range and Phase invert. Depend-

ing on the setting of the internal jumpers, the Pre-amp switch either selects between the internal whip or an external antenna or permits defeating the amplifier with an external auxiliary antenna. The Frequency range switch is set to low for frequencies below 7 mHz or high for frequencies above 12 mHz. Between 7 and 12 mHz, either setting may be used. There is a red LED "power on" indicator at the far right of the front panel.

## Operation

The MFJ-1026 inserts between the receiver's input and the main station antenna. Power can be supplied by just about any 12 volt source, but the MFJ-1312B power cube is available for an additional \$12.95. The noise antenna is probably worth spending some time experimenting with. Certainly the built-in whip can be used (unless you opted for the whipless 1025), but it's worthwhile to try different options. I'm using about 15' of wire run up the side of the house adjacent to the shack, which I chose because it's relatively close to my local noise sources and is vertically polarized, which is supposed to enhance noise reception. An antenna that provides too much signal can overload the unit and cause spurious responses, as I found out when I used my 120' random wire as the noise antenna for frequencies in the 3 mHz range.

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There has been some excitement in the medium-wave DX'ing community about the capability of the '1026 as an antenna phasing unit to reduce co-channel interference.

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The instructions in the manual are relatively straight forward, including information on using the '1026 with a linear amplifier and as a phasing unit to combine two antennas to achieve an electrically steerable array to vary antenna directivity. The basic adjustment procedure is fully outlined in the instructions, but does take some practice in implementation. The instructions advise starting by practicing nulling out local MW stations, since they have stable groundwave signals with no fading. Once this is mastered, proceed to trying to null noise and interfering signals.

Maximizing the effectiveness of the MFJ-1026 (or any other similar unit) takes a great deal of time and patience. This unit is not a simple "pushbutton" device which will magically take out noise. It can be very effective — in my case, I was impressed by the job it did on some low-voltage lighting in the kitchen that generates wide-band hash (beware of these lights if you ever remodel!) However, I also found that sometimes the results are difficult to reproduce. Also, there is a large degree of interaction between the controls and knob-twiddling is a necessity.

There has been some excitement in the medium-wave DX'ing community about the capability of the '1026 as an antenna phasing unit to reduce co-channel interference. For best MW performance, some internal circuit modifications need to be made to improve the sensitivity of the unit in this frequency range. These modifications are outlined in the September 22, 1997 *DX News*, the publication of the National Radio Club and should also be available via the Internet.

The MFJ-1026 is a versatile unit, but it does have a learning curve. Fortunately, MFJ offers a 30-day money back (less shipping) return policy for units purchased directly from them. The warranty against defects is for twelve months. The '1026 lists for \$139.95. The MFJ-1025 may be the better value at \$20 less, especially if you have the capability to use something besides a whip as the noise antenna. MFJ Enterprises' address is P. O. Box 494, Mississippi State, MS 39762; (601) 323-5869; [www.mfjenterprises.com](http://www.mfjenterprises.com). Thanks to Universal Radio for providing the review unit. 

# Listener's Notebook

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OH MY... has another year really come and gone? Guess it's time once again to express my continuing thanks to all the terrific people who help provide the info I harvest in this space every month. And to them and everyone reading this, best wishes for the holidays and a '98 filled with super DX!

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## ALBANIA *Radio Tirana* W97 sked:

0000-0600	Albanian	6090 7270
0245-0300	English	6115 7160
0330-0400	English	6140 7160
0400-2300	Albanian-HS	6100
0800-1100	Albanian	7270
1500-1800	Albanian	5985 7270
1800-1830	Italian	6015 7155
1830-1845	Turkish	5985 7155
1845-1900	Greek	5985 7155
1845-1915	German	6080 7120
1900-1915	Serb/Croat	6015 7110
1915-1945	French	6180 7240
1945-2000	English	6025 7135
2000-2300	Albanian	6170 7270
2200-2230	English	6025 7135

(Visser-BEL/DX-Antwerp website)

**ANGOLA** 3374.9 *Radio Nacional de Angola* 1926, ID in F preceded by jazz pops. (20-Nov/Norrie/DSW-CI DX Window/Veldhuis-HOL)

6220 *VORGAN* 2010 pop music program, occasional echo-chamber anncnt mentioning Angola. Anncr said "Boa Noite" 2053, echo-laden W said "Boa Noite, Angola" over Elton John song, then canned "VORGAN" intro to nx 2056; Theme 2059. March/anthem at signoff that matches South Africa's national anthem, as noted by Korinek. Gone 2101. New frequency replacing 5985? (5-Nov/Novello-NC) [It would seem-AQ] mentions of Jamba. English news bulletin at 1841-1848 that day. Listened also on a Sunday, but no English then. Maybe only on certain days? (12-Nov/Fransson/DSWCI DX Window/Veldhuis-HOL) 1837 English Program noted until 1857 (20-Nov/Vaghjee-MAU/DSWCI DX Window/Veldhuis-HOL)

7100 *VORGAN* 1730-1805, VV fast talking, happy sounding M announcer. Angola, Unita, Cabinda mentioned several times. (31-Oct/Clemitsen/DSWCI DX-Window/Stienstra-HOL) 2000-2102\*, also heard 9770 at 05.00 with weak reception. (31-Oct/Vaghjee-MAU/DSWCI DX-Window/Stienstra-HOL)

**ARGENTINA** New on 15280 is *Radio America Internacional*, heard testing +2252-2335+ DXer Jose Mauricio Rangel Neira-COL. During the programs in Spanish, announcer Jose Holowaty (ex-KGEI) mentioned "imperioso reporte de prueba por la onda corta," "el telefono en Estados Unidos, area de la Bahia de San Francisco: 650-347-1587," "en Buenos Aires, nuestra senal 6295730," "fax 650-3476320 zona de la Bahia de San Francisco, "Radio America Internacional en fase preliminar de pruebas a nivel continental" "La misma voz que fue La Voz de la Amistad" (24-Oct/Neira-COL/Barrera-ARG) After receiving the above info, Barrera called the Buenos Aires number for more info. Station plans regular programming in the next few weeks, with around 16 hours daily, mostly Spanish, but including 1 or 2 hours in English, with Portuguese to be added later on. Transmitter is located in the General Pacheco area of Argentina. Although capable of higher power, they're running only 30kW, which they consider sufficient due to a decent antenna system. This not is the same transmitter or antennas from the ex-Radio Nacional de Chile on SW, according to Mr. Holowaty, the negotiations in Chile having come to naught. The station has mailing addresses in San Carlos, California, and in Argentina (Intendente Abel Costa 289, 1708 Moron, Argentina). (15-Nov/Barrera-ARG)

3200.37H *Radio Armonia*, Tres de Febrero, 0856-0910 p w/QRM Korean fisherman on 3200.52. Light mx and M talk, 0859 W ID "Radio Armonia" by W voice. Don't confuse with Radio 9 de Abril which has been inactive for years. (16-Nov/TIN/Relampago DX)

8098U *Radio Continental*, Buenos Aires, 0720-0900 fair signal, oldies mx program "Algo para Recordar," every 30 minutes news flash "Informativo Continental." (26-Oct/TIN/Relampago DX)

**ARMENIA** 4810 *R. Yerevan* 1525 Armenian songs, 1530 ST and ID in Azeri and RR "Govorit Yerevan" (29-Oct/Elsebusch/DSWCI DX-Window/Stienstra-HOL)

9965 *Voice of Armenia* 2045 in GG, opening identification as "das ist Eriwan—hier Nationales Radio Armeniens—hier Stimme Armeniens," schedule announcement as "von drei Viertel 21 bis ein Viertel 22 Uhr," means simply 2045–2115. Usual powerhouse (1000 kW) signal //4810. Additional outlet on Sundays only announced as 0930–1000 on 4810 and 15270. (31-Oct/Ludwig/DSWCI DX-Window/Stienstra-HOL) 9965 *Voice of Armenia* has changed their schedule to 2115–2145 (ex-2130–2200). I noted them on this sked Nov. 5 & 6. Signal is good. (Sellers-ONT)

**AUSTRALIA** The old *Radio Australia* Darwin transmitters will not be used by Radio Free Asia for transmissions into China, Cambodia and the southeast Asian sub-continent. This was announced yesterday by Australia's Foreign Affairs Dept. Reasons cited were both technical as well as political: Technical—because it concerned a 3-month trial period. Since the transmitters had been mothballed, recommissioning them for such a short period would not have been "cost-effective." Political—such transmissions by US-based propaganda were deemed to be "not conducive" to Australia's interests and good relations with China and "inappropriate" for other parts of Asia. (8-Nov/Speekman-AUS/WWDXC Topnews/Bueschel-FRG)

**BANGLADESH** *Bangladesh Betar*, Khabirpur, 4880.00 1540 English news about Bangladesh (7-Nov/Schaay-HOL)

**BELARUS** 4982U UNID 1525 relay *Radio Mayak*, M talk in RR, 1526 ID "Radiostanzya Mayak" (28-Oct/Elsebusch/DSWCI DX-Window/Stienstra-HOL)

**BOLIVIA** 4549.44 *Radiofusoras Tropico*, Trinidad, Beni, 2305 comunicados read by woman, punctuated by occasional ads. Ended 2332, followed by multiple IDs simply as "Tropico." (8-Nov/Novello-NC)

4682.3 *Paititi Radiodifusion* (t), Guayamerin, Beni, 2345 comunicado after comunicado by M. (8-Nov/Novello-NC)

4719.8 *Radio Abaroa*, 2334, Back on usual fq, ex-4720.2 (19-Nov/Klemetz/DSWCI DX Window/Veldhuis-HOL)

4945.02 *Radio Illimani*, La Paz, 0908–0921 p signal, non stop highland folklore. (16-Nov/TIN/Relampago DX)

4964.99 *Radio Juan XXIII*, San Ignacio de Velasco, 1003–1015 f, M vocal ranchera. (16-Nov/TIN/Relampago DX)

9624.9 *Radio Fides* 2350–2355 S M and W talks about different types of tropical music. //4845 (29-Oct/Van Arnhem/DSWCI DX-Window/Stienstra-HOL)

**BRAZIL** 17814.91 *R. Cultura Sao Paulo*, 2215 quiet and pretty Brazilian music, //9615.02. Nice signal. (1-Nov/Novello-NC)

**BULGARIA** *Radio Sofia* observed on unlisted NF 7515 with Bu to Balkans 2045, // 5865. Apparently a change from planned 7335 where unheard. (19-Nov/Padula-AUS/EDXP)

**BURKINA FASO** 4815 *Radio Burkina* 2315–0010\* English bible program (31-Oct/Vaghjee-MAU/DSWCI DX-Window/Stienstra-HOL)

**CAMBODIA** 11940.35 *National Voice of Cambodia* 1308–1313\* western + Cambodian pop music, followed at 1313 with W speaker in Vietnamese with clear mentioning of Cambodia and s/off. (1-Nov/Van Rooy/DSWCI DX-Window/Stienstra-HOL) \*2357. Carrier came on, but then no audio whatsoever till 0030, when woman's voice could be only faintly discerned. (15-Nov/Hill-MA)

**CANADA** Concerning *RCI* and the W97 schedules, the updating concerns only the 0300–0400 programming to the Caribbean, which will continue to be Canadian Forces Network programming on Tue-Sat (6155, 9755, 9780). You may note that the 0600–0700 CFN block is listed both under English and French for the whole hour. Although it's now 30 min EE/30 min FF, CFN is reserving the right to alter that balance should the need arise.

One change from the printed schedule concerns the 2230–2300 Mon-Fri programming in French. Instead of being a relay from the dom SRC network, this slot is filled with an RCI-produced program entitled "Canada Ce Soir." It's a nx & magazine program, especially intended for Canadians living or travelling abroad. (31-Oct/Westenhaver/RCI/EDXP/WWDXC Topnews/Bueschel-FRG) CHILE The following, is a recently obtained information about the

**CHILE** Stations currently are operating on the SW frequencies. This news have been obtained during my recent trip to this country. All transmissions are in Spanish language, except indications.

*Radio Santa Maria* Coyhaique (// 840 khz MW) 6029.6 khz, 10 KW, Mon-Sat 0900–0300 (-0300 Sun), Sun 1000–0300 (-0300 Mon). This station relays *Radio Chilena* (MW 660 khz) programs Mon-Sat 0900–1000, 1640–1800, 2200–2230, Mon-Sun 0200–0230, Sun 1100–1130 & 1600–1630. During soccer events relays on Sun only from 2000+.

*Radio Patagonia Chilena* Coyhaique. (// 970 khz MW) 6080 khz, 1 KW, Mon-Sat 0900v/0930v-0300 (-0300 Sun), Sun 1000–0200 (-0200 Mon). This station currently is with serious economic problems and his SW transmissions are with irregularity. This stn not relay more to *Radio Portales* (1180 khz MW in Santiago), and the stn currently relays programs from the FM station *Radio Zero* from Santiago taking his signal directly from the satellite.

*Radio Esperanza* Temuco. 6090 khz, 10 KW, Mon-Fri 24 hours (except cuttings between 2000–2230 currently) but during the next summer they

will broadcast 24 hs. Sat- Sun 24 hours. English daily 0630-0700 except Sats. GERMAN Sun only at 1130-1200 hours.

**Radio Triunfal Evangelica** Talagante. 5824.9v khz, 0.05 KW, Daily 2100v-0000v except Thu & Sun. Heard w/good signal on 21/10/97 between \*2131-0008\* w/gospel programs. (Barrera-ARG)

**CHINA Fujian People's Broadcasting Station**, Fuzhou, broadcasts in Chinese (Fuzhou dialect):

0000-1600 5040 4975 2340  
2155-2400 5040 4975 2340

(BBCM)

**Guizhou People's Broadcasting Station** ("Guizhou Renmin Guangbo Diantai")

0000-0600 Chinese 7275 3260  
0850-1605 Chinese 7275 3260  
2210-2400 Chinese 7275 3260

(BBCM)

**Xinjiang People's Broadc. Stn**, Urumqi, 5060.10, 1550 songs, 1600 pips, M speaker in presumed Mongolian (8-Nov/Schaay-HOL)

**CLANDESTINE—AFRICA** 6210 **Radio Fana**, 0410, local talk and mx, // 6940. Really good signal, but occasional bubble jammer. (13-Nov/Novello-NC)

**Voice of Free Nigeria**

1900-2000 English/Multi 11715 Sa

(BBCM) noted strong on 1 and 8 Nov (Alexander-PA)

**Voice of Free Eritrea** (Arabic "Sawt Eritrea al-Hurrah," Tigrigna "Demtsi Natsa Eritrea") is the mouthpiece of the Eritrean National Alliance, an umbrella organization including the Eritrean Liberation Front, Eritrean Islamic Jihad and the Eritrean Liberation Front—National Council, all of which are opposed to the Eritrean government.

1415-1445 Arabic/Tigrigna 9230

(BBCM)

5500 **Voice of the Tigray Revolution**, \*0355 solo string instrument IS for five minutes; 0400 M with echo announcement, short instrumental theme, W spoke a few words, then guitar theme and into what sounded like news. //6315 also good, but 5500 was better. (6-Nov/Novello-NC)

**Voice of Truth** (Arabic: *Sawt al Haqq*) supports the Eritrean Islamic Jihad Movement and is hostile to the government of Eritrea.

1500-1545v Arabic 9230

(BBCM)

**CLANDESTINE—ASIA** 5901.7 (5091.7?) **Voice of Kashmir Freedom** \*1529-, poor signal, in Kashmir. Opening music & ID "Ye Seda-i Hurriyat-i Kashmir he," Qur'an recitation. (8-Nov/Nishikawa/WWDXC Topnews)

5407.15 **Radio of the Provisional Government of National Union and Salvation of Cambodia** (t), 1150, talk and delicate W vocal mx. Occasional SSB traffic QRM. Submerged under the noise floor by 1210. (22-Nov/Novello-NC)

4120.05 **Voice of the National Salvation**, Haeju (North Korea), 1413 Korean W speaker followed at 1415 by pop music with Korean W songs, at 1417 short W announcement followed by popmusic with Korean W songs, at 1422 M speaker. // 3481, 4450.03. (23-Nov/van Rooy/DSWCI DX Window/Veldhuis-HOL)

**CLANDESTINE—MIDEAST** **Voice of Iraqi Kurdistan** (Kurdish: *era dangi kurdistana iraqiya*; Arabic: *sawt kurdistan al-iraq*, *sawt al-hizb al-dimuqrati al-kurdistani al-iraqi*) broadcasts in support of the Kurdistan Democratic Party (KDP) led by Mas'ud Barzani.

0345-0500	Kurdish	4060v
0500-0600	Arabic	4060v
1645-1800	Kurdish	4060v
1800-1900	Arabic	4060v
1900-1930	Kurdish/Arabic	4060v

(BBCM)

**Voice of the Iraqi People** (Arabic: *idha'at sawt al-sha'b al-iraqi*, *idha'at al-hizb al-shuyu'i al-iraqi*):

0400-0500 Arabic 4755v 3855v  
1830-1930 Arabic 4755v 3855v

(BBCM)

7295 **Voice of the Islamic Revolution in Iraq**, 0500-0527\* with clear VOIRI Tehran one interval signal at the end of transmission. Also on Nov. 21, 0350 //6195 and 9610. (19-Nov/Timofeyev/NERRS Mon/DSWCI DX Window/Veldhuis-HOL)

5670.03 **Voice of the Mojahed**, 0254 M in non-AA language, then bubble jammer attacked frequency seconds later. Through the bubbles, could hear typical spelling of addresses in English letters and long phone numbers being read using English numbers, just like on 9564.95 July 17. Station bounced back and forth between 5620, 5660 and 5670 to avoid roving jammer, rarely spending more than a few minutes on any frequency. (5-Nov/Novello-NC)

**Voice of the People of Kurdistan** (Kurdish: *"aira dangi gelli kurdistana"*, Arabic: *"sawt sha'b kurdistan"*) supports the Patriotic Union of Kurdistan (PUK) led by Jalal Talabani. Approximate sked:

0400-0700	Kurdish/Arabic	4100v
1030-1330	Kurdish/Arabic	6030v
1400-1700	Kurdish/Arabic	6030v (4079.8)

(BBCM)

4095 **Voice of the People of Kurdistan**, 2110, talk by man followed by a Patriotic Song "Kurdistan Kurdistan...Sar Zamin Azadi [Motherland is free] and New (Khabre)" then song and talk, anthem and s/off at 2128\*. Fair reception (22-Nov/Vaghjee-MAU/DSWCI DX Window/Veldhuis-HOL)



**COSTA RICA RFPJ** new sked:

0000-1200 6980U 7385  
 1200-1700 7385 21465  
 1700-2200 15050 21465  
 2200-2400 7385 15050 21465U

(15-Nov/Vissers-BEL/EDXP/Padula-AUS)

**CUBA** 13605U is new to Europe from **Radio Habana Cuba** 2030-2130, ex-13725. Also, 6180 has been added at 0500-0700 in English, //9820 and 9830-USB (Hauser-OK)

**ECUADOR** 4815 R. *El Buen Pastor*, Saraguro, presumed 0304\*. Andean musical selections with low-modulation M announcer. Signoff anmt buried by roving jammer, followed by Ecuadorian anthem and off. Explicit ID on this one has eluded me for a while now. (2-Nov/Novello-NC)

**ERITREA** 4999.96 *V.O. Broad Masses of Eritrea*, 0345-0400, For once stronger than //7085 with local songs. Fair (17-Nov/Krone-DEN/DSWCI DX Window/Veldhuis-HOL)

**ESTONIA** Radio Estonia

0815-0900 Finnish 5925  
 1600-1615 Finnish 5925 Mo-Fr  
 1615-1630 English 5925 Mo-Fr  
 2000-2030 English 5925 Mo  
 2030-2045 Esperanto 5925 Tu

(BBCM)

**FRENCH POLYNESIA** Despite constant monitoring, I was not able to hear *RFO Tahiti* on 15170v, at any time! This does not imply that it is not operating, but there was certainly no signal audible at western Moorea, about 50 km from the transmitter site. (6-Nov/Padula-TAHITI)

**GEORGIA** 6230 R. *Georgia*, \*2030, After Tashkent s/off at 2024 and what seemed a gospel station closed at 2030, Tbilisi finally alone on the channel opening Russian with several "Radiostantsiya Gruziiya" IDs and into news. Fuzzy audio characteristic of all Tbilisi transmitters these days. This channel apparently replaces 11760. (15-Nov/Hill-MA) Observed 2030-2100\* on 6230 with Ru (19-Nov/Padula/EDXP/Padula-AUS)

6290 *Voice Of Hope* 1805, M with syndicated religion, very loud hum/buzz on transmission. Gave address in England and announced frequency as 9310kHz. (26-Oct/Ormandy/DSWCI DX-Window/Stienstra-HOL)

*Voice of Hope*, High Adventure Ministries: Planned sked for W97 has been varied, for Tbilisi. New sked is:

1400-1630 English 12120 (to India)  
 1630-2200 English 6290 (to Europe)

The Indian service is known as "The Voice of Hope Indian Beacon;" the European service is "The Voice of Hope European Beacon." Reception reports for the Beacon Network should be sent to: PO Box 109, Hereford Hr4 9XR United Kingdom. Reports for other Voice of Hope programs should be sent directly to the sites in Palau (KHBN), California (KVOH), and Lebanon. (High Adventure Ministries/Bob German—George Jacobs and Associates/HFCC/Padula/EDXP/Padula-AUS)

**GUAM** *KSDA* noted on NF 9515 with Vietnamese \*2200. (18-Nov/Padula-AUS/EDXP)

*KTWR* observed on NF 15195 with Indonesian \*2200. (18-Nov/Padula-AUS/EDXP)

**GUATEMALA** 2360 R. *Maya de Barillas*, Huehuetenango, 0330 Latin dance music and ballads, ads and promos, M & F DJ chatter. Professional sound, nothing rustic about tonight's programming. ID by W 0359. (7-Nov/Novello-NC)

2390.08 *La Voz de Atitlan*, Santiago Atitlan, 0221 LAm vocal at unusually good level. Just a carrier, however, on 2360. (10-Nov/Clark-ONT)

4779.73 *Radio Cultural Coatan*, San Sebastian Coatan, 1200-1206 f, Musica folklore, then M canned ID "TGCT Radio Cultural Coatan 4780kHz onda corta banda de 60 metros difundiendo desde San Sebastian Coatan, Huehuetenango, Republica de Guatemala, Centroamerica." (25-Oct/TIN/Relampago DX)

4799.98 *Radio Buenas Nuevas*, San Sebastian Huehuetenango, 1220 marimba mx (25-Oct/TIN/Relampago DX)

4824.93 *Radio Mam*, Cabrican, 1206-1220 f/p signal, Musica Ranchera and Mtalk in Mam. At 1212 ID was given as "...TGMN Radio Mam 4825MHz banda de 60 metros...Guatemala, Centroamerica." by M. (25-Oct/TIN/Relampago DX)

**ICELAND** 9260U *Rikisutvarpid*, 1851, here instead of listed 9275 with vocal ballad and usual Icelandic talk; also // 11402 instead of listed 7735. (19-Nov/Hill-MA) [so much for last month's sked...AQ]

**INDIA All India Radio** W97:

0000-0045	English-GOS	11620 9950 9705 7410
0000-0045	Tamil	13795 11740 9910 9835
		4790
0015-0430	Urdu	11620 9595 6155
0100-0130	Burmese	11870 9950
0100-0200	Sindhi	11790 7125 5990
0130-0200	Tibetan	13700 11900 9565
0130-0228	Nepali	11715 9550 7250 6045
		3945
0215-0300	Pashto	13620 11735 9910 7225

0300-0345	Dari	13620 17375 9910 7225	3223.0	<i>RRI Mataram</i> (p) 1520 vy weak, sounded to be lagu pops. (8-Nov/Atkins-WA/NU/Jembatan DX/Yamada-JPN)
0315-0415	Hindi	17387 15180 15075 11855		
0400-0430	Persian	17785 15050 13620 11730		
0415-0430	Gujarati	17387 15075	3231.8	<i>RRI Bukittinggi</i> 1550 music, 1600 Jakarta news, then song again. (2-Nov/Mola-ITL/Jembatan DX/Yamada-JPN)
0430-0530	Arabic	17785 15050 13620 11730		
0430-0530	Swahili	17387 15075		
0700-0800	Nepali	11850 9595 7250	3249.8	<i>RRI Banjarmasin</i> (p) 1024 dangdut music program. Poor. (2-Nov/Yamada-JPN/Jembatan DX)
0830-1130	Urdu	11620 9595		
0845-0945	Indonesian	17387 15050		
1000-1100	English-GOS	17840 17387 15050 13700 11735 11585 1053	3264.67	<i>RRI Gorontalo</i> (t) at 1115, program of non-stop pop music, mostly melodic W vocals. Faded away by 1150. (22-Oct/Novello-NC)
1115-1200	Thai	17895 15340		
1115-1215	Indonesian	13710		
1145-1315	Chinese	17705 15050 11840	3384.8	<i>RRI Kupang</i> Local pops at 1350. At 1400 IS, then M ID as "Radio Republik Indonesia Kupang dengan Warta Berita Antar Kabupaten..." and local news. Fair to poor. (15-Nov/Yamada-JPN/Jembatan DX)
1215-1245	Telugu	15770 13710		
1215-1315	Burmese	11710 11620		
1215-1330	Tibetan	11695 9565 7410		
1230-1500	Sindhi	11585 6165		
1300-1500	Sinhala	15020 9700		
1315-1415	Dari	9910 7140	3395.1	<i>RRI Tanjung Karang</i> , 1526-1536, Non-stop ballads, W speaker in Indonesian at 1535 with tentative ID. (22-Nov/Veldhuis/DSWCI DX Window/Veldhuis-HOL)
1330-1430	Nepali	11695 7410 6045 4860 3945		
1330-1500	English-GOS	13710 11620 9545		
1415-1530	Pashto	9910 7140	3646.2	<i>RRI Fak Fak</i> (p) Jakarta news relay at 1505. Sometimes covered by Ham stations. At 1515 Jakarta news was already finished and M talk from own studio was heard. Poor. (2-Nov/Yamada-JPN/Jembatan DX)
1430-1930	Urdu	6045 4860		
1500-1530	Tamil	17860		
1500-1600	Baluchi	11585 6165		
1515-1600	Gujarati	15175 11620		
1515-1615	Swahili	15075 13720 9950		
1615-1715	Russian	15140 11620		
1615-1730	Hindi	15075 13720 9950	3905	<i>RRI Merauke</i> 2005, Love Ambon, M speaker in BI ID as Radio Republik Indonesia Merauke (25-Oct/Van Rooy/DSWCI DX-Window/Stienstra-HOL) 1959 SCI followed at 2000 by Warta Berita. (22-Nov/van Rooy/DSWCI DX Window/Veldhuis-HOL)
1615-1730	Persian	11585 9910 7265		
1730-1945	Arabic	13620 9910		
1745-1945	English-GOS	15075 13780 11935 11620 9950 9650 7410	3959.7	<i>RRI Padang</i> (p) at 1903. All times relayed from RRI Jakarta. Still heard at 2100. Poor. (7-Nov/Yamada-JPN/Jembatan DX)
1945-2030	French	13780 13620 9910		
1945-2045	Hindi	11620 9950 7410		
2045-2230	English-GOS	11715 11620 9950 9910 9650 7410 7150	3976.0	<i>RRI Pontianak</i> *0955 IS. 0957 non-stop music. 1004 opening announcement by W including ID as "Radio Republik Indonesia Pontianak" then English pops. Fair. (1-Nov/Yamada-JPN/Jembatan DX)
2245-2400	English-GOS	11620 9950 9705 7410		
2300-2400	Hindi	13795 11740 9910		
(BBCM)				
<b>INDONESIA</b>				
2580.5	<i>RSPDT2 Timor Tengah Selatan</i> (p) At 1245 W talk and local pops. At 1301 suddenly switched to Jakarta news relay. The signal was already heard at 1130. Poor. (2-Nov/Yamada-JPN/Jembatan DX)		3976.3v	<i>RRI Surabaya</i> 1050-1145. Popular music, F clear ID @1058. (4-Nov/Schulze-PHL/Jembatan DX/Yamada-JPN)
2899.4	<i>RPDT2 Ngada</i> Local news by W at 1107. 1110 ID by W, then talk. Poor. (2-Nov/Yamada-JPN/Jembatan DX)		3976.42v	<i>RRI Surabaya</i> (p) 1150-1340 strong splatter GRM from RRI Pontianak/3976. Very weak to weak. (31-Oct/Schulze-PHL/Jembatan DX/Yamada-JPN)
2960.2	<i>RPDT2 Manggarai</i> 1310 local pops program. Very weak. (2-Nov/Yamada-JPN/Jembatan DX)		3987.1	<i>RRI Manokwari</i> (p) 1156 local pops. SCI at 1158. Jakarta news relay at 1200. Poor. (2-Nov/Yamada-JPN/Jembatan DX)
3132.6	<i>RPDT2 Halmahera Tengah</i> At 1235 telephone conversations and local pops. Poor. QRM/RTTY. (2-Nov/Yamada-JPN/Jembatan DX)		4000.2	<i>RRI Kendari</i> 1315 ID by W & M, popular music. Moderate. (21-Oct/Schulze-PHL/Jembatan DX/Yamada-JPN)

- 4003.2 **RRI Padang** 1325 W talks, popular music. Weak. (21-Oct/Schulze-PHL/Jembatan DX/Yamada-JPN) 2305 W Indonesian news //4925. Very weak (29-Oct/Van Arnhem/DSWCI DX-Window/Stienstra-HOL) 1540 music, local news at 1630, Holy Koran at 1640. (2-Nov/Mola-ITL/Jembatan DX/Yamada-JPN)
- 4074.2 **RPDT2 Blitar**(p) 1425 talk by M and local pops. At 1458 SCI, then signed off. Poor. (2-Nov/Yamada-JPN/Jembatan DX)
- 4696.9 **RKIP Surabaya** 1211 Jakarta news relay. 1213 CM, then ID, local music. Fair signal. (2-Nov/Yamada-JPN/Jembatan DX)
- 4753.3 **RRI Ujung Pandang**. 1510-1517, News relay from Jakarta. Best in LSB. (22-Nov/DSWCI DX Window/Veldhuis-HOL)
- 4845.1 **RRI Ambon** 0904 local news by W. 0926 reading of Holy Koran. Poor. (1-Nov/Yamada-JPN/Jembatan DX)
- 4925.0 **RRI Jambi** 2258 Indo talks, SCI, warta berita by W. Good (29-Oct/Van Arnhem/DSWCI DX-Window/Stienstra-HOL) 2230 songs, announcements in Bahasa Indonesia, 2259 ID, IS, news (8-Nov/Schaay-HOL)
- 4926.9 **RRI Jambi** 1650-1703#. Popular music, ID, SCI at 1659, then relay of Jakarta news "Ikhtisar Berita" but signed off at 1703. Moderate. (21-Oct/Schulze-PHL/Jembatan DX/Yamada-JPN)
- 6153.5 **RRI Biak** At 1358 IS. Time pips at 1359 then local news by M which was very short [How did you know his height?-AQ]. At 1403 local pops program. Poor. Still irregular. (11-Nov/Yamada-JPN/Jembatan DX)
- 7098.2 **RRI Yogyakarta** 2224 Javanese traditional music. 2230 IS, then local news. (2-Nov/Yamada-JPN/Jembatan DX) 2153-2209 bits of talk by woman poking thru QRM at 2153 (best on LSB), delayed and very brief SCI just after 2200, then picked up Jakarta news, //4753.24. (9-Nov/Clark-ONT)
- 7234.4 **RRI Palu**(p) 0814 "Siaran Terpadu" from RRI Jakarta. Fair. (2-Nov/Yamada-JPN/Jembatan DX)
- 9552.3 **RRI Ujung Pandang** Jakarta news relay at 0802. Relay program from RRI Jakarta at 0809. Suddenly signed off at 0829, past usual 0800\*. (11-Nov/Yamada-JPN/Jembatan DX)
- 9614.2v new **RRI Samarinda** 0211-0320. Relay of Jakarta news "Varia Nusantara" till 0215, then ending music "Bagimu Negri," pops, @0232 ID "...Radio Republik Indonesia Samarinda." Sked 0100-0500? [Nope...see next...] (22-Oct/Schulze-PHL/Jembatan DX/Yamada-JPN) 0632 dangdut music program. At 0657 unidentified station on 9615kHz signed on, the signal was covered by the station. Poor. (2-Nov/Yamada-JPN/Jembatan DX)
- 9679.95 **RRI Jakarta** 2259-2301 SCI followed by news at 2300. Fair and reasonably clear, but almost gone at 2310 recheck. (25-Oct/Clark/DSWCI DX-Window/Stienstra-HOL)
- 9680.0 **RRI Jakarta** 2308 news on Iraq // 11755. Good signal (29-Oct/Van Arnhem/DSWCI DX-Window/Stienstra-HOL)
- 11755 **RRI Jakarta** 2304 Indo news //4925, 9680. Good (29-Oct/Van Arnhem/DSWCI DX-Window/Stienstra-HOL)
- 11785 **RRI Jakarta** 2030, poor-fair with English external service announcing as 9525kHz, which was absent. (26-Oct/Ormandy/DSWCI DX-Window/Stienstra-HOL) "Aneka Berita" at 1500. ID at 1513 then wayang kulit. Fair. (11-Nov/Yamada-JPN/Jembatan DX)
- 15149.81 **RRI Jakarta** 1730-2100 noted with European sce, 1730 Spanish, 1800 German, 1900 French, 2000 English. (29-Oct/Bueschel-FRG/DSWCI DX-Window/Stienstra-HOL)
- 15150 **RRI Jakarta** 1221 W in BI with clear ID at 1221 "Radio Republik Indonesia Jakarta programa nacional." (1-Nov/Van Rooy/DSWCI DX-Window/Stienstra-HOL)
- RRI Banda Aceh** on 3904.8kHz now signs off at 1400\* (ex-1515\*). (Yamada-JPN)
- RRI Manado** now on 3215.0 (ex-3214.8) with new s/off at 1605\* (ex-1405\*). (Yamada-JPN)
- Following RRI stations have NOT been observed in late October:
- 3205 **RRI Bandung**  
 3223 **RRI Mataram**  
 3241 **RRI Ambon** (long-missing)  
 3260 **RRI Kupang** (long-missing)  
 3277 **RRI Jakarta** (long-missing)  
 3295 **RRI Samarinda**  
 3305 **RRI Dili** (long-missing)  
 3375 **RRI Medan**  
 3934 **RRI Semarang** (unconfirmed due to heavy QRM)  
 3945 **RRI Denpasar** (long-missing)  
 3960 **RRI Palu** (unconfirmed due to heavy QRM)  
 3976 **RRI Surabaya** (long-missing)  
 4433 **RRI Bukittinggi** (long-missing)  
 4719 **RRI Ujung Pandang** (long-missing)

4766 **RRI Medan**  
 4805 **RRI Kupang** (long-missing)  
 4855 **RRI Palembang**  
 4866 **RRI Wamena** (long-missing)  
 4871 **RRI Wamena** (long-missing)  
 4875 **RRI Sorong**  
 4910 **RRI Bukittinggi**  
 5030 **RRI Sibolga**  
 5046 **RRI Yogyakarta**  
 5055 **RRI Nabire**  
 5059 **RRI Yogyakarta**  
 5256 **RRI Sibolga**  
 5984 **RRI Tual** (long-missing)  
 6025 **RRI Banjarmasin** (unconfirmed due to heavy QRM)  
 6127 **RRI Nabire**  
 9545 **RRI Palangkaraya**  
 9612 **RRI Jayapura**  
 9735 **RRI Merauke**  
 9745 **RRI Medan**  
 (Yamada-JPN/Jembatan DX)

RRI seems to have commenced a new schedule for its high powered transmitters, possibly involving three sites. The external service (*Voice of Indonesia*) operates:

0030-0400	????	11785
0800-0900	English	11785
0900-1000	Malay	9525
1000-1030	Thai	11785
1030-1130	Chinese	11785
1130-1200	Japanese	11785
1200-1300	Indonesian	11785

English at 0100, 0800 and 2000 (Yamada-JPN)

On "World of Radio" 18 October, a contributor in Europe reported that 7225 was heard in parallel with 9525 1730-2100. DXers in Europe will recall that 7225 was the main frequency used by RRI for the Overseas Service some three years ago.

Domestic Service sked:

**Radio Nasional Satu:** ("Programa Nasional Satu")

0000-0500	9565B 9630B 11755C 15125C
0500-0900	9565B 11755C 15125C
0900-1100	9565B 11755C
1100-1500	4777K 9565B 11755C
1500-1600	4777K 11755C
1600-2100	4777K
2100-2200	4777K 9565B 9630B
2200-2300	4777K 9565B 9630B 11755C 15125C

**Radio Nasional Dua** ("Programa Nasional Dua")

0000-0200	9680C 11750B 15120C
0900-1300	9680C 11750B 15120C
2200-2400	9680C 11750B 15120C

B=Bontosongu C=Cimanggis K=Kebayoran

Cimanggis is 50 km south of Jakarta and Bontosongu is 20 km south of Ujung Pandang. Kebayoran is 7 km SW of the center of Jakarta City. The

1997 Transmitter Documentation Project discloses that Kebayoran WAS the main RRI transmitting site between approximately 1950 and 1970. Does anyone know, for sure, if this site still exists? (19-Oct/Jones/EDXP/Padula-AUS/Jembatan DX/Tamada-JPN)

Last week I heard them in Spanish at 0030 and in English at 0100 on new 11785 (obviously replacing 9525), booming in with a strong and undisturbed signal here in Northern Germany. Their home service has recently been audible on new 11755 (// to 9680) around 2300. (20-Oct/Gatzke-FRG/EDXP/Jembatan DX/Yamada-JPN)

**IRAN Voice of the Islamic Republic of Iran**, updated per observations:

0030-0125	English	6050 9022 9685
0030-0130	Bengali	9575
0030-0330	Arabic	9685
0100-0200	Persian	7180
0130-0330	Spanish	6015 6175
0130-1330	Persian	15365 15084
0330-0427	Swahili	13605 11750
0330-0730	Arabic	7130 11910 15350
0430-0530	Turkish	9540 11790
0530-0627	Bosnian	15230 13610 9520
0530-0627	Spanish	11790 15260
0545-0620	Hausa	11720
0630-0725	Italian	13605 15084 15230
0630-0730	French	11790 15260 15325
0930-0957	Armenian	9615 11705
0930-1530	Arabic	11745
1100-1230	English	15260 11875 11830 9585
1200-1255	Italian	13605 15084 15350
1230-1330	Pashto	15260 11875 11830 9585
1230-1400	Azeri	9735
1330-1430	Chinese	6050 7215
1330-1430	Malay	15330 15260 11885 11750 7180/7160 6050
1330-1430	Urdu	15260 11875 11830 9750
1330-1700	Arabic	9650 11995
1330-2000	Persian	6020
1400-1500	Russian	11960 11930 9735
1430-1525	Bengali	11790 13605 7214
1500-1526	Kazakh	9585 7160
1530-1625	Russian	7260 9022 9735
1530-1630	English	7215 11790 13605
1630-1725	Uzbek	7215
1630-1727	Armenian	6005 9615 11720
1630-1730	Persian	7230
1630-1730	Turkish	9735
1630-2030	Persian	6005
1700-1727	Swahili	7160 9685 (old time?)
1700-2130	Arabic	7190 9665 (2000-2030 VoPalestine noted on 7190)
1700-2230	Arabic	6025
1730-1827	German	7160 7260 9022
1730-1827	Swahili	9650
1730-1830	Bosnian	9615 7140 7340
1730-1830	Russian	7115 7290

1830-1900	Albanian	9615 7140 7340
1830-1927	French	7260 7160 9022
1900-1927	Italian	9615 7140 7340
1930-2030	English	9022 7260 7160
1930-2030	Persian	7130
1930-2030	Russian	7175 7290 7305 9740
1945-2015	Hausa	11720 9605
2130-2225	Bosnian	7170 7145 7125
2130-2225	English	6175 6165
2230-2325	French	6030 7260 9022
2230-2325	Persian	7145 7125
2330-0025	Chinese	7215

(8-Nov/Bueschel-FRG/WWDXC Topnews + Novello-NC)

15178.80 *Voice of the Islamic Rep of Iran*, 0924 Local string music with M announcements in Farsi. At 0927 ID: "seda-ye jomhuri-ye eslami-ye Iran" // 15084. This frequency not mentioned in any radio-book. Poor modulation here, but on 15084 of course a lot better. 34332 (17-Nov/van Rooy) (According to the "Kortegolf Nieuwsbrief" of Michiel Schaay, this is an unwanted and badly modulated signal from the 350 kW. Thomson-CSF transmitter on 15084.) (DSWCI DX Window/Veldhuis-HOL)

**IRAQ** 7146.9 *Mother of Battles Radio*, 2016, Probably Baghdad observed in passing with woman in Arabic; fair level but low audio. Only a faint het when rechecked just after 2100. Haven't noted this one for perhaps a year or so—recent reactivation? (15-Nov/Hill-MA)

11785 *Radio Iraq International*, 2051-2058, Woman in French with ID, talk on topography, instrumental interludes. Strong signal, but undermodulated. Deutsche Welle IS under closing announcement of French service at 2057. (20-Nov/Veldhuis/DSWCI DX Window/Veldhuis-HOL)

**KOREA—NORTH Radio Pyongyang**, per monitoring 17-20 Nov:

0000-0100	English	11845 13650 15230
0000-0100	Spanish	3560 4405 11335 11700 15130
0400-0500	French	3560 11740 13790
0400-0500	Korean	9345
0400-0500	Spanish	4405 13650 15180 15340 17765
0500-0600	English	3560 11740 13790
0500-0600	French	4405 13650 15180 15340 17765
0500-0600	Korean	9345
0700-0800	Chinese	6125 7200 9345
0700-0800	Russian	3560 11740 13790
0700-1000	Japanese	3250 4405 6070 7580 9650
0800-0900	KK/RR	3560 6575 9975 11740 13790
0800-0900	Korean	6125 7200 9345
0900-1000	Chinese	6125 7200 9345
0900-1000	Russian	3560 6575 9975 11740 13790

1100-1200	Chinese	6125 7200 9345
1100-1200	English	3560 9640 9975 11335 13650 15230
1100-1400	Japanese	3250 4405 6070 6520 7580
1200-1300	French	3560 9640 9975 11335 13650 15230
1200-1300	Korean	6125 7200 9345
1300-1400	Chinese	6125 7200 9345
1300-1400	Spanish	3560 9640 9975 11335 13650 15230
1400-1500	Korean	3560 9640 9975 11335 13650 15230
1500-1600	Arabic	4405 6520 9600
1500-1600	English	3560 9640 9975 11335 11735 13650
1500-1600	French	6575 9345
1600-1700	Korean	3560 4405 6520 6575 9345 9600 9640 9975 11335 11735 13650
1700-1800	KK/RR	4405 6520 9600 9975
1700-1800	Russian	3560 9325 13790
1700-1800	Spanish	6575 9345 11700
1800-1900	Arabic	4405 9325 6520 9600 9975
1800-1900	English	6575 9345 11700 13760
1800-1900	German	3560 9325 13790
1900-2000	Arabic	6575 9435 11700
1900-2000	English	4405 6520 9600 9975
1900-2000	Russian	3560 9325 13790
2000-2100	Arabic	4405 6520 9600 9975
2000-2100	French	6575 9345 11700
2000-2100	German	3560 9325 13790
2100-2200	English	6575 9345 11700 13760
2100-2200	French	4405 6520 9600 9975
2100-2200	German	3560 9325 13790
2200-2300	Korean	6575 9345 11700
2300-0000	English	3560 4405 11335 11700 13760 15130
2300-0000	Spanish	11335 13650 15230
2300-0100	Japanese	3250 7580 9650

(Ashimori-JPN/DSWCI DX Window/Veldhuis-HOL)

Shortwave schedules of **KCBS** (HS) and **PBS** (South Korea service) monitored in Japan 12-15/11. Low frequencies that cannot be checked during local daytime approx. 2100-0900 are presumed to stay on continuously. The exact on/off times of PBS 3250 cannot be checked for this reason.

**Korean Central Broadcasting Station**

2850	KCBS	2000-1800
3220*	Hamhung	2000-1800*
3350	Pyongsong	2000-1800
3920	Hyesan	2000-1800
3945#	???	2000-1800
3960	Kanggye	2000-1800
3970*	Wonsan	2000-1800*
6100+	KCBS	2000-0630, 1500-1800
9665+	KCBS	2000-0930
11680	KCBS	2000-1800

\*) 3220 Hamhung and 3970 Wonsan relay PBS 1800-2000.+) Only 6100 and 9665 are announced at s/on and s/off.#) NF 3945 may be Chongjin (QSY from

3980?). N.B. 2350 Sariwon has been absent since early this year.

**Pyongyang Broadcasting Station**

3220 1800-2000 (rel. via KCBS Hamhung)  
 3250\* 2100-2200?, 0200?-0630?, 1500-2030  
 3320 2100-1900  
 3970 1800-2000 (rel. via KCBS Wonsan)  
 6250+ 2100-1900  
 6398v+ 2100-1800

\*) 3250 relays R. Pyongyang in Ja 2300-0100, 0700-1000, 1100-1400.+) Only 6250 and 6400 are announced at s/on and s/off. (16-Nov/Ashimori-JPN/DXW/EDXP/Padula-AUS)

4769.8N, 0955-1025\*, R. **Pyongyang**, 17+18/10, transmitter carrier, 1000 IS, 1005 instrumental National Anthem, Korean ID "...Pangsong imnida...." revolus songs, 1020 closing announcement, signing-off at 1025. No // freqs discovered so far. (Schulze) Very interesting. I wasn't able to hear this when I checked on Oct. 28. Never heard anything official (RP, PBS, KCBS) on this frequency (4770v). This is the usual random number frequency, and several transmissions are observed every day. It's usually // with 5870. 1000 is one of the usual times, though not daily. Many random number transmissions from North Korea sign on with the same IS as RP/PBS/KCBS (=Song of Gen. Kim Il Sung) but they do not ID like "...Bangsong imnida." IS is followed by some distinctive music depending on broadcast type, but the national anthem is not used. They do not "sign off" but abruptly end transmissions after the last message. Sometimes some music or plain text (e.g. "letter from Big Brother in Pyongyang to Little Brother in Pusan") is aired instead of random numbers. If you (Roland Schulze) heard them sign on with the anthem, and formally sign off at the end, then it's unlikely random numbers. I will keep checking, just in case they come up again. Thanks, Roland. A big kumusta from your kaibigan sa Hapon! (Ashimori/DSWCI DX-Window/Stienstra-HOL)

**KOREA—SOUTH Radio Korea International, W97:**

0000-0100 Japanese 11810  
 0000-0100 Korean 5975  
 0100-0200 Korean 7275 11725  
 0100-0200 Spanish 11810 15575  
 0200-0300 English 7275 11725 11810 15575  
 0300-0400 Korean 7275 11725 11810 15575  
 0700-0800 Korean 7550 9510K  
 0800-0900 English 9570 13670  
 0800-0900 Japanese 5975 7275 9640  
 0900-1000 Korean 5975 7275 7550 9570 13670  
 1000-1030 Spanish 7550 9580 11715S  
 1000-1100 Korean 5975 6135  
 1030-1100 Spanish 7550 9580  
 1100-1130 Korean 6145S 7275 9580 9640 9650S  
 1100-1200 Russian 5975 6135

1130-1200 English 9650S  
 1130-1230 BI 9570 13670  
 1130-1230 Chinese 9640  
 1200-1300 English 7285  
 1200-1300 Japanese 5975 6135  
 1230-1300 English 9570 9640 13670  
 1300-1400 Chinese 5975 6135 7285  
 1300-1400 Korean 9640 13670  
 1400-1500 BI 13670  
 1400-1500 Japanese 5975 7275  
 1500-1600 Russian 7275  
 1600-1700 Arabic 7275 7550  
 1600-1700 English 5975 9515 9870  
 1700-1800 French 7275 9515 9870  
 1700-1900 Korean 5975 7550 15575  
 1800-1900 German 6480 7275  
 1800-1900 Russian 3970S  
 1800-1900 Spanish 9515 9870  
 1900-2000 Arabic 6480 7550 9515 15575  
 1900-2000 English 5975 7275  
 2000-2100 French 9870  
 2000-2100 German 3970S 7550 15575  
 2000-2100 Russian 5975  
 2000-2100 Spanish 6480 7275 9870  
 2100-2130 English 6480 15575  
 2100-2200 Arabic 9870  
 2100-2200 French 3970S  
 2100-2200 Korean 5975 7275  
 2130-2200 English 15575  
 2200-2230 English 3970S  
 2200-2300 Chinese 5975 7275  
 2200-2300 Spanish 6150  
 2300-2400 BI 7275  
 2300-2400 Korean 5975 15575

K-Skelton S=Sackville (11-Nov/Visser-BEL/DX-Antwerp/WWDXC Topnews/Bueschel-FRG)

**LATVIA Radio Latvia, Riga:**

2000-2030 English 5935 Sa  
 2030-2100 Russian 5935 Sa  
 2050-2100 Russian 5935 Mo-Fr  
 2100-2130 Latvian 5935 Mo-Fr  
 2130-2135 English 5935 Mo-Fr

(BBCM)

**LIBERIA** 3400 **STAR Radio**, Monrovia 0455-56 & 0503-0517, good strength open carrier on/off several times at initial tune-in; from 0503 retune, on-going talk segments by at least two different M annrcs in vernacular with frequent intervening bridges of African drums. Fair for stated 4 kW into vertical antenna. (25-Oct/Clark-ONT/DSWCI DX-Window/Stienstra-HOL)

3450 **Radio Veritas** hrd here IDing as "R. Veritas, broadcasting from the Catholic Media Center in Monrovia, Liberia." They announced 97.8 FM and 3450 SW. S/off was 2200 on SW, 2300 on FM. Address given as P.O. Box 3569, Monrovia, which matches the entry for the Catholic religious stn, ELCM, in WRTH-97. Not//5100, which was hrd at

the same time. (14-Nov/Hatteras DXpedition/Jerry Berg/NU/EDXP/Padula-AUS)

5880 **STAR Radio** (t) 1857 sounded like EE talk with frequencies but very weak. (21-Oct/Norrie/DSWCI DX-Window/Stienstra-HOL)

**MADAGASCAR** 9692. *R. Malagasy*; Antananarivo, 0800-0840, Malagasy. Talk program fr names mentioned could have been local newscast. IDs at 0815 & 0830. The earlier stn ann was followed by further talk. Antananarivo mentioned several times. Impression gained that the program was of an educational nature. No // found. (14-Nov/Clemiston-RSA/WWDXC Topnews)

**MALI RTM** Bamako wandering down to v9632.95 kHz, noted at 0900 in French, mx, fine signal, it's now season for WeAfricans. v11960 is always off. (15-Nov/Bueschel-FRG/DSWCI DX Window/Veldhuis-HOL)

**MALTA** see **RUSSIA**

**MOLDOVA Radio Moldova International** W97:

0230-0255	Spanish	9400
0300-0330	Romanian	7500
0330-0355	English	7500
0400-0425	Russian	6135
0430-0455	English	7500
1200-1225	Spanish	15315
1230-1300	Romanian	9400
1930-1955	Russian	7500
2000-2025	French	7520
2030-2055	Spanish	7520
2100-2125	French	7520
2130-2155	Spanish	7520
2200-2225	English	7520
2300-2325	English	7520

(Visser-BEL/DX-Antwerp website)

**MONGOLIA Voice of Mongolia** W97:

0830-0900	Russian	12085
0900-0930	Japanese	12085
0930-1000	Mongolian	12085
1000-1030	Chinese	12085
1030-1100	Japanese	12085
1100-1130	Mongolian	12085
1130-1200	Chinese	12085
1200-1230	English	12085
1300-1330	Russian	12085
1345-1415	Japanese	12085
1430-1500	Chinese	12085 9720
1500-1530	English	12085 9720
1900-1930	Russian	12085 9720
1930-2000	English	12085 9720

(BBCM)

**MOZAMBIQUE** 9618 *RTM Beira*, 0545, mx, prog, 0600, chime, Mazda advert followed with mx in Portuguese—0605 went off (?) or loss of signal, very weak reception. (??date??/Vaghjee/DSWCI DX Window)

9638 *RTM Beira* 0607, news in African lang fair reception. (30-Oct/Vaghjee/DSWCI DX Window)

**MYANMAR** 5985.83 *R. Myanmar*, 1225, tentative with uptempo song lead by meandering string instrument and clanking percussion, W anncr; 1230 switched to M monologue. Pretty good reception; 4725 unheard at this time. (19-Nov/Novello-NC)

6570 *Defence Forces Broadcasting Unit*, Taunggyi, -1328\*. Just end tune heard with traditional Hsaing Waing music and s/off at 1328. weak. (17-Nov/van Rooy/DSWCI DX Window/Veldhuis-HOL)

7185 *Radio Myanmar*, \*0030, This one has been fairly consistent over the past week. Best on Nov. 21, when came on with fascinating Myanma music and woman in Bamar (Burmese), which doesn't sound like any other language I know of. Into chorus of kids or woman at 0033. Surprisingly, still audible at 0108 recheck. Difficult to read because of extreme choppieness, but a real treat when it shows! (21-Nov/Hill-MA)

**NEPAL** 7165.22 *Radio Nepal* 1205 domestic chants // somewhat stronger 5005.04. The 41m freq has slipped down a bit from former 7165.4v. (11-Nov/Clark-ONT)

**PAKISTAN Radio Pakistan** changes: I don't yet have their D-97 sched, but have noted the following:

0800-1103	Urdu	15550.3	17835.15
1000-1030	Tamil	15465	13665
1105-1120	EE-SSN	7475 11760	13620 15550.3
			17835.15
1200-1245	Bangla	11975	9785
1300-1345	Irani	11975	9775
1330-1530	Urdu	11570 9650	v15375-Karachi
1600-1615	English	9650 11570	v15375-Karachi
			15570 17720
1615-1630	EE-SSN	9650 11570	v15375-Karachi
			15570 17720
1615-1700	Hindi	7482.58v	
1700-1900	Urdu	9330.1	11570
1800-1845	Arabic	9425	7460
1930-2000	French	11570	9710

Services not mentioned not traced so far. (9-Nov/Green-UK + Bueschel-FRG/WWDXC Topnews)

**PAPUA NEW GUINEA** October survey of PNG regionals; E=active early (1000-1200) L=active later (2000-2100)

2410	<i>R. Enga</i>	E/L
3205	<i>R. Sandaun</i>	E
3220	<i>R. Morobe</i>	E
3235	<i>R. West New Britain</i>	inactive
3245	<i>R. Gulf Karema</i>	E new transmitter?
3260	<i>R. Madang</i>	E
3275	<i>R. Southern Highlands</i>	E
3290	<i>R. Central</i>	inactive
3305	<i>R. Western</i>	E
3315	<i>R. Manus</i>	E/L

- 3325 **R. Bougainville** E irregularly due to lack of funds.  
 3335 **R. East Sepik** inactive  
 3345 **R. Northern** inactive  
 3355 **R. Simbu** inactive  
 3365 **R. Milne Bay** inactive  
 3375 **R. Western Highlands** E/L  
 3385 **R. Eastern New Britain** E/L  
 3395 **R. Eastern Highlands** E  
 3905 **R. New Ireland** E/L  
 (31-Oct/Schulze-PHL/Johnson via WDXC Nov/  
 WWDXC Topnews/Bueschel-FRG)

**PARAGUAY** 11939.28 **R. Encarnacion**, Encarnacion, 2350-2352 & 0014 + 0201, fair and clear mic level w/talk by woman but much poorer for recorded music at 2352. Very nice readable signal at 0014 w/ongoing talk by the woman anncr. Still going at 0201 w/Spanish vocal by man. (9-10-Nov/Clark-ONT)

**PERU**

- 3250.84 **Radio TV Comas**, Lima, 1042-1046(b/out) weak signal, folklore peruano. (16-Nov/TIN/Relampago DX)  
 4534.0 **Radio Horizonte**; Chiclayo, 2340, on a new fq, ex-4505, Buyers of cochineal invited to register with studio phone 252917 before the shipment arrives from Jaen. (17-Nov/Klemetz-COL/DSWCI DX Window/Veldhuis-HOL)  
 4756.8 **Radio Huanta 2000**, 2340. Was on 4752.5 Nov 15; otherwise usually on 4746.8 (19-Nov/Klemetz-COL/DSWCI DX Window/Veldhuis-HOL)  
 4855.51 **R. La Hora**, Cusco, Cusco, 2310 huge signal with on-location live sports report, numerous mentions of Cusco, Coca-Cola, and some kind of cerveza "ice;" "La Hora" semi-IDs in passing. (6-Nov/Novello-NC)  
 4907.72 **R. La Oroya**, La Oroya, Junin, 0330 program of SS and EE language pop music, 'Ritmos de la Noche', announced by M; Plenty of TCs and ID's in passing. (6-Nov/Novello-NC)  
 4995.58 **R. Andina**, Huancayo, Junin, 2350 sparkling Andean W vocals, W DJ with ID in passing 2353, M with a few comunicados 2355. (6-Nov/Novello-NC)  
 5677.13 **Radio Frecuencia San Ignacio**; Cajamarca, 0155, high Andean guitar and three-part harmony vocal selections, 0159 Canned ID by M: "esta es Radio Frecuencia San Ignacio, Amazonas...Radio Frecuencia, es una radio sin fronteras." Station is located in Cajamarca, despite the sound of the announcement; Henrik Klemetz speculates this might be a reference to a claim that they have listeners in Amazonas. (22-Nov/Novello-NC)

- 5767.34 **Radio Master**, Moyobamba, 1055 p w/ Cumbia Peruana. (25-Oct/TIN/Relampago DX)  
 6045.38 **Radio Santa Rosa**, Lima, 1006-1020 p w/ non stop huaynos. At 1020 ID was given with TC. (25-Oct/TIN/Relampago DX)  
 6535.79 **Radiodifusoras Huancabamba**, 1151-1200 weak signal, OA folk lore (16-Nov/TIN/Relampago DX)  
 6674.58 **Radio Ondas del Rio Marañon**, Aramango, 1130-1151 p, mostly Peruvian huaynos and short M talk in SS. (16-Nov/TIN/Relampago DX)  
 6811.41 **Radio Ondas del Rio Mayo**, Nueva Cajamarca, 1047-1100 f. After played huayno of "Anoranza Andina," ID was given as "10 minutos para las 6 en Radio Ondas del Rio Mayo, la emisora lider en sintonia que llegando a su corazon del pueblo." (16-Nov/TIN/Relampago DX)  
 7205.8 UnID 2307 A Latin here on this odd freq with lots of mensajes ("atencion, atencion") and brief stingers played on a harp. Numerous-5 time checks from 2315 onwards interspersed with nondescript romantic vocals past 2400. Too weak and too much QRN to nail down spoken ID. Not there the next evening; it was probably an errant Peruvian whose engineer had punched up the wrong freq. Worth watching, though. (7-Nov/Hill-MA) The new station on 7205.6v is **Radio Paraton**, noted Nov 12 before 1100 with Amaneciendo con Paraton, and after 1100 with Buenos Dias, Hermano Campesino. The name doesn't make sense; tnx to Henrik Klemetz for helping to identify it. We don't hear a location but think it may be in northern Peru near the Ecuadorian border (Rodriguez-COL/World of Radio/Hausser-OK)

**PHILIPPINES** **Vatican Radio** is using a transmitter fr Radio Veritas Asia Manila at Palauig, PHL for it's daily transmission in Chinese to EaAS 1230-1315. The freq is 6020 kHz with a power of 250 kW, beamed at 355 deg, this acc to the HFCC W97 schedule (site 'PUG'). (12-Nov/Vissers-BEL/WWDXC Topnews/Bueschel-FRG)

**Radio Pilipinos, W97:**

0230-0330	EE/Filipino	11805 15120 15270
0330-0400	EE/Filipino	13770 15330 17730
1730-1930	EE	11730 11890 15190

All via Poro/Tinang (IBB/Padula/EDXP)

**QATAR** 9570.14 **QBS** Doha 1905+ presumed the one with AA/EE program about General DeGaulle's relations with Algeria. Surprised to hear English here. (21-Oct/Novello-NC)



**RADIO FREE ASIA** *Radio Free Asia* W97 complete  
sked with sites:

0030-0130	Bm	7455-K 7530-DU 11580-U 13710-KHBI
1130-1230	Lo	15660-DU 17535-K
1230-1330	Khmer	7520-DU 11510-K
1300-1400	Tb	7530-DU 9400-K 15385-H
1500-1600	Bm	6240-DU 9400-K
1500-1630	Ch	7530-DU 9445-KHBI 9805-DL 9910-KHBN 11945-KHBI
1530-1630	Kr	5855-U 7475-K 9955-KHBN
1630-1700	Ch	7530-DU 7475-KHBI 9805- KHBN 11945-KHBI
1700-1800	Ch	9455-KHBI 9855-DL 11945- KHBI
2100-2200	Ch	7530-DU 9650-KNLS 9775- KHBI 9795-KHBI 9910- KHBN 11980-DL
2200-2300	Kr	7470-U 7495-K 9455-KHBI 9650-KNLS 11980-DL
2200-2300	Lao	6240-DU 7550-K 9570-KHBI
2230-2330	Khmer	7520-DU 11510-K
2300-0000	Ch	7530-DU 9650-KNLS 9910- KHBN 11870-DL 13800-KHBI
2300-0000	Tb	7415-DU 7550-K 9875-H
2330-0030	Vn	7520-DU 9930-KHBN 11580- U 13710-KHBI

Site abbreviations: DL Delano, DU Dushanbe, H Holzkirchen, U Ulan Bator, K Kamo (Armenia). (IBB Monitoring Homepage/Ogrizek and Padula-AUS/EDXP)

**ROMANIA** The Romanian HS 17850 is causing much disturbance and radiating only "noise" (like a roar). Was spreading over 17820 to 17880, but now confined mostly to 17840-17860! //15105 also noisy with hum and low audio. (10-Nov/Green-UK/WWDXC Topnews/Bueschel-FRG)

Relaying Romanian home sce program "**Romania Actualitati**:"  
 20400-0800 9570 11970  
 0800-1500 15105 17850  
 1500-2000 9570 11790  
 2000-0400? 6040 7225

**Romanian for Mariners :**  
 0800-0856 15335 15370 15380 17745 17790  
 0900-0956 15380 17745 17790 21480 21590  
 1000-1056 15250 15335 15380 17745 17790  
 (10-Nov/Green-UK)

**RUSSIA** *Voice of Russia* W97:  
 0000-0100 English 7180 7170 7125 7105  
 0000-0100 Portuguese 9810 9450 9370 7440 7390  
 7330 7310 7115  
 0000-0100 Russian 9890 7350  
 0100-0200 English 7350 7125 7105 5940  
 0100-0200 Spanish 9890 9810 9450 7440 7390  
 7330 7310 7180 7115 6185  
 5915

0200-0300	English	13665 12045
0200-0400	Russian	12000 9895 9890 7350 7260 7125 6065 5940
0200-0400	Spanish	9945 9810 9450 7440 7420 7390 7330 7310 7230 7180 7115 6185
0400-0500	English	12045 7260 7175 5930 5920
0500-0600	English	7175 6065 5920
0600-0700	English	21790 17570 17495 15470 15460 12055 12025 7175 6065 5920
0700-0800	English	21790 17860 17570 17495 15470 15460 12055 12025 7175 6065 6005 5920
0800-0900	English	21790 17860 17570 17495 15470 15460 12055 12025 9825-(from 0830)
0900-1000	English	17860 17495 12025 9875 9825
1000-1100	English	17860 17755 17495 15560 15540 15470 12025 11820 11540 9835 9825
1000-1100	German	15540 12010 9680
1000-1100	Korean	7490 7380 7135 5940 4010
1100-1200	Chinese	9895 5905 4010
1100-1200	English	17860 17755 17495 15560 15470 12065 12025 11820 9875 9825 9450 7245 7195 7170 6205 4730
1100-1200	Japanese	7490 7135
1200-1300	Chinese	9895 6145-(from 1230)
1200-1300	English	17860 17755 15560 12065 11820 11695 9940 9780 9725 7390 7245 7195 7170 6205 4730
1200-1300	Korean	7135 4010
1200-1300	Vietnamese	9450 7220
1300-1400	Chinese	9895 7220 7205 7195 6145 4040
1300-1400	English	11695 9450
1300-1400	Hindi	12065 9940 9860 9800 9780 9725 7390 7295 7155-(from 1330)
1300-1400	Japanese	7135
1300-1500	Russian	12015 9780 9490 9470 7245 7235 7195 7185 7170 6205
1400-1445	Bengali	9940 7350
1400-1500	Dari/Pashto	9400 7295 4975 4940 4730
1400-1500	English	11695 9840 9470 7130
1400-1500	Urdu	12065 9860 9800 9780 9725 7390 7155
1400-1600	Chinese	11820 9895 7205 7195 7135 7125 6145 6100 5910-(from 1500) 4010
1445-1500	Nepali	9940 7350
1500-1600	English	9840 9470 7235 7130 4975 4940
1500-1600	Hindi	12065 9860 9800 9725 7390 7350 7155

1500-1600	Turkish	7275 7210	2000-2100	Portuguese	7330 7300 7255 7210 6145 5975
1600-1700	Albanian	9820 7390 7350 7185 6000 5950	2000-2100	Russian	9775 9450 7340 7310 7160 7125
1600-1700	English	9975 9705 9470 7380 7175-(from 1630) 6130 4975 4940	2100-2200	English	9890 9800 7440 7320-(from 2130) 7180 5965 5940
1600-1700	French	9865 7280 7215 6030 6020	2100-2200	French	9865 9550 9470 7360 7215 7205 6110 6000 5920
1600-1700	German	7420 7360 7300 5920	2100-2200	Russian	9775 9450 7340 7310 7160 7125
1600-1700	Persian	9840 5935 5925	2100-2200	Spanish	7330 7300 6145 5975
1600-1700	Russian	15470 9830 9745 9715 9560 9450 7355 7235 7125	2200-2300	English	9890 7440 7360 7320 7205 5965 5940
1700-1800	Arabic	9865 9840 9635 7130 5935 5925	2200-2300	Portuguese	9865 9630 9470 7330 7310 7300 6145 6110 6000 5975
1700-1800	English	9450 7440 7355 7325 7185 7175 5965 4920	2300-0000	English	7180 7170 7125 7105 5940 (BBCM)
1700-1800	French	7280 7215 6020	<b>Radio Odin</b> (Radio One) continues its operations despite announced closure. W97 schedule:		
1700-1800	German	7420 7360 6145	0000-0300	5960S 6030K 9845Y	
1700-1800	Hungarian	9820 7330 7140 6090 5975	0300-0330	5960S 6030K	
1700-1800	Polish	7370 7300 5920	0330-0400	5960S 6030K 15255Y	
1700-1800	Romanian	7380 7350 7230 6000	0400-0430	15255Y	
1700-1800	Serbo-Croat	7390 7185 6030 5950	0430-0930	9480S 11750K 15255Y	
1800-1830	Finnish	5965 5940 4920	0930-1100	9480S 9490S 11750K 15255Y	
1800-1900	Arabic	9975 9840 9375	1100-1100	9490S 11750K	
1800-1900	Bulgarian	7380 7350 7230 7185 6000 5950 5905	1130-1200	9490S 9845Y 11750K	
1800-1900	English	9890 7440 7325 7255 7210 7175	1200-1230	9490S 9845Y	
1800-1900	French	9470 7325 7280 7215 7115 6020	1230-1300	6115K 9490S 9845Y	
1800-1900	Italian	9820 7390 6030 5975	1300-1330	6115K 9845Y	
1800-1900	Russian	15470 9830 9775 9745 9560 9480 9450 7355 7340 7310 7255 7210 7185 7160 7125	1330-1400	5960S 6115K 9845Y	
1800-1900	Slovak	7370 7330 7140 6090	1400-1530	5960S 6115K	
1800-2000	German	7360 7300 6145 5920	1530-1800	6115K	
1830-1900	Norwegian/Swed	5940 4920	2300-2400	5960S 6030K 9845Y	
1900-2000	Czech	7370 7330 7140 6090	S=Samara 100kW K=Saransk-Kovyl'kino 120 kW Y=Yekaterinburg 200 kW (Rudnev-RUS)		
1900-2000	English	9890 9440 7490 7440 7325 7305 7255 7210 6130 5965 5940 4920	<b>Adgey Radio</b> (Mo/Fr 1800-1900) and Kabardino-Balkar Radio (We/Th/Su 1830-1900) are on usual winter frequency of 6005 via Krasnodar-100kW. (Rudnev-RUS)		
1900-2000	French	9470 7280 7215 7205 7175 6110	<b>BBC</b> via Russian relays, W97:		
1900-2000	Polish	7300 5920	0500-0600	7370Y	
1900-2000	Russian	15470 9830 9775 9745 9560 9480 9450 7355 7340 7310 7255 7210 7185 7160 7125	1000-1100	7330V	
1900-2000	Serbo-Croat	7390 7380 7350 7290 7230 6000 5975 5950	1300-1530	7330C	
1900-2100	Arabic	9865 9840 9375 7295 7130 5935 5925	1700-1730	5905Y 7390M	
2000-2100	English	9890 9820 9440 7490 7440 7325 7305 6130 5965 5940 4920	1730-1800	7390M	
2000-2100	French	9470 7360 7205 7150 6110 5920	1800-1900	7425S	
2000-2100	Greek	7380 7370 7350 7230 7140 5950	2000-2100	5905Y	
			2200-2300	5905I 7330C	
			C=Chita I=Irkutsk M=Moscow S=St. Petersburg V=Vladivostok Y=Yekaterinburg (Rudnev-RUS)		
			<b>Radio Vlaanderen Internationaal</b> via Petropavlovsk-Kamchatskiy:		
			1200-1230	6170	
			(Rudnev-RUS)		

W97 sked for *Voice of the Mediterranean*, Malta, all transmitters presumed via Russia:

0200-0330	English	15550 17570 Su
0330-0500	Maltese	15550 17570 Su
0500-0530	Japanese	17570 Su
0900-1230	???	9660
1200-1300	???	9660
2000-2100	English	7440 Su
2000-2100	English	7440 Mo-Sa
2000-2200	Arabic	7440 Fr
2100-2130	French	7440 Su
2100-2200	Arabic	7440 Mo-Sa
2130-2200	German	7440 Su

The daily programs are presented under the title "Voice of the Mediterranean;" Sun midday programs 0200-0530 in English, Maltese and Japanese are presented under the title "Radio Melita;" the Sun evening programs 2000-2200 are under the title of "Valetta Calling." (VoM /11-Nov/Padula-AUS/WWDXC Topnews/Bueschel-FRG)

5290 *Radio Diapzon*; Perm, 1202 Radio Rossii news relay in Russian by W speaker. //9720 where stronger of course. At 1210 back into local program with W speaker in Russian. (17-Nov/van Rooy/DSW-CI DX Window/Veldhuis-HOL)

17570 //10344U //9850, *Radiostancia Tikiy Okean* was heard with strong but flutter signal at 0815 on 17570 from Irkutsk and also on the USB feeder frequency of 10344 kHz from Khabarovsk where it was weak. Furthermore also direct from Vladivostok on 9850 kHz. There the signal was mediocre. Nice local ID 'Govorit Vladivostok', IS, followed by Tikiy Okean ID. (??date??/Schothmans/DSWCI DX Window/Veldhuis-HOL)

*Special News For Polar Regions*, W97 schedule: 1615-1645 6025-Novosibirsk 7255-Samara (Rudnev-RUS)

*Radio Islamskaya Volna* W97: 1600-1700 6005-Krasnodar 6130-Moscow Tu-Fr

*Radio Kala Aturaya* W97: 1600-1700 6005-Krasnodar 6130-Moscow Sa (Rudnev-RUS)

*CRI* Beijing via Russia in W97 period: 1600-1700 Arabic 7130-St. Petersburg  
1800-1830 Persian 7130-St. Petersburg  
1830-1930 Arabic 7200-Moscow  
2030-2125 French 7215-Samara  
2200-2255 English 7170-Moscow  
(5-Nov/Rudnev-RUS)

**SAN MARINO** Although there is a great hubbub among rabid country-counters vis a vis recent tests by new "Radio San Marino International," I am leaving the job of reporting on this Europirate to the talented Chris Lobdell, whose "Pirate Radio Re-

port" column appears elsewhere in this publication. Just in case he doesn't write about it—and who wants to run the risk of having my tires slashed by irate DX'ers?—their test sked is:

Saturday December 20th, 1997:

2000-2200	Italian/EE	7580
2100-2200	German	7580
2200-2300	Italian/EE	7580
2300-2400	German	7580

Sunday December 21st, 1997:

0400-0500	Italian/EE	7580
0500-0600	German	7580
0600-0700	Italian/EE	7580
0700-0800	Italian/EE	7440 11410U
0800-0900	German	7440 11410U
0900-1000	Italian/EE	7440 11410U
1000-1700	reduced power test	11410U

(R. San Marino)

**SAUDI ARABIA** Latest observed schedule of **BSKSA**:

0300-0600	HQ	7150 9553.5 9620 9718.2 11785 (poss also 11935 and 17880)
0300-1700	2ndP	9578.6
0400-0500	Somali	15335
0400-0600	Turkish	15060
0500-0600	Swahili	17760
0600-0900	HQ	9530 11785
0600-0900	MAP	9718.2 11708.5 11818.5
0900-1200	HQ	17880 21495 v15278.83
0900-1200	MAP	11818.5 15060
1000-1200	Indonesian	21640
1200-1400	Urdu	15345
1200-1500	MAP	15060 15230 15377
1200-1600	HQ	7150 15277.8
1400-1500	Bengali	15345
1400-1600	Persian	11730
1500-1600	Turkmen	9730
1500-1700	COI	11780 11948.2 11965
1600-1700	Bambara	17775
1600-1800	HQ	7150(-1700) 9730 11708.5 11833.4
1700-1800	MAP	11780 11948.2 11965
1700-2100	2ndP	12038.51
1800-2100	HQ	9703.2 11935
1800-2300	MAP	9555 9870

(MAP/Call of Islam can be also heard on 10990 or 3868 in USB, and 2nd program in LSB)(Timofeyev/NEERS/DXW/Bueschel-DRG/WWDXC Topnews)

**SEYCHELLES** *FEBA Radio* W97 sked:

0115-0200	Tamil	7350
0200-0215	Hindko	9785 Mo
0200-0215	Siraiki	9785 Fr-Su
0200-0215	Urdu	11690 Sa-Th
0200-0230	Telugu	7350
0200-0230	Urdu	11690 Fr

0215-0230	Punjabi	11690 Sa-We
0215-0230	Sindhi	9785 We-Mo
0230-0245	Baluchi	9785 Sa/Su
0230-0245	Pushto	11690
0245-0300	Dari	11690
0300-0330	Farsi	11690
0315-0345	Swahili	9820 Tu/Fr
0315-0400	Swahili	9820 Sa-Mo/We/Th
0345-0430	Arabic	11695
0400-0415	Portuguese	9455 Th
0400-0430	Portuguese	9455 Fr-We
0430-0500	Dari	15555 Fr
0500-0558	Tagalog	15555 Su
0530-0600	Sinhala	15555 Fr
0800-0815	Oriya	15540 Th
0800-0830	Malayalam	15540 Su
0800-0845	Telugu	15540 Sa
0800-0900	English	15540 Fr
0815-0900	Hindi	15540 Th
0830-0845	Badaga	15540 SU
0845-0900	Kannada	15540 Sa
0845-0900	Tamil	15540 Su
0915-0930	French	15430
1000-1058	Tagalog	15540 Fr
1100-1130	Arabic	15540
1145-1200	Tsangla	15445 Sa/SU
1200-1205	Creole	11675
1200-1230	Tibetan	15445
1205-1220	French	11675
1230-1245	Nepali	15445
1245-1300	Mundari	15445 Fr-We
1245-1300	Nagpuria	15445 Th
1300-1315	Bhili	15445 Fr/Sa
1300-1315	Kui	15445 Su/Tu
1300-1315	Oriya	15445 Mo/We/Th
1300-1330	Malayalam	11600
1300-1330	Tamil	9810
1315-1330	Bhojpuri	15445
1330-1345	Chattisgarhi	15445 Sa-Th
1330-1345	Gujarati	11600
1330-1345	Marwari	15445 Fr
1330-1400	Sinhala	9810
1345-1400	Hindi	15445
1345-1400	Marathi	11600 Su
1345-1400	Punjabi	11600 Mo-Sa
1400-1415	Urdu	11600
1400-1443	Urdu	9810
1412-1442	Bangla	15445
1415-1458	Hindi	11600
1443-1458	Hindko	9810 Th-Sa
1443-1458	Urdu	9810 Su
1500-1515	Badaga	7270 Mo-Tu
1500-1515	Konkani	7270 We/Sa
1500-1515	Tulu	7270 Th/Fr
1500-1530	English	11600 Ti-Sa
1500-1530	Kannada	7270 Su
1500-1545	English	11600 Su-Mo
1500-1558	English	9810 Mo-Sa
1515-1530	Kannada	7270 Mo-Sa
1530-1545	Nuer	11705 Fr-Mo

1532-1547	Makondi	9795 We-Su
1545-1600	Dinka	11705 Fr-Mo
1600-1615	Hazaragi	11600
1600-1630	Amharic	11725 Fr-Su
1613-1643	Swahili	9810 Th
1613-1658	Swahili	9810 Fr-We
1615-1630	Dari	11600
1615-1630	Guragena	11725 Mo-We
1630-1700	Amharic	11725
1700-1730	Oromo	11725 Su
1700-1730	Somali	11745
1700-1730	Somali	9810
1800-1830	Farsi	9455
1800-1830	Tamil	11745 Fr
1830-1845	Azeri	9455 Fr-Su
1830-1900	Malayalam	11745 Fr
1833-1848	French	9500 Tu/We
1833-1903	French	9500 Th-Mo
1900-1945	Arabic	9455

(15-Nov/FEBA Radio/Vissers-BEL/WWDXC Topnews)

**SINGAPORE** *Radio Corporation of Singapore* sked for Home and External SW services:

0000-1100	Chinese HS	6000
0000-1100	English HS	6155
0000-1100	Malaysian HS	7245
0000-1600	Tamil HS	7170
1100-1400	Chinese ES	6000 6120
1100-1400	English ES	6015 6155
1100-1400	Malaysian ES	6070 7245
1400-1600	Chinese HS	6000
1400-1600	English HS	6155
1400-1600	Malaysian HS	7245
2200-2300	Malaysian HS	7260
2300-2400	Chinese HS	6000
2300-2400	English HS	6160
2300-2400	Tamil HS	7170

(RCS/Padula/EDXP/Padula-AUS)

**SOMALIA** Radio Hargeisa

0330-0530	Somali	7071-v(7061-7071)
1500-1800	Somali	7071-v(7061-7071)

(BBCM)

6915U *R. Mogadishu-V. of the Masses*, 1946, Local vocal, man in Somali; usual tinny phone-quality sound with low speech audio. Had been on 6930 only a few days ago; currently unheard on any channel. (9-Nov/Hill)

**SRI LANKA** *VOA* still testing its new relay site at Iranawila; not likely to start broadcasting until early 1998. Test-tone-only sked is loosely 0300-1100 and 1200-1400. 17895 was testing on 30-October. Eventually this new site will have at least four 500-kW transmitters. (BBCM + many others)

**SWITZERLAND** During a sightseeing tour to Swiss SW transmitting stn Schwarzenburg in last week, the following information was given: Swiss Telecom

Schwarzenburg transmitter site will close on March 26, 1998, definitively. (9-Nov/Bruelhart-SWL/WWDXC Topnews/Bueschel-FRG)

**Swiss Radio International** has expanded English from 30 to 60 minutes, at 1100, 1300 and 1400, and the existing hour at 0400 has been expanded to all three frequencies, 9905, 9885 and 6135 instead of just 9905; but there is also a 15-minute English now at 1600 (Hauser-OK/WORLD OF RADIO)

**TAJIKISTAN** 5750 *Tajik R.* 1830 Here and on // 5800 with exotic flute music and M vocals; man in Turkic language (no doubt Tajik or Uzbek) at 1845, followed by woman at 1850. Resumed flute music, which now sounded more Western (a la Zamfir), interspersed with comments by man and woman. Both outlets off at 1900 as per sked. (14-Nov/Hill-MA)

**TANZANIA** 11734.1 *R. Tanzania Zanzibar*, 1805 producing reasonable audio for a change. AA mx, low-voiced announcer, prayers around 1850, anthem 1959 and off at 2000, right on schedule. (6-Nov/Novello-NC)

**THAILAND Radio Thailand W97 schedule:**

0000-0030	English	11905 9680* 9655 4830
0030-0100	English	15395 13695* 9655 4830
0100-0200	Thai	15395 13695* 9655 4830
0300-0330	English	11905 15460* 9655 4830
0330-0430	Thai	11905 15460* 9655 4830
0530-0600	English	15115* 11905 9655 4830
1100-1115	Vietnamese	11905 9655 7285* 4830
1115-1130	Cambodian	11905 9655 7285* 4830
1130-1145	Lao	11905 9655 6040* 4830
1145-1200	Burmese	11905 9655 6040* 4830
1200-1215	Malay	11905 11805* 9655 4830
1215-1230	Indonesian	11905 11805* 9655 4830
1230-1300	English	11905 9810* 9655 4830
1300-1315	Japanese	11905 9655 7145* 4830
1315-1330	Chinese	11905 9655 7145* 4830
1330-1400	Thai	11905 9655 7145* 4830
1400-1430	English	11905 9655 9530* 4830
1800-1900	Thai	11905 11855* 9655 4830
1900-2000	English	11905 9655 9535* 4830
2000-2015	German	11905 9655 9535* 4830
2015-2030	French	11905 9655 9535* 4830
2030-2045	English	11905 9655 9535* 4830
2045-2115	Thai	11905 9655 9535* 4830

\*via VOA Udon Thani (BBCM + Hauser)

**TURKEY** 6900 *Metereolojimin Sesi Radiosu*, Ankara, 0517-0540, Turkish, musical program (Turkish music), man announcer, comments and ID "...Metereolojimin Sesi Radiosu..." (19-Nov/Eramo/DSWCI DX Window/Veldhuis-HOL)

**UKRAINE Radio Ukraine International W97:**

0000-0100	German-I	5905 5915 5940 6010
		6020 6080 7290 7420
		9560

0000-0100	Ukrainian-II	7150
0000-0400	Ukrainian-III	6050
0100-0200	English-II	7150
0100-0200	Ukrainian-I	5905 5915 5940 6010
		6020 6080 7205 7290
		7420
0200-0400	Ukrainian-I	5915 5940 6010 6020
		6080 7205 7420
0200-0400	Ukrainian-II	7150
0400-0500	English-I	5915 5985 6020 7205
0400-0500	English-II	7150
0500-0600	Ukrainian-I	5985 6020 7205 7420
0500-0600	Ukrainian-II	6030 7150
0600-0700	Ukrainian-I	5985 6020 7285 7420
		9610 11825
0600-0800	Ukrainian-II	6030 7150 7285
0700-0800	Ukrainian-I	5985 7285 7320 7420
		9610 11720 11825 13590
0800-1200	Ukrainian-II	7285
0800-1300	Ukrainian-I	5985 6020 7285 7320
		7420 9560 9610 11720
		11825 13590 15520
		17680
0900-1200	Ukrainian-III	17725
1200-1300	English-II	7285
1200-1300	English-III	17725
1300-1400	Ukrainian-I	5985 6020 7285 7320
		7420 9560 11720 11825
		13590 15520 17680
1300-1500	Ukrainian-III	17725
1300-1800	Ukrainian-II	9870 7285
1400-1500	Ukrainian-I	5985 6020 7285 7320
		7420 9560 11720 13590
		15520 17680
1500-1600	Ukrainian-I	6020 6080 7285 7420
		9560 11720 13590
1600-1700	Ukrainian-I	5940 6020 6080 7285
		7420 9560 11720
1700-1800	Ukrainian-I	5905 5940 6020 6080
		7285 7420 9560 11720
1800-1900	Ukrainian-II	9870
1800-2000	German-I	5905 5940 6020 6080
		7420 9560
2000-2100	Ukrainian-I	5905 5940 6010 6020
		6080 7205 7420 9560
2000-2200	Ukrainian-II	6085
2100-2200	German-I	5905 5940 6010 6020
		6080 7205 7420 9560
2200-2300	English-II	6085
2200-2300	Ukrainian-I	5905 5915 5940 6010
		6020 6080 7205 7420
		9560
2300-2400	Ukrainian-I	5905 5915 5940 6010
		6020 6080 7205 7290
		7420 9560

Relay of Belarus:

1900-2000	6010 7205
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Relay of Shalkar:

0200-0400	5905 7290
0400-0500	7290

0500-0600 7290 9620 11840  
0600-1500 9620 11840  
1500-1600 11840

(25-Oct/Sajuk-FRG/Ukraina DX-Monitoring-World-Ring/DX Antwerp website + 13-Nov/Ludwig-FRG/WWDXC Topnews/Bueschel-FRG)

11720 *Kazak Radio* via Kiev 1355 Nice assortment of solo guitar music and exotic light vocals before 1400 IS. ID incorporating "Kazak...Radio," then back into same type of music. 1430 different IS, W ID beginning "Almata...", and into discussion program. Beautiful signal at this time of day. (20-Oct/Novello-NC)

**UNITED ARAB EMIRATES** Convoluted sked assembled from conflicting reports for *VoUAe Abu Dhabi* in Arabic:

0200-0400 15315 17770 21735  
0345-0500 6170 9695 21630 21735  
0500-0600 13755 21630 21735  
0600-0700 13605 13755 21735  
0700-0800 13605 13755 17885 21630  
0800-1200 13755 17760 17770(-1100) 17885  
1200-1300 9515 17760 17885  
1300-1500 9515 13605 17760 17885  
1500-1600 9515 9570 11710 13605  
1600-???? 6180 7170 9570

Beware of Kuwait also on 17885 kHz, and Qatar on 17895; Oman on 11890 & 15140. UAE Radio Dubai at 1100 on 13675 new 15370 15395 21605. (9-Nov/Bueschel-FRG, Green-UK + Hill-MA/WWDXC Topnews + 21-Nov/Timofeyev/NERRS Mon/DSWCI DX Window/Veldhuis-HOL + Padula/EDXP/Padula-AUS)

**Dubai:** Monitored 0300-0330 AA, 0330-0400 EE 13675 15400, 0415-0530 AA and 0530-0600 EE 15435 17830 21700. Sign-on appears to be 0300 in lieu of 0230. (17-Nov/Padula/EDXP/Padula-AUS)

**URUGUAY** 9595.04 *R. Monte Carlo* (CX20 relay), Montevideo, 0210 & 0230+ Spanish vocal by woman at 0210; single time pip at 0230, then fluted music w/ F vocal. Gone before 0300 recheck. 0215-0244\* Nov 11, full canned program anmt, ID and freq by man during audio peak at 0217; guitar music bridging talk at 0225; 2+1 pips this time at 0230. Jingle and program promo at 0241 followed by excited M announcer until audio suddenly cut at 0244. OC remained on past 0300. (10-Nov/Clark-ONT)

9622.42 *SODRE* (CX26 relay), Montevideo (p), 0130-0210 carrier and a few bits of talk by man poking through around LAM vocal at 0136-40. Audio pretty much lost thereafter. (12-Nov/Clark-ONT)

9650.35 *Emisora Ciudad de Montevideo* (CX42 relay), Montevideo, 0137-0208\* excited M announcer with sports broadcast. Fair and surprising standing out in the clear at tune-in; Good peak at 0153 and the broadcast (possibly tape-delayed) cont'd past 0200 without time pips until 0207 jingle and

man with closing program anmt and clear ID as "Emisora Ciudad de Montevideo" by man at 0208. Carrier then cut immediately. Apparently only on irregularly—no sign of it circa 0130 on Nov 14. (13-Nov/Clark-ONT) The sked for this SW outlet is daily 1300-2130. Occasionally, when sport events are broadcast, s/off occurs later, as it was this case. These are soccer matches. The station also uses to broadcast in extended sked when February's summer carnival starts. By the way, still no date for expected inauguration of its second SW freq of 15230. (18-Nov/Nigro-URU)

**USA Radio Marti** W97, all in Spanish:

0000-0300 6030G 7365G  
0300-0400 6030G 7365G 7405G  
0400-0500 6030G 7405G Tu-Su  
0500-0700 6030G Tu-Su  
0700-0900 6030D Tu-Su  
0900-1000 5890D 6030D Tu-Su  
1000-1200 5890D 6030D  
1200-1400 7405D 9565D  
1400-1500 11930G 13820G  
1500-1700 11815D 11930G 13820G  
1700-1800 9825G 11815D 11930G 13820D  
1800-2200 9825G 11930G 13820D  
2200-2300 11930G 13820D 15330D  
2300-2400 6030G 13820D 15330D

D=Delano G=Greenville (IBB)

After clashing more than two weeks with Radio Australia 9580 at 1200-1350, *Voice of Greece* via Greenville finally moved, found Nov 11 on 9690 instead, clearing RA except for light LSB bubble jamming just like RFPI 7385 (11-Nov/Hauser-OK)

The 500 kW SW stn in Maine previously known as *WCSN* and *WVHA* has finally been sold. The buyer is LeSea Broadcasting, owner of WHRI and KWHR. Price was only \$1.5 million, and this may drive down the price for other SW stns on sale, such as WRMI asking \$650K. Due to regulatory red tape, the Maine stn is not expected back on the air until Dec. (30-Oct/Thurman/World Of Radio/Hauser/WWDXC Topnews/Bueschel-FRG)

**WMLK** 9465.02 is still on the air, noted afeter AWR s/off M EE. Also noted @0645, 0905, 1700 and 1800. Off the air, irregularly, on Saturdays. (31-Oct/Alexander-PA)

1700 *WCMQ*, Miami Springs, FL, 0325 with usual Cuban exile programming, parallel to usual 1210 with Philadelphia station phased. 10 to 30 over S9 in North Carolina, depending on antenna used for reception. Hard to believe this is only 1000 watts. (3-Nov/Novello-NC) [I know it's not exactly short-wave, but it's already been heard well overseas, and there is a great deal of interest in this one...AQ]

**UZBEKISTAN R. Tashkent** D97 sked:

0030-0100 Uighur 5060  
0100-0130 English 5955 5975 9540

0130-0200	Dari	5955 5975 9540
0200-0230	Pashto	5955 5975 7205 9540
0230-0330	Uzbek	5955 5975 9540
0400-0430	Turkish	15165 15330
1200-1230	English	5060 5975 6025 9715
1230-1300	Uighur	5040
1230-1300	Urdu	5060 5975 6025 9715
1300-1330	Hindi	5060 5975 6025 9715
1330-1400	English	5060 5975 6025 9715
1400-1430	Urdu	5060 5975 6025 9715
1430-1500	Chinese	5040
1430-1500	Hindi	5060 5975 6025 9715
1520-1550	Dari	5060 5975 6025 9540
1530-1600	Uighur	5040
1550-1600	Uzbek	5975 6025 7105 7205 9650
1630-1700	Persian	5975 6025 7205
1700-1730	Arabic	5975 6025 7205
1700-1730	Turkish	7105 9540
1730-1830	Uzbek	7205 9540
1830-1930	Persian	6025 7105
1900-1930	Arabic	5975
1935-2030	German	5035 5060 6230 7105 9540 11905
2030-2100	English	7105 9540
2130-2200	English	7105 9540
2330-0000	Chinese	6050

**Uzbek Radio:** Local service

0000-2100	Uzbek-1	5995
0000-2300	Uzbek-2	4850
0430-1230	Uzbek-2	15165 15330
0930-1000	local	4510
1200-1230	local	4510
1230-1300	Uzbek-2	15330
1300-1400	Uzbek-2	7105 15330
1400-1500	Uzbek-2	7105
1630-1700	Uzbek-2	7105 9540
2100-2130	Uzbek-2	7105 9540
2200-2300	Uzbek-2	7105 9540

(NDXC/EDXP/Padula-AUS)

**VIETNAM** 4795.3v *Tuyen Quang* is here some days, not regular active. Clear ID's. Not// 5924.5 & 4959.6, til 1430\*, moderate signal. (4-Nov/Schulze-PHL/WWDXC Topnews/Bueschel-FRG)

4796v *R. Son La* (t), 1218-1401\*, Vn talks and local mx

6463v *R. Yen Bai* (t), 1138-1214\*, Vn talks and local mx

6541v *R. Cao Bang*, \*1200-1400\*, Vn talk and local mx

One more station—*R. Lao Cai*—was observed on usual frequencies of 5598v and 6701v (18-Nov/Timofeyev/NERRS Mon/DSWCI DX Window/Veldhuis-HOL)

4959.6 *Hanoi*, 1544-1550, Vietnamese music, ID and same tune as played at start of VoV transmissions, W speaker, presumably reading the news. (22-Nov/Veldhuis/DSWCI DX Window/Veldhuis-HOL)

5924.55 *Hanoi 1*, 1140, lots of talk. // 10059.75. (23-Nov/Novello-NC)

*Voice of Vietnam* relay in Spanish at 0300-0330, English 0330-0400 is on new 5905 ex-7260. Wonder if this is Germany now instead of Russia (Grishin/Review of Int'l Broadcasting/Hauser)

**YEMEN** 5951 *Rep. of Yemen Radio* (t), 1915-2210\*, What I originally thought might be Guyana here turns out to be a Middle Eastern station with Arabic talk and vocal music typical of the region. Time pips are given at 2030, but there is never any break on the hour. The most likely candidate is Yemen's nominal 5950, seldom reported but still active per overseas DXers. Although it's definitely not 9780v, both leave the air within a few seconds of each other—so a possibility is Sana'a with two separate programs. (11-Nov/Hill-MA)

**YUGOSLAVIA/BOSNIA Radio Yugoslavia W97**  
English sces

0100-0130	6195 7115 Mo-Sa
0200-0230	6100 7230
1330-1400	11835
1930-2000	6100 9720
2200-2230	6100 6185

Serbian sces to AUS/NZL:

1400-1430 (RTS)	11835
2030-2100	7230 Su-Fr
2030-2130	7230 Sa Special program

All via transmitter site Bijeljina in Srpska, Bosnia. (Radio Yugoslavia/Padula-AUS/WWDXC Topnews/Bueschel-FRG)

**UNIDENTIFIED** 6237.24, 0415 Classical-style instrumental music, maybe 20th century Russian stuff. 10/9 signal, 5 minutes of news 0501 after instrumental theme and intro that sounded like "Informatizone Shkode," then back to the same music. Not present Nov 14, and neglected to check on Nov 15. Renegade Albanian? (13-Nov/Novello-NC)

I have often noted a unid ME Arabic station on 7295 kHz at around 0400-0530 last time. There were some ID's very like to Iraqi State Radio announcements and some mentions as "*Izaat-ul...Iraq...*," "*Baghdad*," "*Saddam*," etc. But may be it was an anti-Iraqi station? Strong interference till 0400 from RL in Belorussian, then from VoA in English...(17-Nov/Timofeyev-RUS/DSWCI DX Window/Veldhuis-HOL) till 0400 from RL in Belorussian, then from VoA in English...(17-Nov/Timofeyev-RUS/DSWCI DX Window/Veldhuis-HOL)

# Pirate Radio Report

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P.O. Box 146  
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Internet: lobdell@tiac.net

Hi and welcome the holiday edition of THE PIRATE RADIO REPORT. I'd like to wish all of you a great Christmas and New Year's. There should be lots of activity in between.

## MV Electra Radioship Update

The MV Electra is all finished and ready to go. The latest delay was caused by the need to hire a new pilot and one has just been signed up. An organization called *Frontline International* [this is a religious group] is now identified as funder of the project. Weiner no longer expects the the ship will carry the Yesterday USA Network. As we mentioned before, there is one 10 kw shortwave transmitter and a 1 kw backup installed on the ship. The antenna is an inverted V without much gain, but the sea water will help. Weiner says that his part of the project, installing the radio equipment is done, and he will not be sailing with the ship to the Caribbean.

Dr. Scott Becker [the disbarred lawyer] says that the project is fully funded and has plenty of money. [Hauser, RIB via WOR; NU #1450] On a snowy Sunday morning, November 23<sup>rd</sup>, I drove the 15 miles down to see if the MV Electra was still in port. It was still there, now painted in purple and white. All its lights were lit and the diesel engine was chugging away. Calls to the ship have gone unreturned, so I haven't been able to get any first hand information.

## The FCC Cracks Down On FM Pirates

Over the past couple of months, the FCC has been closing many of these low powered stations in various cities throughout the US. This is due partly in response to the NAB [National Association Of Broadcasters] who urged the FCC to do this, claiming they were QRMIing legitimate stations.

A couple of members have sent in interesting

newspaper articles on the FM scene. Bruce Barker in PA sent us an article on Doug Brewer's "*Tampa's Party Pirate*" from the 10-21 edition of the Wall Street Journal. This station was raided and silenced in mid-November along with two other Tampa pirates. One operator was even jailed because of pot and related items that were found during the bust. Publisher Bill Oliver sent an article from *The Philadelphia Enquirer* about WSKR-FM, a pirate in West Philly that had recently been closed by the FCC. The good news is that the FCC seems to have their hands full with the FM guys. There hasn't been a bust of a shortwave pirate in about three years.

## Loggings

**ALTERED STATES RADIO** was noted with their Halloween special on November 1<sup>st</sup> at 1900 on 6955 kHz USB. They announced the Box 293, Merlin, Ontario NOPIWO maildrop. [Dave Krause-OH]

**FRIDAY RADIO** was heard on October 16<sup>th</sup> on 6955 kHz USB at 2337 sign on, featuring pop mx and a crazed announcer yelling "We are freer than Hell" over and over. [Bill Wilkins-MO]

**RADIO AZTECA**, the station that broadcasts "*everything that's gross but tasteful*" was heard on November 2<sup>nd</sup> on 6955 kHz USB at 2309 with music and "*we are not making these up*" news items submitted by listeners. [Eric Bueneman-MO] The station was also heard on 1 Nov. at 1935 by Dave Krause in Ohio.

**RADIO FREE SPEECH** had their Halloween Show airing on November 2<sup>nd</sup> at 1430 UTC on 6955 kHz in the AM mode. A "scary" QSL card was offered for correct reception reports. [Krause-OH]

Thanks for the reports guys! Until next month,  
*Happy Pirate DX!*





# QSL Report

**Sam Barto**  
47 Prospect Place  
Bristol, CT 06010



We have a great QSL Column this month...Sam.

**SPECIAL OFFER:** Your QSL Editor is offering foreign postage stamps to use as enclosures or gifts with your reception reports. Several ace DXers have ordered this package on many occasions. We are offering 900 stamps for \$5.00 (300 US); 1900 stamps for \$10.00 (600US); or 2900 for only \$15.00 (900US). Most stamps will be commemoratives. This is one of those offers that is very hard to pass by. Please try to inclose \$3.00 for USPO 2 day delivery....Sam.

**ANGUILLA:** Caribbean Beacon 6090 f/d "Studio Building" cd. in 5 mo. for \$1.00. v/s Monsell Hazel. C/V # 215.(Palmer-shheim-WA).  
**ANTARCTICA:** LRA36 Radio Nacional Arcangel San Gabriel 15476 f/d cd. in 170 ds. v/s Victor H. Figueroa, Director.(Castro-BRASIL).  
**ANTIGUA:** BBC Caribbean Relay Company 5975 n/d ltr. via FAX in 1 day for a FAXed f/up rpt. v/s David Bones, Assistant Company Manager.(Maroti).  
**ASIATIC RUSSIA:** Voice of Russia 12010, 12050, 13645 and 13665 via Petro-pavlovsk-Kamachtsky f/d "Kremlin" cd. in 1 mo. (Palmer-shheim-WA). 15455 and 15595 via Komsomolsk-on-Amur f/d cd. in 1 mo.(Palmer-shheim-WA).

## CADENA CARACOL

Hemos recibido su amable reporte de sintonía; nuestras emisoras de onda corta en las bandas Tropical e Internacional de 49 y 82 Mts. son:

Frec. Khz Reportada	Potencia Kiovatios	Ident.	Ciudad	Ubicación Longitud	Latitud	Operación Horas
6.150	10	HJOR	Bogotá	75° 17'	2° 56'	24
5.075	50	HJGC	Bogotá	74° 5'	4° 41'	24

### CARACOLS S.A.

Apartado Aéreo 9291  
Santafé de Bogotá, D.C.  
COLOMBIA - Sur América  
OSL o reporte de sintonía  
Fecha: 5 MAYO 1997

Nombre SR. RANDY STEWART  
País U S A  
Dirección 425 WEST LA OCA  
Apdo. Aéreo SPRINGFIELD, MO 65802-5615

9550 via Xian f/d "Logo" cd. in 1 mo. w/ sticker and pennant. (Palmer-shheim-WA).  
**CROATIA:** Croat Radio 5895 f/d ltr. in 30 ds. after a f/up rpt. for \$1.00. v/s Bozidar Tomanek. C/V # 209.(Wilkins-CO).  
**ECUADOR:** HCJB 9745 f/d "Hummingbird Statue" cd. in 1 mo. for ms.(Weissborn). 15140 f/d "Guapalo Ravine" cd. in 5 mo. for a SP rpt. and ms.(Weissborn).  
**GERMANY:** Swiss Radio International 13635 (Weissborn)  
 \* via Julich "Federal Archives" cd. in 1 mo. (Field-MI). West Coast Radio Ireland 9875 via Julich p/d "Mayo Coastline" cd. in 61 ds. for 2 IRCs.(Wilkins-CO).  
**GREECE:** Voice of Greece 6260 via Avlis f/d cd. w/ site indicated in 5 wks. w/ schedule.(Field)  
**GUAM:** Adventist World Radio 9650, 7400, 11980 and 9370 f/d cd. in 1 mo. w/ schedule.(Field-MI).  
**HAWAII:** KWHR 11565 f/d "Special Test" cd. in 3 wks. for an E-Mail rpt.(Maroti-NY).  
**HONDURAS:** HRMI Radio Misiones Internacional 5890 f/d \* cd. in 3 mo. for a SP rpt. v/s Wayne Downs. (Palmer-shheim). f/d cd. in 5 mo. for a SP rpt.(Weissborn-TX). f/d "Logo" cd. in 84 ds. for \$1.00. (Wilkins-CO).  
**INDIA:** All India Radio 5010 via Thiru'puram f/d cd. in 5 mo. after a f/up rpt. direct to the station not Delhi.(Palmer-shheim-WA).

**BOLIVIA:** Radio A.N.D.E.S. 4777 n/d form ltr. with blanks filled in after 3 mo. and a SP rpt. v/s Francelo Quisbert Salinas.(Field-MI).

**BONAIRE:** Radio Nederlands 6165 and 6020 2 cds. in 6½ mo. (Sgrulletta-NY).

**CHINA, PEOPLES REP. OF:** Radio Canada International 7150 & 6150 (Palmer-shheim-WA).



**WKND** #191  
**WE'RE KANINE DOG!**  
**DX HOUND**  
 TIME 2134-2143  
**SAMUEL BARTO, CT**  
**OUTSPOKEN X HOUSEBROKEN OPERATOR**  
**RADIO ARMA** RADIO BHUJAL  
**DATE 4-1-95**  
**6955.3 kHz**  
**PWR. 100W\***

**ITALY: Adventist World Radio 7240 via For-11 f/d cd. w/ "DX Contest" endorsement, personal ltr and a newsltr. in 5 wks. for \$1.00. (Maroti-NY).**

**KALIMANTAN: RRI Banjarmasin 3250 n/d "Bamboo Rafting" EG/IN cd. in 37 ds. for \$1.00. This is my 40th IN QSL. (Wilkins-CO).**

**KALININGRAD: Universal Life Radio 15460 f/d cd. w/**

site in only 9 ds. v/s Johanna Limley. VIC #210. (Wilkins-CO). im-WA)  
**KAZAKHSTAN: Radio Free Asia 7550 n/d ltr. w/ sticker in 5 mo. (Palmer-**

**VERIFICATION SIGNERS: HVVC 4820 Modesto Palma. Addr: A.P. 3252, Tegucigalpa. All India Radio - Imphal 4775 A.K. Bhatnagar, Chief Assistant Engineer. RRI Kupang 3385 Drs. P. M. Tisera, Kepala. ABC Dublin 6938 Brandon Gaffney. XERMX Radio Mexico Internacional 9705 Juan Mort, Gerente. (Station has a new pennant). XEOI Radio Mil 6010 Zoila Quintanar Flores. Radio Horizonte Chachapoyas 5020 M. Sloedad Sanchez Castro, Administrador. Radio Union 6115 Juan Zubiaga S., Gerente. Radio America 6010.7 Jorge Arriola Vivan, Promociones y Marketing. Radio Atlantida 4790 S. ra Carmela Lopez Paredes, Directora Program Trocha Turistica. Addr: Jiron Arica 1083, Iquitos. National Radio & Television of Turkmenistan 5010 G. Khammamedov, Chief of the Technical Department. Addr: Mollanepes Street 3, Ashgabat 744000. YVIO 5000 Jesus A. Excalona, Jefe de Servicio....via PLAY DX....Sam.**

<b>Verification of reception</b>  We acknowledge with thanks your reception report on our <sup>5.2</sup> transmission at 1795 UTC of 1795 kHz. on 26-5-95  <b>EGYPTIAN BROADCASTING</b>  Propagation Department Broadcast & Television Building Cornish EL Nil N.O.11511, P.O. Box 1186 - Cairo	<b>Vérification de Réception</b>  Nous vous remercions pour votre rapport d'écoute à destination de..... sur..... kHz..... en date du..... à..... UTC.  <b>DADIOIFFUSION EGYPTIENNE</b>  Département de propagation Immeuble de la Radio Télévision Rue Corniche du Nil N.O.11511, B.P.1186 - Le Cairé
--	---

**KENYA: KBC 4935 n/d ltr. in 2 mo. v/s Martin Ouma Ojwach, Maralal Station Engineer. He stated that the \$1.00 was never rcvd. by him at the station. (Maroti-NY).**

**KOREA, REPUBLIC OF: Radio Korea International 6480 2 f/d cds. in 3 wks. after my last f/up rpt. via toll free FAX. (1-888-229-2312)(Maroti).**

**LIBYA: Radio Jamahiriya 15415 f/d cd. in 13 wks. for a rpt. sent to the Malta address. (Maroti-NY).**

**MALAYSIA: Radio Malaysia 4845 via Kajang f/d ltr. in 51 ds. v/s Zulkifli Ab. Rahim, Engineer. (Wilkins-CO).**

**OMAN: BBC Eastern Relay Station 11760 f/d ltr. including a small photo of the transmitter site in 7 mo. v/s Chris Dolman (G4VUO, A45XL),**

Senior Transmitter Engineer. (Maroti-NY). 5975 f/d ltr. in 283 ds. after a f/up rpt. (Sgrulletta-NY).

**PERU: Radio La Voz de San Antonio 6627 prepared cd. w/ personal ltr. in 3½ mo. after a f/up rpt. in SP w/ SASE. This was 2½ yrs. after my original rpt. v/s Valentin Mejia Vasquez. Addr: Jr. Mariscal Sucre No. 644, Bambamarca. (Lazarus).**

110 0700 0000  
 DIRECTOR GENERAL ALL INDIA RADIO  
 A.V. Bhasan, Sansed Marg, New Delhi-110001 INDIA  
 No. 3/197 /EIII/ 2419 Dated. 28-7-97  
 Dear Sir/Madam,  
 We gratefully acknowledge and confirm your Reception Report.  
 Date 29-12-95 Frequency 4880 kHz  
 Time 1214 UTC Station LUCKNOW  
 Yours faithfully,  
 (Director / Dept. Assignments)  
 Jie. Gen. (A.V. BHASAN NAGAR)  
 Parliament Street

O.I.G. SRP  
  
 MR. SAMUEL BARTO  
 47, PROSPECT PLACE  
 BRISTOL CT 06010  
 U.S.A.

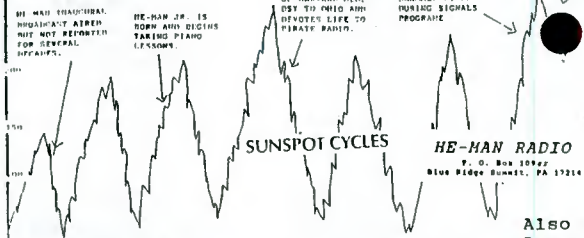
RICHARD A. D'ANGELO

# HE-MAN RADIO

QSL # 282

DATE 20-3-1993  
TIME 2308-2345 UTC  
FREQ 7415.3 kHz USB  
v/s. He-Man

HE-MAN RADIO INTL.  
FAMOUS PIRATE STATION  
PAUL ARDREACISS  
FADING THE VOICE  
OF WMP. BE THE  
SECRETS OF THE  
LIVE PIRATE PART  
OF SHOW 17



**Radio Union** 6115 f/d cd. in 32 mo. for a SP rpt. (Field-MI).

\* **Radio Reina de La Selva** 5465 f/d cd. w/ personal ltr. in 7 wks. for a SP rpt. v/s Jose David Reina, Gerente. (Field-MI). **Radio Atahualpa** 4820 rpt. was returned stating the 97 address was no good and that the station moved. (Field-MI).

**PHILIPPINES: FEBC Radio International** 9405 f/d "Hibiscus" cd. in 110 ds. for a CH rpt. and 3 IRCs.

Also rcvd. a personal ltr. from Roger Foyle, DX Secretary. (We-

**RUSSIA: Radio Maryia** 12010 n/d ltr. w/ sticker, schedule and other goodies in 99 ds. for \$1.00. v/s D. Jaceyk Cydzik, Redakeja Informacyjna. Site is possibly **Samara**. (Wilkins-CO). same in 1 mo. w/ schedule. A few days later I received a 2nd QSL. (Field-MI). **Voice of the Mediterranean** 9765 and 12060 f/d cd. in 10 wks. w/ schedule and sticker. (Field-MI).

**VERIFICATION SIGNERS: RRI Ujung Pandang** 4753 Drs. Musitano, Head of the Station. **Radio 510 International** 3985 D.J. Stevie Addr: PF 510, CH-4010 Basel, Switzerland. **Voice of Mongolia** 12085 D. Batbayar. **Radio Myanmar** 7185 Ko Ko Htway, Chief Engineer. Addr: GPO Box 1432, Yangon 11181, Myanmar. **Radio Manaus** 3315 John Mandrakamu. **Radio Madang** 3260 Geo Gedebing, Provincial Programme Manager. **Radio Nacional del Paraguay** 9736 Fermin Espinola. Addr: Blas Garay 241, c/. Iturbe, La Asuncion, Paraguay. **Radio Cora** 4915 Juan Ramirez Lazo, Director. Addr: Centro Civico, Lima 1, Peru.....via PLAY DX.....Sam.



Islamic Republic of Iran Broadcasting  
PO Box: 19392 - 6147 TEHRAN - IRAN

**SAINT HELENA: ZHH Radio Saint Helena** 11092.5 f/d cd. in 5 mo. for 1 IRC. (Weissborn-TX)

**SINGAPORE: BBC Far Eastern Relay Station** 3915 "Transmitter Site" cd. in 92 ds. Addr: 26 Olive Rd. (Castro-BRASIL).

**SOUTH AFRICA: The Investment Channel** 11870 f/d "SABC" cd. in 1 mo. v/s Kathy Otto. (Palmer-sheim-WA).

**SUMATRA: RRI Jambi** 4925 f/d prepared cd. in 5 wks. for an IN rpt., ms., cassette tape and address label(used). v/s Buchari Muhammad. Thanks to John Sgrulletta for assistance on this one. (Maroti-NY).

**THAILAND: Radio Thailand** 15395 f/d cd. in 7 wks. for 1 IRC. v/s Amporn Samosorn, Chief. (Rugg-ONT).

**USA: Radio Miami International** 9955 f/d "Certificate" in 11 mo. for SASE. (Weissborn-TX).

**KAIJ** 15725 f/d "Two If By Sea" cd. in 5 mo. for ms. after 5 f/up rpts. v/s Fred Bithell. (Wilkins-CO). **KJES** 7555 f/d folder cd. in 1 mo. Addr now: The Lords Ranch, Vajo, NM 88072. (Field).

\* **Voice of Greece** 11730 and 9590 f/d cd. w/

**DIRECTORATE GENERAL AIR AND RADIOTELEVISION**  
A.V. Bhambhani **GOVT. SERVICES**  
New Delhi-110001 INDIA

No. 311/97/EM/26/93 Dated. 4-7-97

Dear Sir/Madam,

We gratefully acknowledge and confirm your Reception Report.

Date 5:547 Frequency 4850 kHz  
Time 15:07 Station KOHIMA  
UTC

Yours faithfully,  
Director (Freq. Assignments)  
**(A.K. BHATTNAGAR)**  
Asst. Gen. Secy. (In-charge)  
Min. of A.I. India Radio  
110001 New Delhi

O.I.G.S. SERVICE  
MR. MAHENDRA VAGHJEE  
5 MC IRVINE STREET  
BEAU BASSIN  
MAURITIUS  
INDIAN OCEAN

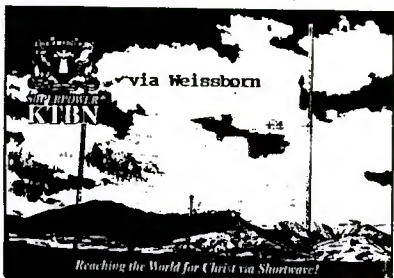
311/97/25 Police  
Thamson

site in 5 wks. Also rcvd. 2 "50th Anniversary" stamps of the station. (Field). Radio NADECO 5070 via WWCR f/d sheet in 27 ds. for ms. v/s Martins Anyaegbu. This was via the Washington DC addr. (Wilkins-CO).

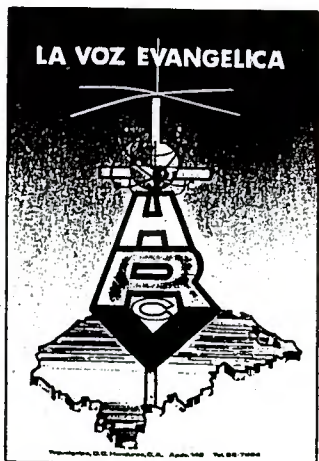
USA (Pirates): Radio Eclipse 6955 f/d QSL sheet #41 in 78 ds. for 3 ms. v/s Steve Mann. (Wilkins-CO). WREC 6955 f/d "Beach Scene" cd. in 37 ds. for 3 ms. (Wilkins-CO). KRAP 6955 f/d sheet in 27 ds. v/s Fred Flinstone. (Stephens-AL). WLIS 6955 f/d "Ian McFarland sheet in 28 ds. for ms. (Stewart-MO). Orbital Mind Control Satellite 6955 p/d sheet in 21 ds. for ms. (Stewart-MO). WRYT 6955 p/d thank-you note in 25 ds. for 3 ms. (Wilkins-CO). Free Hope Experience 6955 f/d "Logo" cd in 65 ds. after a f/up rpt. (Stephens).

Voice of Bizarro World 6955 p/d "Cartoon" sheet in 41 ds. for a rpt. posted in the alternative.radio.pirate.newsgroup. (Stephens-AL). WMFO 6955 n/d QSL sheet in 34 ds. for 3 ms. Station also sent along a Maine State lottery ticket. (Wilkins-MO)...Did you win?...Sam.

VENEZUELA: YVPY Radio Amazonas 4939.4 f/d "Logo" cd. in 45 ds. for a SP rpt. after a f/up rpt. v/s Mr. Brinceno. (Palmerheim-WA). p/d cd. w/ ltr. in 65 ds. after a f/up rpt. in SP. This is my 12th VZ State QSLed.



"Senior Venezuelan DXer" and the "Senior Brazilian DXer" Awards from the club. Good going...Sam. James Crain is a newcomer to the QSL Column and to the hobby. Thanks for the order and keep me posted on how the stamps work...Sam. Jill Dybka sent along a very nice assortment of Holiday QSLs and XMAS cds. from around the world. We'll get them in the QSL Column in the near future...Sam.



Applied for and rcvd. NASWAS "Senior Venezuelan DXer" Award. (Wilkins-CO). f/d cd. in 6 wks. on my 3rd try for a SP rpt. (Field-MI).

ZAMBIA: Radio Christian Voice 3330 p/d form ltr. w/ schedule in 53 ds. after a f/up rpt. v/s Beatrice Phiri. (Wilkins-CO). f/d ltr. in 43 ds. for \$1.00. (Palmerheim-WA).

Kind of a short QSL Column this month. I know for a fact that next month will be packed with great QSLs...Sam.

*Sam*



Verification of Reception

We acknowledge with thanks your Reception Report of our English transmission at 7381.0 UTC. 9900..... KHZ on 24.6.97

RADIO CAIRO  
EXTERNAL SERVICES  
P.O. BOX 566 - CAIRO - A.R.E.

Vérification de réception

Nous vous remercions de votre rapport d'écoute sur Notre émission à destination de ..... sur ..... KHZ en date du ..... à ..... TUC

NOTES: Allan Loudell of Bear, DE hopes everyone had a very productive DX summer season. You asked if anyone had an extra or would like to part with one of those very beautiful Radio Portugal "World Map" QSL cards from the 60's? I believe you said that you had either lost or misplaced yours. Anyway, I hope you got the one I sent you. Best of Dxing...Sam. John Wilkins says Dx has been rather slow but he has finally managed to get the



# Contributors' Page

**Fred S. Kohlbrenner**  
2641 S. Shields St  
Philadelphia, PA 19142  
Internet: fkohl@ix.netcom.com

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

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA  
Bruce BARKER, Exton, PA  
Jerry BERG, Lexington, VA  
Erik BUENEMAN, Hazelwood, MO  
Jim CLAR, Rochester, NY  
David CLARK, Thornhill, ONTARIO  
Peter COSTELLO, Matawan, NJ  
Ralph FAMULARO, Hyugo-ken, JAPAN  
Mark FINE, Remington, VA  
Bob FRASER, Cohasset, MA  
Bill FLYNN, Cave Junction, OR  
Bob HILL, Littleton, MA  
David KRAUSE, Eastlake, OH  
Marie LAMB, Brewertown, NY  
Harold LEVISON, Philadelphia, PA  
Gigi LYTTLE, Lubbock, TX  
George MAROTI, Mt. Kisco, NY  
Paul McDONOUGH, Medford, MA  
William McGUIRE, Cheverly, MD  
Mark MOHRMANN, Coventry, NY  
Gary NEAL, Sugarland, TX  
Ed NEWBURY, Kimball, NE  
Jay NOVELLO, Wake Forrest, NC  
Jon OLDENBURG, Little Chute, WI  
Ed RAUSCH, Cedar Grove, NJ  
Jim RENFREW, Rochester, NY  
Christos RIGAS, Wood Dale, IL  
Chuck RIPPEL, Cornland, VA  
Betsy ROBINSON, Clinton, TN  
David ROSS, Hamilton, ONTARIO  
Conrad ROUTH, Chamblee, GA  
Giovanni SERRA, Rome, ITALY  
John SGRULETTA, Mahopac, NY  
Randy STEWART, Springfield, MO  
Tom SUNDSTROM, Vincentown, NJ  
Takayuki Inoue NOZAKI, Tokyo, JAPAN  
Terry WOLF, Bellville, OH  
Dan ZIOLKOWSKI, South Buffalo, NY

AOR AR-7030 100' LW

R8 165' LW

ATS-803A MFJ-1778 G5RB antenna

R8 Sony 2010 Eavesdropper LW

R8A ANC-4 Carolina Beam

AR3030 DX-390 70' LW

ICF-SW55 ATS-803A R5000 LW

Sony ICF-2003 ICF-SW100S 2m LW

R8 DX-Ultra inverted V

Sony 2010/whip 120' dipole RW Loop

HF-150 DX-392 MFJ-16010 60m LW Loop

R8 R70 YB400

Sony 2010 10/30m dipoles MFJ-956 tuner

DX-380

NRD-535D 440' V beam @ 180 degrees

Grundig YB-400

WJ-1000 R8 60'Sloper 20' loop

R8A LW's

R5000 Sony 2010 MFJ-959 Eavesdropper

R8 A/D Sloper

R2000 Sony 2010 and 2002 Sloper AN-1

WJ-HF1000A R8B R390A/SE-3 51S-1 LW's

Sony 2010 Indoor antenna

R8A Sherwood SE-3 2010 50' inverted L

NRD-535 220' LW

NRD-525 AD Sloper

NRD-515 AD Sloper Moseley trap dipole

FRG-100 w/Collins filters

Sony 2010 LW

R8 Sloper SPS NRF-7 SEM QRM Eliminator

Best wishes and Happy Holidays to all!



# Tropical Band Loggings

Sheryl Paszkiewicz  
P.O. Box 152  
Manitowoc, WI 54221-0152

- 2360 GUATEMALA R Maya 11/7 0330 LA dance mx ads, chatter, nothing rustic, ID 0359 (Nove-NC)
- 2390 USA WNCR 10/23 1047 Brother Stair pgm (Newb-NE)
- 3132.5 MOLUCCAS RSPDT2 Halmhera 10/24 1343 IN pops, anmts (Fly-OR)
- 3139.9h DOM REP R Amanacer 11/9 1045 tlk //6025 (Mohr-VT)
- 3200.4 BOLIVIA R 9 de abril 11/7 0939 huaynos fast tlk M w/mic gain too low, hrd under mx (Mohr-VT)
- 3220 NEW GUINEA R Morobe 9/25 1058 ment Port Moresby, short tune & drums, nx (Mohr-VT)
- 3234.9 PERU R Luz y Sonido 10/12 1020 TCs, IDs, rustic mx (Clar-NY)
- 3255.1t BRAZIL R 6 de agosto, 10/18 1005 accordion mx, PT tlk (Nove-NC)
- 3264.7 SULAWESI RRI Gorontalo 10/22 1115 non-stop pop mx (Nove-NC)
- 3280 ECUADOR LV del Napo 10/12 1035 comunicados, rel mx (Clar-NY)
- 3290 GUYANA GBC 11/7 2302 John Denver, EG ID (Lamb-NY)
- 3306 ZIMBABWE R3 9/29 0257 EG tone, NA, anmt, Afr mx (Fly-OR)
- 3315p ADM ISL R Manus 10/16 1128 tlk abt auto insurance, instl version of Your Mama Don't Dance (Sgru-NY)
- 3326.1 NIGERIA R 1 10/23 2230 Amer jazz (Nove-NC)
- 3329.3 PERU Ondas del Huallaga 11/7 0948 huayno, ad, ID (Mohr-VT)
- 3330 ZAMBIA Christian Vo 10/18 1729 alleluia in mx, DJ (Serr-IT) 10/25 0355 C&W, ID, overwhelming CHU (Clar-ON)
- 3366 GHANA GBC 11/10 2233 class mx, EG ID, nx (Buen-MO)
- 3375 BRAZIL R Clube 10/7 0110 PT version of Silence is Golden, ID (Nove-NC)
- 3375 NEW GUINEA R West. Highlands 10/22 1141 local mx, tribal sounding, ID (Sgru-NY)
- 3385 NEW BRITAIN RENB 10/22 1055 choral mx, ID, nx in Tok Pisin, only PNG audible this morning (Mohr-VT)
- 3395 SUMATRA RRI Tanjungkarang 10/25 1456 anmt, SCI, nx (Fly-OR)
- 3396 ZIMBABWE R 3 10/31 0313 suddenly on, no IS, Afr pops (Ripp-VA)
- 3400 LIBERIA Star R 0455 on/off sev times, tlks, Afr drums, fair level for 4 kw (Clar-ON) 10/25 0456 tone, NA, anmts (Alex-PA)
- \*3450 LIBERIA R Veritas 11/14 0600 drums, EG ID, Mass (Raus-NJ)
- 3925 JAPAN R Tampa 11/8 1115 Western and JP pops, 1130 ID, back to back pops (Ripp-VA)
- 3955U ITALY IRRS 10/10 2113 IT rel pgm, bank ad, Brubeck (Hill-MA)
- 3970 CAMEROON CRTV Buea 10/10 //4850 nx at 2200, way too strong for 4 kw (Hill-MA) Congrats on finally nailing this down--sp
- 3970 ENGLAND R Korea Relay 11/8 2130 tuning mx, poss EG (Berg-MA)
- 4080.6 CLAND Vo Peop Kurdistan 11/5 2053 martial mx, KD tlk, long tlk, march to 2110\* (Hill-MA)
- 4200h CUBA R Rebelde 10/11 0915 //5025 usually weak (Mohr-VT)
- 4545 KAZAKHSTAN KR 10/26 0125 KZ chants, ID, nx (Serr-IT)
- 4549.4 BOLIVIA Rdf Tropico 11/8 2305 comunicados, ads, IDs, strong but fighting QRN & RTTY (Nove-NC)
- 4603.2v UNID 10/11 1028 SEAs vcls, drums, drifting (Hill-MA)
- 4682.3 BOLIVIA Paititi Rdf 11/8 2345 comunicados, QRN (Nove-NC)
- 4720.1 UNID 10/21 1005 Andean mx (Nove-NC)
- 4725 MYANMAR VoM 11/8 flute mx, poss ID in sing song cadence at 1200, tlk, fairly strong (Ripp-VA)
- 4734.9 CHINA Xinjiang PBS 10/9 1105 tirade in lang //7194.8 (Nove-NC) 10/13 \*1100 IS of first 7 notes of The East is Red played on electric piano or similar (Nove-NC)
- 4750.1 PERU R San Fran. Solano 10/7 0140 OA mx, tlk 0159\* (Nove-NC)
- 4752.5 UNID 10/11 2317 high voiced tlk, definite LA or Braz (Hill-MA)
- 4753.2 SULAWESI RRI U-P 10/24 1123 IN pop mx (Newb-NE)
- 4760 ANDAMAN ISL 10/13 1105 AIR Pt Blair film mx, ID (Maro-NY) 10/24 1110 SC mx, tlk, 1130 ID (Ripp-VA) 10/16 1117 SC mx, 1130 ID "Akashvani Port Blair" (Mohr-VT)

4770 NIGERIA RN Kaduna 11/7 2109 EG nx, ID (Lamb-NY)  
 4775 INDIA AIR Imphal 10/13 1115 acapella singing, ID (Nove-NC)  
 4775 PERU R Tarma 11/5 1018 IDs, pop mx (Mohr-VT) 10/18 1025  
 rancho style mx, IDs (Nove-NC)  
 4777 GABON RTV 11/7 2129 FR tlk, ID (Lamb-NY) 11/10 2150 Afr mx,  
 FR tlk, ID (Buen-MO) 10/14 2235 interview, IDs (Clar-NY)  
 4779.7 GUATEMALA R Cult Coatan 10/25 1200 folk mx, IDs (TIN-JP)  
 4789.1 IRIAN JAYA RRI Fak-Fak 10/13 1140 IN pops, OM DJ (Nove-NC)  
 4790 PERU R Atlantida 9/29 2330 TC, ID, slogans, pol tlk (Clar-NY)  
 10/16 1100 ID, huaynos (Robi-TN)  
 4795.1 BRAZIL Rdf Aquidauana 10/7 0205 class mx, ID (Nove-NC)  
 4799.8 GUATEMALA R Buenas Nuevas 10/24 1105 Xmas mx (Nove-NC)  
 10/11 2358 IDs, anmts, slogans "el corazon del area" (Clar-NY)  
 10/25 1220 regional mx w/marimba (TIN-JP)  
 4800 INDIA AIR Hyderabad 10/19 0039 EG nx, lang anmts, mx (Serr-IT)  
 4800.7 MEXICO XERTA 9/19 0939 EG ID, ranchera mx, full SP ID, good  
 (Mohr-VT) 10/12 0815 SP songs, DJ IDs in EG/FR. Read letters  
 phone number (Berg-MA)  
 4815 ECUADOR El Buen Pastor 10/11 0304\* rel mx, Quechua (Alex-PA)  
 4819.3 HONDURAS LV Evangelica 10/23 1059 kids singing, barnyard  
 animals, marimba (Newb-NE) 9/27 1038 mx, ID, poor (Ziol-NY)  
 4820 BOTSWANA RB 10/17 0257 cowbells, roosters, EG anmts (Newb-NE)  
 10/21 2055 pop & gospel mx, lang tik, NA 2201\* (Nove-NC)  
 4824.4 PERU LV de la Selva 10/21 1022 Macarena song (Nove-NC)  
 4824.9 GUATEMALA R Mam 10/25 1206 ranchera mx, ID, anmts (TIN-JP)  
 4830 VENEZUELA R Tachira 10/23 1025 interview, pops (Newb-NE)  
 4831.8 COSTA RICA R Reloj 10/20 0210 all alone & strong (Sund-NJ)  
 4835 GUATEMALA R Tezulutlan 9/14 1206 marimbas, ID (Rout-GA)  
 10/23 1228 marimbas, tik in lang (Newb-NE) 10/18 0038 ment  
 Coban & Tezulutlan, marimbas (Serr-IT)  
 4835 MALI RTM 11/8 2125 tik over guitar, brass band, FR (Lamb-NY)  
 11/10 2205 Afr mx, FR tlk (Buen-MO)  
 4840 PERU R Andahuaylas 10/15 1000 musica Andina (Robi-TN)  
 4841 VENEZUELA R Valera 0345 anmts, NA (Rout-GA) 10/12 0020 LA pops  
 echo IDs (Clar-NY) 9/26 2339 interview, ID, splatter from  
 Tezul. (Mohr-VT)  
 4845.2p BRAZIL R Cult Onda Tropicais 10/19 0052 tlk, unclear ID (Serr)  
 4850 CAMEROON 11/7 2121 hiliife mx, FR anmts (Lamb-NY)  
 4850 UZBEKISTAN UR 2 10/6 0120 Asian vcis, IS, tnx Costello (Nove)  
 4855.5 PERU R La Hora 11/6 2310 huge sig w/on-location sports, ment  
 Cusco, Coca-Cola, IDs (Nove-NC)  
 4865 BRAZIL R Alvorada 10/20 2235 rel tik, Ave Maria, speech  
 2300 ID & ment emisora Catolica, ad (Nove-NC)  
 4865 CHINA Gansu PBS 10/27 1600\* CH tlk, no anthem (Flyn-OR)  
 4865.1 BRAZIL R Sentinela 11/6 0310 vcis, ID, ment Para (Nove-NC)  
 4870 BENIN ORTB 11/7 2115 FR tlk, speech, nx (Lamb-NY) 11/10 2210  
 pop mx, FR tlk (Buen-MO)  
 4879.7 ECUADOR RN Espejo 10/11 0150 ballads, IDs, jingles (Alex-PA)  
 4885 BRAZIL Rdf Acreana 10/21 0930 IDs, Braz pops (Mohr-VT)  
 4885 BRAZIL R Clube do Para 10/18 0051 mx, IDs (Serr-IT)  
 4885 KENYA KBC 10/10 2104 EG benediction, rel mx, anmts (Hill-MA)  
 4886.8 PERU R Villa Rica 10/2 1107 phone no., ID, folk mx (Famu-JP)  
 4890 PAPUA NBC 9/14 1126 ment Rabaul, 1200 EG nx (Rout-GA)  
 10/23 1230 PD tlk, C&W, pops (Newb-NE) 10/22 1200, full anmts  
 about nx svc being downsized for financial reasons (Nove-NC)  
 10/10 1158 EG nx (Renf-NY)  
 4904.7 PERU R La Oroya 11/9 1024 ID, TC, huayno (Mohr-VT)  
 4905p BRAZIL R Anhanguera 11/7 0143 Braz pops, echo anmts (Sgru)  
 10/18 0107 long tlk, mx, poor (Serr-IT)  
 4905 CHAD RNT 11/8 2115 Afr mx, FR tlk, ID 2121 (Lamb-NY)  
 4905 CHINA CNR 10/19 2250 EG lessons, 2nd pgm? (Clar-NY)  
 4907.7 PERU R La Oroya 11/6 0330 SP/EG pop mx, anmts, TCs, IDs (Nove)  
 4914.4 PERU R Cora 9/29 0915 audible in LSB w/tlk, IDs (Ziol-NY)  
 10/3 0735 mx, tik, fair (Famu-JP)  
 4915 BRAZIL R Anhanguera 10/18 0128 Braz nx, TC, mx, IDs, ment  
 R Nacional too, be careful w/ID (Serr-IT)  
 4915 COLOMBIA Armonias del Caqueta 10/29 1109 instls, ballads, TC,  
 IDs, faded by 1125 (Mohr-VT)  
 4919 ECUADOR R Quito 10/23 1111 rapid tik, ID (Newb-NE)  
 4920 INDIA AIR Chennai 10/6 \*1200 IS, ID, SC mx (Nove-NC)

4925 SUMATRA RRI Jambi 11/4 1157 after 30 yrs of DXing, finally hrd  
 Song of the Coconut Islands, 6 TP, tlk (Mohr-VT)  
 4930 GEORGIA Mayak Relay 10/17 0140 IS, RS tlk, folk mx, fluttery  
 sig (Nove-NC)  
 4930.6 HONDURAS R Intl ID (Rout-GA) 10/16 1130 nx, ID (Robi-TN)  
 4935t BRAZIL R Capixaba 10/21 2337 tlk & cheers (Sgru-NY)  
 4935 KENYA KBC 11/8 2108\* EG nx, TC, cntry, ID, NA (Lamb-NY)  
 11/2 2100 TP, EG ID, nx, prayer, no anthem 2107\* (Ripp-VA)  
 11/8 1842 Europops, soul mx, 3+1 TP (Hill-MA)  
 4935 PERU R Tropical 10/17 1045 rel tlk, IDs, fast nx (Nove-NC)  
 4939.5 VENEZUELA R Amazonas 10/31 0400\* mx, anmts, NA (Alex-PA)  
 \*4945 BRAZIL Emis. Rural 10/15 0000 ID, ment Petrolina, prayer to  
 0110\* (Sgru-NY)  
 4960 ECUADOR R Federacion 10/12 2323 lang tlk, chant like mx,  
 Andean flutes, SP ID (Clar-NY)  
 4960t INDIA AIR 10/23 1114 singing anthem, weird mx, pops (Newb-NE)  
 4960 VANUATU RV 10/4 0835 lang ment Vanuatu, etc (Famu-JP)  
 4965 BOLIVIA R Juan 23 9/10 0942 beating w/a much weaker Alvorada.  
 anmts btwn LA pops, IDs, ment Santa Cruz (Mohr-VT)  
 4976 UGANDA RU 11/8 0345 lang hymn, EG nx, mx (Sgru-NY) 10/22 0404  
 EG nx, much abt Kampala, exc (Ripp-VA)  
 4980 VENEZUELA Ecos del Torbes 10/23 1034 anmts, nx w/doorbell(Newb)  
 4985 BRAZIL R Brasil Central 10/19 0015 live futbol, ID (Serr-IT)  
 11/7 2343 mx, tlks, ID, addr (Lamb-NY) 10/6 0847 pops, tlks  
 (Ziol-NY) 10/20 0120 all alone & S9+, ID 0206 (Sund-NJ)  
 4991 PERU R Ancash 10/14 0930 ID, buenos dias (Robi-TN)  
 4995 PERU R Andina 11/7 2319 fast OA mx, tlk, IDs, ads (Lamb-NY)  
 11/6 2350 sparkling Andean female vcels, ID 2353, comunicados  
 best reception in awhile (Nove-NC)  
 5005p NEPAL RN 11/10 1148 flutes, anmts, poss 1215 nx, good (Sgru)  
 10/18 1715\* chat, instl mx, ID (Serr-IT)  
 5009.6 MADAGASCAR RM 10/12 0257 IS, NA, rel pgm (Alex-PA)  
 5010 INDIA AIR Thiru. 10/24 0105 film mx, ads, tones (Nove-NC)  
 5013.4v DOM REP R Cristal musica Dominicana, IDs, addr (Clar-NY)  
 10/24 2243 ID, mx (Ross-ON)  
 5015 BRAZIL R Pioneira 9/14 0131 PT/US mx, ID 0156 to 0158\* (Mohr)  
 5015 TURKMENISTAN Asgabat 10/24 0120 guitar mx, S8 sig (Nove-NC)  
 5019.9 PERU R Horizonte 10/15 1115 Andean guitars, chipmunk vcels,  
 echo anmts, ID & TCs (Nove-NC)  
 5020 SOL ISL SIBC 10/5 0830 EG community bulletin board (Famu-JP)  
 5030 SARAWAK RTM Kuching 11/14 2225 lang tlk, NA, ID (Raus-NJ)  
 5030.1 COSTA RICA AWR 10/18 0200 rel mx, ID, sermon (Serr-IT)  
 5035.1 BRAZIL R Aparecida 10/18 0210 Ave Maria, phone call, rel  
 pgm, IDs (Serr-IT)  
 5045 BRAZIL R Cult Para 10/26 0253\* mx, canned IDs, sambas (Serr)  
 10/9 0220 80s Braz pops, ID, hollow audio (Nove-NC)  
 5050 CHINA Vo Strait 11/4 1200 5+1 TP //4940, hoping for AIR  
 Aizawl (Nove-NC)  
 5054.9 FR GUIANA RFO Cayenne 11/4 2130 FR pops, nx 2200 (Sund-NJ)  
 5055 PAKISTAN RP 10/4 1515 nx theme, ID, lang tlk (Famu-JP)  
 5060 ECUADOR RN Progreso 10/10 2345 echo anmt, folk mx (Alex-PA)  
 5060.1 CHINA Xinjiang PBS 10/26 1648\* tlk, class mx, TP, mx (Serr-IT)  
 5070 USA WWCW 9/14 2204 ham radio pgm (Rout-GA) 10/23 1038 pol  
 pgm (Newb-NE)  
 5077 COLOMBIA Caracol 9/14 0006 ID (Rout-GA) 10/23 1040 beer ad,  
 ID, Lone Ranger in SP (Newb-NE) 10/4 0845 mx pgm (Levi-PA)  
 5085 USA WGTG 9/14 2350 rel mx, ID (Rout-GA)  
 5100 LIBERIA RL 9/14 2208 Afr mx, ment Liberia (Rout-GA)  
 5384.9 PERU R Huarmaca 11/7 0235 SP mx mix, pre-teen YL DJ, NA to  
 0259\* (Nove-NC)  
 5500 CLAND Vo Tigray Rev 11/6 \*0355 solo string IS, echo anmts  
 instl theme, nx //6315 (Nove-NC) 10/31 0424 xylo type mx,  
 tlks on and off (Ripp-VA)  
 5629.8 PERU R Ilucan 9/26 0959 drumroll, TC, ID (Mohr-VT)  
 5637.2 PERU R Peru 10/3 1015 canned IDs, huaynos (Mohr-VT)  
 5767.3 PERU R Master 10/25 1055 cumbias (TIN-JP)  
 5770 NICARAGUA R Miskut 11/2 2331 discussion, mx (Ripp-VA) 11/5  
 1112 ranchera mx, ID (Mohr-VT)  
 5835 KALININGRAD R Ned Relay 10/17 2110 in EG //11655 (Renf-NY)  
 5880 LIBERIA Star R 10/13 \*0458 tone, IS, EG anmts, lang tlk (Ripp)



# International Band Loggings

Wallace C. Treibel  
357 N.E. 149th Street  
Seattle, WA 98155

- 5915 SLOVAKIA R Slovakia in EG 1851, weekly review of events in Slovakia, ID (Famularo JP 10/10)
- 5970 ASCENSION IS BBC relay in EG 0054, Green Peace demo against Shell Oil (Newbury NE 10/14)
- 5975 OMAN BBC relay in EG 1959\*, req listeners to shift to other freqs at s/off, f (Sgrulletta OH 10/18)
- 6005 SEYCHELLES BBC relay in EG 2023, "Newshour", business & world nx, ID (Lamb NY 11/7)
- 60201 BRAZIL R Gaucha in PT 0914, TC, ment Porto Alegre, promo, ad, ID (Mohrmann VT 9/17)
- 6030 USA R Marti in SP 0250, Game 5 of World Series, jammed by Cubans (Bueneman MO 10/24)
- 6035 SAO TOME VOA relay in EG 1955, Steel drum mx, "Africa World Tonight" (Lamb NY 11/7)
- 60454 PERU R Santa Rosa Lima in SP 1006, non-stop huaynos mx, ID, TC 1020 (Nozaki JP 10/25)
- 6050 CYPRUS BBC relay in EG 2144, EG teaching pgm, ID, "Lead Vocal", interview (Lamb NY 11/8)
- 6055 RWANDA R Rwanda in FR 2028, pops, tlk re World Cup soccer (Maroti NY, Serra ITALY 10/14)
- 6075 PORTUGAL Deut Welle relay in GM 0100, ID, mainly national nx, g (McGuire MD 10/24)
- 6100 BOSNIA R Yugoslavia relay in EG 2325, pop song, ID, fqy, sked, IS, s/off 2329 (Lamb NY 11/8)
- 61054 BOLIVIA R Panamericana in SP 1009, 2 OM's tlking, "Buenas Dias, La Paz", marching band mx, Andean mx (Famularo JP 10/2) in SP/lang 0956, huayno, ID, tlk in lang, vg (Mohrmann VT 9/23)
- 6120 CROATIA Croatian R in EG 0200, ID, rpt on the Balkans (McGuire MD 10/29, Krause OH 10/28)
- 6130 LAOS Lao Nat R in lang 1200, Big Ben bells 1200, ID by YL, nice copy (Rippel VA)
- 61351 BRAZIL R Aparecida in PT 2220, choral samba relig songs, relig tlk, //5035 (Novello NC 10/8)
- 6135 SOUTH AFRICA BBC relay Meyerton in PT 2036, ID, nx?, pop mx, //7125 (Lamb NY 11/7)
- 6145 RUSSIA R Nederland relay Kaliningrad in DT 0455, IS, TC, ID, nx, interview (Clark ONT 10/25)
- 6160nf VATICAN STATE Vatican R in EG 2303\*, teenagers discuss family problems, ID (Famularo JP)
- 6180 CYPRUS CBCC in GK 2244\*, hi-pitched flute mx, long tlk, warped mx tape (Famularo JP 9/27)
- 6185 CANADA Deut Welle relay Sackville in EG 0310, nx re Greece-Turkey problems (Newbury NE)
- 6200 IRELAND United Christian BC in EG 2300, nx, wx, sports, ID's, relig mx (Alexander PA 10/17)
- 62037 PERU R Cusco in SP 0930-0955+, OA campo mx, anmts, f (Alexander PA 10/31)
- 6220nf ANGOLA VORGAN in PT 2010-2102\*, pop mx, ID, fqy, low-key tlk, nx, echo chamber anmts ment "Boa Noite Angola", IS & NA at s/off, new fqy repl 5985? (Novello NC 11/5, Lamb NY 11/8)
- 65358 PERU R Huancabamba in SP 1019, OM w/patriotic tlk, husaynos, TC, ID (Mohrmann VT 9/26)
- 65494 LEBANON V of Lebanon in AR 0255, "River Kwai" IS, theme song, NA, AR mx (Mohrmann VT)
- 67255 PERU R Satellite in SP 0003, non-stop anmts, ID's, TC's, g but some ute QRM (Clar NY 10/4)
- 68114v nf PERU Ondas del Rio Mayo in SP 2310, tlk, ID's, slogans, ment "Cajamarca", into musica andina (Clar NY 10/25) in SP 0955-1110, huaynos, anmts, ID, NA (Alexander PA 10/31, Nozaki JP 10/18)
- 6970usb nf COSTA RICA RFPI in EG 2320-0245, FIRE pgm, ID, "New Dimensions Radio", mailbag, promo, repl 7585 fqy, //73853 (Alexander PA, McDonough MA, Krause OH, Levison PA, Lamb NY 11/8)
- 6950 CHINA China R Int in EG 1225, ID after tlk by YL, target audience unknown (Costello NJ 10/25)
- 6900 TURKEY Turkish Meteorological Station Ankara in TK 0430, TK mx, tlks, f (Rippel VA 10/19)
- 7115 SWEDEN R Sweden in EG 0330, "60 Degrees North", IS, ID, g (Krause OH 10/30)
- 7145 UNITED KINGDOM BBC Skelton in EG 0714, promo, ID, "Off the Shelf" (Famularo JP 10/2)
- 71418 PERU R Ayabaca in SP 2327, huaynos w/OM ancr, TC's, ID's, horoscope (Mohrmann VT 9/27)
- 7150 UKRAINE RUI in EG 0101, IS, ID, sked, national & regional nx (McGuire MD 11/1, Lamb 11/9)
- 7170nf UNITED ARAB EMIRATES R of the UAE in AR 2130, ID, story, QRM VOR (Hill MA 11/6)
- 7185 OUTER SPACE MIR Shuttle in EG 2217, discussion re repairs to MIR, //3860 (Wolf OH 9/30)
- 7200 SUDAN Rep of Sudan R in AR \*0250-0335+, IS, NA 0300, Koran, lcl Mid-East style mx, vg //9200 on 10/19 but not on 10/25 (Alexander PA 10/25)
- 7220 SPAIN R Liberty relay in RS 0045, jazz pgm, ID "Radio Svoboda", IS at top of hr (Lamb NY 11/9)
- 7245 TAJKISTAN RT Dushanbe in EG 1649, polit & econ tlk, modern mx played on traditional Asiatic instruments, ID, IS, into AR pgm 1700 (Famularo JP 9/26)
- 7255 NIGERIA VON in EG/FR 2059, end of EG pgm, IS, ID, nx in FR (Bueneman MO, Newbury NE)
- 7255 BOTSWANA R Botswana in lang 0423, Afro pop mx, YL ancr, ID, tlk (Lamb NY 11/8)
- 7260 IRAN VOIRI Teheran in lang 0029\*, mx, tlk by YL/OM, ID, IS before s/off (Lamb NY 11/8)
- 7285 THAILAND R Thailand in lang 1113, IS, ID in EG, promo on upcoming Khmer best (Lamb 11/8)
- 7305 RUSSIA R France Int relay Irkutsk in lang 1121, pop mx, voice over, ID in FR 1131 (Lamb 11/8)
- 7400 RUSSIA R Maryja (Poland) via Samara in PL 1714-1730, interview, ment R Maryja during tlk (Serra Italy 10/14) in RS? 2103-2159\*, call-in pgm, many ments of R Maryja (Renfrew NY 10/18)
- 7410 GERMANY Swiss R Int relay Julich in GM/IT 1855, ID's, into IT 1900, f (Renfrew NY 10/31)  
Note: the 1998 PWBR lists this xmsn as direct from Switzerland but the November LN reports the Julich relay. As Renfrew says "This Julich site is getting quite a workout...."
- 7410 INDIA AIR Bangalore in EG \*1745, IS, mx, nx, cmntry, //13780, 11620 (Renfrew NY 10/31)
- 7475 TUNISIA ERTT Tunis in AR 2059, M East mx, tlk, nx?, ments Sfax & Tunis, p (Bueneman 11/6)
- 7530nf BULGARIA RB in EG 2200, nx, cmntry, wx, ID, classicala mx, //9700 (Alexander PA 10/31)
- 7545 NORWAY RN in NO \*0259, IS, ID, into R Denmark pgming at 0330, //7520, f (Alexander 10/26)

- 7565nf NORWAY R Denmark relay in DN 0230-0255\*, EG ID, DN pgming, //7465 (Alexander PA 10/26)
- 7770 CHINA CPBS Pgm 2 in CH 1135, YL tking, 4 pips 1200, g, //9064, 7440 (Sundstrom NJ 10/18)
- 8098nf ARGENTINA R Continental (USB) in SP 0620-0900, oldies mx, "Algo para Recordar", every 30 minutes a nx flash "Informativo Continental", f (Nozaki JAPAN 10/10) ED: Is this a feeder station?
- 9022 IRAN VOIRI Teheran in AR 0328\*, M East mx, sked, nx, IS, ID, NA (Rippel VA 10/23)
- 9064 CHINA CPBS2 Beijing in CH 1428, tkl, mx break, ID, nx?, pop mx, //6890 (Serra ITALY 10/19)
- 9170 CHINA CPBS Net 6 Beijing in CH 1451, tkl, mx break, ID, more tkl (Serra ITALY 10/19)
- 9200 SUDAN Rep of Sudan R in AR 0425, tkl, ME mx, TP, nx, ments Omdurman (Sgrulletta NY 11/4)
- 9415 AUSTRALIA RA in EG 1235, African mx, ABC nx, ID (Lamb NY 11/8, Krause OH 9/28)
- 9465 SLOVAKIA AWR in lang? 0300-0429\*, ME type mx, IS, EG ID, relig pgm (Alexander PA 11/2)
- 9505 PHILIPPINES R Veritas Asia in IN \*1200, s/on w/EG ID, mixing w/CH stn (Novello NC 10/21)
- 9505 CZECH REPUBLIC R Prague in CZ? 1058\*, tkl, blues mx, IS, p (Ziolkowski NY 10/12) in FR 0902, local nx, classical mx pause, tkl on literature, //11600 (Serra ITALY 10/26)
- 9530 SOUTH AFRICA TWR Swaziland via Meyerton relay in Amharic? 1800, new sked lists Amharic on this fqy to 1815 daily M-F but only IS & EG ID hrd past at least 1808 (Novello NC 10/22)
- 9535 THAILAND R Thailand in EG 1900, nx, cmntry, pgm on cave exploration, ID (Alexander PA 11/1)
- 9550 UKRAINE R RRI Ujng in EG 0300, feature on noted musician, interview, p (Flynn OR 10/3)
- 95523v INDONESIA RRI Ujung Pandang in IN 0810, lite piano & vibraphone mx, tkl by YL & OM, sked for 0800\* but was on as late as 0839 (Famularo JAPAN 9/28, Hill MA 10/10)
- 9565 BRAZIL R Universo in PT 2245, ID's, slogans, wild snd efz, excited speech, f-p (Clar NY 10/13)
- 9565 INDONESIA RRI Jakarta in IN 0907-1110, pop mx, YL DJ, sporting event or auction?, //96799, 9630, 15150, sig powerful one day and barely readable the next (Novello NC 10/23, Hill MA 10/10)
- 9570 ALBANIA R Tirana in EG 1847, ID, EG sked, nx, feature story, f-g, poor modul (Clar NY 10/13)
- 9580 YUGOSLAVIA RY via Bosnia in EG 0000, "50 yrs ago today...the liberation of Belgrade from the Nazis, cops break up protesting Albanian students (Robinson TN 10/20, Newbury NE 10/3)
- 9580 THAILAND BBC relay in EG 2330\*, rpt on tourism in Thailand, nx, IS, QRM RY (Clar NY 10/19)
- 9600 VATICAN STATE VR in EG 2250, ID, weekly feature "As Romans Don't", f (Clar NY 10/13)
- 9650 CANADA Radio Korea relay in EG 1140, "Multiwave Feedback" pgm on DX'ing (Fine VA 11/9)
- 9650nf? INDIA AIR in EG 2205, nx, ID, OM cmntry on India econ (Famularo JP 9/27, Novello NC 10/24)
- 9655 TURKEY VOT in EG 2215, nx, TK pop mx, TK to launch 1st satellite (Robinson TN, Fraser MA)
- 96555 THAILAND R Thailand in EG 1250, EG pgming, ID, clear until Sackville s/on 1258 (Novello 11/3)
- 9675 ITALY RAI Rome in EG 0050, vcls, tkl re IT violinist, IS, ID (Robinson 10/22, Levison PA 10/19)
- 96799v INDONESIA RRI Jakarta in IN 2259, SCI, ID, nx, tlks (Rippel VA 11/2, Clark ONT 10/25)
- 9690 SPAIN China R Int relay in EG 0300, IS, ID, world nx, feature (McGuire MD 11/9, Newbury NE)
- 9700 BULGARIA RB Sofia in EG 2135, "Lifestyles" YL heads pvt school for businesses (Fraser 10/24)
- 97102 LITHUANIA R Vilnius in RS 1300\*, DX pgm, Vilnius QTH, fax #, IS (Novello NC 10/19)
- 9730 SRI LANKA SLBC in EG 0138+, "Back to the Bible", rx, ID 0200, nx, f-p (Stewart MO 11/4)
- 9735 OMAN R Oman in AR 2120, AR chants, march mx, s/off anmts 2130\* (Bueneman MO 11/6)
- 9735 RWANDA D Welle relay in EG 1931, nx of Africa, ID, feature on Comoros Is (Krause OH 10/11)
- 9740 SINGAPORE BBC relay in EG 1200, "World Business Review", Big Ben chimes (Lamb NY 11/8)
- 9750 MALAYSIA V of Malaysia in IN 1006-1300, nx, ID, NA?, DJ, ad-like spots, pop mx, light reggae, jazz, Qur'an, sermon in AR & Malay, //15295 (Hill MA 10/10, Lamb NY 11/8, Novello NC 10/13)
- 9760 GREECE VOA relay Kavalla in EG 2017, rock mx, greetings to listeners in Croatia, Greece, Saudi Arabia, and the Philippines, phone conversation w/ caller from Egypt, f (Bueneman MO 10/22)
- 9780 SAO TOME VOA relay in FR 1858, tkl re death of John Denver, nx, Bee-Gees mx (Clar NY 10/13)
- 9800 FRENCH GUIANA R France Int relay in FR 0330, ID, nx analysis, g (Bueneman MO 10/30)
- 9840 VIETNAM VoV in CH? 1213, vocal w/piano, tlks, into EG pgm 1230, //12020 (Ziolkowski 10/19)
- 9870 AUSTRIA RAI Vienna in EG 0245, mailbag pgm, relig mx on old instrum'ts, g (Levison PA 10/19)
- 9900 EGYPT R Cairo in AR/EG 0004, AR lang lessons, ME mx, TP, ID, nx, f-p (Bueneman MO 10/24)
- 9925 BELGIUM R Vlaanderen in lang? 1129, NA, ID, E Europe target? (Lytle TX 10/23) ED: LN June lists SP s/on at 1130 this fqy but LN Oct states that SP xmsn are being dropped???)
- 9965 ARMENIA V of Armenia in GM 1900-1930\*, relig pgm & mx, EG ID, QTH (Alexander PA 11/2) in EG 2125-2145\*, nx, cmntry, local pop mx, mailbag, g (Alexander PA 11/1)
- 110925usb ST HELENA R St Helena Jamestown in EG \*1858-2306\*, special 4 hour annual broadcast s/on w/trumpet fanfare IS played 4 times, band mx, ID for MW outlet, message from the Governor on the 7th anniversary of Radio St Helena Day, mx sels, phone calls from overseas listeners, fax # given, DX info, devotional message & choral, into "God Save the Queen" (Clark ONT, Sgrulletta OH, Rigas IL, Wolf OH, Rippel VA, Krause OH, Serra ITALY, Levison PA, Flynn OR, Newbury NE) ED: Congratulations to Christos Rigas for staying with the best for the entire 4 hours on October 26.
- 11620 TAJIKISTAN RT Dushanbe in lang/EG 0308-0345, Asian mx, IS, EG ID 0345, fqy sked, nx by YL, checked listed //9905 but nothing audible under strong SRI signal (Rippel VA 10/22)
- 11620 INDIA AIR Bangalore in EG 1833, mailbag pgm, local mx, QRM, f (Krause OH 10/20)
- 11645 GREECE FTH Athens in EG 1850\*, national nx, ID 1849, closing anmts, f (Sgrulletta OH 11/1)
- 11680 NORWAY RNI Fredrikstad in EG 1630\*-1658\*, special best from Fredrikstad xmtr site on closing that site, QTH for spec QSL's, history of RNI & xmtr site, NA (Sgrulletta OH, Sundstrom NJ 10/18)
- 11690 JORDAN R Jordan Amman in EG 1730\*, cocktail piano jazz, abrupt s/off, exc (Novello NC 10/21)
- 11700 NORTH KOREA R Pyongyang in EG 2344, nx, KR mx, ID, fqy sked, into SP service 0000, audio quite distorted w/carrier growl (Ziolkowski NY 10/11, Bueneman MO 10/23)
- 11720 UKRAINE Kazakstan R via Kiev in lang? 1355, nice assortment of solo guitar mx, IS, ID "Kazak... Radio", mx took on relig flavor at 1420 w/call to prayer invocations, g (Novello NC 10/20)

11735nf INDIA AIR GOS in EG \*1000, new fqy not listed in PWBR //15050, 17387 (Hill MA 10/11)  
 117351 URUGUAY R Oriental in SP 2305-2317\*, sports best, ID, jingle, abruptly off (Clark ONT 10/25)  
 117341 TANZANIA V of Tanzania in SH 1805, AR mx, prayers, IS, NA (Novello NC 11/6, Flynn OR)  
 11785v IRAQ R Iraq Int in AR/EG 0248-0430+, AR mx, tlk, into EG 0402, nx (Alexander PA 10/18)  
 11830 BRAZIL R Anhangera in PT 0850, tlk, singing ancmts, ad, ID 0900, fqy, p (Ziolkowski NY 10/16)  
 11835nf? MOZAMBIQUE R Maputo in EG 1110-1135\*, slow ballads, sermon, f w/fading (Fine VA 11/9)  
 11860 SOUTH AFRICA BBC Meyerton relay in EG 1900\*, Afr mx w/DJ, pips & off (Renfrew NY 10/25)  
 11890 PHILIPPINES R Pilipinas via Tinang VOA xmtr in lang 1845, world nx, ID, f (Flynn OR 9/25)  
 11890 SRI LANKA R Japan relay in EG 0150, song "Isle of Capri" in EG, ID 0159 (Levison PA 10/8)  
 11915 BRAZIL R Gaucha in PT 0035, tlk w/several ments of Brazil, ads, ID 0037, f (Ziolkowski NY 10/12)  
 119393 PARAGUAY R Encarnacion in SP 0035-0130, US pop rx, ID 0100, LA ballads (Maroti NY 11/1)  
 12080 ISRAEL Kol Israel in EG 1511, nx, ID, wx rpt, EG pgm sked, QTH (Serra ITALY 10/26)  
 13580 CZECH REPUBLIC R Prague in SP 1459, IS, ID's in various langs, tlk on Prague history and points of interest, feature abt Vanguardismo (Serra ITALY 10/26) //17485 (Krause OH)  
 13690 SRI LANKA D Welle relay Trincomalee in EG 1937, Africa Report, //9765, 11810 (Renfrew 10/31)  
 13760 NORTH KOREA R Pyongyang in EG 2308, pgm on 50th anniversary of Revolution (Fraser 10-14)  
 13780 INDIA AIR Bangalore in EG 1753, sitar mx, anmts, ID 1800, nx, //11620 (Fine VA 10/14)  
 15060 SAUDI ARABIA BSKSA Riyadh in TK 0555\*, continuous AR songs, nx, NA\* (Serra 10/12)  
 15240 SOUTH AFRICA Channel Africa in EG 1659, ID, IS, TP, nx, "Weekend" pgm (Lamb NY 11/8)  
 15295 UZBEKISTAN R Tashkent in EG 1330, IS, ID, pitch for advertisers, g (Novello NC 10/s6)  
 15345 ARGENTINA RAE in IT? 2055, Argentine mx, tlk, piano IS, TP, multi-lingual ID's (Lamb 11/7)  
 15360 SINGAPORE BBC relay in EG 0100, world nx, tlk on religion, f-p (Krause OH 9/29)  
 15485nf USA V of Greece relay Delano in GK 1800-2200, nice sig on this new fqy, //17705 (Rigas IL)  
 15770 INDIA AIR Aligarh in lang 1232, long, uninterrupted tlks, //13710 (Rippel VA 11/6)  
 17675nf? SOUTH AFRICA Channel Africa in EG 1434, Afr mx, ID, feature on elephants (Lamb NY 11/8)  
 21490 ASCENSION IS BBC relay in Afr dialects 1630, nx analysis, ID, f (Buennenan MO 10/23)  
 21560 RWANDA D Welle relay Kigali in GM 1645, tlk, IS 1700, ID, nx, f-p (Buennenan MO 10/23)  
 21655 PORTUGAL R Portugal Int in PT 1702, nx briefs, mx pgm, f-p (Buennenan MO 10/23)

#### CLANDESTINE STATIONS

79995 ERITREA V of Sudan in AR \*0357-0450, monologues in AR, AR songs, ments of Kharioum and Sudan, //9025 both fqys good (Alexander PA 11/2, Rippel VA 10/29)  
 91716 UNIDENTIFIED Mid East Clandestine(p) in AR 1456\*, AR song, sudden off (Serra ITALY 10/19)  
 9445 UNKNOWN SITE R Free Asia(p) in CH 1510, chat alt w/nice Zheng strings (Serra ITALY 10/19)  
 11510 UNKNOWN SITE R Free Asia in CH 2243, YL & OM in Khmer, f-g (Hill MA 10/5) Delano relay?  
 11610 ALGERIA(?) National Radio of the Saharan Democratic Rep in AR 1824, stirring anmts, marches, AR mx, fluttery signal w/echoes, f-p (Flynn OR 10/22)  
 11715nf UNKNOWN SITE V of Free Nigeria in EG 1900-1959\*, polit tlk re Nigerian movement, anti-gov't tlk, Afro pop mx, ID, website, E-mail addr, phone #, Indiana? mail drop, g (Alexander PA 11/1)  
 11785 UNKNOWN SITE R Free Asia in lang? \*2200, s/on w/EG ID, mixing w/Brazil (Alexander 10/10)  
 11850 NORWAY Dem V of Burma relay Kvitsoy in BM 1455\*, mostly tlk, some Asian mx (Flynn OR)

#### TENTATIVE, PRESUMED, OR UNKNOWN

5951 GUYANA V of Guyana(t) in EG 2042, tlks, mx bridges, phone interview, QSB, vp (Hill MA 11/7)  
 59523 BOLIVIA R Pio Doce(p) in SP 1050, emphatic OM tlk, lite mx, more tlk, p (Famularo JP 10/2)  
 6035 CHINA Yunnan BCS Kunming(p) in CH 2235, YL & OM haranguing, poor audio (Novello 10/22)  
 6185 CHINA Huayi BCS Fuzhou(p) in CH 1200, CH pop mx, animated ancrs, TP, no ID (Novello 10/8)  
 6261 PERU R Juanjui(p) in SP 0203-0248, tlks, mx, nx, QRM, no ID (Oldenburg WI 10/21)  
 66396 VIETNAM Lao Cai(p) in VT 1311, folk mx, fanfare, long YL tlk, //55989 & Hanoi on 59246, f-p (Famularo JAPAN 10/4) ED: Would this be a move from listed 6700?  
 6930usb SOMALIA R Mogadishu V of the Masses of the Somali Republic(p) in lang 2022, distinctive Horn of Africa vcls, 3 pips at 2027, tlk by YL, phone-quality audio, weak signal (Hill MA 11/7)  
 9080 UNIDENTIFIED R Progreso?? in SP 0000-0100+, typical sounding LA station, tlk, LA mx, ads, jingles, ment Santa Rosa, ID sounded like "R Progreso", p-g, gone 0200 check (Alexander 10/25)  
 95701 QATAR QBS Doha(p) in AR/EG 1905, pgm re DeGaulle's relations w/Algeria (Novello NC 10/21)  
 9630 BRAZIL R Aparecida(p) in PT 0105, tlk, contemp Christian mx, relig tlk, ID?? (Lamb NY 11/8)  
 9665 BRAZIL R Marumby(p) in PT 2258, relig tlk, frnt "Alleluia", no ID, f w/flutter (Clar NY 10/13)  
 11610 CHINA CPBS Beijing(p) in CH 2320, tlk by OM & YL, vcl, QRM HCJB (Ziolkowski NY 10/9)  
 11925 BRAZIL R Bandeirantes (p) in PT 0043, tlks w/ment of Sao Paulo & Brazil, p (Ziolkowski NY 10/12)  
 120385nf? SAUDI ARABIA BSKSA(p) 2nd Pgm in AR 1810, AR lite mx & tlk (Novello NC 10/21)  
 15090 UNIDENTIFIED Hrd @1528 w/religious mx, TP 1530, severe QRM from Iran (Sgrulletta 10/19)  
 151676 SOCIETY ISLANDS RFO Tahiti(p) in FR 0659, island mx, some 0700, live rpts (Costello NJ 10/25)

#### LAST MINUTE ARRIVAL

5955 SOUTH AFRICA Channel Africa in EG 1629\*, OM w/African mx, f (Blair CA 11/8)  
 9530 THAILAND R Thailand in EG 1429\*, "Travel Thailand", bubble jam, ex-9830, g (Blair CA 11/11)  
 (Merry Christmas and Happy New Year to all the NASWA membership)

# English Schedules

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0000-0010	Radio Japan	6155.0eu	6180.0eu	13630.0as	13650.0as		
0000-0015	V. of Cambodia	11940.4as					
0000-0027	Radio Prague Int'l	5930.0na	7345.0na				
0000-0029	Radio Canada Int'l	5960.0na	9755.0na				
0000-0029	twfha Radio Canada Int'l	6040.0am	9535.0am	11865.0am			
0000-0030	Radio Calro	9900.0am					
0000-0030	Radio Netherlands	6020.0na	6165.0na				
0000-0030	Radio Thailand	9655.0af	9680.0af	11905.0af			
0000-0030	BBC Asian Service	3915.0as	5965.0as	6195.0as	7110.0as	9410.0as	9580.0as
		11945.0as	11955.0as	15280.0as	15310.0as	15360.0as	
0000-0045	All India Radio, Delhi	7410.0as	9705.0as	9950.0as	11620.0as		
0000-0050	Radio Pyongyang	11845.0am	13650.0am	15230.0am			
0000-0100	Radio Australia	9660.0pa	12080.0va	13605.0pa	13755.0va	15510.0va	17750.0as
		17795.0va					
0000-0100	Radio Bulgaria	7375.0na	9485.0na				
0000-0100	Radio Liberia Int'l	5100.0do					
0000-0100	KHBI Saipan, Marianas	15665.0as					
0000-0100	Voice of Russia	5940.0na	7105.0na	7125.0na	7180.0na		
0000-0100	VOA	7215.0as	9890.0as	11760.0as	15185.0as	15290.0as	17735.0pa
		17820.0as					
0000-0100	twfha VOA	5995.0am	6130.0ca	7405.0am	9455.0ca	9775.0am	11695.0ca
		13740.0am					
0000-0100	WWCR Nashville TN	3215.0na	5070.0na	7435.0na	13845.0na		
0000-0100	WYFR Okeechobee FL	6085.0na	9505.0na				
0000-0200	Overcomer Min., Germany	5840.0na					
0000-0200	Radio Exterior de Espana	6055.0na					
0000-0200	BBC World Service	5970.0sa	5975.0am	6175.0na	9590.0am	9915.0sa	11750.0sa
0000-0200	WHRI Noblesville IN	5745.0va	7315.0am				
0000-0200	WSHB Cypress Creek SC	7535.0na	9430.0sa				
0000-0400	NBC Windhoek, Namibia	3270.1af	3289.9af				
0000-0400	WINB Red Lion PA	11950.0va					
0000-0400	WRNO New Orleans LA	7355.0na					
0000-0500	Radio New Zealand Int'l	15115.0va					
0000-0500 s	a SIBC Solomon Islands	5020.0do					
0000-0500	a SIBC Solomon Islands	9545.0do					
0000-0500	KWHR Naalehu HI	17510.0as	17555.0pa				
0000-0600	CBC Northern Service	9625.0do					
0000-0600	mt,whf ZLXA New Zealand	3935.0do					
0000-0600	a ZLXA New Zealand	5960.0do					
0000-0600	WGTC McCaysville GA	5085.0na					
0000-0700	HCJB Quito Ecuador	9745.0na	21455.0uf				
0000-0700	SBC Radio 1, Singapore	6155.0do					
0000-0700	Radio Vanuatu	7260.0do					
0000-0830	ABC Alice Springs	4835.0do					
0000-0830	ABC Katherine	5025.0do					
0000-0830	ABC Tennant Creek	4910.0do					
0000-0900	Nat'l BC, Papua NG	9520.0do	9675.0do	11880.0do			
0000-1000	Voice of Guyana	3290.0do					
0000-1100	Caribbean Beacon	6090.0am					
0000-1200	R. for Peace Int'l	6980.0uf	7385.0va				
0000-1200	WEWN Birmingham AL	5825.0va					
0000-1400	KAIJ Dallas TX	5810.0na					
0000-1600	RTM Radio 4, Malaysia	7295.0do					
0000-1600	KTBN Salt Lake City UT	7510.0na					
0000-2400	CFCX Montreal PQ	6005.0do					
0000-2400	CFRX Toronto ON	6070.0do					
0000-2400	CFVP Calgary AB	6030.0do					
0000-2400	CHNX Halifax NS	6130.0do					
0000-2400	CKZN Saint John's NL	6160.0do					
0000-2400	CKZU Vancouver BC	6160.0do					
0000-2400	United Christian BC, Ire.	6200.0do					

0000-2400	Radio Voice of Lebanon	6550.0me								
0000-2400	Voice of Hope, Lebanon	6280.0me								
0000-2400	WJCR Upton KY	7490.0na	13595.0na							
0000-2400	WRMI Miami FL	9955.0ca								
0010-0100	Radio Japan	6155.0eu	6180.0eu							
0029-0059	Radio Canada Int'l	5960.0na	9755.0na							
0030-0045	BBC English Teaching	6080.0as	7110.0as	9580.0as	9600.0as	15280.0as				
0030-0100	Radio Vilnius, Lithuania	5905.0na								
0030-0100	Radio Thailand	9655.0as	11905.0na	15395.0as						
0030-0100	BBC Asian Service	5965.0as	6195.0as	9410.0as	11955.0as	15310.0as	15360.0as			
0030-0125	VOIRI Teheran	6050.0na	9022.0na	9685.0na						
0030-0125	Radio Netherlands	5905.0as	6020.0na	6165.0na	7305.0as	9860.0as	11655.0as			
0030-0430	Sri Lanka B'casting Corp.	9730.0as	15425.0as							
0045-0100	BBC English Teaching	9580.0as	15280.0as							
0050-0110	RAI, Rome	6010.0na	9675.0na	11800.0na						
0100-0127	Radio Prague Int'l	6200.0na	7345.0na							
0100-0127	Voice of Vietnam	5940.0na								
0100-0130	Alma Ata Radio, Khazak.	5915.0as	7255.0as							
0100-0130	Nat'l Radio of Laos	7116.0as								
0100-0130 s	Radio New Nigeria	5905.0na								
0100-0130 m	Radio Norway	7465.0na	7545.0na							
0100-0130	Radio Slovakia Int'l	5930.0na	7300.0af	9440.0sa						
0100-0130	Swiss Radio Int'l	6135.0am	9885.0am	9905.0am						
0100-0130	Radio Tashkent	5955.0as	5975.0as	9540.0as						
0100-0130 mtwhfa	Radio Yugoslavia	6195.0na	7115.0eu							
0100-0150	Deutsche Welle	5960.0am	6040.0na	6085.0na	6145.0na	9640.0am				
0100-0200	Radio Australia	9660.0pa	12080.0va	13605.0pa	13755.0va	15240.0pa	15415.0as			
		15510.0va	17750.0as	17795.0va						
0100-0200	Voice of Indonesia	9525.0na	11785.0na							
0100-0200 h	West Coast Radio, Ireland	5905.0na								
0100-0200	Radio Japan	11790.0na	11860.0as	11890.0as	13630.0na	15570.0as	15590.0as			
		17810.0as	21610.0pa							
0100-0200	Voice of Russia	7105.0na	7125.0na							
0100-0200	Radio Ukraine Int'l	5905.0eu	5915.0na	5940.0eu	6010.0eu	6020.0eu	6050.0sa			
		6080.0eu	7150.0na	7205.0eu	7290.0eu	7420.0eu				
0100-0200	BBC Asian Service	5965.0as	6195.0as	9410.0as	11955.0as	15280.0as	15310.0as			
		15360.0as								
0100-0200	VOA	7115.0as	7200.0as	9740.0as	9850.0as	11705.0as	15250.0as			
		15300.0as	17740.0as	17820.0as						
0100-0200 twhfa	VOA	5995.0am	6130.0am	7405.0am	9455.0am	9775.0am	13740.0am			
0100-0200	WYFR Okeechobee FL	6065.0na	9505.0na	11550.0as						
0100-0300	FEBC Manila	15450.0as								
0100-0300	WWCR Nashville TN	3215.0na	5070.0na	5935.0na	7435.0na					
0100-0500	Radio Havana Cuba	6000.0na	9820.0na	9830.0uf						
0125-0325	Radio Netherlands	9860.0as	11655.0as							
0130-0150 s twhfa	Voice of Greece	5895.0na	6260.0na	7450.0na	9425.0na					
0130-0200	ORF Vienna	7325.0na	9495.0am	9870.0am						
0130-0200	KSDA Guam	17645.0as								
0130-0200	Radio Sweden	7265.0as								
0140-0200	Vatican Radio	5980.0au	7335.0au							
0200-0210	Radio Bangladesh	4880.0as								
0200-0230	Radio Budapest	6030.0na	9840.0na							
0200-0230 mtwhf	Kerya BC Corp	4935.0do								
0200-0230	Radio Myanmar	7185.0do								
0200-0230 m	Radio Norway	7565.0na								
0200-0230	BBC World Service	5970.0sa	6175.0na	9590.0am	9915.0sa					
0200-0230	Radio Yugoslavia	6100.0na	7130.0eu							
0200-0250	Deutsche Welle	6035.0as	7265.0as	7285.0as	7355.0as	9515.0as	9615.0as			
		9815.0as								
0200-0256	Radio Romania Int'l	6105.0na	6155.0na	7195.0na	9510.0na	9570.0na	9690.0as			
		11940.0na								
0200-0259	Radio Canada Int'l	6155.0am	9535.0am	9755.0na	9780.0am	11865.0am				
0200-0300 twhfa	RAE Buenos Aires	11710.0am								
0200-0300	Voice of Russia	5920.0na	5930.0na	7105.0na	7345.0na	9580.0na	12030.0na			
		13665.0na								
0200-0300	Radio Korea	7275.0om	11725.0sa	11810.0sa	15575.0na					
0200-0300	V. of Free China, Taiwan	5950.0na	7130.0as	9680.0na	11740.0am	11825.0pa	15345.0as			
0200-0300	BBC African Service	6135.0af								
0200-0300	BBC Asian Service	9410.0as	9605.0as	11955.0as	15280.0as	15310.0as	15360.0as			
0200-0300	VOA	7115.0as	7200.0as	9740.0as	9850.0as	11705.0as	15250.0as			
		15300.0as	17740.0as	17820.0as						

0200-0330	Radio Cairo	9475.0am							
0200-0330 s	V. of the Mediterranean	15550.0au	17570.0au						
0200-0330	KJES Vado NM	7555.0na							
0200-0400	Radio Australia	9660.0pa	12080.0va	13605.0pa	15240.0va	15415.0as	15510.0va		
		17750.0as	17795.0va						
0200-0400	Overcomer Min., Germany	5880.0na	7335.0na						
0200-0400	WHRI Noblesville IN	7315.0am							
0200-0400 s twhfa	WHRI Noblesville IN	5745.0na							
0200-0400 m	WHRI Noblesville IN	5760.0va							
0200-0400	WSHB Cypress Creek SC	5850.0na	7535.0af						
0200-0400	WYFR Okeechobee FL	6065.0na	9505.0na						
0200-0500 s	a Italian Radio Relay Svc	7120.0uf							
0201-0205	Croatian Radio, Zagreb	5840.0na	6120.0na						
0215-0220	Radio Nepal, Katmandu	3230.0as	5005.0as						
0230-0245	Radio Pakistan	7255.0va	15120.0va	15485.0va	17705.0va				
0230-0245	BBC English Teaching	9825.0as	11760.0as	15405.0as					
0230-0257	Voice of Vietnam	5940.0na							
0230-0300	Radio Sweden	7280.0na							
0230-0300	BBC World Service	5970.0sa	5975.0am	6175.0na	7325.0sa	9895.0am			
0230-0330	Radio Pilipinas, Manila	11805.0pa	15120.0pa	15270.0pa					
0230-0620	Kenya BC Corp	4935.0do							
0245-0300	Radio Tirana, Albania	6115.0na	7160.0na						
0245-0300	BBC English Teaching	5995.0am	6050.0af	6110.0am	6190.0ca	7125.0af	9515.0am		
		9610.0af							
0250-0310	Vatican Radio	6095.0am	7305.0ca						
0300-0327	Radio Prague Int'l	5930.0na	7345.0na						
0300-0329	Radio Canada Int'l	6155.0am	9755.0am	9780.0am					
0300-0330	Malawi B'casting Corp.	3380.0do							
0300-0330	Channel Africa, S. Africa	5955.0af							
0300-0330	Radio Thailand	9655.0am	11890.0na	11905.0am					
0300-0330	BBC African Service	3255.0af	6005.0af	6135.0af	6190.0af	9600.0af			
0300-0330	BBC Asian Service	9605.0as	15310.0as	15360.0as	17790.0as	21660.0as			
0300-0330	BBC English Teaching	11850.0as	11955.0as	15280.0as	15340.0as				
0300-0330	BBC World Service	5970.0sa	5975.0am	6175.0na	6195.0eu	7325.0sa	9410.0eu		
		9895.0am	11760.0me	12095.0af					
0300-0330	VOA	6035.0af	6080.0af	7105.0af	7290.0af	7340.0af	7415.0af		
		9575.0af	9885.0af						
0300-0330 smtwh	VOA	4960.0af							
0300-0350	Deutsche Welle	6045.0na	6085.0na	6185.0na	9535.0am	9640.0na			
0300-0400	China Radio Int'l	9690.0na							
0300-0400	TIFC Costa Rica	5054.5ca	6175.0ca	9645.0ca					
0300-0400 sm	HRPC Honduras	3249.5ca							
0300-0400 m	La Voz Evangelica, Hond.	4819.2do							
0300-0400	Radio Japan	17685.0pa							
0300-0400	Voice of Russia	5920.0na	5930.0na	5940.0na	6150.0na	7105.0na	7175.0na		
		7345.0na	7350.0na	9580.0na					
0300-0400	V. of Free China, Taiwan	5950.0na	7130.0as	9680.0na	11825.0pa	15345.0as			
0300-0430	Radio Cultural, Guatemala	3300.0do	5955.0do						
0300-0530	Radio 3, Zimbabwe	3396.0do							
0300-0600	Radio Uganda	4976.0do							
0300-0600	KVOH Los Angeles CA	9975.0am							
0300-1100	WWCR Nashville TN	2390.0na	3210.0na	5070.0na	5935.0na				
0301-0305	Croatian Radio, Zagreb	5840.0na	6120.0na						
0310-0340	Vatican Radio	7360.0af	9660.0af						
0329-0359 sm	Radio Canada Int'l	6155.0na	9755.0na	9780.0na					
0330-0355	Radio Moldova Int'l	7500.0na							
0330-0357	Radio Prague Int'l	7350.0me	11600.0as						
0330-0400	Radio Tirana, Albania	6140.0na	7160.0na						
0330-0400	Radio Budapest	6010.0na	9840.0na						
0330-0400	Radio Pilipinas, Manila	13770.0pa	15330.0pa	17730.0pa					
0330-0400	Radio Sweden	7115.0na							
0330-0400	Radio Dubai, UAE	11945.0na	12005.0na	13675.0na	15400.0na	21485.0na			
0330-0400	BBC African Service	3255.0af	6005.0af	6190.0af	9600.0af	9610.0af	11730.0af		
0330-0400	BBC World Service	5975.0am	6175.0na	6195.0eu	9410.0eu	9895.0am	11760.0me		
		12095.0af							
0330-0400	VOA	6035.0af	6080.0af	7105.0af	7290.0af	7415.0af	9575.0af		
		9885.0af							
0330-0357	Voice of Vietnam	5905.0na							
0330-0430	Radio Tanzania	5050.0af							
0330-0430	BBC Asian Service	9605.0as	11955.0as	15280.0as	15310.0as	17790.0as	21660.0as		
0340-0350 s twhfa	Voice of Greece	5895.0na	6260.0na	7450.0na	9425.0na				

0345-0400		Radio Burundi	6140.0do							
0345-0400		Radio Dushanbe	9905.0as	11620.0as						
0400-0415	mtwhf	Cameroon Radio-TV	4850.0va							
0400-0425		Voice of Vietnam	5940.0na	7270.0na	7400.0na	9839.9na	12019.4na	15009.2na		
0400-0429		Radio Canada Int'l	6150.0me	9505.0me	9645.0me					
0400-0430		Radio Iraq Int'l	11787.0ir							
0400-0430	mtwhfa	Radio Mexico Int'l	5985.0na	9705.0na						
0400-0430	m	Radio Norway	7520.0na							
0400-0430		AWR Europe, Slovakia	9465.0af							
0400-0430		Channel Africa, S. Africa	5955.0af							
0400-0430		BBC African Service	3255.0af	6005.0af	6190.0af	7160.0af	9600.0af	9610.0af		
			11730.0af							
0400-0430		BBC World Service	3955.0eu	5975.0am	6175.0na	6180.0eu	6195.0eu	9410.0eu		
			9895.0am	11760.0me	12095.0af	15575.0as				
0400-0430		VOA	6035.0af	6080.0af	7170.0af	7290.0af	7415.0af	9575.0af		
			9775.0af	9885.0af						
0400-0450		Deutsche Welle	6015.0af	6065.0af	7225.0af	7265.0af	9565.0af			
0400-0456		Radio Romania Int'l	5990.0na	6155.0na	7225.0na	9690.0na	11740.0na	11940.0na		
			15335.0as							
0400-0500		Radio Australia	9660.0pa	12080.0va	13605.0pa	15240.0va	15510.0va	17795.0va		
0400-0500	a	Radio Australia	17750.0as							
0400-0500		China Radio Int'l	9560.0na	9730.0na						
0400-0500		Voice of Russia	5920.0na	5930.0na	6065.0na	6150.0na	7175.0na	7260.0na		
			7345.0na	9580.0na						
0400-0500		Swiss Radio Int'l	6135.0na	9885.0na	9905.0na					
0400-0500		Voice of Turkey	7300.0va	9685.0as	17705.0as					
0400-0500		Radio Ukraine Int'l	5915.0na	5985.0eu	6020.0eu	6030.0na	7150.0na	7205.0eu		
0400-0500		WSHB Cypress Creek SC	7535.0eu	9835.0af						
0400-0500		WYFR Okeechobee FL	6065.0na	9505.0na	9985.0eu					
0400-0700		Christian Voice, Zambia	3330.0do							
0400-0900	mtwhfa	WMLK Bethel PA	9465.0na							
0400-1000		WHRI Noblesville IN	5760.0va	7315.0am						
0400-1000		WRNO New Orleans LA	7395.0am							
0415-0440		RAI, Rome	6010.0af	7270.0af						
0430-0455		Radio Moldova Int'l	7500.0na							
0430-0500	twhfa	Radio Portugal	6150.0na	9570.0na						
0430-0500		TWR Swaziland	3200.0af	4775.0af	6100.0af	7160.0af	9600.0af	15420.0af		
0430-0500		BBC African Service	3255.0af	6005.0af	6190.0af					
0430-0500		BBC Asian Service	11955.0as	15280.0as	15310.0as	17790.0as	21660.0as			
0430-0500	mtwhfa	BBC European Service	3955.0eu	6180.0eu	6195.0eu	9410.0eu				
0430-0500		BBC World Service	5875.0eu	5975.0am	6175.0am	11760.0me	12095.0af	15575.0as		
0430-0500 s		BBC World Service	3955.0eu	6180.0eu	6195.0eu	9410.0eu				
0430-0500		VOA	6035.0af	6080.0af	7170.0af	7290.0af	7415.0af	9575.0af		
			9775.0af							
0430-0525		Radio Netherlands	6165.0na	9590.0na						
0430-0630		Australian Armed Forces	13525.0uf							
0430-1000		Radio Nigeria	3326.0do	3970.0do	4770.0do	4990.0do	6025.0do	6050.0do		
			9570.0do							
0445-0915		Ghana Broadcasting Corp.	3366.0do	4915.0do						
0500-0505		TWR Swaziland	4775.0af	6100.0af						
0500-0515 s		Cameroon Radio-TV	4850.0va							
0500-0515		Kol Israel	7465.0va	9435.0va	17540.0au					
0500-0530		Radio Japan	5920.0	6110.0na	6150.0eu	9835.0ca	11840.0as	11895.0ca		
			11920.0pa	15230.0am						
0500-0530	w	Malawi B'casting Corp.	3380.0do							
0500-0530	mtwhf	Radio Mexico Int'l	5985.0na	9705.0na						
0500-0530		Channel Africa, S. Africa	9675.0af							
0500-0530		BBC Asian Service	9740.0as	11955.0pa	15280.0as	15310.0as	15360.0as	17760.0as		
			17790.0as	21660.0as						
0500-0530		BBC World Service	3955.0eu	5975.0am	6175.0am	6180.0eu	6195.0eu	9410.0eu		
			11760.0me	12095.0eu	15575.0as	17640.0af				
0500-0530		Vatican Radio	7360.0af	9660.0af	11625.0af					
0500-0550		Deutsche Welle	5960.0na	6100.0na	6120.0na	6185.0na				
0500-0550		Radio Pyongyang	11740.0eu	13790.0eu						
0500-0600		Radio Australia	9660.0pa	12080.0va	13605.0pa	15240.0va	15510.0va	17750.0as		
			17795.0va							
0500-0600	a	Radio Australia	17750.0as							
0500-0600		Radio Bulgaria	7375.0na	9485.0na						
0500-0600		China Radio Int'l	9560.0na							
0500-0600		AWR Costa Rica	5030.0am	6150.0sa	7375.0sa	9725.0na				
0500-0600 s	a	Italian Radio Relay Svc	7120.0uf							

0500-0600	mtwhf	Italian Radio Relay Svc	3985.0uf						
0500-0600		Voice of Russia	5905.0na	5920.0na	5930.0na	6005.0na	6065.0na	6150.0na	
			7175.0na	7330.0na	9580.0na				
0500-0600		Radio Exterior de Espana	6055.0na						
0500-0600		BBC African Service	3255.0af	6005.0af	6190.0af	7160.0af	9600.0af	15420.0af	
			17885.0af						
0500-0600		VOA	5970.0af	6035.0af	6080.0af	7170.0af	7295.0af	9700.0af	
			9775.0af	11825.0me	12080.0af	15205.0as			
0500-0600		WSHB Cypress Creek SC	7425.0af	7535.0e					
0500-0600		WYFR Okeechobee FL	5985.0na	9985.0eu	11550.0eu				
0500-0700		Radio Havana Cuba	6180.0na	9820.0na	9830.0uf				
0500-0700	mtwhf	NBC Windhoek, Namibia	3270.1af						
0500-0700		Voice of Nigeria	7255.0af						
0500-0700		KWHR Naalehu HI	9930.0as	17555.0pa					
0500-0800		Star Radio, Liberia	3400.0do						
0500-0800		Radio New Zealand Int'l	11905.0va						
0500-0800		SIBC Solomon Islands	5020.0do	9545.0do					
0500-1000		Radio Liberia Int'l	5100.0do						
0505-0605		TWR Swaziland	4775.0af	6100.0af	9500.0af				
0510-0515		Radio Botswana	3356.0do	4820.0do	7255.0do				
0515-0525		Radio Rwanda	6055.0do						
0530-0545		BBC English Teaching	3990.0eu	6050.0eu	7270.0eu				
0530-0600		ORF Vienna	6015.0na	6155.0eu	13730.0eu	15410.0me	17870.0me		
0530-0600		Radio Japan	5920.0	6110.0na	6150.0eu	11840.0as	11920.0pa		
0530-0600		Radio Thailand	9655.0eu	11905.0eu	15115.0eu				
0530-0600		Radio Dubai, UAE	15435.0as	17830.0as	21700.0as				
0530-0600		BBC Asian Service	9740.0as	11955.0pa	15310.0as	15360.0as	17760.0as	21660.0as	
0530-0600	mtwhf	BBC European Service	3955.0eu	6180.0eu	6195.0eu	9410.0eu	12095.0eu		
0530-0600		BBC World Service	1323.0me	5975.0am	6175.0am	7150.0eu	11760.0me	15575.0as	
			17640.0af						
0530-0600	s	a BBC World Service	3955.0eu	6180.0eu	6195.0eu	9410.0eu	12095.0eu		
0530-1700		Radio 3, Zimbabwe	5975.0do						
0545-0600		BBC English Teaching	7275.0af	9710.0af					
0555-0825		Voice of Malaysia	6175.0as	9750.0as	15295.0as				
0600-0615	mtwhf	Radio Nadeco, Nigeria	5070.0af						
0600-0615		BBC English Teaching	6155.0af						
0600-0620		Vatican Radio	4005.0eu	5883.0eu	7250.0eu				
0600-0630		Nat'l Radio of Laos	7116.0as						
0600-0630	s	Malawi B'casting Corp.	3380.0do						
0600-0630	a	Radio New Nigeria	11670.0af						
0600-0630		AWR Europe, Slovakia	11640.0af						
0600-0630		Channel Africa, S. Africa	11900.0af						
0600-0630		TWR Meyerton	11730.0af						
0600-0630		Swiss Radio Int'l	5840.0eu	6165.0eu					
0600-0630		BBC World Service	3955.0eu	5975.0am	6175.0am	6180.0eu	6195.0eu	7325.0eu	
			9410.0eu	11760.0me	12095.0eu	15565.0eu	15575.0as	17640.0af	
0600-0630		VOA	5970.0af	5995.0af	6035.0af	6080.0af	7170.0af	7285.0af	
			11805.0af	11825.0me	11950.0af	12080.0af	15205.0as	15600.0af	
0600-0641		Radio Romania Int'l	5965.0na	6155.0na	7225.0na	9690.0na			
0600-0650		Deutsche Welle	6045.0af	7225.0af	9565.0af	11765.0af	17820.0as	21705.0me	
0600-0659	mtwhf	Radio Canada Int'l	6050.0va	6150.0eu	9740.0af	9760.0va	11905.0af		
0600-0700		Radio Japan	5975.0eu	6180.0na	7230.0eu	9505.0am	9835.0na	11740.0as	
			11840.0as	11920.0pa	15550.0as	17810.0as			
0600-0700		Radio Kiribati	9809.9do						
0600-0700		Voice of Russia	5905.0na	5920.0na	5930.0na	6005.0na	6065.0na	6150.0na	
			7175.0na	7330.0na	9580.0na	12025.0au	12055.0as	15460.0as	
			15470.0au	17570.0au	17795.0as	21790.0au			
0600-0700		BBC African Service	6005.0af	6190.0af	7160.0af	9600.0af	11940.0af	15420.0af	
			17885.0af						
0600-0700		WYFR Okeechobee FL	5985.0na	7355.0eu	9985.0eu				
0600-0700		Republic of Yemen Radio	9779.8do						
0600-0800		Radio Australia	9660.0pa	11880.0va	12080.0va	13605.0pa	15240.0va	15415.0as	
			15510.0va	17750.0as					
0600-0800		Overcomer Min., Germany	9500.0au						
0600-0800		BBC Asian Service	7145.0pa	9740.0as	11955.0pa	15310.0as	15360.0as	17760.0as	
			17790.0as	21660.0as					
0600-0800		WSHB Cypress Creek SC	7535.0eu	9835.0af					
0600-0830		Italian Radio Relay Svc	3985.0uf						
0600-0900	smtwhf	ZLXA New Zealand	3935.0do						
0600-0900		SLBS, Sierra Leone	3316.0do						
0605-0700		TWR Swaziland	4775.0af	6100.0af	9500.0af	9650.0af			



0630-0645 s	a	BBC English Teaching	6010.0eu	9740.0eu					
0630-0645		Vatican Radio	9660.0af	11625.0af	13765.0af				
0630-0700		ORF Vienna	6015.0na						
0630-0700 mtwhf		BBC European Service	3955.0eu	6195.0eu					
0630-0700		BBC World Service	5975.0am	6175.0am	6180.0eu	7325.0eu	9410.0eu	11760.0me	
			12095.0eu	15565.0eu	15575.0as	17640.0af			
0630-0700 s	a	BBC World Service	3955.0eu	6195.0eu					
0630-0700		VOA	5995.0af	7170.0af	11805.0af	11825.0me	15205.0as		
0630-0700 s	a	VOA	5970.0af	6035.0af	6080.0af	7285.0af	11950.0af	12080.0af	
			15600.0af						
0641-0656		Radio Romania Int'l	5965.0na	6155.0na	7105.0eu	7225.0na	9510.0eu	9625.0eu	
			9690.0na	11775.0eu					
0645-0700		BBC English Teaching	5875.0eu	7260.0eu					
0700-0715		BBC African Service	6005.0af	6190.0af	9600.0af	11940.0af	17830.0af		
0700-0715 s	a	BBC African Service	17885.0af						
0700-0730 w		Malawi B'casting Corp.	3380.0do						
0700-0730		Radio Myanmar	9730.0do						
0700-0730 s		Radio Norway	9590.0va	11625.0va					
0700-0730		AWR Europe, Slovakia	9435.0eu						
0700-0730		BBC World Service	5975.0am	6175.0am	6180.0eu	6195.0eu	7325.0eu	9410.0eu	
			11760.0me	12095.0eu	15485.0eu	15565.0eu	15575.0as	17640.0eu	
0700-0730 mtwhfa		Vatican Radio	4005.0eu	5883.0eu	6185.0eu	7250.0eu	9645.0eu	11740.0eu	
			15595.0va						
0700-0735		TWR Swaziland	6100.0af	9500.0af	9650.0af				
0700-0756		Radio Romania Int'l	11940.0af	15105.0af	17775.0af				
0700-0800		Radio Japan	7230.0eu	11740.0as	11840.0as	11850.0pa	11920.0pa	15230.0me	
			17810.0as	17815.0af					
0700-0800 mtwhf		NBC Windhoek, Namibia	4930.0af						
0700-0800		KHBN Palau	9965.0as	9985.0as					
0700-0800		Voice of Russia	5905.0na	5920.0na	5930.0na	6005.0na	6065.0na	6150.0na	
			7175.0na	7330.0na	9580.0na	12025.0au	12055.0as	15460.0as	
			15470.0au	17570.0au	17795.0as	17860.0as	21790.0au		
0700-0800		SBC Radio 1, Singapore	6160.0do						
0700-0800		V. of Free China, Taiwan	5950.0na						
0700-0800		WYFR Okeechobee FL	7355.0eu	9455.0eu	9985.0eu				
0700-0800		Radio Vanuatu	3945.0do	7260.0do					
0700-0900		HCJB Quito Ecuador	5865.0eu	9365.0eu	9645.0pa	21455.0uf			
0700-1100		Radio Africa, Eq. Guinea	15186.0af						
0700-1300		KWHR Naalehu HI	9930.0as	11565.0pa					
0700-1600		Christian Voice, Zambia	6065.0do						
0715-0730		BBC African Service	6190.0af	9600.0af	11940.0af	17830.0af			
0715-0730 s	a	BBC African Service	17885.0af						
0715-0730		BBC English Teaching	6005.0af	9635.0eu	11680.0eu	11845.0eu	13745.0eu	15325.0eu	
			15400.0af						
0730-0740		Voice of Greece	7430.0va	7450.0va	9425.0va	9775.0na	11645.0va		
0730-0745		BBC English Teaching	5875.0eu	7260.0eu					
0730-0800		Georgian Radio, Tbilisi	11805.0eu						
0730-0800		Swiss Radio Int'l	5840.0eu	6165.0eu	9885.0af	11860.0af	13635.0af		
0730-0800		BBC African Service	6190.0af	9600.0af	11940.0af	15400.0af	17830.0af		
0730-0800 s	a	BBC African Service	17885.0af						
0730-0800		BBC World Service	5975.0am	6175.0am	7325.0eu	9410.0eu	11760.0me	12095.0eu	
			15485.0eu	15565.0eu	17640.0eu				
0730-0800 s	a	BBC World Service	15575.0as						
0730-0830		Radio Netherlands	9830.0pa	11895.0pa					
0735-0805 s	a	TWR Swaziland	6100.0af	9500.0af	9650.0af				
0740-0800		KTWR Guam	15200.0as						
0745-0920		TWR Tirana	9685.0eu						
0745-0920		TWR Monte Carlo	9755.0eu						
0745-0920 s		TWR Monte Carlo	6230.0eu	7160.0eu					
0800-0805		Radio Botswana	4820.0do	7255.0do	9600.0do				
0800-0810		BBC Asian Service	7145.0pa	9740.0as	11750.0as	11955.0pa	15310.0as	15360.0as	
			17760.0as	17790.0as	21660.0as				
0800-0815 mtwhf		Radio New Zealand Int'l	11905.0va						
0800-0815 s	a	Radio New Zealand Int'l	9700.0va						
0800-0815		BBC World Service	7325.0eu	9410.0eu	11760.0me	12095.0eu	15485.0eu	15565.0eu	
			17640.0eu						
0800-0815 s	a	BBC World Service	15575.0as						
0800-0827		Radio Prague Int'l	9505.0eu	11600.0eu					
0800-0830		Radio Australia	5995.0pa	9580.0va	9710.0pa	11880.0va	12080.0va	15415.0as	
			15510.0va	17750.0as					
0800-0830 w		Malawi B'casting Corp.	5995.0do						

0800-0830		KFBS Saipan, Marianas	11650.Oas						
0800-0830 s		Radio Norway	11625.Oau						
0800-0855		KTWR Guam	15200.Oas						
0800-0900		Voice of Indonesia	9525.Ova	11785.Ova					
0800-0900		KHBI Saipan, Marianas	15665.Oeu						
0800-0900		Voice of Russia	9875.Oau	12025.Oau	12055.Oas	15460.Oas	17795.Oas	17860.Oas	
0800-0900	f	FEBA Seychelles	15540.Oas						
0800-0900 s		Amateur Radio League, SAI	7205.Oaf						
0800-0900		Radio Korea	9570.Oau	13670.Oeu					
0800-0900		BBC African Service	6190.Oaf	11940.Oaf	15400.Oaf	17830.Oaf			
0800-0900 s	a	BBC African Service	17885.Oaf						
0800-0900		KNLS Anchor Point AK	6150.Oas						
0800-0900		WSHB Cypress Creek SC	7535.Oeu	9835.Oal	9845.Oau				
0800-1100		SBC Radio 1, Singapore	6155.Odo						
0800-1100		Radio Vanuatu	3945.Odo						
0800-1130		SIBC Solomon Islands	5020.Odo						
0800-1500		NBC Windhoek, Namibia	6060.Oaf						
0800-1600		KHBN Palau	9955.Oas	9965.Oas	9985.Oas				
0810-0900		BBC Asian Service	9740.Oas	11750.Oas	11955.Opa	15310.Oas	15360.Oas	17760.Oas	
			17790.Oas	21660.Oas					
0815-0900		BBC World Service	9410.Oeu	11760.Ome	12095.Oeu	15485.Oeu	15565.Oeu	17640.Oeu	
0815-0900 s	a	BBC World Service	15575.Oas						
0815-1206		Radio New Zealand Int'l	9700.Ova						
0830-0855		R. Viaanderen Int'l	6130.Oeu	13795.Oau					
0830-0900		ORF Vienna	6155.Oeu	13730.Oeu	17870.Oau				
0830-0900		Radio Australia	5995.Opa	6080.Oas	9580.Ova	9710.Opa	12080.Ova	15415.Oas	
			15510.Ova	17750.Oas					
0830-0900		KFBS Saipan, Marianas	11650.Oas	15380.Oas					
0830-0900		Radio Slovakia Int'l	11990.Oas	17485.Oau	21705.Oau				
0830-0900		Swiss Radio Int'l	9885.Oau	12075.Oau	13685.Oau				
0830-0925		Radio Netherlands	5965.Opa	9830.Opa	13700.Opa				
0830-1600		Italian Radio Relay Svc	7120.Ouf						
0830-2130		ABC Alice Springs	2310.Odo						
0830-2130		ABC Katherine	2485.Odo						
0830-2130		ABC Tennant Creek	2325.Odo						
0855-0915		KTWR Guam	15200.Oas	15330.Opa					
0900-0915		BBC Asian Service	6065.Oas	6195.Oas	9580.Oas	9740.Oas	11750.Oas	11765.Oas	
			11955.Oas	15280.Oas	15310.Oas	15360.Oas	17760.Oas	17790.Oas	
			21660.Oas						
0900-0915		BBC World Service	9410.Oeu	11760.Ome	12095.Oeu	15190.Osa	15485.Oeu	15565.Oeu	
			15575.Oas	17640.Oeu	17705.Oaf				
0900-0930		Radio Finland	9760.Oas	15225.Oas					
0900-0930 w		Malawi B'casting Corp.	5995.Odo						
0900-0950		Deutsche Welle	6160.Oau	7380.Oas	9565.Oaf	11715.Oas	12055.Oas	15145.Oaf	
			15410.Oaf	17800.Oaf	17820.Oas	21600.Oaf			
0900-1000		Radio Kiribati	9809.Odo						
0900-1000		KHBI Saipan, Marianas	9355.Oas	13840.Oau					
0900-1000 mtwhf		ZLXA New Zealand	3935.Odo						
0900-1000		Voice of Russia	9825.Oau	9835.Oau	9875.Oau	17795.Oas	17860.Oas		
0900-1000		BBC African Service	6190.Oaf	11940.Oaf	15400.Oaf	17830.Oaf	17885.Oaf		
0900-1000		WSHB Cypress Creek SC	7395.Osa	7535.Oeu	9835.Oal				
0900-1030		Radio Tanzania	5050.Oaf						
0900-1100		Radio Australia	6080.Oas	9580.Ova	11880.Oas				
0900-1100		China Radio Int'l	9785.Opa	11755.Opa					
0900-1100		HCJB Quito Ecuador	9645.Opa	21455.Ouf					
0900-1200		Nat'l BC, Papua NG	4890.Odo						
0900-1300		KFBS Saipan, Marianas	9495.Oas	11650.Oas	15380.Oas				
0915-0930		BBC English Teaching	11680.Oeu	13745.Oeu	15325.Oeu	15340.Oeu	17695.Oeu		
0915-0930 mtwhf		BBC English Teaching	6065.Oas	6195.Oas	7235.Oas	9580.Oas	9740.Oas	11765.Oas	
			11955.Oas	15280.Oas	15360.Oas	21660.Oas			
			11750.Oas						
0915-0945		BBC Asian Service	6065.Oas	6195.Oas	7235.Oas	9580.Oas	9740.Oas	11765.Oas	
0915-0945 s	a	BBC Asian Service	11955.Oas	15280.Oas	15360.Oas	21660.Oas			
			15330.Opa						
0915-1000		KTWR Guam	9410.Oeu	12095.Oeu	15190.Osa	15485.Oeu	15565.Oeu	15575.Oas	
0915-1000		BBC World Service	17640.Oeu	17705.Oaf					
0920-0935 s	a	TWR Tirana	9685.Oeu						
0920-0935 s	a	TWR Monte Carlo	9755.Oeu						
0920-0935 s		TWR Monte Carlo	6230.Oeu	7160.Oeu					
0930-0945 mtwhf		BBC English Teaching	6065.Oas	6195.Oas	7235.Oas	9580.Oas	9740.Oas	11765.Oas	
			11955.Oas	15280.Oas	15360.Oas	21660.Oas			

0930-1000	mtwhfa	ORF Vienna	15455.0as	17870.0au					
0930-1000		Georgian Radio, Tbilisi	11910.0eu						
0930-1000		Radio Vilnius, Lithuania	9710.0eu						
0930-1000	s	a AWR Europe, Slovakia	9450.0eu						
0930-1100		FEBC Manila	11635.0as						
0930-1125		Radio Netherlands	7260.0as	9810.0as					
0935-0950	s	TWR Tirana	9685.0eu						
0935-0950	s	TWR Monte Carlo	6230.0eu	7160.0eu					
0940-0945		RTV Togo	7265.0af						
0940-0950		Voice of Greece	9590.0au	15415.0va	15650.0va				
0945-1000		BBC Asian Service	6195.0as	9740.0as	11750.0as	11765.0as	15360.0as	21660.0as	
0945-1000	a	BBC Asian Service	6065.0as	7235.0as	9580.0as	11955.0as	15280.0as		
0945-1000	smtwhf	BBC Slow Speed News	6065.0as	7235.0as	9580.0as	11955.0as	15280.0as		
1000-1020	t fa	Alma Ata Radio, Khazak.	9620.0eu	11840.0eu					
1000-1025		Voice of Vietnam	5940.0as	7270.0as	7400.0as	9839.9as	12019.4as	15009.2as	
1000-1030	s	Voice of Armenia, Yerevan	15270.0eu						
1000-1030		Radio Prague Int'l	17485.0af	21705.0as					
1000-1030		KSDA Guam	7455.0as						
1000-1030	mtwhf	Radio Telefis Eireann	5070.0am						
1000-1030		Radio Nigeria	3970.0do	4770.0do	4990.0do	6025.0do	6050.0do	7285.0do	
			9570.0do						
1000-1030		BBC Asian Service	6195.0as	9740.0as	11750.0as	11765.0as	15310.0as	15360.0as	
			17790.0as	21660.0as					
1000-1100		KTWR Guam	9865.0as						
1000-1100		All India Radio, Delhi	11585.0as	11735.0au	13700.0as	15050.0as	17387.0au	17840.0as	
1000-1100		KHBI Saipan, Marianas	9355.0as	15725.0as					
1000-1100		Voice of Nigeria	7255.0af						
1000-1100		Voice of Russia	9825.0au	9835.0au	9875.0au	11820.0as	11880.0as	12025.0as	
			15470.0as	15560.0as	17755.0as	17795.0as	17860.0as		
1000-1100		BBC African Service	6190.0af	11940.0af	17885.0af				
1000-1100	s	a BBC African Service	15400.0af	17830.0af					
1000-1100		BBC World Service	6195.0am	9410.0eu	11760.0me	12095.0eu	15485.0eu	15565.0eu	
			15575.0as	17640.0eu	17705.0af				
1000-1100	s	a BBC World Service	15190.0sa						
1000-1100		VOA	5985.0pa	6165.0ca	7405.0ca	9590.0ca	11720.0as	15425.0as	
1000-1100		WYFR Okeechobee FL	5950.0na						
1000-1200		WSHB Cypress Creek SC	6095.0am	7395.0am					
1000-1300		WHRI Noblesville IN	6040.0va	9495.0am					
1000-1600		WRNO New Orleans LA	7455.0am						
1000-1800		Radio Liberia Int'l	6100.0do						
1000-2200		Voice of Guyana	5950.0do						
1020-1040	w	Alma Ata Radio, Khazak.	9620.0eu	11840.0eu					
1030-1045	mtwhf	Radio Ethiopia	5990.0do	7110.0do	9705.0do				
1030-1100		Georgian Radio, Tbilisi	11910.0me						
1030-1100		KSDA Guam	7455.0as	9530.0as					
1030-1100	mtwhf	Malawi B'casting Corp.	5995.0do						
1030-1100		Radio Dubai, UAE	13675.0eu	15370.0eu	15395.0eu	17825.0eu	21605.0eu		
1030-1100		BBC Asian Service	6195.0as	9740.0as	11750.0as	11765.0as	15310.0as	17790.0as	
			21660.0as						
1030-1130		Sri Lanka B'casting Corp.	11835.0as	15120.0as	17850.0as				
1030-1445		Radio Nigeria	4770.0do	4990.0do	6025.0do	6050.0do	7285.0do	9570.0do	
1030-1530	s	a Radio Tanzania	5050.0af						
1100-1115	mtwhf	BBC English Teaching	5875.0eu	9825.0eu					
1100-1120		Radio Pakistan	15550.3eu	17835.2eu					
1100-1125		Voice of Vietnam	7285.0as	9730.0as					
1100-1130	s	a Radio Telefis Eireann	5070.0am						
1100-1130	s	a Malawi B'casting Corp.	5995.0do						
1100-1130		BBC African Service	6190.0af	11940.0af	15400.0af	17830.0af	17885.0af	21660.0af	
1100-1130		BBC Asian Service	6195.0as	7235.0as	9580.0as	9700.0pa	9740.0as	11750.0as	
			11765.0as	11955.0as	15310.0as	17790.0as			
1100-1130	mtwhf	BBC Caribbean Report	6195.0ca	15220.0ca					
1100-1130		BBC World Service	5965.0na	9410.0eu	11760.0me	12095.0eu	15485.0eu	15565.0eu	
			15575.0as	17640.0eu	17705.0af	17790.0sa			
1100-1130	s	a BBC World Service	6195.0am	15190.0sa	15220.0am				
1100-1130	mtwhfa	Vatican Radio	5883.0eu	9645.0eu	11740.0eu	15595.0va	17550.0va		
1100-1135		Radio Maputo, Mozambique	11818.0af	11835.0af					
1100-1150		Deutsche Welle	15370.0af	15410.0af	17780.0af	17800.0af			
1100-1150		Radio Pyongyang	3560.0af	9640.0af	9975.0af	11335.0af	13650.0af	15230.0af	
1100-1200		Radio Australia	6080.0as	9580.0va					
1100-1200		Voice of Russia	6205.0as	9450.0as	11820.0as	11880.0as	12025.0as	12065.0as	
			15460.0as	15470.0as	15560.0as	17755.0as	17795.0as	17860.0as	

1100-1200	Swiss Radio Int'l	9885.0as	12075.0as	13635.0as				
1100-1200	VOA	5985.0pa	6110.0as	9645.0as	9760.0as	11705.0as	11720.0as	
		15425.0as						
1100-1200	WWCR Nashville TN	2390.0na	5070.0na	5935.0na	15685.0na			
1100-1200	WYFR Okeechobee FL	5950.0na	7355.0na					
1100-1215 s	Radio Vanuatu	3945.0do						
1100-1230	VOIRI Teheran	9585.0as	11830.0as	11875.0as	15260.0as			
1100-1300	AWR Costa Rica	5030.0am	6150.0sa	7375.0sa	9725.0na	13750.0na		
1100-1300	Radio Japan	6120.0na	7125.0as	11815.0as				
1100-1400	KHBI Saipan, Marianas	9355.0as	9385.0as					
1100-1400	Radio Singapore Int'l	6015.0as	6155.0as					
1100-1600	HCJB Quito Ecuador	12005.0am	15115.0am	21455.0uf				
1100-1730	Radio Jordan	11690.0va						
1100-2200	Caribbean Beacon	11775.0am						
1110-1115	Radio Botswana	4820.0do	7255.0do	9600.0do				
1115-1130	BBC English Teaching	11805.0eu	13745.0eu	15325.0eu	15340.0eu	17695.0eu		
1115-1130 mtwh	BBC English Teaching	9750.0eu	11970.0eu					
1115-1130 mtwhf	BBC English Teaching	5875.0eu	9825.0eu					
1115-1145	Radio Nepal, Katmandu	3230.0as	5005.0as					
1130-1135	Kol Israel	15640.0eu	15650.0va					
1130-1145	Radio Burundi	6140.0do						
1130-1150 f	Vatican Radio	15595.0va	17550.0va					
1130-1157	Radio Prague Int'l	7345.0eu	9505.0eu					
1130-1200	Radio Korea	9650.0na						
1130-1200	BBC Asian Service	6195.0as	7235.0as	9580.0as	9740.0as	11955.0as		
1130-1200 s a	BBC Asian Service	11750.0as	15310.0as					
1130-1200 mtwhf	BBC English Teaching	11750.0as	15310.0as					
1130-1200	BBC World Service	5965.0na	6195.0am	9410.0eu	11760.0me	12095.0eu	15220.0am	
		15485.0eu	15565.0eu	15575.0as	17640.0eu	17705.0af		
1130-1230	Radio Netherlands	6045.0eu	7190.0eu					
1130-1300	BBC African Service	6190.0af	11940.0af	17830.0af	17885.0af	21660.0af		
1145-1155	Radio Rwanda	6055.0do						
1200-1215	V. of Cambodia	11940.4as						
1200-1215	BBC English Teaching	5975.0as	7135.0as	9605.0as				
1200-1229	Radio Canada Int'l	6150.0as	11730.0as					
1200-1230 mtwhf	Malawi B'casting Corp.	5995.0do						
1200-1230 smtwhf	V. of the Mediterranean	9660.0eu						
1200-1230	Voice of Mongolia	12085.0au						
1200-1230	Radio Korea	7285.0af						
1200-1230	Swiss Radio Int'l	6165.0eu	9535.0eu					
1200-1230	VOA	6110.0as	9645.0as	9760.0as	11705.0as	11715.0as	15425.0as	
1200-1230	Radio Tashkent	5975.0as	6025.0as	9715.0as				
1200-1300	Radio Bulgaria	15130.0eu	15290.0eu					
1200-1300	China Radio Int'l	6950.0pa	7385.0pa	9715.0as	11660.0as			
1200-1300	Radio France Int'l	9805.0eu	11600.0as	11615.0na	13625.0ca	15155.0eu	15195.0eu	
		15530.0ca	15540.0af	17575.0ca				
1200-1300	Voice of Russia	4730.0as	6205.0as	7390.0as	9725.0as	9780.0as	9940.0as	
		11695.0as	11820.0as	11880.0as	12065.0as	17755.0as	17795.0as	
1200-1300	V. of Free China, Taiwan	7130.0as	9610.0au					
1200-1300	Radio Ukraine Int'l	7285.0eu	9870.0na	17725.0sa				
1200-1300	BBC Asian Service	6195.0as	7235.0as	9580.0as	9740.0as	11750.0as	11955.0as	
		15310.0as						
1200-1300 s a	BBC Asian Service	11750.0as	15310.0as					
1200-1300	BBC World Service	5965.0na	6195.0am	9410.0eu	9515.0na	11760.0me	12095.0eu	
		15220.0am	15485.0eu	15565.0eu	15575.0as	17640.0eu	17705.0eu	
1200-1300	WWCR Nashville TN	5070.0na	5935.0na	7435.0na	15685.0na			
1200-1300	WYFR Okeechobee FL	5950.0na	7355.0na	11830.0na	11970.0na			
1200-1320	Radiobras, Brasilia	15445.0am						
1200-1330	Radio Australia	6020.0va	6080.0as	9415.0va	9580.0va			
1200-1400	WSHB Cypress Creek SC	6095.0na	9455.0na					
1200-1400	WEWN Birmingham AL	5825.0na	15745.0eu					
1200-1700	R. for Peace Int'l	7385.0va	21465.0uf					
1200-1700	Ghana Broadcasting Corp.	4915.0do	6130.0do					
1200-2400	CBC Northern Service	9625.0do						
1206-1650	Radio New Zealand Int'l	6105.0oc						
1215-1230 s	BBC English Teaching	5875.0eu	9635.0eu					
1215-1330	Radio Cairo	17595.0as						
1230-1240	Radio Mogadishu	6870.0af						
1230-1245	BBC English Teaching	5875.0eu	9635.0eu	9750.0eu	11680.0eu	11840.0eu	11895.0eu	
		13670.0eu	15105.0af	15225.0eu	15325.0eu	17695.0eu	17715.0af	
		21640.0af						

1230-1255		Voice of Vietnam	5940.0as	7270.0as	7400.0as	9839.9as	12019.4as	15009.2as
1230-1300		Radio Bangladesh	7185.0as	9548.0as				
1230-1300		KSDA Guam	13720.0as					
1230-1300	mtwhf	V. of the Mediterranean	9660.0eu					
1230-1300		Radio Korea	7285.0af	9570.0as	9640.0om	13670.0as		
1230-1300		Radio Sweden	11650.0na	15240.0na				
1230-1300		Radio Thailand	9655.0as	9810.0as	11905.0as			
1230-1300		VOA	6110.0as	9645.0as	9760.0as	11705.0as	11715.0as	15425.0as
1230-1300	a	VOA	7768.5uf					
1230-1325		Radio Netherlands	5975.0eu	6045.0eu				
1230-1600		Sri Lanka B'casting Corp.	9730.0as	15425.0as				
1240-1250		Voice of Greece	11645.0af	15650.0af	17525.0af			
1240-1255	smtwh	BBC Slow Speed News	7140.0me	11765.0af	11820.0me	13660.0af	15180.0af	15555.0me
1245-1300		BBC English Teaching	5875.0eu	9635.0eu	9750.0eu	11680.0eu	11840.0eu	11895.0eu
			13670.0eu	15225.0eu	15325.0eu	17695.0eu		
1300-1315		Cameroon Radio-TV	4850.0va					
1300-1325		R. Vlaanderen Int'l	13680.0na					
1300-1330		Radio Canada Int'l	9640.0na	11855.0na				
1300-1330	s	Universal Life, Germany	9710.0va					
1300-1330	s	Radio Norway	9590.0eu	9905.0as	13800.0va	13805.0na		
1300-1330		VOA	6110.0as	9645.0as	9760.0as	11705.0as	11715.0as	15425.0as
1300-1355		Polish Radio, Warsaw	6095.0eu	7145.0eu	7270.0eu	9525.0eu	11815.0eu	
1300-1356		Radio Romania Int'l	11790.0eu	15105.0eu	15250.0eu	15390.0eu	17735.0eu	17745.0eu
1300-1400		China Radio Int'l	7385.0pa	11660.0as				
1300-1400		KFBS Saipan, Marianas	9495.0as	9670.0as	11650.0as			
1300-1400	s	RTV Morocco	17595.0af					
1300-1400		Voice of Russia	4730.0as	4975.0as	9450.0as	11695.0as	15460.0as	
1300-1400		Swiss Radio Int'l	7230.0as	7480.0as				
1300-1400		BBC African Service	6190.0af	11940.0af	15420.0af	17830.0af	17885.0af	21660.0af
1300-1400		BBC Asian Service	5990.0as	6195.0as	9740.0as	11750.0as	15310.0as	
1300-1400		BBC World Service	5965.0na	6195.0am	9410.0eu	9515.0na	9590.0na	11760.0me
			12095.0eu	15220.0am	15485.0eu	15565.0eu	15575.0as	17640.0eu
			17705.0eu					
1300-1400		KNLS Anchor Point AK	7365.0as					
1300-1400		WWCR Nashville TN	5070.0na	7435.0na	13845.0na	15685.0na		
1300-1400		WYFR Okeechobee FL	5950.0na	11830.0na	11970.0na	13695.0na		
1300-1455	s	a Channel Africa, S. Africa	9440.0af	15330.0af	17675.0af			
1300-1500		WHRI Noblesville IN	6040.0va	15105.0am				
1300-1800		KWHR Naalehu HI	7560.0pa	9930.0as				
1300-2300		WGTC McCaysville GA	9400.0na					
1315-1330	w	BBS, Bhutan	5025.0do	6035.0do	9615.0do			
1320-2010		Kenya BC Corp	4935.0do					
1330-1345	m wh	BBS, Bhutan	5025.0do	6035.0do	9615.0do			
1330-1345		BBC English Teaching	15105.0af	17810.0af	21640.0af			
1330-1355		Voice of Vietnam	5940.0eu	7270.0eu	7400.0eu	9839.9eu	12019.4eu	15009.2eu
1330-1359		Radio Canada Int'l	6150.0as	9535.0as	9640.0na	11855.0na		
1330-1400		ORF Vienna	6155.0eu	13730.0va				
1330-1400		Radio Australia	6020.0va	6080.0as	9415.0va	9580.0va	11660.0as	
1330-1400		KSDA Guam	9650.0as	13720.0as				
1330-1400		Radio Finland	11735.0na	15400.0na				
1330-1400	s	Universal Life, Germany	7295.0va					
1330-1400		Nat'l Radio of Laos	7116.0as					
1330-1400		Radio Sweden	9705.0as	13740.0as				
1330-1400		Radio Dubai, UAE	13630.0eu	13675.0eu	15395.0eu			
1330-1400		VOA	6110.0as	9645.0as	9760.0as	11705.0as	15425.0as	
1330-1400		Radio Tashkent	5975.0as	6025.0as	9715.0as			
1330-1400		Radio Yugoslavia	11835.0au					
1330-1430		Voice of Turkey	9630.0va	15290.0va				
1330-1500		All India Radio, Delhi	9545.0as	11620.0as	13710.0as			
1330-1525		Radio Netherlands	9895.0as	13700.0as	15585.0as			
1340-1350		Voice of Greece	9690.0na	12105.0eu	15175.0na	15650.0na		
1345-1400	w	BBS, Bhutan	5025.0do	6035.0do	9615.0do			
1345-1405		Vatican Radio	13765.0au	15540.0au				
1400-1415		Radio Botswana	4820.0do	7255.0do	9600.0do			
1400-1415		BBC English Teaching	11860.0af	15420.0af	17885.0af	21490.0af		
1400-1430		Radio Australia	5995.0va	6020.0va	6080.0as	9415.0va	11660.0as	
1400-1430	smtwhf	Radio Canada Int'l	9640.0na	11855.0na				
1400-1430		Radio Prague Int'l	13580.0va	21700.0af				
1400-1430		Alma Ata Radio, Khazak.	5915.0as	7255.0as				
1400-1430	mtwhf	Malawi B'casting Corp.	3380.0do					
1400-1430	s	Radio Norway	13800.0as					

1400-1430	Radio Thailand	9530.0as	9655.0as	11905.0as					
1400-1500	China Radio Int'l	7405.0na	9535.0as	11825.0as					
1400-1500	Radio France Int'l	7110.0as	12030.0as	17560.0af					
1400-1500	Radio Japan	7200.0as							
1400-1500	KHBI Saipan, Marianas	9355.0as							
1400-1500	Voice of Russia	7130.0me	9470.0me	9840.0me					
1400-1500	Swiss Radio Int'l	6165.0eu	9535.0eu	9885.0as	12075.0as	13635.0as			
1400-1500	BBC African Service	6190.0af	11940.0af	17830.0af	21470.0af	21660.0af			
1400-1500	BBC Asian Service	5990.0as	6195.0as	9740.0as	11750.0as				
1400-1500	BBC World Service	9410.0eu	9515.0na	9590.0na	12095.0eu	15220.0na	15485.0eu		
		15565.0eu	15575.0as	17640.0eu	17705.0eu	17840.0am			
1400-1500	VOA	6110.0as	7125.0as	7215.0as	9645.0as	9760.0as	11705.0as		
		15205.0as	15395.0as	15425.0as					
1400-1500	WYFR Okeechobee FL	5950.0na	11830.0na	17760.0na					
1400-1600	KFBS Saipan, Marianas	9465.0as	9495.0as	9670.0as					
1400-1600	FEBC Manila	11995.0as							
1400-1600	SBC Radio I, Singapore	6155.0do							
1400-1600	KJES Vado NM	11715.0na							
1400-1600	WEWN Birmingham AL	9455.0na	11875.0na	15745.0eu					
1400-2200	WWCR Nashville TN	9475.0na	12160.0na	13845.0na	15685.0na				
1400-2400	KAIJ Dallas TX	13815.0na							
1415-1420	Radio Nepal, Katmandu	3230.0as	5005.0as						
1415-1430 s	a BBC English Teaching	11860.0af	15420.0af	17885.0af	21490.0af				
1430-1500	Radio Canada Int'l	9555.0va	11915.0eu	11935.0va	15325.0va				
1430-1500 mtwhf	Radio Canada Int'l	9640.0na	11855.0na						
1430-1500	KSDA Guam	7400.0as							
1430-1500 mtwhf	Radio Portugal	21515.0as							
1430-1500	Radio Sweden	11650.0au	11880.0au	15240.0au					
1430-1600	Radio Myanmar	5990.0do							
1430-1700	Radio Australia	5995.0va	6020.0va	6080.0as	9415.0va	9435.0as	11660.0as		
1430-2100	Radio Uganda	4976.0do							
1445-1500	Radio Nigeria	3970.0do	4770.0do	4990.0do	6025.0do	6050.0do	7285.0do		
		9570.0do							
1450-1530	Vatican Radio	9875.0au	11640.0au						
1500-1505 mtwhf	Radio Burundi	6140.0do							
1500-1530	Kol Israel	9365.0va	12080.0va						
1500-1530	Radio Mexico Int'l	5985.0na	9705.0na						
1500-1530	Voice of Mongolia	9720.0as	12085.0as						
1500-1530 s	Radio New Nigeria	6175.0eu							
1500-1530	FEBA Seychelles	11600.0as							
1500-1530 mtwhfa	FEBA Seychelles	9810.0as							
1500-1530	Channel Africa, S. Africa	9440.0af							
1500-1530	BBC African Service	6190.0af	11860.0af	11940.0af	15400.0af	15420.0af	17830.0af		
		21470.0af	21490.0af	21660.0af					
1500-1550	Radio Pyongyang	3560.0eu	9640.0af	9975.0eu	11335.0eu	11735.0eu	13650.0me		
1500-1600	China Radio Int'l	7160.0as	7405.0na	9785.0as					
1500-1600	KTWR Guam	15105.0as							
1500-1600	a West Coast Radio, Ireland	6175.0eu							
1500-1600	Radio Japan	7200.0as	7240.0as	9535.0na	9570.0as	11730.0as	15355.0af		
1500-1600	NBC Windhoek, Namibia	6060.0af							
1500-1600 mtwhf	NBC Windhoek, Namibia	4930.0af							
1500-1600	Radio Nigeria	3970.0do	4770.0do	4990.0do	6025.0do	6050.0do	7285.0do		
		9570.0do							
1500-1600	Voice of Russia	4730.0me	4940.0me	4975.0me	5925.0me	7115.0af	7130.0me		
		7235.0me	9470.0af	9635.0me	9830.0me	9840.0me			
1500-1600	BBC Asian Service	5975.0as	5990.0as	6195.0as	9740.0as	11750.0as			
1500-1600	BBC World Service	6195.0eu	9410.0eu	9515.0na	9590.0na	12095.0eu	15220.0na		
		15485.0eu	15575.0eu	17705.0eu	17840.0am				
1500-1600 s	ANARC SWL Net	3940.0lf	7240.0lf						
1500-1600	VOA	6110.0as	7125.0as	7215.0as	9575.0as	9645.0as	9760.0as		
		15205.0as	15395.0as						
1500-1600	WYFR Okeechobee FL	11830.0na	17760.0na						
1500-1630 s	Radio Canada Int'l	9640.0na	11855.0na						
1500-1700	Voice of Nigeria	7255.0af							
1500-1800	WHRI Noblesville IN	13760.0va	15105.0am						
1515-1530	BBC English Teaching	5875.0eu	12040.0eu						
1515-1530 mtwhf	BBC English Teaching	9815.0as	11780.0as						
1530-1540	Radio Bangladesh	4880.0as	15520.0as						
1530-1545 sm	FEBA Seychelles	11600.0as							
1530-1545 mtwhfa	FEBA Seychelles	9810.0as							
1530-1545	BBC English Teaching	7135.0as	11685.0as						

1530-1600 s	twfha	TWR Russia	12005.0eu						
1530-1615		BBC African Service	6190.0af	11940.0af	15400.0af	17830.0af	21470.0af	21660.0af	
1530-1630		VOIRI Teheran	7215.0as	11790.0as	13605.0as				
1530-1915		Radio Tanzania	5050.0af						
1545-1600 s	h	Radio Bangladesh	4880.0as	15520.0as					
1545-1600	mtwhfa	FEBA Seychelles	9810.0as						
1550-1610	a	Vatican Radio	9875.0va	11640.0va					
1600-1615		BBC Asian Service	3915.0as	5975.0as	5990.0as	6195.0as	7135.0as	9740.0as	
			11750.0as						
1600-1615		BBC World Service	6195.0eu	9410.0eu	9515.0na	12095.0eu	15485.0eu	15575.0eu	
			17705.0eu	17840.0am					
1600-1625		Channel Africa, S. Africa	5955.0af						
1600-1625		Radio Dubai, UAE	11795.0eu	13630.0eu	13675.0eu	15395.0eu	17825.0eu		
1600-1625		Voice of Vietnam	5940.0eu	7270.0eu	7400.0eu	9839.9eu	12019.4eu	15009.2eu	
1600-1630		Radio Mexico Int'l	5985.0na	9705.0na					
1600-1630		Malawi B'casting Corp.	3380.0do						
1600-1630 s		Radio Norway	13800.0va	13805.0na					
1600-1630		Radio Pakistan	3664.0va	4790.0va	5027.0va	6070.0va	9515.0me	9600.0va	
			11565.0me	15570.0af	17720.0af				
1600-1630		Swiss Radio Int'l	9885.0as	12075.0as	13635.0as				
1600-1650		Deutsche Welle	6170.0as	7120.0af	7225.0as	7305.0as	9585.0as	9735.0af	
			11810.0af	13750.0af	15145.0af				
1600-1700		Radio Algiers	11714.6va	15160.0va					
1600-1700		China Radio Int'l	9565.0af	9620.0af					
1600-1700 s	a	AWR Costa Rica	9725.0na	11870.0sa	13750.0na				
1600-1700		Radio Ethiopia	5990.0af	7110.0af	7165.0af	9560.0af	9705.0af	11800.0af	
1600-1700		Radio France Int'l	6175.0eu	9485.0af	11615.0af	11700.0af	12015.0af	15530.0af	
1600-1700		KSDA Guam	7455.0as						
1600-1700		KFBS Saipan, Marianas	9465.0as	9495.0as					
1600-1700		Radio Nigeria	3970.0do	4770.0do	4990.0do	6025.0do	6050.0do	9570.0do	
1600-1700		Voice of Russia	4730.0me	4940.0me	4975.0me	6005.0af	6175.0af	7115.0af	
			7175.0af	7210.0af	7275.0af	9470.0af	9505.0af	9585.0af	
			9635.0af						
1600-1700 s	a	Sri Lanka B'casting Corp.	9730.0as	15425.0as					
1600-1700		Radio Korea	5975.0om	9515.0af	9870.0af				
1600-1700		VOA	6035.0af	6110.0as	7125.0as	7215.0as	9575.0as	9645.0as	
			9760.0as	11920.0af	12040.0af	13600.0af	13710.0af	15205.0as	
			15225.0af	15395.0as	15410.0af	15445.0af	17895.0af		
1600-1700		WYFR Okeechobee FL	11550.0as	11830.0na	15215.0na	15695.0eu	17555.0eu	17760.0na	
			21525.0eu						
1600-1730		TWR Swaziland	9500.0af						
1600-1800		KHBN Palau	9965.0as						
1600-1800		WEWN Birmingham AL	11875.0na	13615.0na	15745.0eu				
1600-1800		WSHB Cypress Creek SC	18930.0af						
1600-1900		NBC Windhoek, Namibia	3270.1af						
1600-2100		Italian Radio Relay Svc	3985.0uf						
1600-2200		Christian Voice, Zambia	3330.0do						
1600-2300		WRNO New Orleans LA	7395.0al	15420.0am					
1600-2400		KTBN Salt Lake City UT	15590.0na						
1610-1620		Radio Botswana	3356.0do	4820.0do	7255.0do				
1615-1630	mtwhf	Radio Estonia, Tallinn	5925.0eu						
1615-1630		BBC English Teaching	6010.0eu	9915.0eu					
1615-1630		BBC World Service	6195.0eu	9410.0eu	12095.0eu	15485.0eu	15575.0eu	17705.0eu	
			17840.0am						
1615-1630	a	BBC World Service	9515.0na						
1615-1645		BBC African Service	6190.0af	11940.0af	15400.0af	15420.0af	17830.0af	21470.0af	
			21660.0af						
1615-1645 s	a	BBC African Service	11860.0af						
1615-1745		BBC Asian Service	3915.0as	5975.0as	7135.0as	9510.0as	9740.0as	11750.0as	
1630-1645		Radio Cairo	11875.0af	15255.0af					
1630-1659		Radio Canada Int'l	6140.0as	7150.0as					
1630-1659 s		Radio Canada Int'l	9640.0na	11855.0na					
1630-1700	a	Universal Life, Germany	7345.0me						
1630-1700		Alma Ata Radio, Khazak.	6230.0as						
1630-1700		BBC World Service	6195.0eu	9410.0eu	12095.0eu	15485.0eu	15575.0eu	17840.0am	
1630-1700	a	BBC World Service	9515.0na						
1640-1650 s		Radio Rwanda	6055.0do						
1645-1700		Radio Afghanistan	7200.0as						
1645-1700		Kol Israel	7465.0va	9435.0eu	11605.0eu				
1645-1700		Radio Dushanbe	648.0as	1143.0as	7245.0as	11620.0as			

1645-1700		BBC African Service	1197.0af 17830.0af	6190.0af 21470.0af	11860.0af 21660.0af	11940.0af	15400.0af	15420.0af
1645-1830		Radio Cairo	15255.0af					
1650-1852	mtwhf	Radio New Zealand Int'l	9810.0va					
1700-1715		Cameroon Radio-TV	4850.0va					
1700-1727		Radio Prague Int'l	5930.0eu	9430.0af				
1700-1730		Radio France Int'l	9485.0af	11615.0af				
1700-1730 s		Radio Norway	7560.0eu					
1700-1730		AWR Europe, Slovakia	7325.0as	9450.0af				
1700-1730		Channel Africa, S. Africa	15240.0af					
1700-1730		Vatican Radio	4005.0eu	5883.0eu	7250.0eu	9645.0eu	11810.0va	
1700-1745		BBC African Service	6005.0af 17830.0af	6190.0af	9630.0af	11940.0af	15400.0af	15420.0af
1700-1756		Radio Romania Int'l	7195.0eu	9690.0eu	11790.0eu	11940.0eu	15105.0eu	
1700-1800		Radio Australia	5995.0va	6020.0va	6080.0as	9415.0va	9435.0as	11880.0va
1700-1800		R. Dada Gorgud, Azerb.	6110.0eu 15175.0	7160.0eu	9580.0eu	9840.0	11835.0	15135.0
1700-1800		China Radio Int'l	7150.0af	7405.0af	9570.0af			
1700-1800		R. for Peace Int'l	7385.0va	15050.0va	21465.0uf			
1700-1800		Radio Japan	6035.0as 11730.0as	6190.0am 11880.0me	7110.0eu	7200.0as	7225.0as	9535.0na
1700-1800		Voice of Russia	4920.0eu 7125.0eu 7275.0af	5940.0eu 7175.0af 7305.0af	5965.0eu 7180.0eu 7325.0af	6130.0eu 7185.0af 7355.0af	6175.0af 7210.0af 7440.0eu	7115.0af 7255.0af 9560.0af
			9585.0me 12065.0me	9765.0eu 15400.0eu	9775.0eu	9830.0af	9880.0eu	9890.0eu
1700-1800		BBC World Service	3955.0eu 15485.0eu	6095.0me 17840.0na	6180.0eu	6195.0eu	9410.0eu	12095.0eu
1700-1800		VOA	6040.0af 11920.0af 15445.0af	6110.0as 12040.0af 17895.0af	7125.0as 15120.0eu	7215.0as 15205.0as	9645.0as 15395.0as	9760.0as 15410.0af
1700-1800	mtwhf	VOA	5990.0as 15255.0as	6045.0as	9525.0as	9670.0as	9795.0as	12005.0as
1700-1800		WYFR Okeechobee FL	11550.0as	15695.0eu	17555.0eu			
1700-1900		Overcomer Min., Germany	6175.0eu	11650.0me				
1700-2000		Star Radio, Liberia	5880.0do					
1700-2000		KFBS Salpan, Marianas	9465.0as					
1700-2030		Radio Nigeria	3326.0do 9570.0do	3970.0do	4770.0do	4990.0do	6025.0do	6050.0do
1700-2200		WINB Red Lion PA	13790.0va					
1700-2200	smtwhf	WMLK Bethel PA	9465.0na					
1700-2200		Radio 3, Zimbabwe	4828.0do					
1700-2300		Radio Africa, Eq. Guinea	7190.0af					
1700-2400		Ghana Broadcasting Corp.	3366.0do	4915.0do				
1730-1745		TWR Swaziland	9500.0af					
1730-1745	mtwh	TWR Swaziland	3200.0af					
1730-1745		BBC English Teaching	3390.0af	6070.0af	7210.0eu	9520.0af	9530.0eu	
1730-1755		R. Vlaanderen Int'l	5910.0eu	9925.0eu	11680.0me			
1730-1800		ORF Vienna	6155.0eu	9655.0me	13710.0as	13730.0va		
1730-1800		Georgian Radio, Tbilisi	6180.0me					
1730-1800		KSDA Guam	7510.0as					
1730-1800		Radio Slovakia Int'l	5915.0eu	6055.0eu	7345.0eu			
1730-1800		Vatican Radio	11625.0af	13765.0af				
1730-1830		Radio Netherlands	6020.0af	9605.0af	11655.0af			
1730-1930		Radio Pilipinas, Manila	11730.0pa	11890.0pa	15190.0pa			
1730-2310		SLBS, Sierra Leone	3316.0do					
1735-1745	t h	R. Nacional Paraguay	9736.2sa					
1745-1800		Radio Burundi	6140.0do					
1745-1800		RTV Madagascar	3282.0do	3358.9do	5009.5do			
1745-1800		BBC African Service	6190.0af	11940.0af	15400.0af	15420.0af	17830.0af	
1745-1800		BBC Asian Service	5975.0as	9510.0as	9740.0as	11750.0as		
1745-1800		BBC English Teaching	7210.0eu	9530.0eu				
1745-1830		TWR Swaziland	3200.0af	9500.0af				
1745-1900		Radio Bangladesh	7185.0eu	9548.0eu	15520.0eu			
1745-1945		All India Radio, Delhi	7410.0eu 15075.0af	9650.0af	9950.0eu	11620.0eu	11935.0af	13780.0af
1800-1815		BBC English Teaching	6065.0as	7200.0as	9605.0as			
1800-1825		Voice of Vietnam	5940.0eu	7270.0eu	7400.0eu	9839.9eu	12019.4eu	15009.2eu
1800-1827		Radio Prague Int'l	5930.0eu	9430.0as				
1800-1830 s		Universal Life, Germany	11605.0af					
1800-1830		Matawi B'casting Corp.	3380.0do					



1800-1830		Channel Africa, S. Africa	15240.0af						
1800-1830		BBC African Service	3255.0af	6190.0af	15400.0af	15420.0af	17830.0af		
1800-1830		BBC Asian Service	5975.0as	9510.0as	9740.0as				
1800-1830		BBC World Service	3955.0eu	6095.0me	6180.0eu	6195.0eu	9410.0eu	12095.0eu	
			17840.0na						
1800-1830		VOA	6035.0af	6040.0af	9760.0as	11920.0af	11975.0af	13710.0af	
			15410.0af	15580.0af					
1800-1850		Radio Pyongyang	4405.0eu	6575.0eu	9345.0am	11700.0am	13760.0am		
1800-1855		Polish Radio, Warsaw	6000.0eu	6095.0eu	7285.0eu				
1800-1900	mtwhf	RAE Buenos Aires	15345.0eu						
1800-1900		Radio Maputo, Mozambique	3265.0af	4855.0af					
1800-1900		Voice of Russia	6130.0eu	7115.0af	7175.0af	7180.0eu	7210.0va	7275.0af	
			7305.0af	7440.0eu	9890.0eu				
1800-1900	m	Amateur Radio League, SAF	3215.0af						
1800-1900		R. Omdurman, Sudan	9200.0do						
1800-1900		KWHR Naalehu HI	7560.0pa	13625.0as					
1800-1900		WSHB Cypress Creek SC	13770.0eu	18930.0af					
1800-1900		WYFR Okeechobee FL	15695.0eu	17555.0eu					
1800-1900		Republic of Yemen Radio	9779.8do						
1800-1920		Radiobras, Brasilia	15265.0eu						
1800-2000		Radio Australia	5995.0va	6080.0pa	7240.0va	9415.0va	9435.0as	11880.0va	
1800-2000		KHBI Saipan, Marianas	9355.0eu	9385.0af					
1800-2100		Voice of Hope, Georgia	6290.0eu						
1800-2100		Radio Kuwait	11990.0na						
1800-2200		R. for Peace Int'l	15050.0va	21465.0uf					
1800-2200		WEWN Birmingham AL	11875.0na	13615.0na	17695.0eu				
1800-2200		WHRI Noblesville IN	9495.0am	13760.0va					
1800-2400		Radio Liberia Int'l	5100.0do						
1830-1840		Radio Mogadishu	6870.0af						
1830-1845	m w	BBC English Teaching	6050.0eu	7325.0eu	9685.0eu				
1830-1855		R. Vlaanderen Int'l	9925.0af	13745.0af					
1830-1900	s	Universal Life, Germany	9490.0af						
1830-1900		Radio Sweden	9645.0eu						
1830-1900	mtwhfa	Radio Sweden	6065.0eu						
1830-1900		BBC Asian Service	9740.0pa						
1830-1900		BBC African Service	3255.0af	6005.0af	6190.0af	9630.0af	15400.0af	15420.0af	
			17830.0af						
1830-1900		BBC World Service	3955.0eu	6180.0eu	6195.0eu	9410.0eu	12095.0eu	17840.0na	
1830-1900		VOA	6035.0af	6040.0af	9760.0as	11920.0af	11975.0af	13710.0af	
			15410.0af	15580.0af					
1830-1900	s	VOA	7150.0af	9845.0af	15445.0af				
1830-1930	a	Radio Ivory Coast, Abidjn	11920.0af						
1830-2015		TWR Swaziland	3200.0af						
1830-2025		Radio Netherlands	6020.0af	9605.0af	9895.0af	11655.0af	15315.0af		
1840-1850	mtwhf	Voice of Greece	11645.0af	15150.0af					
1845-1900		RTV Guinea	6155.0af	7125.0af	9650.0af	15310.0af			
1845-1900		Radio Mali	4783.0do	4835.0do	5995.0do				
1852-2000	smtwhf	Radio New Zealand Int'l	11735.0va						
1900-1915		BBC English Teaching	11880.0af	15105.0af	17885.0af				
1900-1925		Voice of Vietnam	5940.0eu	7270.0eu	7400.0eu	9839.9eu	12019.4eu	15009.2eu	
1900-1930		R. Dada Gorgud, Azerb.	4958.0	15240.0					
1900-1930	s	Radio Norway	7485.0eu	9590.0af	9960.0na				
1900-1930	s	Radio Sweden	9645.0eu						
1900-1930		BBC African Service	3255.0af	6005.0af	6190.0af	9630.0af	15400.0af	17830.0af	
1900-1930		VOA	6035.0af	7415.0af	9525.0pa	9760.0as	11870.0pa	11920.0af	
			11975.0af	13710.0af	15180.0pa	15410.0af	15580.0af		
1900-1930	a	VOA	4950.0af						
1900-1950		Deutsche Welle	9640.0af	9765.0af	11785.0af	11810.0af	13790.0af	15135.0af	
			15425.0af						
1900-1950	s	Radio Latvia	5935.0eu						
1900-1950	a	Radio Pyongyang	6520.0af	9600.0af	9975.0af				
1900-2000		China Radio Int'l	6955.0af	9440.0af					
1900-2000	h	West Coast Radio, Ireland	11665.0af						
1900-2000		NBC Windhoek, Namibia	3270.1af						
1900-2000	mtwhf	NBC Windhoek, Namibia	3289.9af						
1900-2000	a	Voice of Free Nigeria	11715.0va						
1900-2000		Voice of Russia	4920.0eu	5940.0eu	5965.0eu	6130.0eu	7180.0eu	7210.0af	
			7255.0af	7275.0af	7305.0af	7325.0af	7440.0eu	7490.0af	
			9440.0af	9585.0af	9890.0eu				
1900-2000	a	Sri Lanka B'casting Corp.	5975.0eu						
1900-2000		Radio Korea	5975.0om	7275.0om					

1900-2000		Radio Thailand	9535.0eu	9655.0eu	11905.0eu					
1900-2000		BBC Asian Service	9740.0pa							
1900-2000 s		BBC Asian Service	5975.0me							
1900-2000		BBC World Service	3955.0eu	6180.0eu	6195.0eu	9410.0eu	12095.0eu			
1900-2000	mtwhfa	BBC World Service	5975.0me							
1900-2000		WSHB Cypress Creek SC	13770.0eu	17510.0af						
1900-2000		WYFR Okeechobee FL	17555.0eu							
1900-2100		Voice of Nigeria	7255.0af							
1900-2100		SIBC Solomon Islands	5020.0do							
1900-2200		HJJB Quito Ecuador	12015.0eu	21455.0uf						
1900-2200		KJES Vado NM	15385.0au							
1900-2200		KWHR Naalehu HI	13625.0as	17555.0pa						
1905-2005		Radio Kudirat, Nigeria	6205.0do							
1910-1920		Radio Botswana	3356.0do	4820.0do						
1915-1925		Radio Rwanda	6055.0do							
1915-1930	m hf	BBC English Teaching	6150.0eu	7210.0eu						
1930-1945 s	a	BBC English Teaching	6150.0eu	7210.0eu						
1930-2000		Georgian Radio, Tbilisi	11910.0eu							
1930-2000	mtwhf	Radio Telefis Eireann	12160.0am							
1930-2000		Voice of Mongolia	9720.0eu	12085.0eu						
1930-2000		Radio Slovakia Int'l	5915.0eu	6055.0eu	7345.0eu					
1930-2000		VOA	4950.0af	6035.0af	7415.0af	9525.0pa	9760.0as	11870.0pa		
			11920.0af	11975.0af	13710.0af	15180.0pa	15410.0af	15580.0af		
1930-2000		Radio Yugoslavia	6100.0eu	9720.0af						
1930-2030		VOIRI Teheran	7160.0eu	7260.0eu	9022.0eu					
1930-2030		Voice of Turkey	5960.0uf	6175.0eu						
1930-2100		BBC African Service	3255.0af	6005.0af	6190.0af	9630.0af	11835.0af	15400.0af		
			17830.0af							
1930-2200		Nat'l BC, Papua NG	4890.0do							
1935-1955		RAI, Rome	6015.0eu	7225.0eu						
1945-1950		RTV Togo	5047.0af							
1945-2000		Radio Tirana, Albania	6025.0eu	7135.0eu						
1945-2000	tw	BBC English Teaching	6150.0eu							
1950-2000		Radio Latvia	5935.0eu							
2000-2025		Kol Israel	7465.0va	9365.0va	9435.0va	15640.0af				
2000-2030		Radio Budapest	3975.0eu	9535.0eu						
2000-2030	m	Radio Estonia, Tallin	5925.0eu							
2000-2030 s	a	Radio Telefis Eireann	12160.0am							
2000-2030	w	Malawi B'casting Corp.	3380.0do							
2000-2030		Radio Mexico Int'l	5985.0na	9705.0na						
2000-2030 s		Radio Norway	7570.0au							
2000-2030		Swiss Radio Int'l	9620.0af	9885.0af	9905.0af	11725.0af				
2000-2030		VOA	4950.0af	6035.0af	7415.0af	9760.0as	11855.0af	11975.0af		
			13710.0af	15205.0as	15410.0af	15580.0af	17725.0af	17755.0af		
2000-2030		Vatican Radio	7365.0af	9660.0af	11625.0af					
2000-2035	mtwhf	Radio Latvia	5935.0eu							
2000-2050		Deutsche Welle	7285.0eu							
2000-2052		Radio New Zealand Int'l	11735.0va							
2000-2100		Radio Algiers	11714.6va	15160.0va						
2000-2100		R. Nacional de Angola	3375.0	9535.0						
2000-2100		Radio Australia	5995.0va	9415.0va	9435.0as	11880.0va				
2000-2100		Radio Bulgaria	7530.0eu	9700.0eu						
2000-2100		China Radio Int'l	6950.0eu	7160.0af	7170.0af	7175.0af	9440.0af	9920.0eu		
2000-2100		V. of the Mediterranean	7440.0eu							
2000-2100		KHBI Salpan, Marianas	13840.0au							
2000-2100		Voice of Russia	4920.0eu	5940.0eu	5965.0eu	6130.0eu	7180.0eu	7305.0af		
			7325.0af	7440.0eu	7490.0af	9440.0af	9585.0af	9820.0eu		
			9890.0eu							
2000-2100	mtwhf	Radio Exterior de Espana	6125.0eu	11775.0af						
2000-2100		BBC Asian Service	5975.0pa	9740.0pa						
2000-2100		BBC World Service	3955.0eu	6180.0eu	6195.0eu	7325.0eu	9410.0eu	11750.0sa		
			12095.0eu							
2000-2100		WYFR Okeechobee FL	5810.0eu	7355.0eu	15565.0eu	21525.0eu				
2000-2200		WSHB Cypress Creek SC	7510.0eu	9355.0va	15665.0af					
2000-2300	mtwhf	NBC Windhoek, Namibia	3289.9af							
2000-2300		Radio Vanuatu	3945.0do							
2005-2105		Radio Damascus	12085.0eu	13610.0eu						
2010-2110 s	a	Kenya BC Corp	4935.0do							
2025-2045		RAI, Rome	6035.0af	7125.0af	7295.0af	9685.0af	11840.0af			
2030-2045		Radio Thailand	9535.0eu	9655.0eu	11905.0eu					
2030-2055		Voice of Vietnam	5940.0eu	7270.0eu	7400.0eu	9839.9eu	12019.4eu	15009.2eu		

2030-2100		Georgian Radio, Tbilisi	11760.0eu						
2030-2100		Radio Finland	9875.0af						
2030-2100		Radio Iraq Int'l	11785.0ir						
2030-2100		Radio Sweden	6065.0eu						
2030-2100		VOA	6035.0af	7415.0af	9760.0as	11975.0af	13710.0af	15205.0as	
			15410.0af	15580.0af	17725.0af	17755.0af			
2030-2100 s	a	VOA	4950.0af						
2030-2100		Radio Tashkent	9540.0eu	9545.0eu					
2030-2115		Radio Cairo	15375.0af						
2030-2125		Polish Radio, Warsaw	6035.0eu	6095.0eu	7285.0eu				
2030-2130		Radio Havana Cuba	13605.0uf	13715.0eu					
2030-2130		AWR Europe, Germany	9835.0af						
2030-2130		AWR Europe, Slovakia	7265.0af						
2030-2300		Radio Nigeria	3326.0do	4770.0do	4990.0do	6025.0do	6050.0do	9570.0do	
2030-2400 smtwh		ZLXA New Zealand	3935.0do						
2030-2400	f	ZLXA New Zealand	5960.0do						
2045-2100 mtwhf		Radio Nadeco, Nigeria	15685.0af						
2045-2230		All India Radio, Delhi	7150.0au	7410.0eu	9650.0eu	9910.0au	9950.0eu	11620.0va	
			11715.0au						
2050-2110		Vatican Radio	4005.0eu	5883.0eu	7250.0eu				
2052-2100 smtwhf		Radio New Zealand Int'l	15115.0va						
2052-2100	a	Radio New Zealand Int'l	11735.0va						
2100-2115		Cameroon Radio-TV	4850.0va						
2100-2115		Radio Japan	6035.0as	6090.0as	13630.0na				
2100-2115		BBC World Service	3955.0eu	5975.0am	6180.0eu	6195.0eu	7325.0eu	9410.0eu	
			11750.0sa						
2100-2127		Radio Prague Int'l	5930.0va	7345.0af					
2100-2130		Radio Australia	5995.0va	7240.0pa	9415.0va	9435.0as	9660.0pa	11880.0va	
			12080.0va	17795.0va					
2100-2130		China Radio Int'l	6950.0eu	7170.0af	7180.0af	9535.0af	9920.0eu		
2100-2130		Radio Finland	6135.0af						
2100-2130		Radio Mexico Int'l	5985.0na	9705.0na					
2100-2130		Malawi B'casting Corp.	3380.0do						
2100-2130 mtwhf		Radio Portugal	7110.0eu	9780.0eu	9815.0eu				
2100-2130		Radio Korea	6480.0eu	15575.0eu					
2100-2130		Swiss Radio Int'l	6165.0eu	7410.0eu					
2100-2130		VOA	6035.0af	6070.0me	7415.0af	9595.0as	9760.0me	11870.0pa	
			11975.0af	13710.0af	15185.0pa	15205.0as	15410.0af	15580.0af	
			17725.0af	17735.0pa					
2100-2150		Deutsche Welle	9615.0af	9670.0as	9690.0af	9765.0as	11785.0as	11865.0af	
			15275.0va						
2100-2150		Radio Pyongyang	4405.0eu	6575.0eu	9345.0am	11700.0am	13760.0am		
2100-2156		Radio Romania Int'l	5955.0eu	5990.0eu	6105.0eu	6175.0eu	7195.0eu	9570.0eu	
2100-2200		Radio Canada Int'l	5925.0va	5995.0va	7235.0va	9805.0va	11945.0va	13650.0va	
			13690.0va	15150.0va	17820.0af				
2100-2200		Voice of Russia	5940.0eu	5965.0eu	7170.0eu	7180.0eu	7320.0eu	7440.0eu	
			9890.0eu						
2100-2200		BBC African Service	3255.0af	6005.0af	6190.0af	11835.0af			
2100-2200		BBC Asian Service	3915.0as	5965.0as	5975.0pa	6120.0as	6195.0as	9740.0pa	
2100-2200		KHBN Palau	9985.0as						
2100-2200		WYFR Okeechobee FL	7355.0eu	11580.0eu	15565.0eu				
2100-2230		SIBC Solomon Islands	5020.0do	9545.0do					
2100-2300		Italian Radio Relay Svc	3955.0uf						
2100-2400		Radio New Zealand Int'l	15115.0va						
2110-2210		Radio Damascus	12085.0na	13610.0na					
2115-2130 mtwhf		BBC Caribbean Report	5975.0ca	15390.0ca	17715.0ca				
2115-2130		BBC World Service	3955.0eu	6180.0eu	6195.0eu	7325.0eu	9410.0eu	11750.0sa	
2115-2130 s	a	BBC World Service	5975.0am						
2115-2145		Voice of Armenia, Yerevan	4810.0eu	9965.0eu					
2115-2200		Radio Cairo	9900.0eu	15375.0af					
2115-2200		Radio Japan	6035.0as	13630.0na					
2130-2145	t	BBC Calling Falklands	11680.0sa						
2130-2200	f	Radio Australia	7240.0pa	9435.0as	9660.0pa	11695.0as	12080.0va	13755.0va	
			17795.0va						
2130-2200		China Radio Int'l	6950.0eu	9920.0eu					
2130-2200		KSDA Guam	9495.0as						
2130-2200		Radio Korea	15575.0eu						
2130-2200 s	a	Radio Sweden	6065.0eu	9655.0eu					
2130-2200		BBC English Teaching	5875.0eu	6050.0eu	9850.0eu				
2130-2200		BBC World Service	3955.0eu	5975.0am	6180.0eu	6195.0eu	7325.0eu	9410.0eu	
			11750.0sa						

2130-2200	VOA	6070.0me	9595.0as	9760.0me	11870.0pa	15185.0pa	15205.0as	
		17735.0pa						
2130-2200 smtwhf	VOA	6035.0af	7415.0af	11975.0af	13710.0af	15410.0af	15580.0af	
		17725.0af						
2130-2200	Radio Tashkent	7105.0eu	9540.0eu					
2130-2225	VOIRI Teheran	6165.0pa	6175.0pa					
2130-2230	Voice of Turkey	7200.0eu						
2130-2400	ABC Alice Springs	4835.0do						
2130-2400	ABC Katherine	5025.0do						
2130-2400	ABC Tennant Creek	4910.0do						
2200-2215	BBC English Teaching	6110.0am	9560.0am	9825.0am	11765.0am	15390.0am		
2200-2225	RAI, Rome	6150.0pa	9675.0pa	11900.0pa				
2200-2225	Radio Moldova Int'l	7520.0eu						
2200-2229	Radio Canada Int'l	5995.0va	7235.0va	9735.0va	9805.0va	11705.0as	11945.0va	
		13690.0va	15150.0va					
2200-2230	Radio Tirana, Albania	6025.0eu	7135.0eu					
2200-2230	Radio Budapest	3975.0eu	9840.0eu					
2200-2230	China Radio Int'l	3985.0eu	7170.0eu					
2200-2230	Malawi B'casting Corp.	3380.0do						
2200-2230 s	Radio Norway	7570.0sa						
2200-2230	AWR Europe, Slovakia	6055.0eu						
2200-2230	Radio Korea	3970.0eu						
2200-2230	BBC World Service	3955.0eu	5975.0am	6175.0na	6195.0eu	7325.0eu	9410.0eu	
		9590.0na	9660.0as	9915.0sa	11750.0sa	12080.0pa		
2200-2230	VOA	7215.0as	9770.0as	9890.0as	11760.0as	15185.0as	15290.0as	
		15305.0as	17735.0pa	17820.0as				
2200-2230 mtwhf	VOA	6035.0af	7415.0af	11975.0af	12080.0af	13710.0af		
2200-2230	Radio Yugoslavia	6100.0eu	6185.0eu					
2200-2245	Radio Cairo	9900.0eu						
2200-2300	Radio Australia	9660.0pa	11695.0as	13755.0va	15510.0va	17795.0va		
2200-2300	Radio Bulgaria	7530.0eu	9700.0eu					
2200-2300	Voice of Indonesia	7225.0va	9525.0va	15149.8va				
2200-2300	Voice of Russia	5940.0eu	5965.0eu	7105.0eu	7125.0eu	7180.0eu	7205.0eu	
		7320.0eu	7360.0eu	7440.0eu	9890.0eu			
2200-2300 s	a Radio Exterior de Espana	6125.0eu	11775.0af					
2200-2300	V. of Free China, Taiwan	5810.0eu	9985.0eu					
2200-2300	Radio Ukraine Int'l	5905.0eu	5915.0na	5940.0eu	6010.0eu	6020.0eu	6080.0eu	
		6085.0na	7150.0na	7205.0eu	7420.0eu	9560.0eu		
2200-2300	BBC African Service	11835.0af						
2200-2300	BBC Asian Service	5905.0as	5965.0as	6195.0as	7110.0as	11955.0as		
2200-2300	WYFR Okeechobee FL	11580.0eu	15565.0eu					
2200-2400	Caribbean Beacon	6090.0am						
2200-2400	R. for Peace Int'l	7385.0va	15050.0va	21465.0uf				
2200-2400	Voice of Guyana	3290.0do						
2200-2400	RTM Radio 4, Malaysia	7295.0do						
2200-2400	KHBN Palau	9955.0as	9965.0as	9985.0as				
2200-2400	Nat'l BC, Papua NG	9520.0do	9675.0do	11880.0do				
2200-2400	KWHR Naalehu HI	17510.0as	17555.0pa					
2200-2400	WEWN Birmingham AL	5825.0va	13615.0na					
2200-2400	WHRI Noblesville IN	5745.0va	9495.0am					
2200-2400	WINB Red Lion PA	11950.0va						
2200-2400	WSHB Cypress Creek SC	7510.0eu	13770.0sa					
2200-2400	WWCR Nashville TN	5070.0na	7435.0na	9475.0na	13845.0na			
2230-2257	Radio Prague Int'l	5930.0na	7345.0na					
2230-2300	ORF Vienna	5945.0eu	6155.0eu	13730.0af				
2230-2300	China Radio Int'l	7170.0eu						
2230-2300	Radio Iraq Int'l	11785.0ir						
2230-2300	Radio Sweden	6065.0eu	7325.0eu					
2230-2300	BBC World Service	3955.0eu	5975.0am	6175.0na	6195.0eu	9590.0na	9660.0as	
		9915.0sa	11750.0sa	12080.0pa				
2230-2330	Radio Havana Cuba	6000.0am						
2230-2400 s	a SIBC Solomon Islands	5020.0do						
2230-2400	a SIBC Solomon Islands	9545.0do						
2230-2400	VOA	7215.0as	9770.0as	9890.0as	11760.0as	15185.0as	15290.0as	
		15305.0as	17735.0pa	17820.0as				
2240-2250 smtwhf	Voice of Greece	11595.0au	11645.0au					
2245-2315	Vatican Radio	6160.0au	7305.0au	9600.0au	11830.0au			
2245-2400	All India Radio, Delhi	7410.0as	9705.0as	9950.0as	11620.0as			
2300-2325	Radio Moldova Int'l	7520.0eu						
2300-2330	Radio Canada Int'l	5960.0am	6040.0ca	9535.0ca	9755.0am	11865.0ca		
2300-2330	KSDA Guam	11775.0as						

2300-2330	BBC Asian Service	3915.0as 11945.0as	5965.0as 11955.0as	6035.0as	6195.0as	7110.0as	9580.0as
2300-2330	BBC World Service	3955.0eu 11750.0sa	5975.0am	6175.0na	6195.0eu	9590.0na	9915.0sa
2300-2350	Deutsche Welle	6045.0as	6130.0as	7235.0as			
2300-2350	Radio Pyongyang	11335.0am	11700.0am	13760.0am	15130.0am		
2300-2356	Radio Romania Int'l	5955.0eu	6105.0eu	7195.0eu	9570.0na	11830.0na	
2300-2400	Radio Australia	9660.0pa	12080.0va	13755.0va	15510.0va	17795.0va	
2300-2400	AWR Costa Rica	5030.0am	6150.0sa	9725.0na	13750.0na	15460.0sa	
2300-2400	Radio Cairo	9900.0am					
2300-2400	NBC Windhoek, Namibia	3270.1af	3289.9af				
2300-2400	Voice of Russia	5940.0na	7105.0na	7125.0na	7180.0na		
2300-2400	SBC Radio 1, Singapore	6160.0do					
2300-2400	Voice of Turkey	6135.0eu	9655.0eu				
2300-2400	WGTO McCaysville GA	5085.0na					
2300-2400	WRNO New Orleans LA	7355.0na					
2300-2400	Radio Vanuatu	3945.0do	7260.0do				
2310-2315	Kirghiz Radio, Bishkek	4010.0va	4050.0va				
2330-2345	BBC Asian Service	5965.0as 11955.0as	6035.0as	6195.0as	7110.0as	9580.0as	11945.0as
2330-2345	BBC English Teaching	3915.0as	6140.0as				
2330-2355	Voice of Vietnam	5940.0af	7270.0af	7400.0af	9839.9af	12019.4af	15009.2af
2330-2400	Radio Canada Int'l	5960.0na	9755.0na				
2330-2400 s a	Radio Canada Int'l	6040.0am	9535.0am	11865.0am			
2330-2400 mtwhf	KSDA Guam	11775.0as					
2330-2400	Radio Netherlands	6020.0na	6165.0na				
2330-2400	BBC World Service	5975.0am	6175.0na	9590.0na	9915.0sa	11750.0sa	
2335-2345 mtwhf	Voice of Greece	9395.0am	9425.0am	11595.0am	11710.0ca		
2345-2400	BBC Asian Service	5965.0as 11955.0as	6035.0as	6195.0as	7110.0as	9580.0as	11945.0as
2345-2400 mtwhf	BBC Asian Service	3915.0as					
2345-2400	BBC English Teaching	5875.0am	6110.0am	9825.0am	11765.0am		

Key: s - Sunday      am - Americas      af - Africa      do - Domestic  
m - Monday      na - North America      me - Middle East      va - Various  
t - Tuesday      ca - Central America      as - Asia      oc - Occasional  
w - Wednesday      sa - South America      pa - Pacific      ir - Irregular  
h - Thursday      eu - Europe      au - Australia  
f - Friday      lf - Lower Sideband  
a - Saturday      uf - Upper Sideband

Production note: This column has been prepared using the same typeface and at roughly the same size as is used in telephone directories throughout America in an attempt to provide as much information as possible in fewer pages while remaining readable. Please address comments on the readability of this section to Ralph Brandi, ralph@mcs.com, 6 Juneau Court, Tinton Falls, NJ 07712 USA.

## Welcome to the following new NASWA members

Todd Anderson, Jamestown, NY	Daniel Moeller, Altoona, PA
Gregory M. Bailey, Somersworth, NH	Keith Moubray, Akron, NY
Louis R. Bloetjes, Totowa, NJ	Jay W. Murray, Littleton, CO
Louis H. Buehler, Winfield, MO	Charles Neugebauer, Waymart, PA
Michael J. Calhoun, Atlanta, GA	Jan D. Noss, York New Salem, PA
Edward J. Crosby WB0VUQ, Total, IA	Robert G. Roth, Titusville, FL
Bill Dehart, Catlettsburg, KY	C. W. Rumpf, Farmingdale, NY
Elbert D. Dressler, Topeka, KS	Dwight W. Smith, Sachse, TX
COL Joseph Dudzik USA RET, Norman, OK	Robert F. Stein, New York, NY
Lon Foltman, Fair Haven, VT	F. E. Tesfay, New Paltz, NY
George R. Gurzynski, Maumee, OH	Stuart J. Thorson, Cazenovia, NY
Richard R. Hammer, Toledo, OH	Louis Van Leeuwen, Mesa, AZ
Clemente Hernandez, Tucson, AZ	Benson Vess, Seattle, WA
John S. Kitchen, Gilford, NH	Harold Yeglin, Roanoke, VA
Arthur E. Krugaluk, Wilmington, MA	

# 11th Annual Winter SWL Festival

March 12-14, 1998

Holiday Inn  
Sumnertown Pike  
Kulpsville, Pennsylvania

"Yeah, but ours  
go up to eleven..."

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.

Registration Options include:

**FULL** — Includes forums, hospitality room, lunch and banquet — **\$40**  
**PARTIAL** — Includes forums, hospitality room but NO meals — **\$17**  
**SPOUSE** — Includes hospitality room and meals — **\$22**

**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, 1998.

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 1998, one special rate \$64 single or double! Tell the hotel staff you're with the WINTER SWL FEST to receive this special room rate. Up to the minute info. can be heard on the ANARC SWL.NET on 7240 LSB at 10 AM Sundays.

The Holiday Inn is located at EXIT 31 of the PA Turnpike Northeast Extension-Lansdale Interchange. Improved access from the south with the Blue Route—ask for details. Limo service is available from Phila. Intl Airport directly to the Holiday Inn.

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

Winter SWL Festival  
PO Box 591  
Colmar, PA 18915

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ E-Mail: \_\_\_\_\_

Circle: FULL PARTIAL SPOUSE (Spouse Name \_\_\_\_\_)

Banquet - Check: Roast Beef \_\_\_\_\_ Chicken \_\_\_\_\_ Registration Fee Enclosed: \$ \_\_\_\_\_

I wish to purchase \_\_\_\_\_ raffle tickets Tickets Fee Enclosed: \$ \_\_\_\_\_

(\$1 ea./ 6 for \$5/ Special 13 for \$10) Total check/money order enclosed: \$ \_\_\_\_\_

Registration cancellations after 2/28/98 cannot be refunded, however we will refund raffle ticket money if you have to cancel.

Registration verifications can only be made if you supply an email address! Sorry if this is an inconvenience.

# Company Store

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