



# the JOURNAL

## NORTH AMERICAN SHORTWAVE ASSOCIATION

Volume XXXV Number 11

November 1995



COMITÉ INTERNATIONAL DE LA CROIX-ROUGE

### ICRC RADIO

(Schedule for 29 September 1995 until 30 March 1996)

Target area	Time (UTC)	Language	Frequencies (kHz)	Transmissions begin on following dates * :
AFRICA	0800-0805	EN	9885	29 09 95
			12070	16 02 96
			13635	24 11 95
				22 12 95
FAR EAST	1245-1250	EN	9885	29 09 95
			11640	19 01 96
			13635	16 02 96
				24 11 95
SOUTH ASIA	1645-1650	EN	9885	15 03 96
			12075	29 09 95
			13635	27 10 95
				16 02 96
NEAR EAST AND EAST AFRICA	1845-1850	EN	5850	15 03 96
			9885	29 09 95
			13635	27 10 95
				16 02 96
NORTH AFRICA AND NEAR EAST	1945-1950	FR	6135	24 11 95
			9885	06 10 95
			9905	03 11 95
				23 02 96
AFRICA	2200-2205	FR	9885	01 12 95
			9905	29 12 95
			11640	06 10 95
				26 01 96
NEAR EAST AND EAST AFRICA	1845-1850	GE	5850	03 11 95
			9885	10 11 95
			13635	08 12 95
				02 02 96
AFRICA	2200-2205	GE	9885	01 03 96
			9905	29 03 96
			11640	13 10 95
				05 01 96
SOUTH AMERICA	0000-0005	SP	6135	02 02 96
			9885	10 12 96
			11650 MSY	09 03 96
				16 12 95
CENTRAL AMERICA AND NORTH AMERICA (EAST)	0315-0320	SP	6135	21 10 95
			9885	13 01 96
			9905 MSY	10 02 96
				16 12 95
NORTH AMERICA (WEST)	0530-0535	SP	6135	09 03 96
			9885	21 10 95
			9905 MSY	18 11 95
				13 01 96

EN = English / FR = French / GE = German / SP = Spanish / MSY = Montsireny (relay in French Guiana)

\* All transmissions start on the above-mentioned dates and are repeated on the following two days, based on a four-week cycle.

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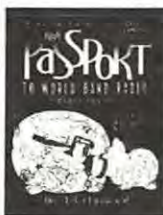
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# NASWA Notes

**Richard A. D'Angelo**

2216 Burkey Drive

Wyomissing, PA 19610

Genie.RDANGELO3

Internet: rdangelo3@genie.geis.com

**T**he Association of North America Radio Clubs ("ANARC") has announced the results of its Executive Board elections for two-year terms commencing on January 1st. **Harold Cones** and **Mark Meece** have been re-elected while **Uncle Skip Arey** has been elected for the first time. I am happy to report that all three are members of our club. They join **Dave Marshall**, **John McColman**, **John Vodenik**, and myself to make up the seven member board. The 1996 board is currently electing a Chairman from among its ranks. When that is complete I will pass along that information.

Through ANARC's quarterly publication *UPDATE*, we learn about the decision of **Michael Murray** not to seek another term as Secretary General of the EDXC. Michael has served in that capacity since 1979 following the resignation of Rudolf Heim. In the last few years the amount of time he has had available for council activities has dwindled. As many of you know, Michael

## ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave 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. Net Controls **Bob Brown KW3F**, **Hausie WB4JSP**, and **Tom Sundstrom W2XQ**, host an always lively gang of DX monitors. (Best heard in the eastern half of NAm)

has been a regular at the Winter SWL Festival in Kulpville in recent years. At the FEST we have come to know Michael as a friend. Although I am sure he will attend DX gatherings as before, it will not be as the Secretary General of the EDXC. Personally, I will miss him. He has been good for the hobby; good for EDXC; and good for ANARC. We wish him well in his future endeavors.

## Welcome to the following new NASWA members -

Sudhir Bagga, Redondo Beach, CA  
Michael N. Beu, Austin, TX  
Donald A. Boyer, York, PA  
Robert C. Campbell, Hillsboro, OR  
Giovanni D'Amico, Hindelbank, Switzerland  
Larry Davis, Arlington Hts., IL  
Tony Dibenedetto, Fairfax, VA  
Robert Dixon, Davis, CA  
Klaus Floer, White Plains, NY  
Mike Floyd, Mesa, AZ  
Thomas J. Golero, Flushing, NY  
Jim Harman, Clovis, CA  
Bob Hill, Natick, MA

Maryanne Kehoe, Atlanta, GA  
David Maciejewski, Toledo, OH  
SSGT Chris Passmore, Fairchild AFB, WA  
Joe Perge WB8HWF, Newark, OH  
Dr. Phanor L. Perot Jr., Charleston, SC  
Charles Perry, Newfoundland, NJ  
Wilder A. Pickard II, Evanston, IL  
Lloyd W. Rouse, Littleton, WV  
Simon Sarkissian, Rosemont, PA  
Trevor Stanley, Flagstaff, AZ  
Michael Swensek, South Elgin, IL  
Dr. Maurice J. Tepper, Chappaqua, NY  
David Zagurny, Batavia, OH

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

## Calendar Of Events

- Nov 17 Meeting.** Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 215-446-7831.
- Nov 17 Meeting.** Boston Area NASWA Chapter. The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 508-470-1971 or Internet: 74007.3434@compuserve.com
- Nov 18 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.
- Nov'95 Contest.** 1995 Annual DX Contest associated with Adventist World Radio's DX program, "AWR Wavescan." See October's NASWA Notes for details.
- Dec 03 Meeting.** The Tidewater SWL's meet at 6:30 PM. For more information plus meeting location contact Joe Buch at 804-721-2782.
- Mar '96 Contest.** 1996 North American DX Championships. Further information will be published in the Journal or you can send a self-addressed stamped envelop to 1996 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606. Information will be sent after the contest plans have been firmed up.
- Mar '96 Convention.** The 9th Annual Winter SWL Festival will be held at the Kulpsville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 22-24 March 1996. Organized by the "gang of three" this all wave gathering attracts over 200 hobbyists each year. Further information and the registration form will be printed in the Journal as we get closer to the event. We look forward to seeing many of our club members at the FEST once again.
- Apr '96 Convention.** The 30th EDXC Conference will be held in Florence, Italy on 27-30 April 1996. The Associazione Italiana Radioascolto ("AIR") is the organizing group. Detailed information is available from AIR, P.O. Box 30, I-50141 Firenze 30, Italy.
- May '96 Convention.** The 1996 ODXA Convention will be held at the Holiday Inn in Kingston, Ontario on 3-5 May 1996. More details to come.
- Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: r.dangelo3.genie.geis.com) or Ralph Brandi (Internet: ralph@mtunp.att.com).

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

A temporary/emergency bulletin was published by the Board of Directors due to Executive Editor/Publisher Bill Eddings suffering a serious heart attack in October. As a result, only the most interesting DX and QSL information was published in a 10-page bulletin. The Board planned to return to regular sized bulletins in December. Ed Shaw of Virginia volunteered to be the interim publisher for the next few months. Although limited in space allocation, QSL Report editor Gregg Calkin reports members receiving verifications from the Austrian Army Radio Station, Radio Nordsee International, Springbok Radio and Clandestines: Radio España Independiente and Radio Liberation. In the ANARC Report, Gerry Dexter notes that member Wendel Craighead was the new Executive Secretary of the association replacing Gray Scrimgeour (who became one of the three NASWA representatives). A photo page featured Australian member Robert Sheperd, Chris Lobdell, Don Jensen and Andy Rugg.

Incidentally, ANARC's quarterly publication, UPDATE, is available through the associations' publisher, **Bill Kurrasch** (5607 Lincoln Road, Ontario, NY 14519), for US\$7.00 in North America or US\$10.00 worldwide. Its a good way of keeping up with news of its member clubs, committees, and sister organizations. A sample can be had for just US\$1.00 or two International Reply Coupons.


Oops Department: Eagle-eyed **Tom Sundstrom** noticed the wrong dates listed in the Calendar of Events for the Winter SWL Festival. **Kris Field** provides the following, "The dates for the 9th Winter SWL Fest are March 14-16, 1996." Thanks Tom for the sharp eyes and to Kris for the correct dates. I hope many club members can attend the 1996 FEST.

**Don Jensen** checks in this month with another report from our Country List Committee. As we head into the DX season, you may want to make sure your records are up-to-date.

Also, don't forget to keep our Awards Chairman busy during the winter months.

From our good friend **Harry Weatherly** comes word that our friends at DX Australia (P. O. Box 285, Mt. Waverly, Victoria 3149, Australia) have incorporated. The official name is now DX'ers Calling Incorporated although the club will continue to be known as DX Australia. They publish an excellent monthly bulletin, DX'ers Calling, covering primarily shortwave and medium wave from a Pacific point of view.

Finally, a brief reminder that our Distributing Editor, **Fred Kohlbrenner** (2641 South Shields Street, Philadelphia, PA 19142) awaits your loggings each month. He will forward them to the appropriate log report editor. He can be reached at through the Internet at: [fkohl@ix.netcom.com](mailto:fkohl@ix.netcom.com).

That's it for this month. Enjoy this month's *JOURNAL*; it's another good one. 

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For the second year now, detailed information is available about transmitters used by shortwave radio stations around the world.

TDP SW-95 -- the "Transmitter Documentation Project" -- has just come off the press in its second edition. TDP is the result of more than 10 years of research by Belgian DXer Ludo Maes, with the cooperation of international organizations, publications, DX clubs and programmes, transmitter manufacturers and in some cases the radio stations themselves. For this second edition, a number of well-known DX-ers joined to contribute with updates and additional information.

TDP has grown to a 60-page booklet listing shortwave broadcast transmitters worldwide, arranged by country. Each listing indicates the name of the station, transmitter site and geographical coordinates. It also shows the number of transmitters at the site, their power, manufacturer, type number and year of installation. This year, a lot of detailed information about the installations of the Commonwealth of Independent States has been added thanks to a number of dedicated and specialised contributors.

This informative new publication also contains a list of shortwave transmitter manufacturers and their headquarters, plus statistical breakdowns of the number of shortwave transmitters in use around the world, grouped by power level, country and manufacturer. An article about the history of a transmitter manufacturer concludes the booklet.

TDP SW-95 is now available for only 5 GB £, 6 IRC's, 7 US \$, 10 AUS \$, 10 CAN \$, 10 DM, 35 FF, 200 BEF or 625 YEN ¥, including worldwide airmail delivery (no cheques or credit cards please). Send for your copy today, to:

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## As 1996 Approaches...

In 1995 I introduced the concept of Target Topics in each monthly column; are there other areas you'd like to see explored as a new year approaches? As always, the column stays freshest with your input. As always, you're welcome to use E-mail or snail mail routes; another option is telefax, which you're welcome to send to +1 410-560-2857. Please make sure my name is on the cover page so my office mates can get the fax to me.

## Voice Of Russia: New Programs?

My travel schedule this past week precluded a personal look at these, but it's newsworthy enough—several new programs have appeared on the Voice of Russia fall schedule:

**This Is Russia** is a cultural program, looking at culture, arts, and religion. Russian personalities are also profiled. Sundays 0030, Tue/Thu/Sats 0130, Mon/Wed/Fri/Sun 0630 are among the air times.

**Our Treasure Chest** looks at Russian history, from ancient to recent times, from princes to premiers. Airs daily 0430 and 2030.

**Moscow Yesterday and Today** recalls events in the life of Moscow, which will be 850 years old in 1997. Weekdays 0130 and 0630, alternating with **This Is Russia** as noted above.

**Timelines** is an insight into Moscow life through foreign eyes, in a light entertainment format, hosted by Estelle Winters. Mondays 0330, Saturdays 2330.

You're invited to send in some comments on these programs for upcoming columns.

## Target Topic: Inventions and Innovations

In picking this topic, I chose to distinguish this category from the category of science and research. Instead, I will be looking at programs that celebrate new applications of science, oftentimes mixed with a healthy dose of entrepreneurship and economic development.

The BBC's main contribution to the genre is **New Ideas**, a ??-minute weekly series. The program takes a look at new products, normally including some aspect of high technology.

Another other notable entry is **Innovation Canada**, also looking at new technologies and products from the Canadian perspective, in order to show that new product originations aren't limited to south of the 49th North latitude.

Peter Bowen sent in the following review on the third entry, this from Radio Australia. *Innovations* is a weekly twenty-six minute magazine program.

*Topics covered are wide-ranging, and are separated by short musical breaks to allow the listener to take brief mental rest periods, and also to provide some contrast and variety. In a program of this type, explanation of the new innovation, as well as a description of the scientific background, is essential. This is well achieved on Innovations, making the content clear and easy to understand.*

*Items broadcast include correspondents' reports and interviews conducted by the host/presenter. The former includes sound actuality of several different types (for example, voices of interviewees, music, and "scientific sounds"). Animation and life are characteristics of the contributions by both*

host and reporters; they also speak with confidence and competence. Those interviewed speak with excitement, energy, and competence, befitting those who have new ideas and discoveries to share.

Although *Innovations* is an excellent program, its focus totally on Australian innovations and discoveries is too narrow and confining. Given Radio Australia's role as probably East Asia's most important English language international broadcaster, as well as Australia's desire to be considered part of Asia, it would be more appropriate to include some items from other parts of Asia. On the other hand, shortwave programs on

new discoveries tend to primarily be a vehicle for increasing the export sales of those new ideas by firms in the broadcaster's home country.

In spite of this criticism, *Innovations* is an excellent middle-of-the-road science show. Its material is more advanced than that found on the very basic *Research File* on Radio Netherlands, but not quite as advanced as what is broadcast on *Discovery* on the BBC.

Here are other programs featuring innovations and technology, versus pure science, as shown in John Figliozzi's *Shortwave RadioGuide*.

Time	Days	Station	Title
0130	Wednesday	HCJB	El Mundo Futuro
0430	Sunday	Swiss R. Int'l	Technorama
1315	Tuesday	HCJB	Towards Tomorrow

Many thanks to Peter's contribution reviewing *Innovations*...where's your contribution?

## Radio Netherlands Highlights

Through November 16th, **Documentary** features an ongoing encore presentation of Dheera Sujan's presentation of *The Silver Screen, a Golden Past*. On November 23rd and 30th, Martha Hawley hosts a two-part series celebrating the 20th anniversary of Surinam's independence from the Netherlands in *The Surinam Experience*. December 7th starts the first of a two-part program called *Friendship With Germany*, looking at a new era of the Netherlands-Germany relationship. **Documentary** airs Thursdays to North America at 0053 and 0453.

Through the winter months, Radio Netherlands has a 26-part series of programs on Africa in the program **African Season**. November 13th features a look at France's role in French-speaking Africa. The November 27th program originates in Uganda, one of the countries hardest hit by AIDS, on the eve of International AIDS Day on December 1st. **African Season** airs Tuesdays to North America at 2330.

## BBC World Service Highlights

### Music and the Arts

The marquee program for the Beeb December is **Around The Beatles**, a two-part 30-minute program of Beatles anecdotes from everyday people who found themselves rubbing elbows with the group during the group's peak. Disappointingly, there are no airings on the Americas feed when shortwave frequencies are used. It appears the best bet will be Tuesdays, November 14th and 21st, 0630 on some European frequencies.

Thursdays, 1505: the **UK Album Chart** is a weekly 10-minute quick look at the top 10 UK albums. Tim Smith spins the week's highest entries and fastest climbers.

Mondays, 0030: **Good Books**, a weekly 15-minute look at literary classics, focuses on children's books in November. *Black Beauty*, *The Hobbit*, and *Pinnocchio* are among the books reviewed in November. Repeated Wednesdays 1445.

Sundays, beginning November 12th, 0130: **The Multitrack Sessions** is a new eight-part 15-minute series highlighting acoustic popular music of the genre you might find on MTV's "Unplugged" series. Repeated Tuesdays 1445.

Sundays, beginning November 12th, 0450: **Portrait of the Artist** is a new six-part 10-minute series looking at some of the most famous self-portraits in existence. One painter is profiled in each program. Also airs Sundays 1405.

Sundays, beginning November 5th, 0330: **Purcell's London** takes a look of England's greatest classical music composer in the context of London musical life during Purcell's life. If you're curious, the 300th anniversary of Purcell's death is November 21st. This five part 30-minute series also airs Thursdays 1215.

Sunday, November 21st, 2105: the **Purcell Anniversary Concert** features the Choir of Westminster Abbey and the New London Consort with some of Purcell's best known music, including *Suite From Abdelazer*. The European release airs at 1901.

Saturdays, 2230: **November Play of the Week** highlights include the winners of the 1995 BBC World Service Drama Competition.

The overall winner, **Puzzles**, written by Katy Parisi of Virginia, airs November 4th. The play is set in the Ohio snowbelt and looks at a youngster's relationship with his grandfather and the grandfather's insight into adult life.

The European winner, **Last Supper**, airs November 11th. It's a largely autobiographical story of a young Jewish family's flight from Germany on the eve of World War II.

The South Asian winner, **My Enemy, My Friend**, airs November 18th. is a look at the 1993 Hindu-Muslim riots in India through the eyes of one family's struggle for survival through a night of rioting.

#### News and Feature Programs

Thursdays, 0230: **Assignment** returns following a hiatus with a new series of weekly 30-minute programs. The program analyzes a single issue in each week's program. The

European release Thursdays at 1830 should also be easy to catch, at least in Eastern North America.

Tuesdays-Saturdays, 0130: **Outlook**, one of the most popular BBC World Service programs, with a mix of interviews and analyses, can be reached by its own unique E-mail address: [outlook@bbc.co.uk](mailto:outlook@bbc.co.uk). Also airs weekdays at 1405 to North America.

Tuesdays, 1505: **Trees** is an ongoing 10-minute series reflecting on the cultural and economic influence of wood and woodlands. Treehouses, reforestation, and the paper industry are among the November topics.

Thursdays, beginning November 9th, 2330: **Heritage** returns for a new six-part 30-minute series looking at archaeological sites, museums, and historic buildings in Europe, Asia, and the Middle East as links to the roots of culture. Malcolm Billings hosts. Repeated Fridays 0330.

Monday, November 13th, 1515: **The Fallen** is a single 45-minute program commemorating the ordinary soldiers of World War I. Drawing on eyewitness archives, letters, poems, and songs of the time, the program looks at how servicemen lived and how they died. This will be an interesting program after a year's worth of commemorations from World War II.

Thursdays, beginning November 16th, 0345: **Animals of Power** is a five-part 15-minute look at the role animals have played in the human quest of seeking meaning in life. Animals have been viewed as contributors of 'success in hunting, battle, health, fortune, weather, and fertility. Also airs Wednesdays 1515.

Mondays, beginning November 20th, 1505: **Hallowed Ground** looks at poetry that reflects particular places or settings. For example, the November 27th edition looks at the poetry associated with places of annihilation, including Buchenwald and Hiroshima.

Tuesdays, beginning November 28th: **What's News** returns for a 14-part series of 15-minute programs on news and current affairs for a young audience, again hosted by Sarah Ward. Listener input on story suggestions or interview questions is again solicited. While there isn't a specific E-mail address provided, the usual BBC World Service address of [worldservice.letters@bbc.co.uk](mailto:worldservice.letters@bbc.co.uk) should get your question forwarded to the right folks.

### Science and Technology

Fridays, beginning November 3rd, 2315: Even though I highlighted the new computer and digital communications program **Soundbyte**, the BBC has apparently changed the air times. Other airings include Wednesdays 1145 and Fridays 1430.

Monday, November 26th, 1515: **Them And Us** is a single 45-minute program looking at language and thought in the animal kingdom, challenging the 300 year-old notions of animals as mere flesh-and-blood machines.

Mondays, beginning November 6th, 1215: **You And Your Bones** is a new six-part 30-minute series exploring the structure and function of our skeletal system. This program is especially suited to those who have just started listening to the BBC in English, as an example of what can be learned from the BBC World Service. Also airs Mondays 0630.

Monday, November 20th, 1515: **Lighten Our Darkness** is a look at ancient and modern perspectives of the sun, whether it's in worship, economics, or farming. The insight of writers, poets, religious thinkers, and scientists is considered.

### Light Entertainment

Mondays, beginning November 13th, 1130: **Quote...Unquote** returns for another 12-part 30-minute series of quiz programs on slogans, sayings, and catchphrases. Favorite family put-downs, and examples of "hoof-in-mouth disease" are also fodder for discussion.

### Upcoming Target Topics

As always, your input is solicited for my monthly look at a particular program type. So you can plan ahead, here are some of the Target Topics for upcoming months:

December: Domestic Life programs  
January: Light Entertainment and Mailbag programs  
February: Religion

### That's All, Folks

Until next month,

73 DE Richard



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## HARDWARE BITS by Alan Johnson

**GROVE TUN-5 MINITUNER**—Grove Enterprises has recently introduced their new TUN-5 Minituner. It is a compact tunable active antenna when used with the attachable whip antenna or can be used as an amplified preselector when an outdoor antenna is connected. It uses a dual-gate FET amplifier and covers 250 kHz to 30 MHz in five switch-selected bands. An AC adapter is included or the unit can be powered by a nine volt battery. The price is \$99.95. The TUN-5 can be obtained from Grove Enterprises, P.O. Box 98, Brasstown, NC 28902-0098; (800)-438-8155.

**NEW BRITISH RECEIVER?**—NASWA Rich Dailey of Pittsburgh, PA wrote to tell me that John Wilson and John Thorpe, previously of Lowe Electronics, have established a new SW receiver manufacturing firm and will shortly introduce their "Type N" receiver. Let's hope this is true—details as available.

(At press time comes news that the company is a British arm of AOR, who introduced their AOR-3030 last year. Details of the new radio, the AOR-7030, are available on British dealer Javiation's site on the World Wide Web, <http://www.demon.co.uk/javiation/>. —Layout Drone)

**OTHER NEW RECEIVERS**—Remember that the new Radio Shack tabletop receiver, the DX-394, should be coming out this month and I have seen some messages on GENIE that Drake will soon be putting out a \$300 tabletop receiver.

## The Ultimate Challenge: DXing Medium Wave Harmonics

By Don Moore

If you've been reading NASWA very long, you've noticed by now that shortwave broadcasters aren't the only broadcast stations using the shortwave bands. On occasion loggings of mediumwave (AM) "harmonics" creep in. But, although some mediumwave stations broadcast on shortwave at times, usually when they do they don't even know it! And that's just part of what makes DXing mediumwave harmonics such a challenge.

### What Are Harmonics?

All radio transmitters naturally put out harmonics, which are multiples of the fundamental frequency. For example, a station on 1400 kHz will transmit harmonics on 2800, 4200, 5600, etc. Twice the fundamental frequency, e.g. 2800 khz, is called the second harmonic; three times it, e.g. 4200 khz, is called the third harmonic, etc. The first harmonic, or one times the fundamental frequency, is the fundamental itself. Harmonics should not be confused with images, which are generated internally in a receiver, and are usually received plus or minus 910 kHz or 1000 kHz of a frequency, depending on the receiver, or receiver mixing products that cause exceptionally strong stations to appear where they don't belong. Harmonics are produced at the transmitter, not the receiver.

Harmonics may seem like a free way for a small AM station to become an international broadcaster, but AM stations don't want to intentionally transmit harmonics, as any power that goes into a harmonic frequency is not being used for their fundamental frequency, which means a less powerful signal for their main audience. In

addition, harmonic transmissions are prohibited by law as these unintentional broadcasts on higher frequencies may interfere with other stations which are licensed to use those frequencies. To prevent these problems, station engineers suppress harmonics below a maximum level allowed by the FCC or their nation's equivalent agency, although enforcement may vary (especially in Third World countries). But, not all stations have competent technical help watching over the equipment, or even if they do, mistakes can happen. Sometimes something gets maladjusted or whatever and suddenly there is maybe fifty or a hundred watts going into a harmonic instead of half a watt or a watt. Usually the problem is so small that it won't be noticed until the engineer does a regular check-up on the transmitter, or someone hears the harmonic and tells the station about it. In the meantime, it's happy harmonic hunting for DXers!

### A Receiver Problem?

The question as to whether or not harmonic receptions are a technical problem in the receiver is logical considering how many receivers have image and overloading problems. But remember, to have an image or overloading problem putting the station where it doesn't belong, the signal first has to be coming in very strong on the frequency where it belongs. That is, your receiver can't screw up and put a signal someplace other than where it belongs if the receiver isn't receiving the signal in the first place!

As to whether receiving a harmonic is a receiver problem, there is a very easy way to check for that. If you have a harmonic of a 1400 kHz

station on 2800 kHz, just tune down to 1400 kHz and see if you hear the same signal. If you don't, there's no way the harmonic is being generated by your receiver—it must be coming from the transmitter. Usually that's the case as the harmonic is likely coming from several hundred miles away and there are probably other AM stations on the fundamental that are closer to you, and those are the ones you're going to hear on the fundamental frequency. Even if you do hear the same station on 1400 kHz, that still doesn't mean the harmonic is a receiver problem. If on 2800 you hear the station with a fair and interference-free signal, but on 1400 it is weak and mixing with three other stations, you again have a transmitter-generated harmonic. Receivers can't take a weak signal and produce a stronger image out of it, nor can they filter out co-channel interference in the process (although sometimes we might wish they could!).

Receiver-generated harmonics are always a possibility, however, and you should cross check possible fundamental frequencies for the same programming before spending any time trying to ID a harmonic. In reality though, only very-strong local AM stations are going to cause receiver-generated harmonics, unless you have a cheap single-conversion receiver. Even then, if you hear the second harmonic of a 5 kW or less AM station a couple of hundred miles away you can be sure it is not the fault of your receiver. The signal from such a station just won't be powerful enough to overload any receiver.

## Why Dx Harmonics?

First of all, it is possible to hear many stations that you simply can't hear otherwise. That's true of almost all the 130+ plus AM harmonics I've heard over the past 20 years. After all, what's your chance of hearing a 1 kW Guatemalan AM station in the central US? Secondly, DXing MW harmonics is one of the most challenging types of DXing and can be a lot more exciting than hearing a station on its fundamental. Most harmonics are second harmonics and fall at the bottom of the SW spectrum—the 2 MHz area, which is the most difficult part of the SW bands to hear any kind of distant stations on. Increasing the challenge, harmonic signals are extremely weak. As the signals are unintentional, powers are on the order of a hundred watts or less—real DX.

Another challenge is that because the signals are weak, it is hard to understand enough to narrow down who the station is, and there are so many more choices. For example, if you have a US harmonic on 2800 kHz, just take a look at how many stations are on that frequency. Was that static-covered identification WBDA or WEBH or ...? Or, maybe a harmonic has lots of news of Colombia, but there are six Colombians on the probable fundamental. Finally, the signals are very intermittent. You can tune through the 2000–3200 range every evening and morning for a month and not here a peep of a harmonic. Then in a week's time, there might be three or four. Some last a day or two, few more than a couple of weeks. Whether or not something is there is a combination of chance and good propagation.

## Equipment Needed

DXing harmonics requires just three things. The first is a sensitive receiver as the weak signals don't propagate well over long distances. The more sensitive the receiver, the more audio will be recovered from the weak noise-covered signals. Of course your receiver also must cover the 2MHz band; many of the smaller shortwave portables do not.

The next important piece of equipment is a good antenna. The best 2MHz antenna is the probably a lengthy beverage or mini-beverage antenna, but there is good news for DXers who don't have that much real estate—the second best antenna will even fit inside an apartment. Loop antennas, which are commonly used on medium wave (AM), will also work very well on 2MHz. Building loop antennas is beyond the scope of this article, but the National Radio Club's two antenna reference manuals have lots of plans and information. Send \$1 to National Radio Club Publications Center, PO Box 164, Mannsville, NY 13661 for an NRC catalog. To make a box or other wire loop work usable on 2 MHz, it may be necessary to use a little less wire than is needed for MW. Build the loop according to their plans, try it out, then gradually shorten it, if necessary. Alternately, Kiwa is reportedly soon to come out with a commercially-built shortwave loop for the tropical frequencies. If it's anything like their medium wave loop, it should be a great harmonic-snatcher!

The budget conscious DXer with some backyard space might try a Dipole, Inverted V, or a Delta Loop cut to 2.5MHz. However, at 120 meters, even these common antennas take up space! Some DXers have reported good 2 MHz reception by winding 120 meters of wire around a 10 foot section of pvc pipe. Finally, if none of these specialized antennas is suitable, there's the good old random wire with an antenna tuner. I now use a Drake R-8 and two 400 foot minibeverages (which, in length, are roughly resonant at one wavelength on 2 MHz). But years ago I had success DXing harmonics with a Barlow-Wadley XCR-30 portable with a 3 foot whip antenna and after that with a FRG-7 and a 30 foot wire on the roof. Many of the harmonics I hear today with the R-5000 and minibeverages are also audible, if not as strong, on my Sony ICF-2010 with the whip antenna.

The third necessity for DXing harmonics can't be bought from any radio supplies vendor. It's called patience. Because signals here are weak and very susceptible to the vagaries of propagation, it's common to go one or two weeks without hearing a thing. The DXer has to consistently tune through the 2-3.2 MHz band at least two or three times during each nighttime or morning DX session. Weeks may pass without a thing being heard and when something is heard, it may be too weak to identify. Many DXers soon give up and say it's impossible to hear anything down there. But through the patience of daily or near daily checks, some great catches can be made. The best way to look for harmonics is to tune from the bottom of the band to the top in USB mode, stopping and checking out any suspicious carriers, especially those on frequencies ending in zero.

Actually, two more things are needed to DX harmonics. You need to have a good list of AM stations, such as the WRTH for foreign medium wave and the National Radio Club's "Domestic Log" for domestic stations. And, unless you have a good head for mathematics, a calculator will be very useful. When you hear a probable harmonic, you need to be able to divide the frequency you're hearing and find possible fundamental frequencies to look up in the AM station guide to help identify it. For example, 2920 divided by 2 is 1460, by 3 is 973, and by 4 is 730. Therefore you are probably hearing a

second or fourth harmonic. A third is only possible if the station's fundamental frequency has drifted off center.

## What Can Be Heard

Mediumwave harmonics can be divided into two categories, domestic stations (US & Canadian) and international harmonics. Let's look at the easier, domestic, ones first. Domestic harmonics are easy to spot because they sound just like everyday AM stations, which is exactly what they are. The first harmonics you hear will probably be your local AM stations, although be careful—if the signal is loud and clear, it is probably a product of overloading in your receiver. But, even if your local stations' harmonics have been properly suppressed within the legal limits, it still may be possible to receive the second and maybe third harmonic a few miles away with a good antenna and a sensitive receiver.

Of course hearing harmonics from your local stations isn't much of a challenge. The challenge is to pick up harmonics from stations several hundred miles away. Because harmonic DXing is essentially DXing someone's mistake before he catches it, it's truly a matter of "here today, gone tomorrow". A harmonic strongly received today may not be there at all the next week, or even the next day. Usually, however, domestic harmonics will be around for a few days before the problem is caught and fixed. If you hear a harmonic and can't identify it, check the next day about the same time. A good time to go hunting for domestic harmonics is around your local sunset and sunrise (especially sunrise), when "grayline" near-darkness conditions exist. Because the grayline runs roughly north-to-south, harmonics from a southerly direction are much more common than those from the east or west.

Most harmonics you hear will be second harmonics; third and higher are very uncommon. Some harmonics actually fall inside the AM band, such as those of stations on 800 kHz and lower (e.g.  $2 \times 800 = 1600$  kHz). These will probably be covered-up by stronger signals from stations legally on the frequency, unless you live very close to the offending transmitter. While some harmonics can be heard in the "no-man's

land" of 1605–2000 khz, between where AM ends and SW begins, and in the lower part of the 2 MHz band, the best frequencies for domestic harmonics seem to be between 2460–3200 kHz. These frequencies are the second harmonics of 1230–1600 kHz, which is where most of the smallest AM stations are—the ones more likely not to be technically up to standards.

## International Harmonics

Domestic harmonics are tough, but international ones are even tougher. But, eventually you'll come across a Spanish station on a frequency where there isn't supposed to be one. Engineering requirements are less enforced in Latin America than in the US and Canada, and low-powered harmonics are common among the less well-run rural AM stations. Rarely, though, are these harmonics strong enough to be heard more than a few hundred miles away. But, under really good reception conditions, some of these may be heard in North America for a night or two. On occasion, a station will put off transmitter maintenance long enough, that the harmonic will become strong enough to be heard in North America on a semi-regular basis, albeit weakly. For example, Radiotelevision Dominicana put out a harmonic on 2540v (2x1270) for over two years and in January, 1993, Ecuador's Radio Runacunapac Yachana put out a harmonic on 2968 (2x1484) strong enough to rival signals in the sixty meter band.

Because they are so weak, long-distance Latin harmonics are best received when static levels are lowest—in the winter and as late at night as possible. The best reception is usually in the early morning before dawn, right after the stations have just signed on for the day. As with domestic harmonics, just divide the frequency you are hearing by 2, 3, and 4 (and maybe 5, 6, and 7), and check the WRTN lists for any "even" channels (frequencies ending in zero) that you get. Occasionally a Latin American harmonic will be heard on a non-even channel, such as Colombian Una Voz en la Frontera, heard on 3041, or the second harmonic of the off-frequency fundamental of 1560.5 kHz.

Latin American harmonics come from the south, so what about harmonics from the east and west. From either direction harmonics have a huge ocean to cross, which is difficult for such weak

signals. I know of only two cases of trans-oceanic reception of mediumwave harmonics. For several weeks in 1979, Radio Tirana, Albania put out a second harmonic of its 1458 kHz broadcast on 2912 kHz, which was heard by several DXers in Eastern North America. The second case was in July, 1989 when DXers John Bryant and Dave Clarke, DXing on vacation in the Juan Fernandez islands off the Washington coast, picked up an unidentified Indonesian on 3144 kHz. John later played the tape to some of his Indonesian students and with their help was able to identify it as the second harmonic of Radio Veronica Sonata on Sulawesi Island. This must surely be the best harmonic reception of all time—and John even later received a verification for it!

## QSLing Harmonics

In the case of domestic harmonics, if you want a QSL, it probably isn't worth the effort to report your harmonic reception to the station. Verifications are all but unheard of because it's highly unusual for a chief engineer or station manager to be willing to admit on paper that his station violated FCC regulations and the harmonic was heard several hundred miles away! Besides the high probability of not getting a reply, another drawback of sending a reception report on a harmonic is the possibility that the harmonic may disappear before other interested DXers get a chance to hear it. The best remedy for this is to report the reception to a rapid DX news source, such as the DX Party Line, before sending your report, so that other DXers will have at least a few days to look for it before the report arrives. There is, however, a way to verify a harmonic reception in a round-about fashion. Send a report to the station, but neglect to even mention the frequency heard in the report. The station then naturally assumes that you heard the fundamental and sometimes sends a QSL. It's a bit devious, and I don't know if it really counts as a QSL. But, if you really want a reply from a domestic harmonic reception, it works.

But, regardless of whether one is interested in a QSL or not, should we inform the station of the problem? Some DXers feel we should do a good deed and call or write them about it. Others point out that it is the station's job to adequately maintain their equipment, so let the harmonic on the air so that other DXers can hear it.

One common argument for telling stations that they are producing harmonics is that the harmonics may be interfering with vital communications. In reality, that's rarely true. Tune through the area between 1600-3200 kHz a few times and see what you hear. There's not much there. A few frequencies are used for maritime communications, but the US Coast Guard & similar agencies elsewhere monitor those frequencies constantly, so no AM station is going to get away with a harmonic on a vital frequency very long. If you are familiar with medium wave DXing, think of how quickly that Turks & Caicos AM station on 530 got moved when it began interfering with aeronautical beacons a few months back. Or, for another example, when WRMI first began testing in April, their transmitter was putting out a twelfth harmonic which was interfering with the VHF airband and were told about it in just a few days. In short, the organizations that are using those vital frequencies keep a close eye on them. Usually, harmonics are very low-powered by-products, and anything legitimately on a frequency is bound to be much more powerful and would blow the harmonic signal away. The only reason harmonics can be heard at distances is because they have clear channels with no other station using the frequency.

Getting back to QSLing, Latin American station engineers and managers, on the other hand, don't seem to be as reluctant to admit their mistake in the form of a QSL. I have received several QSLs for Latin American harmonics, and have seen several more in DX bulletins over the years. QSLing Latin harmonics doesn't seem to be any more difficult than QSLing Latin American stations in general. Curiously, few of the Latin American harmonics that I have reported to, whether or not an answer was forthcoming, fixed the harmonic very quickly after the probably arrival of my report. In fact, three were still heard over a year later!

## Stations Heard

In over 20 years of off-and-on harmonic DXing, I've heard around 130 medium-wave harmonics about equally divided between US and for-

eign stations in more than 20 different states and over 15 countries (all from Latin America except for Albania). Most were second harmonics, with a couple of third and one fourth thrown in. The exception to that are the Cuban stations, especially those on 590, 600, and 720 kHz, which have been heard on harmonics as high as the twelfth. Harmonics are, of course, unpredictable. A harmonic heard last year, or even last week, is probably not going to be there today. But, to give you an idea of what can be heard via harmonics, here's a list of some that have been reported over the last year or so. Just don't expect to hear these same stations—they've probably fixed the transmitters by now! The fundamental frequency is given in ( ).

- 1720 Radio Clarin, Dominican Rep (860)
- 1760 Radio Progreso, Cuba (880)
- 2020 Radio Lobo, Chihuahua, Mexico (1010)
- 2040 Caribbean Christian Radio, Turks & Caicos (1020)
- 2060 Radio Francisco Orellana, Ecuador (1030)
- 2100 LV Cuchumatanes, Guatemala (1050)
- 2120 La Voz de Centroamerica, Honduras (1060)
- 2200 LV de las Islas, San Andres Island (1050)
- 2300 WCEN, Mount Pleasant, MI (1150)
- 2560 Radio Alajuela, Costa Rica (1280)
- 2580 Radio Enciclopedia, Cuba (1290)
- 2640 XERJ, Mazatlan, Mexico (1320)
- 2720 WBLC, Lenoir City, TN (1360)
- 2840 WJOB, Plymouth, WI (1420)
- 2800 XELH, Acaponeta, Mexico (1400)
- 3000 R Color, Dominican Republic (1500)
- 3060 Emisora Claridad, Colombia (1530)
- 3100 Radio Fantasia, Colombia (1550)
- 3120 WAGC, Centre, AL (1560)
- 3510 Radio Central, Ecuador (1170)
- 3600 Radio Rebelde, Cuba (600)
- 4530 WLAC, Nashville, TN (1510)
- 4800 Radio Rebelde, Cuba (600)

AM harmonic DXing is an interesting, if obscure, branch of the listening hobby, but I hope this little article helps convince a few others out there to try it. If so, be sure to report your results here so the rest of us can go after the stations, too!



## The JPS Communications ANC-4 Antenna Noise Canceller

After reading the glowing reports of others, I was finally able to get my hands on an ANC-4 of my own to review thanks to Tom Jacks of JPS Communications. I've had the chance to use the ANC-4 for several weeks, both with my usual 200' inverted "L" antenna, as well as with a Dressler ARA-40 active antenna.

The ANC-4 is designed to provide cancellation of locally generated radio frequency noise that is picked up by the primary station antenna, before it enters the radio itself. Examples of the types of noise that the ANC-4 is effective against include power-line noise, computer noise, TV/VCR noise, etc. This is accomplished by phase shifting by 180 degrees the noise signal picked up by a short auxiliary antenna. The shifted noise signal is then combined with the noise received by the main antenna, resulting in the electrical cancellation of the noise with minimal alteration of the desired signal. The advantage of this approach to noise reduction (as opposed to such devices as DSP audio filters) is that it occurs before the noise can enter the radio and affect the receiver's automatic gain control (AGC), causing a decrease in the sensitivity of the receiver.

### The Unit

The ANC-4 is housed in a black, heavy metal cabinet measuring 1.7x6x4.3 inches (HxWxD) and weighs two pounds. It requires an external power source (not supplied) of 11 to 16 volts DC and the current drain is rated at 150 milliamps. The ANC-4 inserts in the antenna line between the primary station antenna and the receiver using SO-239 coaxial connectors. The noise antenna can

either be a short piece of wire that connects to an RCA jack on the back of the unit or a supplied 32 inch collapsible whip antenna that screws into the circuit board through a hole in the top of the case. Front panel controls consist of pushbuttons for power, phase range and frequency range and rotary knobs for noise phase and gain adjustments. The frequency range specified for the ANC-4 is from 500 kHz to 80 MHz, but the manual states that it is usable down to 100 kHz. Insertion loss is specified at 6 dB and noise cancellation is specified at 40 dB or greater. The ANC-4 can be used with a transceiver with power levels up to 150 watts, since it has a RF detector and relay to bypass the unit when transmitting. The quality of construction is excellent, just as with all of the JPS products I have used. The instruction manual is outstanding, covering all aspects of operation and optimization in clear detail. The suggested retail price is \$175 with street prices slightly lower.

### Operation

Once all the connections to the ANC-4 have been made, basic operation is straight forward. I won't repeat the detailed instructions given in the manual, but, in a nutshell, operation consists of adjusting the front panel controls until the noise is nulled. The depth of the null obtained depends on various factors, such as noise strength, character, frequency and antenna orientation. Sometimes the noise can be completely eliminated and at other times it can only be attenuated, although usually significantly. I found adjustment to be easiest when the receiver was tuned to a frequency on which only the noise signal was present and using the receiver's "S" meter as a guide for setting

the ANC-4's controls for maximum noise null. This process usually resulted in a definite nulling without ambiguity. The adjustment tends to hold for several hundred kilohertz, although I did find that I would occasionally need to re-adjust the ANC-4 within a given meter band. I found it very difficult to try to adjust the unit for minimum noise when the receiver was tuned to a station, but this might become easier with practice.

I did find that there could be major differences in the amount of noise reduction obtained on the different antennas, depending on the frequency. I'm certain that this was due to differences in antenna polarization relative to the orientation of the noise antenna as well as differences in the amount of noise picked up by the antennas. This aspect of operation is clearly outlined in the instruction manual and procedures for determining whether the noise antenna is picking up enough noise signal are described.

The ANC-4 has some secondary uses besides noise cancellation. It can be used as an active antenna when the main antenna is disconnected. It works fairly well for this application, although at my location I had some problems with images from local broadcasters appearing in the low HF region, indicating possible overloading of the RF amplifier. The ANC-4 can also be used to combine two full-size antennas to allow for space diversity reception.

## The Bottom Line

The ANC-4 can produce almost miraculous results, most of the time. There were several cases where I was unable to copy a signal due to noise. When I switched in the ANC-4, the station became listenable. In other instances, I was able to reduce, but not eliminate, the interfering noise. Every listening environment is unique in the type and number of noise sources that are present. The ANC-4 will give the best results when there is a single source of noise that predominates at the listener's location. The best cure for noise interference is to locate the source and eliminate it, or at least filter it. In cases where that is impossible or impractical, the ANC-4 is an alternative well worth considering. I would advise the prospective ANC-4 owner that it is not a "set and forget" device. In order to obtain maximum noise reduction, the user should be prepared to spend some time learning to use the controls and experimenting to find the optimum length, type and orientation of the noise pick-up antenna. However, these efforts will potentially be rewarded with blissful RF silence. I would also advise those contemplating the purchase of an ANC-4 to be sure that the dealer will allow the return of the unit for a refund if it proves unsatisfactory for the listener's particular noise situation. For more information, JPS Communications can be reached at P.O. Box 97757, Raleigh, NC 27624-7757; telephone (919) 790-1048/FAX (919) 790-1456.

## The Dressler ara-40 Active Antenna

The ara-40 is the latest addition to the prestigious line of active antennas from the German firm of Dressler. Its design has been optimized for use with portable receivers, which tend to have more amplification since they are designed to be used with their short, built-in whip antennas. Using a full-sized outdoor passive antenna or a high-gain active antenna can result in overloading of the receiver with distortion of the signal and spurious responses. The ara-40 is designed to provide a lower gain figure (approximately 3 dB vs. the 10 dB gain of its big brother, the ara-60) to prevent receiver overload.

The advantages of using an external antenna with a portable receiver are that it can provide higher signal levels for a better signal to noise ratio (as long as signal levels are not so great to cause overloading) and that the antenna can be located outside the residence, overcoming the effects of shielding of radio signals by the walls and decreasing the interference effects of such things as computers, VCR's, etc. that may be located near the radio. Because of these factors, it usually is wise to put up some type of external antenna when a portable radio is used as the main receiver in a home situation.

## What Is An Active Antenna?

Since most radio hobbyists don't have yards which are large enough for a couple of rhombic or Beverage antennas and apartment dwellers may be lucky to have a balcony, active antennas are a very attractive option, since they are compact and visually unobtrusive. Basically, an active antenna consists of a short antenna element connected to an amplifier to boost the available signal level. This amplifier stage is usually a broadband device, allowing the antenna to receive a wide frequency range, unlike most wire antennas which have peaks and troughs in their frequency response. There is usually an impedance transformation stage as well to match the high impedance of the short antenna to the common 50 - 75 ohm input impedance of modern receivers. The "active" portion of the name derives from the presence of the amplifier stage - this stage requires a power source, unlike a simple piece of wire. The amplifier stage has been the reason that active antennas have acquired somewhat of a poor reputation in the past. The amplifier must have a wide dynamic range, i.e. it must be able to amplify weak signals while not being swamped by strong ones. Poor dynamic range manifests itself as spurious responses, i.e. strong signals appearing on the wrong frequencies or being mixed in with weak signals. Active antennas with good dynamic range can be built, but they require careful design and component selection. The Dressler ara-40 is such an antenna.

The ara-40 consists of two modules: the antenna unit and the interface box. The antenna base is a 5 1/2 inch long aluminum cylinder that is 1 1/2 inches in diameter. The antenna element is an approximately 36 inch long fiberglass rod protruding from one end of the cylinder. The fiberglass is green in color, which may not have been the best choice to keep the antenna from being noticed. Running from the other end of the base cylinder is approximately 30 feet of coaxial cable, ending in a BNC connector. The instructions state that this lead-in can be extended up to 90 feet if necessary. The base unit is anodized aluminum and is well weather-proofed. There are two bolts protruding from the base cylinder which are

used to attach the base to a mounting clamp to fasten the antenna to a pipe or mast. The end of the antenna lead-in attaches to the interface box. A supplied BNC to PL-259 cable is used to attach the interface box to the station receiver. A source of 12 volt DC power (not supplied) is also plugged into the interface box via a "barrel" type power connector. The interface box contains a screw-driver adjustable potentiometer to provide up to 20 dB of attenuation of the antenna's signal. The interface box also contains circuitry to power the antenna via its lead-in cable and isolate the receiver from the DC voltage. The specified frequency range of the ara-40 is 40 kHz to 40 MHz, with reduced gain from 40 to 108 MHz. The price is \$199.95.

## Operation

One nice feature of active antennas is that they are easy to install and, unlike passive wire antennas, they don't have to be placed at high elevations. In fact, mounting an active antenna too high can result in it receiving too much signal, thereby degrading its dynamic range performance. The important part of placement of an active antenna is to get it as far away as possible from sources of interference. Dressler recommends placement just above the roof or even three feet above the ground outside the house. The instruction sheet states that a ground connection will not improve reception with the antenna. The ara-40 is designed to be mounted in a vertical position to allow for omnidirectional signal pick-up. I mounted the review unit about 15 feet away from the side of the house and about five feet above the ground.

## Comparisons

I first compared the ara-40 to my 200' random wire antenna with both connected to a Drake R8 through an antenna switch box. Overall, signal levels were about 10-15 dB lower with the ara-40, although there were very few signals that could be copied only with the wire antenna. The antenna gain was consistent across the HF spectrum and I noticed no spurious responses from local MW stations that weren't also present on the wire (maybe

I should check my gutter joints!). The background noise level seemed slightly higher with the ara-40, but this is probably due to the fact that it is closer to the house than the wire is. I noticed little effect from adjusting the attenuator control, certainly not 20 dB of signal reduction.

I will be the first to admit that the above is not a fair comparison, since the ara-40 is not designed to be used with table-top communications receivers, which are made to be used with full-sized passive wire antennas. The true test was with a Sony ICF-SW7600G, comparing the ara-40 against the radio's built-in whip. It was essentially no contest, with the ara-40 the hands-down winner. This was in part due to the test location in the basement, but this points out a potential application for the ara-40, i.e.

getting a radio signal into a listening location where there is shielding, such as that encountered in steel-reinforced concrete construction. I encountered no problems with over-loading, although I sometimes found it useful to switch on the radio's attenuator to reduce the background noise level.

The Dressler ara-40 is worthy of consideration for those hobbyists who are using a portable for their primary home station receiver, especially if they are faced with insufficient signal strength or interference sources inside the home. The ara-40 is easy to install, unobtrusive and works well. The antenna is available from Gilfer Shortwave, 52 Park Avenue, Park Ridge, NJ 07656; 1-800-GILFER-1. Thanks to Gilfer Shortwave for providing the review unit.

## The Sony ICF-SW7600G Portable Receiver

The Sony '7600 series of portable shortwave radios has to be the longest running model line that is still in current production. The line began with the ICF-7600 in 1977. This was a single-conversion, analog tuning unit which covered five international broadcasting band segments. The line went digital in 1983 with the ICF-7600D (labeled in the United States as the ICF-2002), which put the ground-breaking design of the ICF-2001 in a miniature package. The line has undergone facelifts and refinements, which has culminated in the ICF-SW7600G, whose most prominent feature is a synchronous detector with selectable sideband.

### A Truly Portable Radio

The '7600G is just slightly larger than a paperback book (actual dimensions 7 5/8 x 4 3/4 x 1 5/16 inches WxHxD) and weighs one pound and six ounces including four AA batteries. This makes for an ideal travel radio. Battery life is specified at 20 hours in AM mode when using alkaline batteries with a daily listening time of four hours. The radio covers 150 - 29,999 kHz continuously with AM/USB/LSB/CW reception. The radio also provides for FM reception with a frequency

coverage of 76.0 to 108.0 MHz, with FM stereo reception possible if headphones are used. Tuning steps on shortwave are either 5 or 1 kHz, on MW 10/1 kHz or 9/1 kHz, on LW 9/1 kHz and on FM 50 kHz. The MW steps are changed by a switch inside the battery compartment. There is a fine-tuning thumbwheel on the right side of the case for resolving SSB/CW signals. The current street price for the '7600G is around \$200, with one mail-order source offering the unit for \$180. Sony has become somewhat stingy with supplied accessories - all that is supplied with the '7600G is a soft carrying case and reel-type external antenna. There are no earphones or AC adapter. The Sony AC-E60M AC power adapter is approximately \$20 additional.

### Revamped Controls

The most noticeable difference between the '7600G and its predecessor, the ICF-SW7600, are the four manual tuning buttons in the lower right-hand corner of the radio. The inner buttons tune in the smallest steps for the selected frequency band (one kHz on shortwave) and the outer buttons tune in the coarse frequency steps (five kHz on SW).

The keys are very conveniently positioned for tuning with the right thumb while holding the radio. When other front panel buttons are held down, the tuning keys are also used to set the clock, set the two standby timers or jump to a desired meter band. When in tuning mode, holding one of the inner buttons down will continuously tune the radio, while depressing one of the outer buttons for longer than two seconds will put the radio into scanning mode within the selected meter band. While scanning, the '7600G will stop at a signal for two seconds and then resume scanning, unless the "scan stop" button is pushed. The scan function works well, stopping on the carrier frequency of most signals. I did find it somewhat disconcerting to try to rapidly tune across a band using the coarser step tuning controls, only to find that the radio had gone into scan mode, which requires pressing a separate button to stop rather than just letting up on the tuning key. Fortunately the tuning rate of the fine step keys is relatively fast, allowing for more conventional band-scanning. Since the '7600G can tune in one kHz steps for reception of AM signals, the fine tuning control only works when the radio is in SSB mode, unlike its predecessor, the 'SW7600.

Other improvements of the '7600G include the addition of a second standby timer. These timers allow the radio to come on at pre-determined times on selected frequencies and automatically shut-off sixty minutes later. There is also a sleep timer which will shut the radio off after sixty minutes. The output level of the tape out jack has been increased so that the output can be used with the line level input of a tape recorder or hi-fi amp, rather than a microphone level input. However, the '7600G does not have a timer output for tape recorder activation. Some things have not changed from earlier versions of the radio: there are still only ten memory channels for AM stations, whether they are LW, MW or SW and ten channels for FM stations and the clock only displays one time zone. Tuning by direct keypad frequency entry requires pressing the "Direct" button, entering the frequency on the keypad and then pressing the "Exe" key to tune the radio. There are no capabilities for alphanumeric labelling of memory channels and no "page" organization of memory channels as are available with newer Sony designs. The '7600G maintains the Sony idiosyncrasy that the clock can only be displayed when the radio is turned off.

## Performance

The '7600G is a dual-conversion design and has only a single IF filter bandwidth, although it represents a good compromise between interference rejection without sacrificing audio quality. There is a tone switch which reduces high frequency response, which can help in some cases of interference. The outstanding performance feature of the '7600G is the addition of the synchronous detector. It performs very well - it locks quickly and holds lock during deep fades, without any "warbling" of the signal. Although the effect is subtle, use of the sync detector does seem to improve audio quality and reduce distortion. The best feature of the sync detector is the ability to select either the upper or lower sideband of an AM signal in order to escape adjacent channel interference. This can be very handy in recovering a listenable signal when there is a noise or strong signal on either the high or low side of the desired station.

Sensitivity with just the built-in whip is quite good, although here in the West, the supplied external wire antenna comes in quite handy. The circuit noise is low, which enhances the perceived sensitivity. I like the sound quality of the '7600G and there is plenty of output power for using the radio outdoors. The built-in speaker sounds a bit shrill on local FM stations, which is remedied by decreasing the treble response by switching the tone switch to the "News" position. However, I usually leave the tone switch in the "Music" position on shortwave for increased presence. SSB reception is very stable and since the radio tunes in one kHz steps, the fine tuning control is not as "twitchy" to use as in the earlier 'SW7600. The overall fit and finish of the radio is excellent and the pushbutton controls have a solid, positive feel in operation.

I am very pleased with the Sony ICF-SW7600G and prefer it to the ICF-SW100 that I recently reviewed. The '7600G's serious competitor is the Grundig Yacht Boy 400 which sells for about the same price. The Yacht Boy 400 offers richer sound and dual bandwidths, but the Sony has the advantages of the sync detector and easier SSB reception. The improvements that I would like to see in the '7600G would be the addition of a second, narrower IF bandwidth and the ability to display the clock when the radio is in use.



# Country List Committee Report

Don Jensen  
5204 70th Street  
Kenosha, WI 53142

NASWA's Country List is like a yardstick. It is intended as a measuring device. A DXer, if he or she chooses, may count the number of different countries heard or QSLed. That, of course, is an optional activity, unimportant and ignored by some, but greatly interesting and challenging to others.

In order that there be some consistency between what various NASWA members are counting, a standardized country list long ago was established.

While there are changes, and always will be, in shortwave broadcasting, the Country List Committee, this year, has not found any which, at this time, seem to warrant adding new radio countries. The committee continues, however, to monitor these changes in world events and shortwave broadcasting, and will act if and when it seems warranted. We do welcome your suggestions, questions and input regarding the list.

Because it may help others better understand how our club's Country List is administered by the committee, I'd like to excerpt portions of a letter received from one of our NASWA members.

He proposed "the elimination of Alaska and Hawaii, two U.S. States, from the... list and a redefinition of a radio country... to eliminate the 150 mile rule" for determining what shall be counted as a country.

What is a "150 mile rule?" Though NASWA has no such rule, some medium wave (BCB) clubs grant separate country status to a separate territory if it is more than 150 miles from its parent country, and thus justify counting Alaska and Hawaii separately from the rest of the 48 contiguous United States.

NASWA likewise gives separate radio country status to those two states, but not for that reason. To repeat, NASWA has no so-called "150 mile rule" which our member asks to be eliminated.

Instead, in determining what shall or shall not be considered a radio country, the NASWA Country List Committee considers three factors: Geographical (which can, in fact, include consideration of geographical separation, though nothing so precise as 150 miles); Political Status; and Hobby Traditions.

The committee makes its decisions based on one or a combination of these factors. In the cases of Alaska and Hawaii, geographical separation played a part, but, more significantly was a longstanding hobby tradition, predating their 1959 statehood, which informally accorded them separate consideration.

But further, NASWA also has a specific and important policy to NOT remove an existing radio country from its list because of political change. So members are not faced with having to remove any logged radio countries from their own personal heard/verified tallies.

We think this is a significant and fair policy. Consider what confusion would result if one tried to use a standard such as a yardstick which was, periodically, shortened by another inch or two.

A final reminder. There is a distinction between the meaning of the common English word, country, and a radio country as used in the NASWA list. The latter is, specifically, a unit to measure one's advancement as a shortwave DXer, and may or may not include elements of sovereignty or politics.

Thus, Alaska and Hawaii can be considered radio countries for purposes of NASWA's list, even though their political status is no different from Idaho or South Carolina.

—Don Jensen, Chairman

NASWA Country List Committee



# Listener's Notebook

Al Quaglieri

P.O. Box 838

Albany, NY 12201-0838

CompuServe: 75122.74

Internet: alcuee@globalone.net

Chris Lobdell

P.O. Box 146

Stoneham, MA 02180-0146

CompuServe: 75720.253

Internet: piradio@usa1.com

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**AFGHANISTAN** 7200.0 kHz *R. Afghanistan*; 0125 w/carrier on & off. Flute IS at 0126, 4 time pips at 0130, W ID, M, then Koran to 0138. M/W talking (sounded like a story or perhaps a devotional) over a pretty Asian flute melody. good-vgd strength w/ some ham QRM, Oct.12. Trx BBCMS. (McVicar-HCJB/Bueschel-Germany)

**ALBANIA** Some *R. Tirana* observations (not a complete sked):

0000-0400	Albanian	6155 7270
0245-0300	English	6140 7160
0330-0400	English	6140 7160
0730-1030	Albanian	7150
1715-1730	English	7155 9740
1830-1845	Greek	5985 7170
1845-1900	Turkish	5985 7170
1900-1930	German	7270 9740
1900-1930	Italian	5985 7170
1930-2000	English	7270 9740
1930-1945	Serb	5985 7170
2000-2300	Albanian	6170 9740

(Bueschel-Germany)

**ANGOLA** 9524.8 EE nx 2058, ID as "Angola National Radio", then into PP; ID with freqs. 2100, into pop mx, PP ancr. First EE ever heard from them; things looking up there, perhaps, after years of war? (01-Oct/George/Jihad #53)

**ARGENTINA RAE** Buenos Aires in English at 1900-1930 noted 10 kHz down on 15335, due to Morocco in Arabic on 15345 kHz. (11-Oct/Bueschel-Germany)

**BELGIUM RVTs** *Radio World* may be heard:

0730	5985 9925
1000	6035 (not Su) 15510 17595 (not Su)
1400	13670 (1330 Su)
1900	5910 9925
0200	5910 7250
0030	6030 9925

(Cees Van Oudheusden-Netherlands/08-Oct/Padula/ARDXC "NewsPlus")

**BOLIVIA** 4719.75 *Rdif Abaroa*, Riberalta here now, ex-4712.5. (Barrera/Onda Corta/Krueger/DXSF/Jihad DX #53) 4864.43 *R. Diez y Seis de Marzo*, 0949-1000, weak modulation. (05-Oct/Valko)

**BRAZIL RadioBras** in Portuguese to AF at 1800-1920 on odd 17753 kHz, using faulty third RadioBras tx, always 3 kHz up of nominal frequency (17750). (Bueschel-Germany)

**BULGARIA** Radio Bulgaria, winter sked to Europe:

0615-0700	German	7335 9700
0700-0800	French	7335 9700
1100-1200	German	9700 11860
1715-1800	German	7335 9700
1800-1900	French	7335 9700
1900-2000	German	7335 9700
2000-2100	English	7335 9700
2100-2200	French	7390 9700
2200-2300	English	7105 9700

(09-Sep/Cees van Oudheusden-Netherlands/Jan Nieuwenhuis-Netherlands/Benelux DX Club)

**CAMBODIA Voice Of Cambodia**, 11940, noted briefly around 1203 tune in, in English into mx program at 1204. Poor with QRM from Bucharest. Into next programming block at 1215 after music bridge. (25-Sep/Clark/NU #1341/Jihad DX)

**CHINA CRJ** Beijing in English is back on 7170 kHz via Krasnodar, Russia. (Bueschel-Germany)

**CHINA-TAIWAN Central BC System**, 3335, at 2152 with instrumental and pop mx. At 2158, an announcement in a non-Chinese oriental language was noted. Noted ID as "Chungyang Kuanpo Tientai" at 2203. Weak and fadey with CHU splatter and mostly gone by 2210. Not heard since. (01-Oct/Hill)

**CIS Voice of Russia's** nominal winter sked in English:

0000-0100	7180 7125 7105
0100-0200	7125 7105
0200-0300	13640 12030 9580 7345

0300-0400	9580 7345 7270 7175
0400-0500	7330 7270 7180 7175 7105 5930 5920
0500-0600	7330 7270 7180 7175 7105 5930 5920 5905
0600-0700	21790 17570 17560 15525 15470 15160 12025 7330 7270 7240 7175 5930 5920 5905
0700-0800	21790 17570 17560 15470 15160 12025 7330 7270 7175 5930 5920 5905
0800-0900	17860 17560 15160 12025 12005 9685 9450
0900-1000	17860 12025 12005 9685 9450 7305
1000-1100	17860 17755 15560 15490 13785 12025 12005 9685 9450 7305
1100-1200	17890 17860 17755 15560 15490 13785 12055 12025 12005
1200-1300	17860 17755 13785 9875 9820 9755 9725 4740
1300-1400	17880 15470 13785 12065 12055 4975 4740
1400-1500	17880 12065 9470 7165 7130
1500-1600	12065 11945 11765 9905 9635 9470 9400 7325 7165 7130 7115 6005 4975 4940 4740 1125
1600-1700	13670 11945 11870 11865 9905 9635 9505 9490 9470 7325 7275 7210 7180 7175- 7115 6175 6130 5935-(not sa) 5925 4975 4940 4740
1700-1800	13670 9890 9890 9585 9505 9490 9470 7325 7255 7210 7205 7180 7175 7130 7115 6130 6055 5995 5940 5935-(not t/su)
1800-1900	13670 9890 9505 9490 7255 7210 7205 7180 7175 6130 6030 5940
1900-2000	9890 9585 9505 9490 9470 7325 7255 7210 7205 7200 7180 6130 6055 5995 5940
2000-2100	13670 9890 9865 9585 9490 9470 7325 7205 7180 7175 6130 6055 5995 5940
2100-2200	9890 7400 7205 7180 7170 7135 6055 5995 5940
2200-2300	9890 7400 7360 7320 7205 7180 7140 7105 6055 5995 5940
2300-0000	9550 7205 7180 7170 7125 7105 5940 (BBCM)

**Radio Roks** operates from an unknown QTH, noted on 3392 signing off at 0500. Daytime freqs are 4852 and 5044U, presumably for some feeder purposes. Possibly Belarus-based, as some programs come from Miensk. (Makelainen-Finland)

4484 Russian **Radio Ufa** (t) at 0315, folk music, romantic ballads, M announcer in unk language. Interesting format and good music. (30-Sep/Williams-AL/Jihad DX) On 4485 Radio Ufa was reported in Bashkirian & Russian 0200-0300 UTC. 0410-0500, 0700-0900, 1300-1500, remaining times R. Rossii relayed. (Pankov-Bulgaria/Bueschel-Germany)

**Abkhaz Radio** Sukhumi 9494.7 observed signing off at 05.50:30 on Sun Oct 15th. (Bueschel-Germany)

**V.O. Armenia**, Yerevan to Europe on Suns only, 0900-1000 15270 (strong, may 1000 kW of power) and 15370 (QRM). 0900 French, 0930 English, presenter Mrs. Mara Ashrahan. On single 15270 kHz from 1000-1100? usual religious German sect language transmissions. (Bueschel-Germany). Yerevan in French 2100, English 2130-2200 on new 9965 kHz, //announced 7480 kHz but not observed. (RVI Radio World/Valko/Jihad DX). Yerevan observed at 0100 on 7480 kHz, beating R. Bulgaria also here 0000-0600. (07-Oct/Hauser-WoR/Jihad DX)

#### **Radiostantsiya Belarus**, Minsk:

0030-0100	Belarusian	5940-Russia
1900-2000	Belarusian	7210 7205 7105 5940-Russia Th/Fr
1900-1930	Belarusian	7210 7205 7105 5940-Russia Sa-We
1930-2000	German	7210 7205 7105 5940-Russia Su
1930-1945	Belarusian	7210 7205 7105 5940-Russia Mo
1930-2000	English	7210 7205 7105 5940-Russia Tu
1930-2000	German	7210 7205 7105 5940-Russia We/Sa
1945-2000	Polish	7210 7205 7105 5940-Russia Mo

(BBCM)

5940 "**Bible Focus**", in English, produced by a British organization, noted on a Tuesday \*1930-2000\* during the **Radio Minsk** External service block on 5940. At 2000, **Radio Kiev** programming noted. Txer believed to be in Ukraine, and leased to R. Minsk. (03-Oct/Padula/Jihad DX #53)

**R. Almaty**, Kazakhstan via Kiev Brovary relay: 9560 kHz observed around 0800-1600, in Kazakh and Russian (ex-7205). 5940 kHz is used by R. Almaty 1600-1900 UTC. Suddenly heard R. Almaty's English sce at new time segment 1700-1728 UTC, followed by Russian. (Bueschel-Germany)

**Radio Vilnius** at 0000 UTC, and **Radio Belarus** 0030-0100 UTC relayed via Krasnodar 5940 kHz, // Far East relay 13640 & 17665 kHz. (07-Oct/Hauser/WoR/Bueschel-Germany)

**Permskoe Oblastnoe Radio**, Perm, 0200-0300 5290 kHz. (but R. Rossii heard instead) **Radio Region Tyumen**, 0200-0300 UTC 4895 kHz. **Kalmuk Radio** Elista, 1900-2000 UTC 5060 kHz. **Radio Petropavlovsk** Kamchatskii on the air Tue & Thur 2100-2200 UTC on 13605 kHz. **Radio Lena** Irkutsk, 0400-1000 UTC 5290 kHz. **Radio Tikhy Okean**, Vladivostok 0815-0900 on 11840U, but this site is Yuzhno-Sakhalinsk, studio in Vladivostok. **Radio Khanty-Mansiisk** & **Radio Luborskaya Paralel** 0200-0300, 0520-0600, 0800-0900 UTC on 4820 kHz. (Pel

Mikhailov's "DX Klub"/Radio Rossii/Bueschel-Germany)

**R. Moldova Int'l.** sked to 31-March:

0230-0300	Spanish	9400
0300-0330	Romanian	7500
0330-0400	English	7500
0400-0430	Russian	6135
0430-0500	English	7500
1200-1230	Spanish	15315
1230-1300	Romanian	9400
1930-2000	Russian	9400
2000-2030	French	7500
2030-2100	Spanish	7500
2100-2130	French	7500
2130-2200	Spanish	7500
2200-2230	English	7500
2300-2330	English	7500

(16-Oct/Berg)

**R. Ukraine Int'l.** observations:

0100-0200	4795 4860 5905 5940 6010 6080 6130 7135 7205 7240
0200-0500	4795 4860 5905 6080 6130 7135 7205 7240 6010 6055
0700-0800	6010 6080 9620 9640 11705 11840 12040 13670 13720
0800-0900	9620 9640 11705 11840 11860 12040 13670 13720
0900-1100	6080 9620 9640 11705 11840 11860 12040 13670 13720
1100-1200	6080 9620 9640 11705 11840 11860 13670 13720
1200-1400	6080 (9640)11705 11840 11860 13670 13720
1400-1500	6080 (9640)11705 11840 11860 13670 13720
1500-1600	5905 6080 6130 7135 11705 11840 11860 13670(-1530)
1600-1700	4795 4820 5905 6080 6130 7135 11705 11840 11860
1700-1900	4795 4820 5905 6010 6080 6130 7135 7205 11705 (German 1800-1900)
1900-0100	4795 4820 5905 5940 6010 6080 6130 7135 7205 7240

(English at 2200-2300, German 2100 & 0000). (5940 kHz is used by **R. Almaty-KAZ** 1600 until 1900 UTC, 5940 & 7205 rent by **R. Belarus** Minsk for 1900-2000 UTC time span). 0000-0100 German. From 0100 4820 kHz replaced by 4860. (AMID-German AGDX Monitoring and Information Service/Bueschel-Germany)

**Radio Tashkent**, Uzbekistan, in German at 2000-2030 on new powerhouse 6230 kHz, 5060, 9540, and 11905 kHz. **Uzbek Radio** Tashkent second domestic progr. approx. 0430-1500 UTC replaced 15200 kHz by usual winter QRG of 15330 kHz //much stronger 15165. (Bueschel/BCDX/Jihad #52) **R. Tashkent** has an English broadcast at 1330-1400, announcing 9715 6025 5975 and 5060 kHz. Of these I hear only 9715, while 15295 which was used in the summer has

disappeared. Does anyone receive the other (or any other) frequencies? (Koutamanis-Netherlands)

**CLANDESTINE-ASIA** 4115 *Voice of Independent Kashmir* 1530-1700 reactivated. (Goonetilleke/RNMN/Johnson/Jihad #52)

**CLANDESTINE-MIDEAST** According to a UPI news item dated 27/8 the *Voice of Iraqi Kurdistan* is based in the resort town of Salahuddin in Northern Iraq. (Kropf/Jihad #52)

BBCM heard the last broadcast from *Voice of Human Rights and Freedom for Iran* on Saturday (30th September). They said they were closing "with the greatest regret", but gave no explanation. Reason" US government will no longer fund the rental of SW txs at Abis, Egypt. (BBCM)

**CLANDESTINE-UNID** 9594.9 -1315- Presumed "clanny" Station here due to the very audible "warble" jammer present, M & W Ancrs w/talk fading in & out but never long enough to get a handle on the language, not *RFE/RL* per latest sked. My best guess would be *Republic of Iraq Radio/Vo the Iraqi People* operating at this time. (23-Sep/Trummel-MO/Jihad #52)

**COLOMBIA** 3579.93 kHz *R.Catolica Nacional* (pirate), near Tuquerres per Henrik Klemetz; 0257 with Ecuadorian pasillos. TC and ID at 0305 and a very rough recording of the official *R.Catolica "Ode to Joy"* IS on guitar. (26-Sep/McVicar/Jihad #52)

6015.21 kHz *R.Mira*, Tumaco; 1919 with salsas, ads for local services in Tumaco, one "*R.Mira*" mention during prgm intro. (03-Oct/McVicar/Jihad DX #54)

**COSTA RICA RFPJ** current sked:

2200-0800	7385 Mo-Fr
2200-1200	7385 Sa/Su
0000-2400	9400
1200-2200	15050

(direct) Moved to 9400 due to Kol Israel on 9388 kHz. (Hauser-WoR/Bueschel-Germany)

**AWR** Costa Rica schedule:

0000-0100	English	5030 6150 7375 9725
0100-0500	Spanish	5030 6150 7375 9725
0500-0600	French	5030 6150 7375 9725 Mo-Sa
0500-0600	Dutch	5030 6150 7375 9725 Su
0900-1000	Portuguese	7375
1000-1100	Portuguese	5030 7375 Mo-Fr
1000-1100	Portuguese	5030 7375 9725 Sa
1000-1100	Portuguese	7375 Su
1100-1200	English	5030 7375 9725 13750
1200-1300	English	5030 6150 9725 13750
1300-1400	Spanish	5030 6150 9725 13750
1400-1500	Spanish	9725 13750 Mo-Fr

1400-1500	Spanish	9725 11870 13750 Sa/Su
1500-1700	Spanish	9725 11870 13750 Sa/Su
1700-1800	English	13750 Sa/Su
1800-1900	French	13750 15460 Su-Fr
1800-1900	Dutch/Pap	13750 15460 Sa
1900-2000	English	13750 15460
2000-2100	Portuguese	13750 15460
2100-2200	Spanish	13750 15460
2200-2300	French	13750 Su-Fr
2200-2300	Dutch	13750 Sa
2300-2400	English	5030 6150 7375 9725

(Schaay/Bueschel-Germany)

**CROATIA** Usual mixing product 4795 kHz, produced at Zagreb Deanovec transmitting site observed from 0700 onwards, when 5920 kHz is signing on. Formula: 5920 minus MW 1125 kHz = 4795 kHz. (Bueschel-Germany)

**CZECH REPUBLIC** *Radio Prague* winter schedule:

0700-0727	French	7345 5930
0730-0757	German	7345 5930
0800-0827	English	7345 5930
1100-1127	German	7345 6055
1130-1157	English	9505 7345
1200-1227	French	9505 7345
1230-1257	Spanish	11990 9505
1300-1327	German	7345 6055
1330-1357	Czech	7345 6055
1500-1527	Czech	9425 5930
1530-1557	French	5930
1600-1627	German	5930
1630-1657	Czech	9430 5930
1700-1727	English	9430 5930
1730-1757	French	9430 5835
1800-1827	English	9430 5835
1830-1857	Czech	9430 5835
1900-1927	Spanish	9430 5835
1930-1957	French	9430 5930
2000-2027	Spanish	9430 5930
0000-0027	English	7345 5930
0030-0057	Spanish	7345 5930
0100-0127	English	7345 6200
0130-0157	Czech	7345 6200
0200-0227	Spanish	7345 6200
0230-0257	Czech	7345 5930
0300-0327	English	7345 5930
0330-0357	English	6200
1000-1030	English	17485 15640
1030-1027	Czech	17485 15640
1400-1430	English	17485 13580
1430-1457	Czech	17485 13580
2030-2057	Czech	9430 5930
2100-2127	English	7345 5930
2130-2157	Spanish	7345 5930
2200-2227	French	7345 5930
2230-2257	English	7345 5930
2300-2327	Spanish	7345 5930
2330-2357	Czech	7345 5930

(BBCM)

**ECUADOR** 4019.92 (3 X 1340 harmonic), *La Voz de Su Amigo*, Esmeraldas tentative here a few nights this week after 0300. Thanks McVicar. Address is: La Voz de Su Amigo, Olmedo y Manuela Can, Esmeraldas, Prov. de Esmeraldas, Ecuador. Licenced for 1340 kHz in 1994. (McVicar/Jihad DX)

5060.65, *R. Progreso*, 0256-0312, Tlk by live M annr w/ment of Progreso, upcoming song amnt, LA Pop song, M again, ment of Loja. Sev. songs w/out amnts then. Fair w/heavy WWCR 5065 slop. (29-Sep/Valko)

5498.02, *R. Lajas*, 0210-0257, Pgm of lively LA Pop mx w/occas. amnts by live M after abt every 2 or 3 songs. Many many TCs, what appeared to be song amnts. Only one canned amnt by W at 0237. ID at 0245, ment of Lajas at 0248. Still going at 0257. Very weak and lucky to get ID. (3-Oct/Valko)

**HCJB** sked thru 31 March, 1996:

0000-0030	French	12005
0030-0500	English	9745
0115-0130	Tajik	5900 Su-Th
0130-0147	Uzbek	5900 Su-Th
0147-0200	Russian	5900 Su-Th
0200-0400	Russian	5900
0400-0430	Georgian	5900 Su-Th
0400-0430	Russian	5900 Fr/Sa
0430-0500	German	5900
0430-0500	Japanese	9765
0500-0515	Kikongo	9765 M-F
0500-0515	Portuguese	9765 Sa/Su
0500-0530	Czech	5900
0500-0700	English	9745
0500-0700	Russian	9475
0515-0600	Portuguese	9765 Mo-Fr
0530-0600	Nordic	5900 Fr/Sa
0530-0600	Portuguese	5900 Su-Th
0600-0630	German	5900
0630-0700	French	5900
0700-0830	English	6050
0700-1130	English	5900
0730-0930	Portuguese	6125
0830-1000	Quichua	6110
0830-1330	Quichua	3220
0830-1330	Quichua	6080
0930-1000	German	6125
1030-0504	Spanish	6050
1030-1130	Russian	9415
1030-1500	Spanish	11960
1100-1500	English	12005
1130-1200	Japanese	9415
1130-1430	English	15115
1200-1300	Spanish	9415
1430-1600	English	15115
1500-0500	Spanish	15140
1500-1800	Portuguese	15295
1700-2000	English	15490
1800-1830	Czech	15520
1830-1900	German	15520
1900-2000	Arabic	15520

2000-2030	Nordic	12005	Fr/Sa
2000-2030	Portuguese	12005	
2030-2100	French	12005	
2100-0300	Quichua	3220	
2100-0300	Quichua	6080	
2100-2130	German	12005	
2130-2230	Spanish	12005	
2200-0030	Quichua	9745	
2200-2300	Japanese	11615	
2230-2300	German	12005	
2300-0000	German	12005	
2300-0230	Portuguese	15295	
2300-0230	Portuguese	11615	

(McVicar-HCJB)

Updating earlier reports, **HCJB's** Rich McVicar advises that the matter was reconsidered and that the 1.5 kW SSB transmitter on 21455 will in fact continue in operation 24 hours daily during the W95 season. The use of 15540 USB is, however, discontinued. (McVicar/October "World Radio Report"/DX Ontario/Clark)

**HCJB** is repeating last year's BCB test (on 690 kHz) on a monthly basis through 1996. All correct reports will be answered with a special QSL. Here's the schedule, which I'll print just this once:

October 7, 1995	0600-0615
November 5, 1995	0600-0615
December 3, 1995	0600-0615
January 7, 1996	0800-0815
February 4, 1996	0600-0615
March 3, 1996	0600-0615
April 7, 1996	0515-0530
May 5, 1996	0545-0600
June 2, 1996	0600-0615
July 7, 1996	0800-0815
August 4, 1996	0600-0615
September 1, 1996	0515-0530

(McVicar-HCJB)

**EQUATORIAL GUINEA** Mystery station heard on 15185v throughout European daylight hours is **Radio Africa**. (BBCM)

**ETHIOPIA** **Radio Fana**, 6210, weak but clear with mx box IS, clear ID by man, frequencies, then into probable news. (Berg 9-19, NU #1339)

**Radio Ethiopia**, 5990, noted at 0330 sign on with flute, into Amharic // 7110. (27-Sep/Hill/Berg/NU #1341/Jihad DX)

**FINLAND** **R. Finland** winter schedule:

0500-0630	6015
0400-0500	6030
0500-2200	6120
1700-2200	6120
1415-1700	6180
0700-0800	9560

0500-0600	9635	11755
1600-1700	9680	11880
1700-1830	9730	
1200-1400	11735	15400
0700-0930	11755	
1000-2130	11755	
0930-1000	11755	
1500-1600	11785	13645
0800-0830	9760	15330
1100-1130	15240	17825
1000-1030	11805	13770
1400-1430	11805	15240

(R. Finland/Bueschel-Germany)

**FRANCE** By time you read this, **RFI** will likely already have implemented an expansion of its 75 mb usage, all from transmitters in France:

2000-2100	Serbo Croat	3985	(ex-7135)
2200-2300	Polish	3950	(ex-7135)
1800-1900	German	3985	
1600-0400	French	3965	

(08-Oct/Padula/ARDXC "NewsPlus")

**RFI** Paris English schedule:

1200-1300	9805	11600	11615	13625	15195	15325	15515	15530
1400-1500	7110	11600	12030	17560				
1600-1700	6175	9485	11615	11700	12015	15330		
1700-1730	9485	11615						

(RFI/Bueschel-Germany)

**FRANCE/RUSSIA/CHINA/JAPAN** Effective 24 September, **RFI** via overseas relays is:

Via China:

0100-0200	11600	French
1400-1500	7110	English
1100-1200	11890	French
1200-1300	11600	English
1030-1130	11700	French

Via Russia:

2300-0100	12025	French
1100-1300	7305	Lao/Cambodian

Via Yamata, Japan:

1030-1200	7140	French
1200-1300	7140	Chinese
0930-1030	9660	Chinese
1030-1200	9660	French
1430-1530	6120	Vietnamese
2300-0000	9570	French

(08-Oct/Padula/ARDXC "NewsPlus")

**FRENCH GUIANA** **China Radio International** in English via Montsinery-GUF at 0400-0457 on 9730 (x11680) kHz. (AMID-German AGDX Monitoring and Information Service/Bueschel-Germany)

<b>GERMANY/RUSSIA</b> Due to temporary suspension of Trincomalee-SLK relay site, <i>DW</i> has slight schedule changes, now using Russian facilities in addition: German 5925 kHz Novosibirsk 2200-0000 to FE, (ex-7340) til Febr. German 9525 kHz 0000-0300 to SoAS. Japanese 7390 kHz 1100-1130 to JAP. Chinese 5925 kHz 1200-1320 to CHN. Indonesian 9850 kHz 1330-1420 to INS/MLA. Pashto/Dari delete 17675 kHz at 0800-0850 to AFG. Persian 5935 kHz 1800-1850 to IRN. Russian 5925 kHz Irkutsk 2100-2150 to FE RUS. English 7235 kHz 2300-2350 to AUS/NZL/PAC. ( <i>DW/Bueschel-Germany</i> )		1100-1300	English	9725COS 5030COS 13750COS
		1100-1900	Spanish	5980GUA
		1200-1300	Cebuano	13720KSDA
		1200-1300	English	6150COS
		1200-1300	French	7230FOR
		1200-1300	German	7230FOR
		1200-1300	Ilonggo	13720KSDA Su/Th
		1200-1300	Korean	9650KSDA
		1200-1300	Tagalog	13720KSDA Sa/Tu/Fr
		1200-1300	Vietnamese	13720KSDA
		1200-1600	Mandarin	7455KSDA
		1300-1400	Bangla	13720KSDA
		1300-1400	French	7230FOR
		1300-1400	Hungarian	5905KOS
		1300-1400	Japanese	9650KSDA
		1300-1400	Spanish	6150COS 9725COS 5030COS
		1300-1500	Spanish	13750COS 9725COS
		1400-1500	Burmese	9370KSDA
		1400-1500	Italian	7230FOR
		1400-1500	Romanian	5905KOS
		1400-1500	Sinhalese	7400KSDA
		1400-1500	Spanish	11870COS Sa/Su
		1430-1530	Czech	5940RIM
		1500-1530	Marathi	7400KSDA Mo/Fr
		1500-1530	Tamil	7400KSDA Su/We/Sa
		1500-1530	Telugu	7400KSDA Mo/We/Fr
		1500-1600	Arabic	7230FOR
		1500-1600	Bulgarian	5905KOS
		1500-1600	German	5940RIM
		1500-1600	Hindi	9465RIM
		1500-1600	Hindi	9370KSDA Su/Tu/Th/Sa
		1500-1600	Norwegian	7215SAM Tu/Sa
		1500-1600	Spanish	7215SAM Mo/Th
		1500-1600	Swedish	7215SAM We/Fr/Su
		1500-1700	Spanish	13750COS 11870COS Sa/ Su
		1530-1600	Malayalam	7400KSDA Tu/Th
		1600-1700	English	9370KSDA
		1600-1700	Urdu	9465RIM
		1600-1900	Swahili	9475RIM
		1700-1800	English	13750COS 9475RIM
		1700-1800	Farsi	9465RIM
		1800-1900	Dutch/Papia	15460COS C&S 13750COS C&S
		1800-1900	French	15460COS Su-Fr
		1800-1900	French	13750COS
		1800-2000	Arabic	7100RIM
		1900-2000	English	15460COS 13750COS
		1900-2300	English	5980GUA
		2000-2100	French	7100RIM 9465RIM
		2000-2100	Polish	7215SAM
		2000-2100	Portuguse	15460COS 13750COS
		2000-2200	Arabic	7100RIM
		2100-2200	Arabic	11610RIM
		2100-2200	English	11610RIM 9465RIM
		2100-2200	German	7215RIM
		2100-2200	Japanese	9495KSDA
		2100-2200	Korean	5950KSDA
		2100-2200	Mandarin	9370KSDA
<b>GERMANY/LOTS OF PLACES</b> <i>Adventist World Radio</i> sked from 24 September 1995 to 23 March 1996, including all sites:				
0000-0100	Burmese	17645KSDA		
0000-0100	English	6150COS 9725COS 5030COS 7375COS		
0000-0200	Mandarin	15225KSDA		
0000-0200	Spanish	5980GUA		
0100-0200	Bangla	17645KSDA		
0100-0200	Hindi	17645KSDA		
0100-0500	Spanish	5030COS 6150COS 7375COS 9725COS		
0200-0300	Hindi	7315RIM		
0200-0400	Mandarin	15225KSDA 13720KSDA Sa/Su		
0300-0400	Swahili	5905RIM		
0300-0400	Urdu	9450RIM		
0300-0500	Arabic	6090SAM		
0400-0500	English	9465RIM 6090SAM		
0400-0500	Farsi	9450RIM		
0500-0600	Dutch	9725COS 5030COS 6150COS 7375COS		
0500-0600	French	6150COS 7375COS 5030COS 9725COS 11655RIM		
0600-0700	English	5905RIM		
0600-0800	Arabic	11610RIM		
0700-0800	Bulgarian	5905KOS		
0700-0800	French	13715RIM		
0800-0900	Arabic	15620RIM 7230FOR		
0800-0900	German	5940RIM		
0800-0900	Romanian	5905KOS		
0900-1000	English	15620RIM		
0900-1000	Fuji/Hakka	15225KSDA		
0900-1000	German	7230FOR		
0900-1000	Hungarian	5905KOS		
0900-1100	Mandarin	11980KSDA 9370KSDA		
0930-1030	Czech	5940RIM		
1000-1100	Arabic	7230FOR		
1000-1100	Cantonese	15225KSDA		
1000-1100	Italian	5905KOS		
1000-1100	Portuguse	5030COS 7375COS		
1000-1100	Russian	9530KSDA		
1100-1200	English	7375COS		
1100-1200	Fuji/Hakka	15225KSDA		
1100-1200	Indonesian	13720KSDA		
1100-1200	Italian	7230FOR		

2100-2200	Spanish	15460COS 13750COS
2100-2300	Mandarin	11980KSDA
2200-2300	Cantonese	15225KSDA
2200-2300	Dutch/Papua	13750COS C&S
2200-2300	English	7215SAM
2200-2300	French	13750COS
2200-2300	Indonesian	9370KSDA
2300-2400	English	9725COS 5030COS 6150COS 13750COS
		11980KSDA 7375COS 15610KSDA
2300-2400	Mandarin	15225KSDA
2300-2400	Portuguese	7275RIM
2300-2400	Spanish	5980GUA
2300-2400	Vietnamese	15610KSDA

**Station Abbreviations:**

COS: Alajuela, Costa Rica  
 GUA: Guatemala City, Guatemala  
 KOS: Velke Kostolany, Slovakia  
 RIM: Rimavska Sobota, Slovakia  
 FOR: Forli, Italy  
 SAM: Samara, Russia  
 KSDA: Agat, Guam  
 Address: Adventist World Radio, PO Box 100252, D-64202, Darmstadt, Germany (11-Oct/Ageenkov-Russia)

**GREAT BRITAIN** New times for **BBC** London WS "Waveguide":

Sun	0350 1645 2345
Mon	0845 2345
Wed	1530
Fri	0430 0715 1235
Sat	0715 1000

(BBC Worldwide)

**GREECE** *Voice of Greece* schedule, 24 Sep '95-05 Nov '95:

0000-0350	Greek*	7450 9420 9935
0400-0555	Gk/Turk/AA	9395 9425 11645
0600-0800	Gk/English	7450 9425 11645 (EE 0740-0750)
0600-1000	Greek	9935T
0600-2255	Greek	11595T
0900-0950	Greek	15630 15650
0900-0950	Greek	15630 16650
1000-1150	Greek/ Turkish	9425 9915
1100-2255	Greek	9395T
1200-1250	Gk/AA/EE	9420 11645 15650 (EE 1240-1250) 11645
1300-1350	Greek/ Russian	11645
1300-1450	Greek/ English	9420 15650 (EE 1440-1450)
1400-1450	Greek/ Arabic	11645
1400-2255	Greek	7430T

1500-1700	Balkan langs	7450 9420 11645
1710-1750	Gk/RR/ Polish	7450 9420 9935
1800-1850	Gk/English	11645 15650 (EE weekdays 1840-1850)
1800-1900	Greek	9420
1900-1950	EE/Ff/GG/ II/SW	9375
1900-1955	Greek	7450 9420
2000-2050	Balkan langs	9425
2000-2155	Greek	6260 7450
2100-2250	Greek/ English	9425 (EE Su-Fr 2240-2250)
2200-2300	Greek	9935 11595
2300-2350	Port/SS/EE	9935 11595 11640 (EE Mo-Fr 2335-2345)

\*except English Tue-Sun 0130-0140 & 0340-0350  
 T=via Thessaloniki (Voice of Greece/Schaay/Volk-Germany)

**GUATEMALA** 2100H and 3150H *LV de los Cuchumatanes* 1040 marimba music, ID at 1100. 2x and 3x 1050. (Moore/TLC/Johnson/Jihad DX)

**GUINEA** 7125.7 Conakry at 2200 finally in the clear (something there every evening, but usually KO'd by splatter), FF ID, into apparent nx with telephone interviews. (George 9/19/Jihad #52)

**HUNGARY** *R. Budapest* winter schedule:

0000-0100	Hungarian	6165 9835 11955 Su
0100-0200	Hungarian	6190 9850 11870
0200-0230	English	6190 9850 11870
0230-0300	Hungarian	965 9850 11870
0330-0400	English	5965 9850 11870
0400-0430	Russian	3975 5905 7295
0430-0500	Ukrainian	3975 5905
0500-0530	Romanian	3975 5930 7290
0530-0600	Croatian	3975 5930 7250
0600-0630	Slovak	3975 5920 7250
0630-0700	Serbian	3975 5920 7220
1000-1100	Hungarian	13695 15220 17750
1100-1200	Hungarian	13695 15220 17750 Su
1200-1300	Hungarian	5945 7220 9825 11910 Su
1300-1400	German	5945 7220 9825 11910 Su
1400-1500	Hungarian	5970 7220 9835 11950 Su
1530-1600	Russian	5950 9835 11905
1630-1700	Romanian	3975 5965 7185
1700-1730	Croatian	3975 6110 7185
1700-1730	Ukrainian	5945 7235
1730-1800	Slovak	3975 5970 7185
1800-1830	Serbian	3975 5970 7255 Mo-Sa
1800-1830	Serbian	3975 6000 Su
1800-1900	German	5925 7255 9805 Su
1830-1900	German	3975 5925 7255 9805
1900-2000	Hungarian	3975 5975 7250 9835

2000-2030 English 3975 5970 7250 9835  
 2030-2100 German 3975 5970 7185 Mo-Sa  
 2100-2200 Hungarian 3975 5970 7185 9835  
 2200-2230 English 3975 5935 7250 9835  
 2300-0000 Hungarian 6165 9835 11955  
 (Radio Budapest/Schaay-Netherlands/Bueschel-Germany)

**INDIA** 4995 *AIR* @1630 presumably a new station, first noted on 20 Sept when *AIR* national news mentioned that a new stn has been opened. Name unclear, abrupt closedown @1630\*. (20-Sep/Mantyla/Jihad DX #53)

*AIR Delhi* in Nepali on new 11710 kHz (Goa Panaji) at 1330-1430, //4860 6045 7410!, and 11585 kHz. (Ivanov-Bulgaria/Bueschel-Germany)

*AIR-Panaji*, 15290, noted at 0250 with commercial service with AD for "B&B" mx (Bed and Breakfast?!), Indian pop mx. Excellent signal and // to 10330 which was very good. (McVicar 10-4, NU #1341)

At 1830, *AIR Delhi* left split frequency 7412 for exact 7410 kHz, due to VoA (pressure?) on 7415 kHz. (Bueschel-Germany)

## INDONESIA

3143.8 *RSPDKD2 Halmahera Tengah* 1047-1132 Local ID at 1100 into nx, frequent mentions of "Kabupaten Halmahera Tengah" (07-Oct/Atkins/Bueschel-Germany)  
 3214.8 *RRI Manado* 1206 Jak news 1211 end of news and then real bassy local announcer. Quran at 1231 recheck. (23-Sep/Johnson/Jihad #52)  
 3295.3 *RRI Samarinda* (t) 1235-1300, Weak signal of M & W tk in Indo lang. Lagu melayu at 1252 to 1300. (07-Oct/Atkins DXpedition)  
 3223 *RRI Mataram* tentatively noted from 2147 (08-Oct/Hill-MA)  
 3295.3 *RRI Samarinda* 1235-1300 Weak, into Jak news 1300. (07-Oct/Atkins/Bueschel-Germany)  
 3325 *RRI Plangkaraya* 1428-1434 ID mention Palangkaraya at 1430. (09-Oct/Atkins-WA)  
 3345 *RRI Ternate* 1135-1145 Tremendous signal (07-Oct/Atkins/Bueschel-Germany)  
 3384.9 *RRI Kupang* 1439-1444 Fair, no sign of weaker RTM Miri on 3385. (09-Oct/Atkins)  
 3987.2 *RRI Manokwari* 1156 w/bits of music, SCI at 1159:30 to Jakarta ID and news at 1200. (26-Sep/McVicar/Jihad #52)  
 4003.2 *RRI Padang* 2359 with SCI, poor (27-Sep/McVicar/Jihad DX #54)  
 4606.38 *RRI Serui* 1156 w/mx, ID at 1158:30, SCI at 1159 and RRI ID and nx at 1200. poor (04-Oct/McVicar/Jihad DX #54)

4753.21 *RRI Ujung Pandang* strong, signing off at 1610. (Mika Makelainen/Jihad #52)  
 4874.6 *RRI Sorong* 1155 w/pop mx show, SCI at 1159. fair (04-Oct/McVicar/Jihad DX #54)  
 4910.3 *RRI Bukittingi* 1703 Indonesian news. (Veldhuis) 6069.84 kHz RRI Jayapura; 1158 with SCI, nx. pr on Sept.28 (McVicar/Jihad DX #54)  
 6070 *RRI Jayapura*; 1159 with SCI to M w/nx at 1200. vy poor (22-Sep/McVicar/Jihad #52)  
 6156.64 *RRI Tual* (pres.), On 9/7, 1305, Could barely confirm that they were running Jak. nx relay by M // others. No chance for ID due to weak strength and QRM. Quite distorted also. Into Indo Lagu mx at 1309. QRM from strong 6160 Vancouver also. (Valko/Jihad DX)  
 7231.03 *RRI Fak Fak*; 1155 w/music prgm hosted by W, SCI at 1158, TPs, Jakarta news (10-Oct/McVicar/Jihad DX #54)  
 9680 *RRI Jakarta* now using new Marconi 250 kW tx here, putting superb signal into Europe around 1200-1600, especially Mo-Fr, when Renascenca is off. (Bueschel-Germany)

According to a reply, *RRI Yogyakarta* broadcasts at 2200-0200 on 42 and 25 meters, and at 1000-1700 at 59 and 43meters. Transmitters; 7190-Philips model made in 1971, 5047-Gates model made in 1954, 7100 RCA model made in 1954, 2350-TCA model made in 1961. List compiled in April 1994, doesn't mention 5059 sender. Local news is now heard at 2230 and 1230 entitled "*Berita Bahasa Jawa*" (Javanese language news), 2330 and 1000 entitled "*Berita Daerah*" (Local news), 0030 entitled "*Berita Bahasa Inggris*" (English language news), 0630 entitled "*Berita Orahraga*" (Sports news), 0830 entitled "*Berita Kota*" (City news), 1330 entitled "*Berita Nusantara*" (Nusantarall network news). V/s Drs.H.Hamdan Sjahbeni, Kepala Stasiun. Mailing address is; Jln Amat Jazuli No.4, Yogyakarta 55224, Indonesia. (Yamada-Japan)

[From Kevin Trummel: "In the October Listeners Notebook, *RPD2 Buol* was reported on 2 similar but different frequencies, one I'm sure is a typo: 3232.5 or 3632.2, which is the correct one?" I believe the former, but I wouldn't bet \$\$\$ on it.—AQ]

**IRAN** *IRIB* Tehran in Arabic to NoAM 0230-0330 on new 6150 kHz (last winter 7100), and 9022 kHz. (AMID-German AGDX Monitoring and Info Service/Bueschel-Germany)

**IRAQ** 4615 Reactivated *Rep. of Iraq R.* @ 0236 Px of Middle Eastern MX w/ M and W anncrs. Plagued by bubble jammer. (13-Sep/Rippel/Jihad DX)

*R. Baghdad Intl*, 7147, noted since Sept. 30th as early as 1753 until 2100\* The signal and audio vary. Sometimes there's a good signal, others there's noth-

ing, and the audio can be good to telephone quality. The Turkish segment from 1800-2000 provides the best reception; ARO QRM. (Bob Hill)

**ITALY** Winter 1995 frequency schedule for **IRRS-Shortwave**:

0600-0830	3985
0830-1530	7125
1530-2100	3985
2100-2300	3950 Fr-Su

All transmissions USB -6 dB reduced carrier AM compatible (Boschetti-IRRS)

**European Christian Radio** 6230 rather than listed 6220, from 1925 with many IS's and English IDs giving the Brunn, Austria mailing address. S/on at 1930 in Italian. Weak with military SSB QRM. (15-Oct/Hill)

7300L **R. Europe**, Pioltello, currently operates at 0730-1430 on Saturdays and Sundays only. The programming includes a Spanish-language DX-program titled "Con Frecuencia" made in Argentina. Information provided in a letter dated Sept. 5th by Dario Monferini, who is in charge of foreign relations at the station. (Makelainen/Jihad DX)

**JAPAN NHK** Shobukuki Relay Station (t) 3607.5U @0945 Noted but very weak (04-Oct/Trummel-MO). NHK Mihara Relay Station (t) 3373.5U @1018 audible about 10 Minutes, tough in 3375 slop (05-Oct/Trummel-MO). NHK Kasuga Relay Station (t) 3259.0U @0912 Weak with pops from time to time (07-Oct/Trummel-MO)

**JORDAN** Arabic program observed on 7130 kHz around 2100 til close @2329\*. No ID monitored. Assumed **Jordan Radio** Amman (tet.). Unclean signal, 120 kHz wide. (Bueschel-Germany)

**KOREA (SOUTH)** **Radio Korea Int'l** changes via **BBC** Skelton-GB relay:

0700-0800	Korean	7105 (ex-9510)
1700-1800	Russian	7120 (ex-9715, ex-1900-2000)
2000-2030	English	3970 (ex-5965, new time)
2030-2130	French	6090 (ex-5965)
2130-2230	German	3970 (ex-5965)

For 1600-1700 English direct from Seoul, 6480 replaced by new 7550 kHz. (R. Korea SW Feedback/Bueschel-Germany)

**LAOS Lao National Radio**, Luang Prabang (t) 7162.1 @1215 W in Lang, nice carrier but modulation was weak, bad ham QRM, seemed to be playing western pop after 1230, a move from 7154/6970?, peaked @1240 & then into the noise, Poor (09-Oct/Trummel-MO)

**LIBYA** An Arabic-language station calling itself "Sabha Local Radio" (Arabic: *Idha'at Sabha al-*

*Mahalliyah*) was intercepted in progress at 0905 on 23rd September, broadcasting on 11815 kHz short-wave. Sabha is a desert town in the interior of Libya, about 400 miles south-southeast of Tripoli. It was the birthplace of the 1969 revolution that brought Col Qadhafi to power. On 28th and 30th September it was confirmed as signing on at around 0745 (BBCM)

**MADAGASCAR Radio Madagasikara**, 3287.82 @ 0259 usual IS, then Malagasy W, fair but 3290 splattered. (08-Oct/Crawford/Jihad DX #54)

**MALAYSIA Radio Malaysia Sibn** (t) 6050 at 1010, presumed Iban language, good signal for listed 10 kW (22-Sep/Trummel-MO). Radio Malaysia Kuching 7160 at 1020, level about the same or slightly better than 6050 kHz, Also 10 kW (22-Sep/Trummel-MO).

**MALI RTV Malienne** appears to be bouncing back and forth between 4772.4 and 4783v, // 4835. (Hill-MA + others)

**MONGOLIA Radio Ulaan Bator** external schedule thru March 26, 1996:

0300-0330	English	9960 12000
0910-0940	English	9960 12000
0945-1015	Russian	9960 12085 Su/Mo/Tu/Th/Fr
1020-1050	Mongolian	9960 12085
1050-1120	Chinese	9960 12085
1120-1150	Japanese	9960 12085
1200-1230	Japanese	12085 Su
1250-1320	Mongolian	7530 9950
1330-1400	Chinese	7530 9950
1410-1440	Russian	7530 9950 Su/Tu/We/Fr/Sa
1445-1515	English	7530 9950
1700-1730	Russian	4080 7530 Su/Mo/We/Th/Sa
1930-2000	English	4080 7530

(Michael Bethge/WWDXC)

**NEW ZEALAND ZXLX** 5960 is no longer using this freq, now in use by **RNZI**. (Cushen/DXPL/Johnson/Jihad #52)

**NORTHERN MARIANAS ISLANDS** Updated sked for **Monitor Radio International (KHBI)**:

0800-0900	15665 13615
0900-1000	9430 13615
1000-1100	13625 9430
1100-1300	9355 9430
1300-1400	9355 13625
1400-2000	9355
2100-2200	13840
2200-2300	13840 9430
2300-2400	13625 9430

(10-Oct/C. Ed Evans/WSHB)

**PAKISTAN** *Pakistan Broadcasting Corporation*  
Frequency Schedule, frequencies seemingly never quite spot on:

0030-0130	Hindi	7290K 9516K
0045-0215	Urdu	17705 21730
0100-0200	Mitali/ Bangla	9515 12015
0230-0245	EE slow speed nx	7290 15190K 17705 17725K 21730
0315-0415	Gujarati	17855K
0330-0430	Irani	9785 11710
0430-0630	Urdu	11570 15690 17558
0645-0745	Swahili	17855K
0700-0800	Burmese	17540K 21476K
0800-1120	Urdu	15625 17900 (EE slow speed nx 1103-1120) 17540K 21476K
0900-1000	Bahasa Indonesia	
1030-1130	Tamil	13665K 15515K
1200-1300	Hindi	9790K 13665K
1200-1400	Mitali/ Bangla	11935 15625
1330-1530	Urdu	9485 11570 13590K 15675K
1430-1530	Turki	5055 5920
1600-1630	EE slow speed nx	7425K 9485 11570 11710 13590K 15555
1700-1800	Turkish	6290K 7425K
1700-1900	Arabic	7395 9400
1700-1900	Urdu	7295 11570
1800-1900	Urdu	6120
1930-2030	French	9400 11570

K = indicates via Karachi 50 kW, others Islamabad 100/250 kW. (R. Pakistan/Schaay/Bueschel-Germany)

**PALAU KHBN** Palau observed testing at present on 9965 kHz at 0730, also observed on 9735 and 9985 kHz. (Cushen/RNMN/Bueschel-Germany)

**PAPUA NEW GUINEA** 2410 *R.Enga*, Wabag is off-air. 3290, 3325 and 3335 remain as long-time inactive stations. 3345 was noted off prior to 15-Sep when it was noted active. 3305 and 3395 remain irregular but have been on-air more often than not. (Martin/Jihad DX)

3355.0 *R. Sibü* (p) @1049 w/ talks by M in Pidgin. (27-Sep/Rippel/Jihad DX #53)

3384.98 *R. East New Britain* @1056 ID by M @1100 into US pops. (23-Sep/Rippel/Jihad DX #53)

3395.0 *R. Eastern Highlands* @1108 w/Island mx. W DJ in Pidgin. (23-Sep/Rippel/Jihad DX #53)

3365 *R. Milne Bay* @1130 Usual PNG format w/ M ancr and US pops. (23-Sep/Rippel/Jihad DX #53)

*Karai National Service* 9675 @0715-EE Svc still going past 0745 (12-Oct/Trummel-MO)

**PERU**

4000.08	<i>LV de la Amistad</i> , Trujillo 0310 w/IDs mentioning 75 meters, shortwave, so this freq must be intentional after all. (26-Sep/McVicar/Jihad #52)
4183.02	<i>R. San Ignacio</i> 0148-0302 Blocks of OA pops/campos w/occas. live M ancr. (27-Sep/Valko/Jihad DX #53)
4620.38	UNID Definitely not <i>Radio San Ignacio</i> ; 0244 vocals with a drift transmitter. Never could catch an ID with anthem at 0306. Perhaps this is <i>R. Cosmos de Celendin</i> drifting down from 4627. (27-Sep/Johnson/Jihad DX #53)
4781.27	<i>Radio Satellite</i> at 0300, no signal on usual 6726.5. (Elbe/Bueschel-BCDX/Jihad DX)
5766.65	<i>Estacion Soritor</i> 1213 with boleros, echo IDs over pop mx (22-Sep/McVicar/Jihad #52)
6188.09	<i>R. Oriente</i> , *0950-1016, OC then s/on w/nonstop folk mx (including some great Huaynos), choral NA 0959-1002, s/on amts. (20-Sep/Valko/Jihad DX)
6420.1	<i>Radio Imperial</i> (t) @1135-1145+ (17-Oct/Trummel-MO)
6471.6	<i>Radio Luz y Sonido</i> @1040 Andean music, lengthy ID (17-Oct/Trummel-MO)
6498.8	<i>Estacion C</i> @1130 severe ute QRM (17-Oct/Trummel-MO)
6536.0	<i>Radio Huancabamba</i> (t) @1102 very poor (17-Oct/Trummel-MO)
6627.6	<i>LV de San Antonio</i> (t) 0136-M ancr, pop music, fair signal for listed 500 Watts (02-Oct/Trummel-MO)
6895.34	<i>R. Sensacion</i> , 1047-1057, Lively OA mx, canned IDs, NA @1057. (30-Sep/Valko/Jihad DX #53)
9720.5	<i>Radio Victoria</i> LA mx, ID 0329 " <i>Radio Victoria Lima, atencion Peru!</i> " Weak but clear using USB. (14-Sep/George/Jihad DX#52)

**PHILIPPINES** Here's a more complete *Radio Veritas Asia* sked than I could rustle up last month:

0000-0025	Karen	9535
0000-0025	Sinhalese	9670
0030-0055	Kachin	9535
0030-0055	Tamil	11820
0100-0125	Bengali	15335
0100-0125	Telugu	15530
0130-0155	Hindi	15335
0130-0225	Vietnamese	15530
0200-0225	Urdu	15335
1000-1025	Hmong	9555
1000-1055	Chinese	9520
1030-1125	Russian	15130
1100-1125	Vietnamese	11850
1130-1155	Burmese	9670
1130-1155	Chinese	9660
1200-1225	Indonesian	9505

1200-1225	Karen	9670
1230-1255	Filipino	9505
1230-1255	Kachin	9670
1300-1325	Vietnamese	11770 7265
1330-1355	Hindi	9555
1330-1355	Sinhalese	9660
1400-1425	Bengali	9555
1400-1425	Tamil	9520
1430-1455	Telugu	9520
1430-1525	Chinese	6020
1500-1525	Filipino	11715
1525-1555	Filipino	11715SuWeSa
1530-1555	Urdu	9670
2100-2255	Chinese	6190
2130-2225	Russian	9560
2230-2255	Chinese	7105
2300-2325	Indonesian	11820 9505
2330-2355	Burmese	7235 7120
2330-2355	Vietnamese	9535

(BBCM)

**PORTUGAL** *The Voice of East Timor* via *Radio Portugal International* 17595 1000-1200, Radio Portugal International broadcasts daily to the former colony of East Timor, in Indonesia. The program that airs from Portugal is actually from the Fretilin Resistance movement, a group composed of Timorese citizens who opposed Indonesia's rule. The show features news in both Portuguese and Tetum, which is the lingua franca in Timor. (Portuguese is vehemently forbidden by the Indonesian authorities). (Paulo Texeira-DC/Jihad DX #53/08-Oct/Padula/ARDXC "NewsPlus")

**RDP** Lisbon to NAM 2200-0300 replaced 6175 with 6095 kHz, English Mo-Fr 0230-0300. Clashes with Vatican Radio here. Lisbon producing strong spur on 12160 kHz (2 x 6130 kHz), Mo-Fr 0500-1300, Sa/Su 0700-2000. (Bueschel-Germany)

**QATAR QBS**-Doha, 7210.1, heard here on this new unlisted frequency from 0245 sign on and in the afternoons until 2125 s/off. In Arabic with fairly good signals, but there is QRM from the BBC-NHK relay from 2000-2100. (Hill-MA) On 26th September QBS was observed to be using two shortwave frequencies simultaneously: at 1235-1305 on 9570 and 15265.2 kHz, and from 1305 on 9570 and 15265 kHz. Qatar has not used two shortwave transmitters simultaneously since the mid-1980s. (BBCM)

**ROMANIA** Following up last month's mystery, which is still being heard: It now seems likely that it is a non-broadcast operation, which nevertheless carries material broadcast by *Radio Romania*. The station is now using two frequencies, although not simultaneously. The new channel is 14814U was heard signing off at 1358 with the announcement "*Aici Morgana receptie*" ("*This is Morgana receiving*"). 14201.5U noted around 0600-0700. Amongst the material carried by the station has been what

appears to be a recording of the "*Army Hour*" (Romanian: "*Ora Armatei*") program broadcast by the Romania-Actualitati service (the first domestic network of state-run Radio Romania). However, most of the time only continuous Romanian folk music is played, interrupted occasionally by a tone. (BBCM)

**SAINT HELENA** Did you miss something last month? In case you'd forgotten, *Radio Saint Helena* did not conduct their "annual" transmission this year. Look for them on October 25, 1996. (DSWCI/OZDX/08-Oct/Padula/ARDXC "NewsPlus")

**SLOVAKIA** *Radio Slovakia International* winter frequency schedule, until March 31, 1996:

0100-0230	EE/Slovak/FF	5930 7300 9440
0800-0830	German	6055 7300
0830-0930	Ee/Slovak	11990 17485 21705
1400-1430	Russian	9440 11990 13715
1630-1700	Slovak	7210
1700-1730	French	5915 6055 7345
1730-1830	Slovak	5915 6055 7345
1830-1900	Russian	5915 7150 9485
1900-2100	GG/EE/Slovak/FF	5915 6055 7345

(Schaay/Bueschel-Germany)

*AWR DX Program* in English observed on Sats(!) at 1725 on 9475 kHz via 250 kW st Rimavska Sobota. AWR ID, Hong Kong addr, AWR IS, 1757\*. (07-Oct/George/Jihad DX/Bueschel-Germany)

**SOUTH AFRICA** Former ANC clandestine *Radio Freedom* was granted a special-event licence by South Africa's Independent Broadcasting Authority. It broadcast 24 hours a day for the two weeks from 21 September through 5 October. (BBCM) Probably on FM. Brings back memories of them nightly on 5015 khz-AQ

**SPAIN REE** Madrid winter schedule changes:

0900-2000		9620 Su
1200-1600		9620 Mo-Fr
1600-1700		15210 (new)
1700-2100		9620 Sa
1900-2000	French	6130 (ex-9875)
1900-2400		11880 (ex-15110)
2000-2200	Arabic	6130 (ex-9875)
2200-2300	English	11775 kHz (ex-9675)
2200-2300	Spanish	6130 (ex-9875)

(REE Madrid/Schaay/Volk-Germany)

**SUDAN R. Omdurman**, noted on new 9024v at 1800 with 6 pips, ID for EE service of *Sudan National Radio*-Khartoum, announcing freqs. of 9200 and 576 MW. On 8 October it had shifted to 9025, not a good choice with Teheran on 9022 kHz. (Hill-MA)

**SURINAM R. Apintie** 4990.95 @ 0245-0400\* continuous US light pops, s/off anmts by M w/mentions of their FM stereo outlet. Anthem followed by "beat of the Apintie drum" IS as noted in WRTH. (Rippel-VA) Likely a new transmitter.—AQ

**SWITZERLAND SRI** Berne on out-of-band frequencies 5850 and 7510, both at 1700-1845. (Bueschel-Germany)

**TANZANIA** Presumed *Radio Tanzania* noted on 7165 between 0330-0430. (02-Oct/Durkin-NC)

For Tanzania's election period, **SENTECH** South Africa (site of *Channel Africa*) is relaying *Radio Tanzania's* Swahili programming on shortwave. Sked:

0300-0455	7290
0900-1100	15435
1300-1525	15435
1530-1655	7280
1800-2115	7280

Relay will last through early December. (4-Oct/BBCM) This is being widely reported; hear it now while you can.—AQ

**THAILAND R. Thailand**, Bangkok has replaced 7255 with 7285 at 1100-1130, in Vietnamese and Cambodian. In English at 1900-2000 to Europe on new 7295 kHz (ex-7200). (Cushen/RNMN/Bueschel-Germany)

**TURKEY TRT-Voice of Turkey** has brought five new 500kW transmitters online from a site in Emirler. Here's the revised sked (toss out last month's...) good thru 31 March:

0000-2400	Turkish	11955 9460
0400-0500	English	7190 9560 9685
0500-1000	Turkish	11925 15145
0500-2300	Turkish	9560
0800-2200	Turkish	9460
0830-0930	Azerbaijani	11835 9765
0930-1030	Persian	11955 9630
1000-1200	Arabic	11750 9525
1000-1700	Turkish	15350
1030-1130	Serbian	7110
1030-1130	Romanian	5980
1100-1600	Turkish	7150 Fr
1130-1230	Greek	6040 5980
1200-1300	Chinese	11760
1230-1330	Bulgarian	7110
1230-1330	Albanian	7165
1300-1400	Urdu	11900
1330-1430	English	9445 9630
1400-1500	Persian	9525
1400-1500	Russian	9675
1430-1530	German	9445
1500-1600	Azerbaijani	6050
1500-1700	Arabic	11945 9525
1530-1630	Greek	6090
1600-2300	Turkish	5980

1630-1730	Hungarian	6090
1700-1000	Turkish	15385
1700-1800	Bulgarian	5960
1700-2300	Turkish	7255
1800-1900	Russian	9675
1830-1930	German	9445
1900-2000	Bosnian	9685
1930-2030	English	9445
2030-2130	French	9445 9590
2200-0800	Turkish	11725 9445
2300-2400	English	7190 7280 9560

(Klink-DG1EA/Buschel-Germany)

**UGANDA** Uganda's minister of state for information has warned villagers living near the now-defunct HF site at Soroti to stop stealing the station's remaining cables and angle bars. The minister inspected the station and found that some people are continuing to remove property from the station, which was destroyed during the insurgency. He said that the station is a government asset which should not be destroyed, adding that it could be used for FM transmissions in and around Soroti. The site was last heard on the air in 1984. (BBCM)

**USA** Here's what's left of *VOA's* English sked:

0000-0100	11695 9455 6130
0000-0100	13740 9775 7405 5995
0000-0100	17820 17735 15290 15185 11760 9890 7215
0100-0200	13740 9775 9455 7405 6130 5995
0100-0300	21550 17740 15370 15250 11705 9740 7651U 7215 7205 7115
0300-0400	9885 9575 7405 7340 7280 7105 6035
0400-0500	7170 6873U
0400-0430	9885 9630 9575 7405 7340 7280 6110 6035
0430-0500	9885 9630 9575 7405 7280 6035
0500-0600	15205 11825 9700 7170 6873U
0500-0600	9885 9630 7295 6035
0600-0630	15600 12080 11950 9435 7285 6035
0600-0700	15205 11805 7170 6873U
0630-0700	15600 12080 11950 7285 6035 Sa/Su
1000-1100	9590 7405 6165
1000-1100	15425 11720 5985
1100-1200	15425 15160 11720 9760 9645 6110 5985
1100-1200	9590 7405 6165
1200-1230	15425 15160 11715 9760 9645 6110
1230-1330	15425 15160 11715 9760 9645 6110
1330-1400	15425 15160 9760 9645 6110
1400-1500	15425 15160 9760 7215 6110
1400-1800	15395 15205 9770(M-F only fm 1700) 9760 9700(fm 1500) 9645 7215 7125 6110
1500-1530	9760 7215 6110
1500-1700	19379-lsb 15205 9700
1530-1600	9760 7215 6110
1600-1630	17895 15445 15410 15225 13710 12040 11920 3970 Sa/Su
1600-1630	19379L

1630-1700 17895 15445 15410 15225 13710  
12040 11920 3970

1700-1800 15255 12005 11945 9770 9670-(m-f)  
9525-(m-f) 7215 6110 6045-(m-f)  
5990-(m-f)

1700-1800 19379L 15205 9760 6040

1700-1730 17895 15445 15410 13710 12040  
11920

1730-1800 17895 15445 15410 13710 12040  
11920

1800-1900 15580 15410 13710 12040 11920  
4875-(m-f)

1800-1900 19379L 9760 6040

1900-2000 15180 11870 9525

1900-2000 19379L 9760

1900-2000 15580 15410 13710 12040 11920  
7415

2000-2030 17755 17725 15580 15410 13710  
11855 7415

2000-2100 19379L 15205 9760

2030-2100 17755 17725 15580 15410 13710  
7415

2100-2200 17735 15185 11870

2100-2200 19379L 18275U 15205 9760 9595  
6070

2100-2130 17725 15580 15410 13710 7415

2130-2200 17725 15580 15410 13710 7415 Su-Fr

2200-2230 13710 12080 7415 Mo-Fr

2200-0000 17820 17735 15305 15290 15185  
11760 9890 9770 7215

2200-0000 18275U  
(BBCM)

The *Voice of America* announced on 9/22 that they are discontinuing Shortwave broadcasts to Europe. They said that due to budget cuts and most Europeans can hear the VOA via MW anyway were the reasons for the haul in broadcasts. (Fleming/INTERNET/Jihad #52) SW pxs in Bulgarian, Latvian, Polish and Czech were also to be terminated. Radio Liberty/Radio Free Europe was also to cancel some SW services. The cuts were due to budget constraints. Savings were being made by reducing SW txions rather than cutting personnel. Pxs will continue on MW and/or affiliates. Station advised that research indicated that there are insufficient listeners to VOA on SW in Europe. SW services remain on air for the ME and North Africa. SW services continue in Albanian, Croatian, Hungarian, Romanian, Russian, Serbian and Slovak. (VOA Communications World/BBCM/08-Oct/Padula/ARDXC "NewsPlus")

...and despite drastic budget cuts, this continues:

**Radio Marti** shortwave sked:

0000-0100 9815 7365 6010  
0100-0200 7365 6010  
0200-0300 7365 6030  
0300-0400 7365 6030 Tu-Su  
0400-0900 6030 Tu-Su  
0900-1200 6030  
1200-1400 9565

1400-1600 13820 11930 11815 11740  
1600-1700 11930 11815 11740 9825  
1700-2000 13820 11930 9825  
2200-2300 15330 13820 11930 9815  
2300-2400 15330 13820 9815 6010  
(BBCM)

As read by Hauser, *WEWN* North American sked seems to contradict that printed here last month:

2000-1300 7425  
1300-1600 11875  
1400-1600 9495  
1600-2000 11580  
1600-0000 15615

(06-Oct/Hauser/WoR) I can't count. Last month I said *WEWN* is down to two languages, when anyone could plainly see English, Spanish and Portuguese.—AQ

*WGTV* began regular programming on September 29. Dave Frantz advises the schedule is Friday, Saturday, and Sunday 1200-2100 and 0100-0600 all on 94.75, beamed at 250 degrees toward Mexico. Full-time programming is expected to begin within six months. On 30/9, the signal has been very stable in the morning in New Jersey. (Sundstrom/Jihad DX #53/08-Oct/Padula/ARDXC "NewsPlus")

*Monitor Radio International (WSHB)* sked effective 07-November thru 26-March:

0000-0100 9430 7535  
0100-0200 7535 9430  
0200-0300 5850 9430  
0300-0400 5850 7535  
0400-0500 7535 9840  
0500-0900 7535  
0900-1000 7535 7395  
1000-1200 6095 7395  
1200-1400 6095 9455  
1500-1800 21640  
1800-1900 9370 21640  
1900-2000 9370 17510  
2000-2200 7510 11645  
2200-2400 7510 13770

(C.Ed Evans/WSHB)

**WVHA** schedule:

0030-0200 7465  
1300-1500 11580  
1500-1700 15665  
1515-2000 15665  
2000-2200 9930  
2330-0130 9850

Addr: WVHA Greenbush, Towers Road, P.O.Box A, Olamon MA 34467, U.S.A. WVHA broadcasts not daily. (06-Oct/Hauser/WoR/Bueschel-Germany)

**WYFR Family Radio** winter sked:

0000-0100 English 6085  
0000-0100 Hindi 11550  
0000-0100 Spanish 9715

0100-0200	Portuguese	11885 9745
0100-0200	Spanish	9605
0100-0300	Spanish	5985 9985
0100-0500	English	6065 9505
0100-0500	Spanish	9715 11855
0300-0400	German	9985
0300-0400	Russian	6130 9355
0300-0500	Spanish	5985
0400-0500	English	9355
0400-0500	German	7355
0400-0500	Portuguese	11580
0400-0500	Russian	9985
0500-0600	Arabic	9455 15170
0500-0600	English	9885
0500-0600	German	7355 9355
0500-0600	Spanish	9705 11855
0500-0700	English	5985
0600-0700	French	9355 9985 11580
0600-0700	Italian	7520
0600-0800	English	7355 9680 9985
0700-0800	Italian	7520 9355
0800-0900	Portuguese	6175 9605
0800-1000	Spanish	6105 9555
0900-1000	Portuguese	6175 9605 9575 9680
1000-1100	English	5950
1000-1100	French	9860 11740
1000-1100	Spanish	6105 9555 9575
1000-1300	Spanish	6085 11740
1100-1200	English	5950 7355
1100-1200	Spanish	9575 11830
1100-1200	Spanish	9605 11725
1100-1300	French	13695
1102-1605	Mandarin	5275 9280
1200-1300	English	5950 7355 11830 11970
1200-1300	Spanish	9575 9605 11725
1300-1400	English	5950 9705 11830 13695 11970
1300-1400	Spanish	6085 11725 15130 15355
1302-1502	English	11550
1400-1500	English	9705 11830 17760
1400-1500	Spanish	15130
1500-1600	English	11830 15215 17760
1502-1602	Hindi	11550
1505-1705	Russian	9955
1600-1700	Arabic	15695
1600-1700	English	15566 21745 21525
1700-1800	Arabic	21525
1700-1800	German	15695
1700-1800	Russian	17735 21720
1700-1900	English	15566 17760
1800-1900	French	17735 21720 21525
1800-1900	Italian	15695
1900-2000	English	17760
1900-2000	German	5825 15566
1900-2000	Portuguese	21525
2000-2100	English	7355 15566 21525
2000-2100	French	5825
2100-2200	English	7355 11580 15566
2100-2200	italian	5890
2100-2200	Mandarin	6300 9280
2200-0100	Spanish	5985

2200-2300	English	11580 15566
2200-2300	Mandarin	6300 9280 9465
2200-2300	Portuguese	15130
2200-2300	Spanish	7355
2300-0000	French	6085
2300-0000	Mandarin	6300 9465 11550
2300-0100	French	15400
2300-0100	Portuguese	11885
2300-0100	Spanish	15170 15215 17845

(06-Oct/Vlasov-Russia/Ageenkov-Russia)

Hauser's "World of Radio" via **WWCR**:

Friday	2115	9475
Saturday	1030	5065
Saturday	1300	15685
Sunday	0600	7435
Sunday	0700	7435 (soon 0800 on 3315)
Sunday	0930	5065
Tuesday	1230	15685

(08-Oct/Thurman)

**VATICAN CITY** *Vatican Radio* in English 1600-1620 observed on new 9940 kHz (ex-9500). SoAS block 1500-1620. At 1230-1500 observed on 11625 & 15585 kHz to SoEaAS, English at 1345-1415.(Southwell/Bueschel-Germany) Now using 4015 and 4005 simultaneously for evening services to Europe. 4015 noted with First Program with Italian rx 2005. Second Program on 4015 with Norwegian at 2005, parallel 6185. (03-Oct/Padula/Jihad DX #53)

**VIETNAM** Follow up to 51 re 5036 Hanoi, it's been on 1147 & 1154 when I've checked the past two evenings, and it is //6166.6 though that freq is weak. Maybe its 'official' s/on is \*1200 but it sometimes is on a bit earlier. (Martn/Jihad #52)

Asian block of **VoV** Hanoi on 7283.3 and v9728...9730 kHz observed at 1100 in English. Scheduled 1100-1530 in E Thai Camb Lao R Camb Lao Cant Ch. (Cushen/RNMN/Bueschel-Germany)

**YUGOSLAVIA** *Radio Yugoslavia* is negotiating agreements with *China Radio International* and *Radio Bulgaria* for reciprocal relay facilities. The Chinese relay would enhance reception in Australia and the Far East. (BBCM/08-Oct/Padula/ARDXC "NewsPlus")

**Radio Yugoslavia** World Service until March 3rd, 1996:

0000-0030	Spanish	9720 9620
0030-0100	Serbian	7115 6195
0100-0130	English	7115 6195 Mo-Sa
0100-0130	Serbian	7115 6195
0130-0200	Serbian	7115 6195
0200-0230	English	7115 6100
1330-1400	English	11835
1400-1430	Serbian	11835 7200
1530-1600	Arabic	15175 11800

1600-1630	Russian	11755 6100
1700-1730	French	11800 9620
1730-1800	German	6100
1800-1815	Albanian	6100 Mo-Fr
1815-1830	Bulgarian	6100 Mo-Fr
1830-1845	Hungarian	6100 Mo-Fr
1845-1900	Greek	6100 Mo-Fr
1900-1930	Russian	7165 6100
1930-2000	English	9720 6100
2000-2030	Spanish	7220
2030-2100	Serbian	9595 6100
2100-2130	German	6100 Su-Fr
2100-2130	Serbian	9595 6100 Sa
2130-2200	French	6100
2200-2230	English	6185 6100

(BBCM)

**ZAIRE** 9829.0-0805-Was calibrating my dial to measure Kiribati on 9825 when I stumbled on this, very weak most of the time and it isn't coming from my computer/monitor, I thought it might be 2x 4914.5 but there wasn't anything there, a verry long shot is 3x 3276 Bukavu, Zaire operating at this time but way past their sunrise to verify the fundamental, the 2nd Harmonic of this frequency was reported back in Jihad#15, gone by 0823 when I got done messing about in the tropical bands. (29-Sep/Trummet-MO) BBCM sez *Voix du Zaire* in Kinshasa has again disappeared from shortwave. It was recently spotted on 15244, but not heard there since 13 September. (BBCM)

**UNIDENTIFIED** 5264.59 kHz "Radio Hit", possibly from Peru or Mexico; 0031 UTC with pop mx, ads. One was for "*Cervesa San Juan*." Henrik Klemetz lists this beer as Peruvian in *Latin America by Radio*. "Via satellite" mentioned. A couple of mentions of Mexico, where there are a number of "Radio Hits" listed in the WRTH, but none on nominals of 5265, if this is a harmonic. North American pop hits as well as LAM pops. Suddenly off at 0120 UTC. (28-Sep/McVicar-EQA)


7170.1 Since 10-8 noted African at 1930 when Tiana vacates channel. Programming consists of guitar mx, exotic wailing with weird drums. Talks by M

in French until s/off at 2000. Thought I heard him say "television". Nothing listed in WRTVH and Passport. Possibilities are Senegal, Madagascar or possibly the (wishful thinking) The Comoros? (Bob Hill-MA)

**IF A TEST FALLS IN THE FOREST, DOES ANYONE HEAR IT?** Per E-mail contact with them, *Radio Caroline Dublin* says they haven't yet heard from anyone who heard their test last month, disappointing because they set up a second xmtr for south county Dublin, 300 watts on 6250 Khz. But so far no reports on either frequency. Bobby Gibson logged 11 hours live on the air for this test and lost his entire Sunday, "but thats why I love radio." (Berg)

**MISCELLANEOUS** From *USPS Intl Postal Rates & Fees*, July 1995 (Publ. 51): "Small packets is a class of mail for gifts, merchandise, commercial samples, or documents that do not have the character of current and personal correspondence. This class is also used for sending audio and video tapes of any kind, ADP cards, magnetic tapes, and QSL cards." Interesting—I wonder how many USPS personnel could tell you what a QSL-card is. Presumably they mean ham QSL's sent in bulk? Also of importance: Special Handling must be used when mailing honeybees to Canada. (16-Oct/Berg)

**CORRECTION** Regular (and some irregular) readers to this column know that ye olde editor takes extraordinary pains to credit all items to their sources. Now and then, though, items arrive after bouncing around cyberspace, and the origin gets lost in the process. This is what appears to have happened to an item in last month's column (4750.1 *Radio San Francisco Solano*), credited to HCJB's Rich McVicar. Rich emails, "Henrik Klemetz in Bogota was the fellow who positively ID'd this station and dug the address out. I gave him full credit in the original log sent to Anker [Petersen, DSWCI]. I'd be grateful if you could make a correction next month." So, belated thanks to Henrik Klemetz for the item!

—AQ 

**FOR SALE:** Radio stuff sale! Books, magazines, club bulletins, other publications, station memorabilia, etc. Eight to ten-page list for an SASE with two stamps. G. Dexter, 213 Forest Street, Lake Geneva, WI 53147.

**NOTICE:** Precision performance-based alignment for your DRAKE R8! Improves SYNC performance, centers PBT/ and filters in optimized passband, etc. My techniques have a proven performance track record with other prominent DX'ers using this fine receiver. Realize the full performance of your Drake R8. Inquiries to Chuck Rippel, 2341 Herring Ditch Road, Chesapeake, VA 23323-6419. Phone (804) 485-9660. E-mail [crippel@exis.net](mailto:crippel@exis.net)

# Pirate Radio Report

Chris Lobdell

P.O. Box 146  
Stoneham, MA 02180-0146  
CompuServe 75720.253  
Internet: piradio@usa1.com

Hello and welcome to another PIRATE RADIO REPORT. My deadline is too early to give you any Halloween logs, but we'll cover them in depth next month. Also please note my new internet address: piradio@usa1.com.

## Don't You Believe Dept

That KDED is dead. Reliable sources have told me that this Grateful Dead station is still in business and will be making more transmissions in the future. That's good news. That the VOICE OF SCOTLAND actually transmitted from Europe! Despite some information in other publications I can safely state that these transmissions originated from North America. So don't believe otherwise!

## Station Profile—Caribbean Sound System

This month we are pleased to bring you the following, submitted by CSS head honcho, Count Whip:

"A pirate station broadcasting from a ship at sea? Hardly an original idea, right? OK then, how about a pirate station broadcasting from a luxury cruise ship? That's what CARIBBEAN SOUND SYSTEM'S Count Whip claims to be doing. Count Whip was a semi-famous DJ in Jamaica in the 60's and 70's before landing this gig as a cruise director on an unnamed passenger liner. CSS features a variety of Ska music artists from the present all the way back thru the 60's. The first two shows were relayed by the NAPRS. The second show featured some NASWA big wigs on board, including Don Jensen sing the NASWA countries list! CSS now has it's own transmitter so keep checking those pirate

bands and one night soon you just might hear the "Whole Lotta Love Boat Theme". If you do, you know you've got the CARIBBEAN SOUND SYSTEM! Write to us at Box 146, Stoneham, MA 02180 and be sure to include 3 units of first class postage for a QSL. We QSL each show with a different design."

Thanks to Count Whip for that excellent profile. Next month we hope to bring you one on PIRATE RADIO BOSTON.


## Pirate Bandscan

The pirate bands have seen only a moderate amount of activity this month. We do have some logs to report. Jill Dybka of TN reports in with a log of BULLFROG RADIO heard on October 1st at 0200 UTC with a good signal on 6955 kHz. FRIDAY RADIO is a new station heard by both Mary Jo Ondrechen and John Fisher in MA. They were heard on October 14th around 0000 UTC with Led Zeppelin music announcing the Providence, RI mail drop. Mary Jo also heard the oldies station KTLA on October 1st at 2130 UTC on 6955 kHz.

Most of the activity continues to be heard on 6955 kHz. Start checking 7415 kHz after 1400 Sunday because Wewn has vacated 7425 kHz at that time, leaving the area splatter free.

## Free Radio Weekly

That's the name of my weekly pirate email only newsletter. You must contribute to it to receive it. The deadline for each week is Friday at 0000 UTC. Send your contributions to: piradio@usa1.com.

Until next month, happy Pirate Hunting! 

# QSL Reports

Sam Barto  
47 Prospect Place  
Bristol, CT 06010



**ALBANIA:** Trans World Radio 11635 via Tirana  
\* f/d cd. w/ personal ltr. in 7 wks. v/s  
Joann Cooper, Communications Dept. (Field-  
**ARMENIA:** Voice of the Martyrs 9480 via MI)  
Radio Intercontinental in GM in 4½ mo.  
for a taped rpt. This appears to be the

same organization that used to  
transmit in the 70s over  
**Radio Trans Europe** as  
**Radio Stephanusbotschaft**  
(Berg-MA). Lutherische Stun-  
nde 15270 via Radio Inter-  
continental yellow paper cd  
w/ waves and globe in 1 mo.  
for a taped rpt. Addr: Post  
fach 1162, D-27363 Sottrum,  
Germany. (Berg-MA).



**Deutsche Welle**  
radio & tv international

**ASCENSTON ISLAND:** Radio  
Japan 17880 f/d cd. in 1  
mo. v/s H. Kawamoto.  
(Field-MI).

**AUSTRALIA:** Radio Australia  
9645 via Carnarvon f/d  
"ABC South Bank Centre"  
cd. w/ sticker and schedule in 156 ds. v/s Dan Gordon. (Humenyk-ONT).

**AUSTRIA:** Radio Canada International 15275 r/d "50th  
\* Anniversary" cd. in 50 ds. (Humenyk). OEIM nice  
red, white and purple "dual" QSL for rpt. of ORF

International Marconi Day ARO station w/ ORF program in 1 mo. (Berg).  
**BOLIVIA:** Radio Libertad and Radio Universo 5005 f/d 2 page personal ltr.  
\* in 1 yr. for a SP rpt. Rcvd. calendar, sticker and station pennant.  
v/s Teresa Saniles Lora, Gerente. (Field-MI).

**BRASIL:** Radio Cancao Nova 9675 f/d prepared cd. w/ postcard and form ltr.  
and a station slinger in 210 ds. for a PT rpt., tape and \$1.00. (Klin-  
ck).



**CANADA:** CHNX f/d ltr. in 9 ds.  
for \$2.00 (Canadian). 40 watts. v/s  
Kurt J. Arseneault, Chief Engineer. (Ond-  
rechen-MA). Radio Canada International  
11985, 13650, 13670, 15150 and 15325 f/d  
"50th Anniversary" cd. in 62 ds. w/  
stickers. (Humenyk-ONT).

**CLANDESTINE:** Democratic Voice of Burma  
11850 via Kvitsoy f/d folding cd. in 46  
ds. v/s Maung Maung Myint. (D'Angelo-PA).

**COLOMBIA:** Radio Nacional de Colombia 4955  
p/d cd. in 71 ds. for a SP rpt. (D'Angelo-  
elo). La Voz del Llano 6116 f/d prepared  
cd. in 35 ds. for \$1.00. v/s Antonio Ja-  
uregui Bautista. (Paszkiwicz).

**COSTA RICA:** TIFC 5055 Faro del Caribe f/d  
cd. w/ ltr., pennant, bible and book in  
39 ds. for a SP rpt. and \$1.00. Almost  
everything arrived mangles by the USPS.

**CROATIA:** Hrvatska Radio 5895 (Dybka-TN).  
f/d ltr. in 38 ds. after a f/up rpt.

**CUBA:** Radio Rebelde (Ondrechen-MA).  
5025 p/d cd. in 286 ds. for 1 IRC. (Pa-  
pas-SD).

**C.P. 65 RADIO DRURO**

1.230 KHZ. ONDA MEDIA

NUEVA IMAGEN EN SINTONIA



PROD RADIO Y TV  
90' DE MUSICA, AMENIDAD & INFORMES  
DE ACTUALIDAD.

Locución: ANTONIO LIZARAZU C.  
Control de audio: OSCAR ZORRILLA R.  
Musicalización: ANA M. MOYA A.

1990



via Pasquale / Dybka

# RADIO CORA

**ECUADOR: La Voz de los Caras HCAS4**

\* 4795 p/d ltr. w/ f/d prepared cd. in 39 ds. for a SP rpt., ms and \$1.00 for an 83 reception. This was after 6 f/up rpts. v/s Marcelo A. Nevarez F. Ing. Sonido Director. (Palmer'sheim).

**ETHIOPIA: Radio Pana** 9335 f/d cd.

\* w/ ltr. and a signed and stamped

**OFFER: Sonny Mark Ashimori** of 11-14 Kawazoe-cho, Nishinomiya City, Hyogo, 662 JAPAN Several years ago this individual assisted many DXers in getting reports through to **Radio Pyongyang**. He was very successful in his attempts. He has asked me note in the QSL Column that he is still active in this area. If you are having any kind of problems getting a QSL from North Korea, send your reception report to Sonny. He requests a minimum of \$2.00 per report to cover postage costs...Thank you..Sam.

## THE FREE HOPE EXPERIENCE

TO @Lundell  
WE ARE HAPPY TO INVITE YOU THAT YOUR INFO IS CORRECT. THAT YOURS AND WE'RE WITH YOU LIVE UP HERE...

July 12, 1995  
207-001 v/c  
1253 001



prepared cd. in 73 ds. for \$1.00. v/s Mesfin Alemayehu, Head of External Relations Dept. (D'Ang-EUROPEAN RUSSIA: **Voice of Russia** 12065 elo-PA). via **Saint Petersburg** f/d "GPR-2" cd. in 104 ds. for 2 IRCs. v/s Mikhail Timofeyev. (D-Angelo-PA)

**FRENCH GUIANA: Radio France International** 15190 f/d "Eiffel Tower" cd. in 127 ds. (Humenyk-ONT).

**GERMANY: Radio Canada International** 11835 via **Werta** ahtal f/d cd. w/ pennant and sticker in 1 mo.

**GUAM: KSDA** 9530 f/d cd. w/ schedule in 2(Field-MI). wks. (Field-MI).

**HONDURAS: Radio Albatross International** 15675 via **Radio Copan International** cd. w/ info sheets in 16 ds. (Stephens-AL).

**HUNGARY: Radio Budapest** 6010 f/d cd. in 78 ds. w/ schedule. (Palmer'sheim). 11910 via **Jaszbereny**

f/d "5 photos of Budapest" cd. in 56 ds. (Humenyk-ONT).

**KIRIBATI: Radio Kiribati** 9825 f/d paper cd. in 2½ mo. for a taped rpt. and \$2.00. (Rausch-NJ).

**LITHUANIA: Radio Vilnius** 9710 f/d cd. in 1½ mo. (Rausch-NJ).

**NICARAGUA: Radio Miscut** 5770 f/d personal ltr. w/ prepared cd. in 216 ds. for a SP rpt., tape and \$1.00. v/s Evaristo Mercado Perez, Director. (Klinck-NY).

**NIGER: La Voix du Sahel** 5020 f/d cd. w/ note and directors business cd. in 39 ds. for a FR rpt. and \$1.00. v/s Souley Boubacar, Directeur. (Ondrechen-MA).



**R.A.E.** RADIODIFUSION ARGENTINA AL EXTERIOR

C.C. 888 CONEJO CENTRAL - 1000 BUENOS AIRES - REPUBLICA ARGENTINA

Buenos Aires, 20 de Junio de 1995.

Mrs.  
Jill DYBKA  
8832 Hwy 70  
Nashville, TN 37221-5807  
ESTADOS UNIDOS

Estimada oyente:

Por medio de la presente, le agradecemos por su atento informe de recepción, el que estamos confirmando con la tarjeta QSL adjunta.

Le informamos si, que en realidad la emisión por usted escuchada correspondía a LRA1 Radio Nacional de Buenos Aires, emisora que utiliza la misma frecuencia que RAE.

De todas maneras, incluimos aquí la tarjeta QSL de LRA1 Radio Nacional de Buenos Aires, confirmando su reporte de fecha 2 de Abril 1995, en 15345 kHz, a las 0006-0102 horas UTC.

Hacemos propicia la oportunidad para incluirle en la presente, nuestro actual esquema de horarios y frecuencias.

Le felicitamos por su casi perfecto Español, y le invitamos a que siga en la sintonía de nuestras emisiones.

Con los atentos saludos,

*Ymmanu*  
MARCELO A. N. CAMPOS  
DIRECTOR GENERAL  
del Departamento Argentino de Radio



**NORWAY: Radio Denmark** 11930 and 9590 n/d "Logo" cd. in 6 wks. (Barto-CT).

**PARAGUAY: ZPA5 Radio Encarnacion** 11944.9

p/d ltr. in 33 ds. for \$1.00 after a f/up rpt. for a 91 reception. v/s Ramon Gimenez B. B., Director. (Palmer'sheim).

**PERU: Radio Cora** 4915 f/d cd. &

ltr. in 207 ds. w/ stickers.

This was for a SP rpt. and

tape. (Pasquale-PA). **Radio Luz**

**y Sonido** 6472 p/d ltr. in 39

ds. for a SP rpt. and \$1.00.

v/s Sor Maria Milagros, Servi-

dora de Jesus. (Paszkiewicz).

**Radio Satelite OAX2L** 6725 m/c

"Certificado de Sintonia" w/

personal friendly ltr. in 375

ds. for a SP rpt. 300 watts.

(Hardester-NC).

**PHILIPPINES: VOA Poro** 9760 f/d

"Golden Gate" cd. in 10 ds.

(Ondrechen-MA).

**ROMANIA: Radio Romania Internat-**

**ional** 9510 f/d cd. in 123 ds.

w/ schedule. (Palmer'sheim-WA).

ROMENAJE A LA MISION DOMINICANA  
EN SU PRIMER CENTENARIO



**RWANDA:** Deutsche Welle 15135 n/d "Globe and Satellite" cd. in 2 mo. after 2 f/up rpt. and \$1.00. (Rausch-NJ).

**SLOVAKIA:** Radio Slovakia International 5930 f/d cd. in 23 ds. (Horan-IL).

**USA:** VOA Delano 5985 f/d "Atlanta" cd. in 18 ds. (Ondrechen-MA). Voice of the Oromo Liberation 13760 via WHRI f/d cd. in 89 ds. for a FAXed rpt. (D'Ang-USA) (Pirates): Altered States elo-PA).

Radio 6955 f/d "Saddam Hussein" sheet #92 w/ "X-Files" trading cds. in 20 ds. for \$2.00. (Ondrechen-MA). NAPRS 6955 f/d cd. in 17 ds. for \$1.00. This was for a relay of the Voice of Helium

**NOTES:** Jerry Klinck says that he has had a great summer and hopes that the DX season is just as rewarding. Jerry also noticed the great opening to PNG and INDO land in late September. Me too! Sam, Jill Dybka sent along a mock up of a thank you postcard that she sends to broadcasters after receiving a QSL. Great idea! Thanks for the XMAS illustrations... Sam. Denis Pasquale said that he was extremely pleased with his recent Radio Cora QSL. He had

just about given up on them when his QSL arrived. Denis says that he always sends along a tape recording to the Latin stations. He gets about a 50% return rate.

transmission. (Ondrechen-MA). XEROX Radio Duplicado 6955 f/d "Photo of Stud Muffin" Bart Sambo in 25 ds. (D'Angelo-PA). KTLA 6955 f/d cd. in 1 mo. for 3 ms. (Paszkiewicz). WPMS 7375 f/d "Toilet Paper Roll" OSL in 5 mo. (Stephens). Voice of the Dead 7413 n/d cd. in 4 ds.

## RADIO CAROLINE

Reception Verification  
6TH MARCH 1993

## SHORT WAVE

6295 kHz POWER 1kw  
TRANSMITTER ISLAND  
23:51 to 23:57 UTC

after a f/up rpt. (Stephens-AL). Tangerine Radio 6956 f/d "Hand Holding Globe" cd. in 93 ds. (Stephens-AL). Free Radio Signal Corp. 7385 p/d "Morse Code Logo" cd. in 10 mo. (Stephens-AL). WRDM 6956 p/d "Whoop Ass For Free Radio" paper sheet in 9 mo. for a log in ACE. (Stephens). Voice of the Rock 2 f/d cds. in 3 wks. 10 watts. (Rausch-NJ).

Microdot Radio 6955 f/d sheet in 1 1/2 mo. for 3 ms. via Wellsville. (Dybka-TN). Sunshine

Radio International 6960 f/d cd. w/ 2 stickers in 2 mo. Addr: P.O. Box 130, 92504 Rueil CEDEX, France. (Field-MI). Northern Music Radio (Finland) 6955.05 via WREC f/d QSL sheet w/ note

and postcard and NMR balloon for \$2.00. (Clar-NY). Voice of

the Dalek 6956.30 via Up Against the Wall Radio f/d "Soldiers of the new Dalek Order" cd. in 21 ds. for ms. (Clar-NY). Black Rider Radio 6956.8 via KDED f/d cd. w/ note in 47 ds. for ms. via Wellsville. (Clar-NY).

**VATICAN:** Radio Vatican 4005 f/d "Santa Maria de Galena Transmitter Site" cd. in 2 wks. (Field-MI).

Well I guess this ends one of our shortest QSL Columns ever. See you next month... Sam.

QSL  
Verificatie de ontvangst  
Station: La Voix de la Revolution

M. Ron Howard

Nous avons le plaisir de confirmer  
votre rapport d'écoute du 11-2-1993

de 6295 kHz à 23:51 n (GMT)  
sur la fréquence de 6295 kHz

à une puissance de 1000 watts  
à l'aide d'un émetteur de type  
"Morse" de type "Morse"

de type "Morse" de type "Morse"  
de type "Morse" de type "Morse"

de type "Morse" de type "Morse"  
de type "Morse" de type "Morse"

de type "Morse" de type "Morse"  
de type "Morse" de type "Morse"

# Contributors' Page

Fred S. Kohlbrenner  
2641 S. Shields St.  
Philadelphia, PA 19142  
Internet: f.kohl@x.netcom.com

## LOGGINGS CONTRIBUTORS-NEXT DEADLINE IS DECEMBER 10TH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA	NRD-535D
Gabriel Ivan BERRERA, Buenos Aires, ARG	
Jerry BERG, Lexington, MA	R8 R390A HQ180A 150' LW
Don BREWER, Oakland Park, KS	ICF-SW77 SW7600 2-ICF-2010's
Richard A. D'ANGELO, Wyomissing, PA	R8 HF-150 A-D Sloper 100' LW
Marlin FIELD, Hillsdale, MO	NRD-535D Eavesdropper
Bill FLYNN, Cave Junction, OR	R8 83' dipole 500' loop
Bob FRASER, Cohasset, MA	Sony ICF-2003 SW-100 Active Antenna
Nick GRACE, Washington, DC	IC-765 TS-440S 75m dipole
Richard HANKISON, Prairie Village, KS	R5000 Eavesdropper
Harold LEVISON, Philadelphia, PA	R8 R70 YB400
William McGUIRE, Cheverly, MD	DX380
Bob MONTGOMERY, Levittown, PA	NRD-525 R390A FL-2 ARA60
Ed NEWBURY, Kimball, NE	R8 R5000 70' window
Mary Jo ONDRECHEN, Canton, MA	R8 300' longwire
Benton OWSLEY, Ventura, CA	NRD-525 folded dipole
Dennis PASQUALE, New Brighton, PA	DX-440 10m longwire
Sheryl PASZKIEWICZ, Manitowoc, WI	R8 NRD-525 Eavesdropper
Ed RAUSCH, Cedar Grove, NJ	R5000 Sony 2010 MJF-959 300' dipole
Chuck RIPPEL, Corland, VA	R8A NRD-515 R390A
Betsy ROBINSON, Clinton, TN	Sony 2010 Indoor antenna
John ROGERS, Belmont, MA	R8
Mike RYAN, Bangkok, THAILAND	R8
Giovanni SERRA, Rome, ITALY	NRD-525 A-D Sloper
Trevor STANLEY, Flagstaff, AZ	Drake SW8 Datong AD-370
Kirk TRUMMEL, Springfield, MO	Collins R391 Drake R-4B 80m sloper 150'LW

Thanks again to the above members for sending in and sharing their logs. Envelopes from two members arrived too late to be sent on to the editors and are being held until next month. Please remember to mail your logs so that they reach me by the tenth of the month deadline. If your equipment as listed above is out of date or incorrect let me know and I'll correct them in next months column.

Best wishes and good DX!



# Tropical Band Loggings

2000-5900 kHz

Sheryl Paszkiewicz  
1015 Green Street  
Manitowoc, WI 54220



GIOVANNI SERRA writes that the Radio Nederland site on 4945 kHz in English to Africa is Krasnodar, Russia per Michael Schaa, Play-DX.

- 2310 AUSTRALIA VL8A 9/20 1047 w/hard rock, poor (Newbury-NE) 9/20  
1105 pops, US style DJ //2325 (Rippel-VA)
- 3200 SWAZILAND TWR 9/18 0358 IS, ID (Ondrechen-MA)  
9/9 \*0255 IS/EG ID, Ndebele Afr rel (Alexander-PA)
- 3205 NEW GUINEA R West Sepik 9/24 1020 island mx, ID (Rausch-NJ)  
10/9 1127 PD NBC nx, island mx, ID, p-f (Owsley)
- 3220 ECUADOR HCJB 9/20 1034 Andean mx (Newbury-NE)
- 3240 SWAZILAND TWR 9/9 \*0255 IS/EG ID, Shona Afr rel (Alexander-PA)
- 3249 HONDURAS R Luz y Vida 10/9 1221 rel mx, ID, TC (Owsley)
- 3259t JAPAN NHK Kasuga 10/7 0912 finally w/weak pops (Trummel-MO)
- 3280 ECUADOR LV del Napo 9/20 1039 SP tlks (Newbury-NE)  
9/19 0930 ID, rel pgm, song abt Ecuador (Robinson-TN)
- 3290 NAMIBIA NBC 9/17 0400-0502 pop, C&W, Afr mx, tlks //3270 fair  
(Ondrechen-MA)
- 3300 GUATEMALA R Cultural 9/20 1030 rel mx, guitar, accordion (Newb)  
8/30 0750 nonstop ballads, anmts (Trummel-MO)
- 3306 ZIMBABWE Radio 2 9/18 0410 ID, fair & readable (Ondrechen-MA)  
9/14 0331 Afr mx, tlks (Newbury-NE)
- 3324.8 GUATEMALA R Maya 9/20 1050 Indian tlks (Newbury-NE)
- 3345 MOLUCCAS RRI Ternate 9/11 1500 SCI, Jak nx, poor (Flynn-OR)
- 3355p NEW GUINEA R Simbu 9/23 1049 PD tlc, ment PNG, Manus (Rippel-VA)
- 3365 NEW GUINEA R Milne Bay 9/23 1130 OM & pops, tading (Rippel-VA)
- 3373.5t JAPAN NHK Mihara 10/5 1018 pops, M tlc, 300w (Trummel-MO)
- 3385 NEW BRITAIN RENE 9/23 1056 island mx, ID, pops (Rippel-VA)
- 3395 NEW GUINEA R Eastern Highlands 9/23 1108 island mx, PD (Rippel)
- 3396 ZIMBABWE Radio 3 9/18 0351 pop mx (Ondrechen-MA) 9/20 0345  
EG lite rock mx (Pasquale-PA) 9/6 1100 FR mx, nx (Hankison-NE)
- 3607.5t JAPAN NHK Shobukuki 0945 weak, JP tlks, instl, TP 1000 (Trummel)
- 3815 CHINA 9/23 1015 CNR Taiwan Svc pres, lang & bamboo flutes  
(Rippel-VA)
- 3905p IRIAN JAYA RRI Merauke 9/25 at 1100 ID, no IS (Berg-MA)
- 3905 NEW IRELAND RNI 8/29 0950 C&W, PD tlc, mx, fair (Trummel-MO)
- 3925 JAPAN R Tampa 8/29 1005 class piano mx, good (Trummel-MO)
- 3935 NEW ZEALAND 8/29 0940 accented EG, good (Trummel-MO)
- 3945 JAPAN R Tampa 8/29 1005 US pops, JP anmts, poor (Trummel-MO)
- 3945 VANUATU RV 9/25 0930 FR completely readable to 1100 (Berg-MA)  
8/29 1010 island mx, EG ID, RA nx relay 1015 (Trummel-MO)
- 3955 SOUTH AFRICA Channel Africa 9/11 0342 lang sports tlc, Atropop  
covered by BBC 0357 (Serra-ITALY)
- 3976p KALIMANTAN RRI Pontianek 9/25 1030 Moslem sing, tlc (Berg-MA)
- 4019.9h ECUADOR LV de su Amigo 9/14 0251 cumbias, ads, tnx McVicar  
(Grace-DC)
- 4183 BOLIVIA R 11 de Octubre 9/22 0230-0415\* EG pops, TC, shouted  
ID 0230 (Rausch-NJ)
- \*4189.9 CLAND Vo Comm Pty of Iran 9/14 0232 Persian instls, Call to  
Prayer, weak (Grace-DC)
- 4300.1t PERU LV de los Naranjos 9/17 0019 LA stn vy weak (Barrera-ARG)
- 4329.9 CHINA Xinjiang PBS 9/17 0030 prob ID //4970 (Barrera-ARGENTINA)
- 4471.9 BOLIVIA R Movima 9/17 0042 folk mx, ID, fair (Barrera-ARG)
- 4485.1 PERU R Frec VH 10/19 0353 tlc, IDs, flutes, huaynos (Pasz-WI)
- 4508.7 BOLIVIA R San Joaquin 9/17 0053 ballads, cumbias, ID (Barrera)
- 4549.4 BOLIVIA Rdf Tropico 9/16 1051 "La Hora del Pais," wx (Barrera)
- 4599.4 BOLIVIA R Villamontes 9/16 1031 "estamos en Amanecer Chuquiagu  
ads, poor (Barrera-ARGENTINA)
- 4615 IRAQ Rep of Iraq R 9/13 0236 Mideast mx, bubble jam (Rippel-VA)
- 4635 TAJIKISTAN Tajik R 9/17 0133 lang ment Tajikistan (Barrera-ARG)

4649 BOLIVIA R Santa Ana 9/16 2155 "El mensaje de la Fe" ID(Barrera)  
4719.8 BOLIVIA R Abaroa 9/16 2240 ballads, ID, msgs ex-4712.5(Barrera)  
4746.8 PERU R Huanta 2000 9/16 2309 ID, folk mx, fair (Barrera-ARG)  
4753.3 SULAWESI RRI Ujung Pandang 9/24 2150 IN tik, SCI, ID, pres. nx  
fair (Rausch-NJ) 10/1 1202 IN rock, pops, good (Owsley)  
9/17 1140 long tlks, lcl mx, ute QRM (Rippe-VA)  
4755 BRAZIL R Ed Rural 9/14 0035 trad mx, promos (Newbury-NE)  
4760 SWAZILAND TWR 9/9 \*0255 IS/EG ID, SH rel pgm (Alexander-PA)  
10/6 to 0331\* rel pgm, IS, fair (D'Angelo-PA)  
4770 NIGERIA R Nigeria 9/3 0435 EG sermons, hymn, ID, nx (Serra)  
4772.4 MALI RTV Malienne 10/1 0000\* US rock, anmt during Madonna tune  
NA tnx Zacharias Liangas & Hard Core DX (Trummel-MO)  
4779.8 ECUADOR R Oriental 9/23 0300\* tik, pops, HC mx, IDs, ads,  
jingles, Coatan s/off 0230 (Alexander-PA) 9/5 \*1000 atencion  
vcls, date, exc (Robinson-TN)  
4782.4 MALI RTV Malienne 9/18 0140 FR Afr mx, tik, ID 0145, NA (Rogers)  
9/22 0040 lang tik, Afr mx //4835 (Alexander-PA)  
4790 PERU R Atlantida 9/16 0308 2M tik, fair (Newbury-NE) 9/17 0205  
"rondas policiales," ID, fair (Barrera-ARGENTINA)  
4790.6 PAKISTAN Azad Kashmir R 9/4 1754 chorus, ment Pakistan (Serra)  
4795.3v ECUADOR LV de los Caras 9/3 0446 ID, anmts (Serra-ITALY)  
4800 LESOTHO R Lesotho 10/3 0400 nx, ads, Christian pgm, ment Maseru  
& Lesotho (Rogers-MA) 10/1 0330 mx, ID (Pasquale-PA)  
4805t BRAZIL Rdf Amazonas 9/22 2256 tik, jingles, ment Manaus (Serra)  
4824.4 PERU LV de la Selva 9/19 1035 SP DJ, Latin pops (Newbury-NE)  
4830 VENEZUELA R Tachira 9/14 0054 fiery speaker, tubtol? (Newbury)  
4834.8 MALI RTV Malienne 9/18 2201-2303 FR tlks, fair (Ondrechen-MA)  
9/10 1933 chorus, tam tams, tik, ID (Serra-ITALY)  
4835 GUATEMALA R Tezulutlan 9/14 0058 Indian tlks (Newbury-NE) 9/26  
0242 marimbas, good (Levison-PA) 9/23 0240 marimbas (Pasquale)  
4845 MALAYSIA RM 10/2 1300 Tamil instl mx, TC, ID (Owsley)  
4850 UZBEKISTAN Uzbek R 9/17 1948 chants, IS, poss ID (Serra-ITALY)  
4860 INDIA AIR Delhi 9/10 1930\* Urdu chants, tik //6045 (Serra)  
4874.6 IRIAN JAYA RRI Sorong 10/2 1320 island mx, ID 1329 (Owsley)  
4884.8 COLOMBIA Ondas del Meta 9/16 0320 Latin mx, 1-g (Newbury-NE)  
4890 PAPUA NBC 9/17 1040 PD anmts, pops, C&W, p-f (Newbury-NE)  
4890 PERU R Chota 8/30 0735 SP discuss, fair (Trummel-MO)  
4904.4t CHAD RNT 9/23 0512 FR tlks by OM (Ondrechen-MA) 9/4 1926 FR  
Afropops, ID, nx (Serra-ITALY)  
4909.6 ZAMBIA ZNBC 9/4 2140 Afr mx, phone tik, anmts, prayer 2205\*  
(Berg-MA)  
4915 GHANA GBC 9/25 2053 tlks, EG ID, tribal mx (Serra-ITALY)  
4919 ECUADOR R Quito 9/17 0309 tik, piano jazz, LA mx (Newbury-NE)  
8/30 0725 nonstop ballads, TC, ID, great sig (Trummel-MO) 9/19  
0226 GM song, tlks, good (Levison-PA) 9/12 0218 (Pasquale-PA)  
4920 RUSSIA R Ukraine 9/4 1919 UK tik, ID, politics (Serra-ITALY)  
4924.5 BOLIVIA R San Miguel, 9/9 0945 letters pgm, good (Berg-MA)  
4930.6 HONDURAS R Internacional 9/14 0102 SP pops, fair (Newbury-NE)  
4935 KENYA KBC 10/9 2045 Afr vcls, EG pops, tik, gospel, EG prayer  
closing anmts 2106, mx to 2108\* (Berg-MA) 9/25 2102 sermon  
rel mx, tent (Serra-ITALY)  
4935 PERU R Tropical 9/21 \*1000-1051\* mx We are the World (Robinson)  
4945nf RUSSIA R Nederland 9/25 2129\* EG "Good Life" ID //9860 (Serra)  
4945 SOUTH AFRICA Channel Africa 9/2 1742 pops, ID, tik (Serra)  
4955 COLOMBIA RN 9/17 0320 SP ID, jazz & Latin mx (Newbury-NE)  
8/30 0248 romantic mx (Serra-ITALY)  
4960.5 HONDURAS HRET 9/15 0207 rel tik, mx, QRN (Flynn-OR)  
4980 VENEZUELA Ecos del Torbes 9/14 0110 poss sports cmtry (Newbury)  
9/26 0305 LA mx, vcls, good (Levison-PA)  
4985 BRAZIL R Brasil Central 8/28 0715 ballads, echo ID (Trummel-MO)  
4990.9 SURINAM R Apintie 0245-0400\* lite pops, anmts ment FM, NA,  
Apintie drum (Rippel-VA)  
4991.3 PERU R Ancash 9/13 0345 OA mx pgm, ID, fairly good (Berg-MA)  
9/13 0345 ID, Andean mx (Rippel-VA) 8/28 0705 SP pops, bad  
het (Trummel-MO)  
5003.5 RIO MUNI RN Bata 9/30 2215 SP poss nx, IDs //6250.4 (Rogers-MA)  
9/16 2134 SP nx, ID, nx of Bata, good (Barrera-ARGENTINA)  
5009.6 MADAGASCAR Tananarive 9/5 0254 tone, 4-note xylophone like IS  
repeated, anthem, ID, poss ads, tlks (Berg-MA) 9/15 \*0256 NA  
ID, freq, tik, some mx, fair (Rogers-MA) 9/10 \*0255 IS, ID  
nx cmtry, hilife mx (Rippel-VA)  
5015 TURKMENISTAN Ashgabat tent RS? flute theme, W ancr (Flynn-OR)

- 9/4 1905 strings, tlk, tent (Serra-ITALY)
- 5019.6 NIGER LV du Sahel 9/30 2205 FK w/Afr pop, ID 2215 (Rogers-MA)  
9/18 1739 lang nx, tlks, tribal chant (Serra-ITALY)
- 5019.9 PERU R Horizonte 9/29 0015, ID, mx to 0204\* (Field-MI) 9/17  
0224 cumbias, ID, "Horizonte una radio," good (Barrera-ARG)
- 5020 SOLOMON ISL SIBC 10/4 0851 PD/EG, island mx, ID, nx (Owsley)
- 5035 KAZAKHSTAN Kazakh R 9/16 1739 songs, unclear IDs //5960 (Serra)
- 5040 COLOMBIA LV de Yopal 9/12 tutbol, ads, tair (Pasquale-PA)
- 5047 TOGO RTV Togolaise 10/4 FR OM, Afr & FR pops (Owsley) time?  
9/24 2031 lang long radio drama (Serra-ITALY)
- 5049.8 ECUADOR R Jesus del Gran Poder 9/29 1045 Liturgy of the Saints  
1100 nx, promos (Newbury-NE)
- 5050 TANZANIA RT 9/24 \*0155 IS, ID, chorus, SH tlk, EG 0330 (Alex.)  
9/4 1856 EG pop, ment Tanz, TP 1900, nx (Serra-ITALY)
- 5060 UZBEKISTAN R Tashkent 9/24 2029\* GM nx, folk mx (Serra-ITALY)
- 5075 COLOMBIA Caracol 9/19 1058 NA, IS, anmts (Newbury-NE) 8/28  
0700 ID, anmts, jingles, nx, ads (Trummel-MO) 9/9 0608 tlk,  
ads, some mx, IDs (Brewer-KS) You're not the Don Brewer from  
Grand Funk, are you?--sp
- 5290t ASIATIC RUSSIA Krasnoyarsk 9/1 1428 monotonous mx, vcl, weak  
(Flynn-OR)
- 5498 PERU R Lajas 10/16 0220, ID, gone by 0330 (Field-MI) 9/17  
0356\* lots of IDs, addr, poor (Barrera-ARGENTINA) 10/2 0213  
anmts, mx (Trummel-MO) Kirk, Rich McVicar tentatively hrd:  
Jiron Recinto Manuel 589, Lajas, Cajamarca.--sp 10/2 0355\*  
vcls, ID, TC, NA, poor (D'Angelo-PA)
- 5621 PERU R Ilucan 10/15 0107 mx pgm, gone by 0200 (Field-MI)
- 5699.8 PERU Frec San Ignacio 10/2 0320\* ballads, huaynos, ID, ad, nx  
mx, p-t (Trummel-MO)
- 5770 NICARAGUA R Miskut 9/9 2345\* closing anmts, ID (Alexander-PA);  
9/16 2344\* mambo, pops, disco, ID, rel tlk, NA (Grace-DC)
- 5895 CROATIA CR 9/23 0405 EG regional nx, ID to 0410\* (Hankison-KS)  
9/16 1714 nx in CR, ID, anmt //13830 (Serra-ITALY)

Thank you to all who contributed. It was a good column and we had lots of contributors. Reports from 12 states & 2 countries. Next deadline November 17. HAPPY THANKSGIVING

If your receiver has memory, plug in a lot of tropical stations that are on your target list. This helps one to remember to check the out of band frequencies for the Latins. You may want to concentrate on stations others have recently heard. Once you have logged that station, you may want to plug in another target or just a fun station to listen to like Voice of Turkey or BBC.

Another technique I recently used was to put the AGC or Automatic Gain Control in the off position to enhance reception on a very weak station. This is best used on single sideband and on a narrow filter. Many times it only succeeds in increasing the static crashes but sometimes can bring signal peaks up to a listenable level.

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# International Band Loggings

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



- 5905 **BELARUS** R Belarus in RS/BR 1800, ID, nx, folk songs (Ryan THAILAND 9/9)
- 59246 **VIETNAM** VOV Hanoi in VT 1400, ID then e2l instrmts, undermodulated (Owsley 10/10)
- 5945 **AUSTRIA** RAI Vienna in GM 2009, mx sels like story telling, xmsn to Europe (Levison PA 9/23)
- 5965 **HUNGARY** R Budapest in EG 0330, polit nx items & cmntry, xmsn to NA, exc (Levison 9/26)
- 5970 **KAZAKHSTAN** Kazakh R in KZ 1900, IS, ID, nx, tlks, //5960, 5035 (Ryan THAILAND 9/26)
- 5980nf? **CZECH REPUBLIC** Relay R Ropa in GM 0716, tlk, US pops, ads, ID, nx (Serra ITALY 9/17)
- 5990 **HONG KONG** BBC relay in EG 1330, IS, ID, financial nx, exc (Owsley 10/10) ED: Both BBC and PWBR list Mandarin from Hong Kong during this time slot. Late program change?
- 5995 **AUSTRALIA** RA in EG 1350, Aust ccountry mx, fqy list, ID, nx 1400, g (Brewer KS 9/6)
- 5995 **MALI** RTV Malienne in FR 0700, lcl & hlflc mx, ad?, long tlk, //4783, 4835 (Trummel MO 9/22)
- 6005 **ITALY** RAI Rome in IT 0130, IS, ID, into IT pgmg, g //6110, 11765 (Alexander PA 10/1)
- 6010 **MEXICO** R Mil XE01 in SP 0540, world nx items, sfx, //XEOY 1000 better (Trummel MO 10/9)
- 6015 **SO KOREA** KCBS Liberty 1 in KR 0820, instrml mx, tlk, some jamming, f (Owsley 10/11)
- 6030 **CANADA** CFVP Calgary in EG 0110, MW relay, mx, ID's, TC's, ads (D'Angelo ) en route WA
- 6040 **BRAZIL** R Clube Paranaense ZYE725 in PT 0755, BR pops, long tlk, ID (Trummel MO 10/9)
- 6060 **ARGENTINA** R Nacional in SP 0957, ID 0959, slogans, jingles, exc signal (Trummel MO 9/22)
- 6070 **CANADA** CFRX Toronto in EG 2244, MW relay, ID, rush hr nx, ID's, QTH, f (Brewer KS 9/26)
- 6080 **AUSTRALIA** RA in Pidgin 0930, "Papua New Guinea Service", TC, nx, p (Rogers MA 9/27)
- 6085 **GERMANY** Bayer Rundfunk in GM 1017, polit cmtry, pops, nx 1030, f-g (Serra ITALY 9/3)
- 60898 **NIGERIA** RN Kaduna in EG/Vern 0433, IS, s/on w/chorus & ID in VN, prayer (Hankison KS 9/23)
- 60899 **CHILE** R Esperanza in SP 0954, gospel mx, OM w/cmtry, TC, ID's (Grace DC 9/10)
- 61158 **COLOMBIA** LV del Llano in SP 0815, ballads, slo songs, TC's, ID, fqys (Trummel MO 10/9)
- 6120 **CANADA** R Japan relay Sackville in EG 1110, rpt on JP-CH friendship symposium (Fraser 9/12)
- 6130 **CANADA** CHNX Halifax in EG 1224, relay CHNS-FM, oldies mx, ID's (Ondrechen MA 9/20)
- 6145 **JAPAN** NHK R Japan Tokyo in RS 0800, nx, ID, exc signal (Owsley 10/11)
- 6170 **BRAZIL** R Cultura in PT 0920, lively BR ballads, IS rooster crow, TC, g but het (Trummel MO)
- 6185 **MEXICO** XEPPM R Educacion in SP 0915-1100, ID, songs, cigarette ads, rooster crows, great Mexican mx, tlks, nx re Mexican government (Robinson TN, Levison PA, Trummel MO)
- 61881 **PERU** R Oriente in SP 2340, ancmts, ads, jingles, ID's, SP mx, het QRM (Alexander PA 9/23)
- 6200nf? **CZECH REPUBLIC** R Prague in EG 0100, nx, cmntry, lcl mx, IS, //7345, f (Alexander PA 10/1)
- 6210 **ETHIOPIA** R Fana Addis Ababa in lang 0326, mx box IS, ID, fqy, nx? (Berg MA 9/19)
- 65495v **LEBANON** V of Lebanon Beirut in AR 1450, AR relig? tlk, p w/QRM, no ID hrd (Flynn OR 9/26)
- test tone for 1 min 0349, River Kwai March 0357, NA 0359, into AR 0402, f-p (Trummel MO 10/2)
- 6570 **MYANMAR** Def Forces BC Station in Burmese 1205, very weak but audible w/very nice lcl mx, North Korea w/strong signal on 6576 provided pounding QRM (Trummel MO 10/2)
- 67472 **PERU** R San Ignacio in SP 0205-0250\*, much tlk, OA folk mx, ID, NA\*, f (Alexander PA 9/10)
- 68028v **PERU** Ondas del Rio Mayo in SP 0030, huaynos, ancmts, ID (Paszkievicz WI, Trummel MO 10/2)
- 7120 **SWEDEN** RS in EG 0300, tlk on SW election, sports rpt, nx (Stanley AZ 9/19, Pasquale PA 9/20)
- 71469nf? **IRAQ** Rep of Iraq R in AR \*0158, NA, tlk, AR mx, lite instrml mx, Koran, f (Alexander PA 9/30)
- 7160 **MALAYSIA** RM Kuching in CH/EG 1020, flute mx, YL in CH to 1030, into EG nx 1030, jazz mx, strong Ham QRM (Trummel MO 10/22) in EG 1400, US oldies rx (Ryan THAILAND 9/4)
- 7160 **ALBANIA** R Tirana in EG \*0130, ID, nx, ID, pres relay (Robinson TN, Stanley, Pasquale PA)
- 7165 **ETHIOPIA** R Ethiopia in EG 1614, Afro pops & variety mx, ID, QTH, nx (Serra ITALY 9/17)
- 7180 **UNITED KINGDOM** R Free Europe relay in PL 0720, tlk, //9660 Morocco (Trummel MO 9/27)
- 7180 **SO KOREA** BBC relay in CH 1530\*, ID, abrupt s/off, no jamming hrd (Treibel WA 9/30)
- 7185 **BANGLADESH** RB in EG 1230, full ID, regional & world nx, Ham QRM (Trummel MO 9/25)
- 7195 **RUSSIA** R Tikhiv Okean Chita in RS 1935, ID, RS pop mx, //12015, 7420 (Ryan THAILAND)
- 7200 **NO KOREA** R Pyongyang in KR 1227, usual martial mx, tlk by OM & YL, g (Owsley 10/3)
- 7240nf? **JAPAN** NHK R Japan Tokyo in EG 1510, nx, ID, fqys, Ham QRM, //9695nf, f (Treibel WA 9/30)
- 7250 **RUSSIA** V of Vietnam relay in EG 0100, ID, Ho Chi Minh honored (Robinson TN, Newbury NE)
- 7250 **VATICAN STATE** Vatican R in EG 1950, "The Pope & the People", g (Fraser MA 9/13)
- 7270 **SO AFRICA** Channel Africa in SP 0455, IS, s/on 0500 with ID & into SP, g (Hankison KS 9/23)
- 7290nf? **SO AFRICA** R Tanzania relay Meyerton in SH 0308, rock & Afropop mx, many ID's, exc signal (Ondrechen MA 10/8) in SH 0330, lcl ads, Afro mx, ID, TC 0400, exc to 0430 (Owsley 10/11)
- 7315 test **USA** WGTG McCaysville GA in EG 1322, ID, req rpts (Ondrechen MA 9/16) ED: See 7355 below
- 7355 test **USA** WGTG in EG 2208\*, test xmsn w/ID, QTH, relig ID (Trummel MO) ED: It appears that this fqy may be the "permanent" slot for this new religious station.
- 7370 **CROATIA** Croatian R in EG 2300, nx re war & peace in Bosnia, only 5 min EG (Fraser MA 9/12)
- 7385 **MONACO** TWR in lang \*2025, IS, ID, relig pgming, f but co-channel QRM (Alexander PA 9/24)
- 8566 **CHINA** CPBS Beijing in CH 1015, Y1 tlk, CH instrumental mx (Owsley 10/11)

- 9390 ISRAEL Reshet Bet Tel Aviv in HB 1725, tlks, pop mx, strong covering RFPI (Alexander PA 9/10)
- 9400usb COSTA RICA RFPI in EG 0622, long speech, ID, QTH, pop song, feature (Serra ITALY 9/24)
- 9420 GREECE FTH Athens in EG 0135, polit & econ nx, pop mx in GK, ID (Stanley AZ, McGuire MD)
- 9435 ISRAEL Kol Israel in EG 2000, nx re violence by right wing Jews, //7415, 7465 (Fraser MA 9/10)
- 9445 TURKEY VOT in EG 0300, fqy, sked, ID, polit nx, features (McGuire MD 9/23, Fraser MA 9/12)
- 9465 SLOVAKIA AWR in EG 2124, "Wave Scan", "Voice of Prophecy", p (Alexander PA 9/24)
- 9475nf? USA WGTG McCaysville, GA in EG 1528, fire & brimstone preacher, ID in EG/SP & QTH 1700, pgming was // WRNO 15240, both fqys strong (Alexander PA 10/1)
- 9475 EGYPT R Cairo in EG 0300, lang lesson, ID, AR mx, overmodulated (Stanley AZ, Pasquale PA)
- 9490 RUSSIA RM Samara relay in RS \*1400-1430\*, pips, ID, nx, polit tlks (Ryan THAILAND 9/21)
- 9510 SO AFRICA TWR in lang/EG 1923, choir in lang, EG ID, hymns, drama (Pasquale WI 9/24)
- 9535 JAPAN NHK Tokyo in EG 1700, nx, ID, "Asia Weekly", "Business Report" g (Stanley AZ 9/16)
- 9540 SPAIN R Ext Espana in EG 0000, nx, ID, "Spanish Hall of Fame" pgm (Stanley AZ 9/16)
- 9545 SOLOMON IS SIBC in pidgen EG 0720, ID, long tk, nx?, DJ & rx, p (Trummel MO 9/29)
- 99524 INDONESIA RRI Ujung Padang in IN 0855\*, fanfare, nx?, tlk, mx mix, no ID, p-g (Trummel 9/1)
- 9560 TURKEY VOT in EG 2300, nx, cmntry, lcl mx, BBC QRM, //7190, 7280 (Alexander PA)
- 9570 ROMANIA RRI in EG 0200, YL w/nx, cmntry on Bosnia peace tlks, p f/o (Stanley AZ 9/20)
- 9575 MOROCCO R Medi Un in FR 0735, nx w/remote rpts, ID's, ad, US pops, f (Trummel MO 9/1)
- 9580 YUGOSLAVIA RY Belgrade in EG 0000, nx, press review, ID, cmntries, g (Stanley AZ)
- 9585 SO AFRICA Channel Africa in EG 0409, ad, feature, DJ & rx (Rogers MA 9/29, Pasquale PA 10/1)
- 9590 SINGAPORE R Singapore Int in CH 1340, tlks, occasional mx, ID 1350, nx? (Hankison KS 9/21)
- 9590 NETHERLAND ANTILLES R Nederland relay in EG 0430, final Happy Stn pgm (Newbury 9/18)
- 9605 UNITED KINGDOM Irish Overseas Broadcasting Ltd relay via BBC in EG \*1400, spec best of All Irish Football finals, multi-lang ID's, Dublin QTH (D'Angelo PA, Berg MA, Alexander 9/17-18)
- 9630 SEYCHELLES BBC relay in EG 2010, "Newshour" ID, //17830 (Fraser MA, Serra ITALY 9/19)
- 9655 AUSTRIA RAI in EG 0230, tlk on CH Peoples Congress, ID, nx (Stanley AZ, Levison PA 9/17)
- 9700 NEW ZEALAND BBC relay Rangitiki in EG \*1100-1130\*, daily w/World Svce (Trummel MO)
- 9700 BULGARIA R Bulgaria in EG 2315, rpt on BG wish to join Eur Free Trade Zone (Fraser MA 9/12)
- 97098 LITHUANIA Lithuanian R in LT 0905, nx, wx, ads, jingles, pop mx, ID, IS (Serra ITALY 9/11)
- 9720 RUSSIA R Rossii Ryazan in RS, 0806, nx, ads?, wx, ID, IS, //11720, QRM het (Serra ITALY 9/11)
- 97205 PERU R Victoria in SP 0620, relig tlk & mx, promos, wiped out by RN 0628\* (Alexander PA 9/16)
- 9735 PARAGUAY R Nac in SP 0850, non-stop ballads, march mx, ID, sked, TP, nx, exc (Trummel MO)
- 9730 FRENCH GUIANA China R Int relay in EG 0423, cmntry on CH forestry, ID (Brewer KS 9/28)
- 9825 KIRIBATI RK Betto in lang 0759, island mx, C&W pop mx, native choir, f-g (Trummel MO 9/29)
- 9845 NETHERLAND ANTILLES R Nederland relay in EG 0032, nx, chess result, wx (Levison PA 9/15)
- 9865 RUSSIA R Radonezh in RS 1825, sermon, hymns, ID, bells IS, 1900\* (Ryan THAILAND 9/14)
- 9900 EGYPT R Cairo in EG 2300, IS, ID, AR mx background, pgm sked, f (McGuire MD 9/26)
- 9960 LEBANON V of Hope in EG/lang 1304, sermon, relig pop songs, flutes, ID? (Serra ITALY 9/10)
- 9977 NO KOREA R Pyongyang in EG 1113, regional nx, ID, lcl mx, f (Hankison KS 9/6)
- 9988nf EGYPT R Cairo in IT 1830, ID, AR & pop song dedications, f (Serra ITALY 9/2)
- 11580 ROMANIA R Moldova Int relay in EG 1945, regional nx, lcl mx, ancmt, NA?, abrupt s/off 1954, f-p (Trummel MO) ED: Last month this relay was mistakenly listed as directly from Moldova.
- 11580nf USA WEWN Birmingham AL in EG 1745, Catholic call-in, "Pillars of Faith", WEWN t-shirt offer, //13615 both booming in (Alexander PA 9/30)
- 11610 SLOVAKIA AWR in EG 2215, "Wavescan" interview w/Jonathan Marks, f (Rogers MA 9/17)
- 117101v ARGENTINA R Nacional in SP 0150, romantic mx, ID's, abrupt power off 0200, checked again at 0222 and station was on 117096 (Rogers 10/11) in SP 1025, "Musica de Argentina" (Robinson TN)
- 117149v MALI R China Int relay in EG 0343, mailbag, tlk of benefits CH rule in Tibet (Rogers, Berg MA)
- 11725 THAILAND VOA relay in CH/EG 0202, lang lesson? //15150, both p (Rogers MA 9/25)
- 11730 SO AFRICA TWR in EG 0610, relig sermon, good opening to Africa this date (Trummel MO 9/22)
- 11815 COSTA RICA R Ext de Espana relay in SP 1930, tlks, race coverage, ID, //11880 (Trummel MO)
- 11850 NORWAY RNI in EG 1600, "Norway Now", rpt on Women's Conf in China, g (Stanley AZ 9/16)
- 11900 FINLAND R Finland in EG 1530, nx, ID, cmntry, lang lesson (Stanley AZ 9/17, Brewer KS 9/8)
- 11905 ITALY RAI in EG 1945, world nx by YL, mixing w/R Thailand(p) (Trummel MO, Fraser MA)
- 11915 MOROCCO VOA relay in FR/AR 2026, mx selections, ID, f (Levison PA 9/15)
- 11925 MALTA V of the Mediterranean in EG 1400, local mx, tlks, p (Pietraszek MA 10/16)
- 11925 BRAZIL R Bandeirantes in PT 0019, Brazilian pops, ballads, ID?, f-g (Owsley 10/10)
- 11940 SO AFRICA BBC relay Meyerton in PT 0627, IS, ID, Big Ben chimes, world nx, mx pgm, pulled plug in mid-song 0559, BBC relay Lesotho weakly audible after Meyerton s/off (Trummel 9/22)
- 11940 CAMBODIA Nat'l VO Cambodia in EG \*1200, NA, ID, nx, cultural tlks (Ryan THAILAND 9/14)
- 119548 ANGOLA R Nac in PT 2310, ancmts, Afro & US pop mx, //4950, 7245 (Alexander PA 9/23-24)
- 12000 JORDAN R Jordan Amman in EG 1101, world nx, ID, //11940 better (Serra ITALY 9/21)
- 12050 EGYPT R Cairo in AR 0834, pop mx, AR songs, ID, comedy, //11785, 9800 (Serra ITALY 9/11)
- 12075 SWITZERLAND SRI in FR 1830-1846\*, world nx, mx bumps, ID, sked, g (Trummel MO)
- 12085 MONGOLIA R Ulan Bator in RS 0955, IS, ID, QTH, tlks, lcl mx, into CH 1020 (Ryan THAI 9/12)
- 13635 SWITZERLAND SRI in EG 2000, world events, investm in Vietnam (Fraser MA, McGuire MD)
- 13645 RUSSIA AWR Samara in EG 0500-0600\*, ID, "The Voice of Prophecy", hymns (Ryan THAI 9/12)
- 13730 AUSTRIA R Austria Int in GM 1900, nx, Blue Danube IS, current affairs re MidE, f (Trummel MO)
- 137498 INDIA AIR Bangalore in AR 1855, nx, ID, ment AIR, p w/fade out 1904 (Trummel MO 10/4)
- 13765 VATICAN STATE VR in EG 2000, xmsn to Africa, nx re Pope's activities, g (Trummel MO)

- 13650 NO KOREA R Pyongyang in EG 2300, NA, nx, tribute to Kim Il Sung, ID, f (Stanley AZ 9/16)
- 13675 UNITED ARAB EMIRATES R Dubai in EG 1632, nx, typhoon wracks Japan, ID (Stanley 9/17)
- 15084 IRAN VOIRI Tehran in lang 1825, HS relay, mix of piano/ME mx, march mx, nx? (Trummel MO)
- 15095 SYRIA R Damascus in EG 2030, AR mx, ID, "News Review", NA? (I'lynn OR, Newbury NE 9/26)
- 15110 SPAIN R Ext de Espana in AR 1840, SP lang lessons, g (Trummel MO) in SP 2205, world nx with mentions of Israel & Bosnia, g (McGuire MD 9/24)
- 15115 NEW ZEALAND RNZI in EG 0000, "Midday Report" earthquake in NZ, f (Stanley AZ 9/19)
- 151249 TAIWAN BBC Popular Network in CH 1054, pop songs, tk, ID, TC, ads (Serra ITALY 9/19)
- 15150 MADAGASCAR R Nederlands relay in EG 1445, "Newline" abt current affairs, ID, QTH, into pgm "Good Life" abt mt developments in Africa & traditional med in Zimbabwe (Serra 9/18)
- 15160 ALGERIA RTV Algerienne in EG 1800, nx 1805-1815, into rock mx, f (Pietraszek MA 10/12) in EG 2000-2024, TP, ancmts, instrumental mx, nx, "Press Review", f (D'Angelo PA 10/7)
- 15168v FRENCH POLYNESIA RFO-Tahiti in TT 1750, ID, island mx, vocals, p (Stanley AZ 9/17)
- 151858v EQUATORIAL GUINEA R East Africa in EG 2030-2249\*, US produced relig pgming, s/off w/NA good signal but some distorted audio (Alexander PA 9/23, Pietraszek MA 10/14)
- 15210 FRANCE RFI in EG 1707, xmsn to E Afr, reaction of Eur ministers to nuke tests (Pasquale PA 9/10)
- 15230 ITALY RAI Rome in IT 1752, tk by OM, ID 1757, s/off 1758 w/NA & bird chirps (Owsley 10/2)
- 15230 JAPAN NHK Tokyo in EG 0300, "Hello from Tokyo", "Let's Learn Japanese", g (Stanley AZ 9/16)
- 15240 SWEDEN R Sweden in EG 1345-1358\*, Swedish mx, feature, ID, sked, f (Brewer KS 9/10)
- 15244nf? ZAIRE La Voix du Zaire in FR 1905, M&W in long discussion, ID?, vg (Rippel VA 9/11)
- 15265 BRAZIL R Nacional Brasilia in GM 1950, BR mx, ID, ments of Brazil, Sao Paulo (Fraser MA 9/15)
- 15270 ARMENIA R Intercontinental Yerevan in EG/GM 1730, IS, EG, ID, into GM (Ondrechen MA 9/17)
- 15285 EGYPT Voice of the Arabs in AR 0847, interview, AR instrumental mx, ID? (Serra ITALY 9/11)
- 15290nf INDIA AIR Vividh Bharati Svc in lang 0330-0430\*, subcont mx, promos, //10330 (Ryan 9/23)
- 15345 MOROCCO RTV Marocaine in AR 1043, pop mx, AR songs, nx, ID, movies mx (Serra ITALY) in AR 1440, M East mx, ID (Hankison KS) in AR 1755, tk on Iraq, M East style piano mx, ID, only one TP on the hr, world nx (Trummel MO) in AR 1930, chants, nx, to 2100 s/off (Newbury NE)
- 15365 AUSTRALIA RA in EG 0208, nx w/cmnts on death of US lawyer Kunster, ID (Levison PA 9/3)
- 15400 FINLAND R Finland YLE in EG 1135, rpt on hoax involving cyanide tablets, f (McGuire MD 9/20)
- 15490 ECUADOR HCJB Quito in EG 1830, "Sounds of Joy", religion in classical mx (Fraser MA 9/14) in EG 1730, dissertation on hydroponic gardening, exc (Levison PA 9/28)
- 15495 KUWAIT R Kuwait in AR 1307, AR instrml songs, abruptly off 1314 but hrd pgm continued on //13620 w/ID, also //15505 (Serra ITALY 9/18)
- 15505 KUWAIT R Kuwait audible daily before 1700-2000+ w/vg sig & nice ME mx (Trummel MO 9/29)
- 15630 GREECE V of Greece in EG/GR \*1430, ID, GK mx, political cmntry, g (Robinson TN 9/30)
- 17545 ISRAEL Reshet Bet in HB 1241, continuous US oldies, ID, ads, TP, ID, nx (Serra ITALY 9/18)
- 17595 EGYPT R Cairo in EG \*1215-1256\*, ID to S Asia, mailbag, nx re NATO, g (Robinson TN 9/20)
- 17605 CHINA CPBS Beijing in CH 0813, tk w/brief mx pause, ID's, piano mx, //15550 (Serra ITALY)
- 17605 NETHERLAND ANTILLES R Nederland relay in EG 1835, care of the elderly (Fraser MA 9/10)
- 17665 RUSSIA Golos Rossii in RS 0530, DX pgm, RS media nx, sfx, //12065 Mondays (Ryan THAI 10/2)
- 17800 RWANDA D Welle relay in FR 1220, polit current affairs pgm, sports nx, //15410 (Serra ITALY)
- 21605 UNITED ARAB EMIRATES R Dubai in AR 1450, conversations, vcls, lcl string mx, //13675, 15395 (Serra ITALY 9/25) in EG 1625, classical mx sels, ID, nx, exc (Levison PA 9/18)
- 21660 ASCENSION IS BBC relay in EG 1409, sports results, athletic interviews (Levison PA 9/9)

The following item is out of sequence since I initially assumed it was a Europirate station but, on closer examination, it seems to belong in the regular SW section:

- 69154 IRELAND Dublin Community R in EG 0045, pop mx, good carrier level but UTE & SSB QRM (Trummel MO) in EG 2150, pop mx, few ancmts, too weak to ID, only 300 watts (Berg MA 9/23)

#### NOTES AND GENERAL INFORMATION

1. Please note that my new mailing address (for those sending loggings directly to me) is Shoreline, WA rather than Seattle, WA as in the past. Zip code and everything else is unchanged.
2. Does anyone know if Breich is in French Morocco or Tangier? Also Trummel wants to know the address of R San Ignacio, Peru (6747.2) if anyone knows it.
3. Giovanni Serra in Rome advises us that the 30th Annual Meeting of the European DX Council 1996 will be in Florence, Italy from April 26-29, 1996 (for those of you who have lots of Lira and a yen for a delightful overseas vacation). Details regarding reservations and accommodations can be obtained by writing to the following address:

AIR-Associazione Italiana Radioascolto  
P.O. Box 30  
I-50141 FIRENZE Succ.30  
FAX ++39-40-421441

We had a reasonably good number of excellent DX reports this month. For a while, though, I wondered if Europe had fallen off the map. Openings have been mighty rare here on the WCNA.

# English Schedules

Tom Sundstrom

PO Box 2275

Vincetown, NJ 08088-2275

Fax 609-859-3226

Internet: T.SUNDSTROM@pics.com

Prepared 10/26/95.

Thanks to Chris Hambly (Australia), Dave Kenny (BBC WBI), Adam Lock (WWCR), Jonathan Marks (R Netherlands), Rich McVicar (HCJB), Dr. Adrian Peterson (AWR), Andy Sennitt (WRTH) and Giovanni Serra (Italy).

## 1996 European DX Council Meeting

The EDXC is the European counterpart to the Association of North American Radio Clubs. You may have heard the EDXC reports aired on HCJB's DX Partyline on the third Saturday of each month. Those of you who attend the Winter SWL Festival have met its chairman Michael Murray.

The 30th annual EDXC meeting will be held April 26 to 29, 1996, in Florence, Italy. It's a lot of fun, and highly recommended. For more information fax +39 40 421441 or write:

AIR-Associazione Italiana Radioascolto  
PO Box 30  
I-50141 Firenze Succ.30, Italy

This information is from Giovanni Serra, and I'm sure he will be there to greet you if you opt to attend.

And don't forget to mark on your calendars March 14-16, 1996, for the Winter SWL Festival in Kulpsville, PA (just north of Philadelphia).

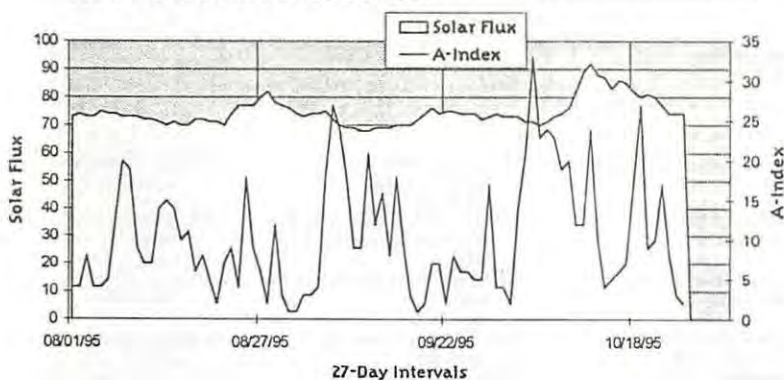
**Denmark:** R Denmark will, after many years, once again air an English language broadcast — for 15 minutes on the first Sunday of the month starting January 7.

**USA:** WWCR began testing on 3315 September 18. By the following weekend all went well and full-time operation started. But on deadline Adam Lock tells me that on the 25th the FCC ordered WWCR off 3315 because of complaints from USAF MARS stations. WWCR is back on 7435 until the situation can be worked out.

**Drake RBA:** We're putting the receiver through its paces. First impressions are that Drake did its homework with some nice additional features vs the R8...



SOLAR FLUX & A-INDEX: AUG-OCT '95



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<http://www.pics.com/trs/>

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

<b>0000</b>			
0030	Australia—R Australia: As/Pac/PapNG 17750 13745 13605 11855	0100	Bulgaria—R Bulgaria: NAm 9700 7480
2400	Canada—CFRX: Canada 6070 Notes: relay CFRB-1010	2400	Canada—CHNX: Canada 6130 Notes: relay CHNS-960
0059	Canada—R Canada Int'l: Canb/LAm/NA 9755 5960 Notes: Su-Mo	0055	China—China R Int'l: eNAM 11715 9710
0800	Costa Rica—R for Peace Int'l: LAm/VN 9400U 7385	0008	Croatia—Croatian Radio: Eu 13830 7370 5895 Notes: News
0015	Ghana—Ghana BC Corp: 4915 3366 Notes: rx/English	0030	Lithuania—R Vilnius: NA 5940 Notes: Tu-Sa only 5min news.
0200	Philippines—FEBC: seAs/India 15450	0100	Russia—V of Russia: World Service 7180 7125 7105
0030	Thailand—R Thailand: All/As 11905 9680 9655	0100	United Kingdom—BBC: Americas 11750 9915 9590 7325 6175 5975 5970
0100	United Kingdom—BBC: sAsia 11955 7265 5965	0200	USA—KAJJ: NAm 13815 13740
1000	USA—KVOH: NAm/Carib 9975 Notes: 7415 alt 00-06	0100	USA—VOA: American Republics 13740 9775 7405 5995
0100	USA—VOA: eAs/seAs/Pac 17820 17735 15290 15185 11760 9770 7215	1255	USA—WEWN: NAm 7425
0955	USA—WEWN: Eu 5825	0600	USA—WINB: CAm 11950 Notes: off the air, may return soon
0100	USA—WSHB: CAm/SAm 9430	0100	USA—WSHB: eNAM/Carib 7535 7535
0030	Yugoslavia—R Yugoslavia: eNAM 9580 Notes: Mo-Sa		
<hr/>			
<b>0030</b>			
0200	Australia—R Australia: As/Pac/PapNG 17860 17795 17750 15415 15365 15240 13755 13605	0200	Australia—R Australia: As/Pac/PapNG 15510 13745 11855 9660 9580
0500	Ecuador—HCJB: NAm 21455U 9745	0127	Iran—V of Islamic Rep of Iran: NAm/ 9022 6175 6150
0125	Netherlands—R Netherlands: sAs 7305 5905	0100	Sweden—R Sweden: LAm 9850 6065
<hr/>			
<b>0050</b>			
0110	Italy—RAI: NAm 11800 9645		
<hr/>			
<b>0100</b>			
0200	Australia—Aust Defense Forces R: Ma 13535U	0108	Croatia—Croatian Radio: Eu 13830 7370 5895 Notes: News
0127	Czech—R Prague: NAm 7345 6200	0150	Germany—R Deutsche Welle: NAm 9670 9640 9555 6145 6085 6040
0200	Japan—R Japan: GOS: NAm 9605 5960	0130	Norway—R Norway Int'l: NAm/SAm 6010 Notes: Mo only
0127	Slovakia—R Slovakia Int'l: SAm/NAm 9440 7300 5930	0200	South Korea—R Korea: Am 15575 11810
0130	Switzerland—Swiss R Int'l: NAm/CAM 9905 9885 6135	0200	Ukraine—R Ukraine Int'l: NAm 7205 6055 6010 5915 5905
		0200	Cuba—R Havana: eNAM 9830U 6000
		0200	Japan—R Japan: GOS: As 17845 17810 11910 11890 11860 11840
		0200	Russia—V of Russia: World Service 7125 7105
		0200	Spain—R Exterior de Espana: NAm 9540
		0200	United Kingdom—BBC: Americas 11750 9915 9590 7325 6175 5975 5970

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 0100

0200 United Kingdom—BBC: Asia/Pacific 15360 6195	0200 United Kingdom—BBC: sAsia 11955 9410 7265	0200 USA—VOA: American Republics 13740 9775 9455 7405 6130 5995
0300 USA—VOA: sAs 21550 17740 15370 15250 11705 9740 7215 7205 7115	0600 USA—WGTX: Canada/Mexico 9475 Notes: Fr-Sa-Su	0200 USA—WSHB: cNA 7535
0200 USA—WSHB: CArvSAm 9430	1100 USA—WWCR: Eu/ME/nAf 7435 Notes: tx #1   alt 3315	1400 USA—WWCR: Eu/ME/nAf 5935 Notes: tx #2
0500 USA—WYFR: NAM 9505 6065 Notes: #1&2 Network Tu-Su	0300 Vietnam—V of Vietnam: Eu/NAM 5940 Notes: Pgm rpld 4x	

### 0130

0200 Austria—ORF: NAM 9655	0140 Greece—V of Greece: NAM 5935 9420 7450	0225 Netherlands—R Netherlands: sAs 11655 9860 7305 5905
0200 Sweden—R Sweden: As/Pac 7120		

### 0140

0200 Vatican State—Vatican Radio: As/Aus  
9730 7335

### 0145

0200 Albania—R Tirana: NAM  
7160 6140  
Notes: freq's drift

### 0200

0300 Argentina—RAE: Americas 11710 Notes: Tu-Sa	0300 Australia—R Australia: As/Pac/PapNG 17860 17795 17750 17715 15415 15365 13605	0400 Australia—R Australia: As/Pac/PapNG 17880 15510 15245 9660 9580
0259 Canada—R Canada Int'l: Canb/LArv/NA 11725 9755 9535 6010 5905	0208 Croatia—Croatian Radio: Eu 13830 7370 5895 Notes: News	0400 Cuba—R Havana: cNA/veNAM 9830U 9820 6000
0330 Egypt—R Cairo: NAM 9475	0250 Germany—R Deutsche Welle: sAs 9615 9515 7355 7285 7265 6130 6035	0230 Hungary—R Budapest: NAM 11670 9850 6190
0255 Romania—R Romania Int'l: NAM 11940 9570 9510 6155 5990	0300 Russia—V of Russia: World Service 12030 9580 7105	0300 Taiwan—V of Free China: As/Aus/Am 15345 11825 11740 9680 7130 5950
0300 United Kingdom—BBC: Africa 6135	0300 United Kingdom—BBC: Americas 9915 9590 7325 6175 5975 5970	0300 United Kingdom—BBC: Asia/Pacific 15360
0300 United Kingdom—BBC: Europe 11955 7235	0300 United Kingdom—BBC: sAsia 11955 9605 7235	1400 USA—KAJJ: NAM 9815 5810
0300 USA—WSHB: w&cNA 5850	0300 USA—WSHB: Mexico 9430	

### 0230

0300 Albania—R Tirana: NAM 7160 6140 Notes: freq's drift	0300 Austria—ORF: NAM 9655	0300 Austria—ORF: LAm 13730 9870
0325 Netherlands—R Netherlands: sAs 11655 9890	0245 Pakistan—R Pakistan: As 21730 17725 17705 15190 7290 Notes: Slow-speed news	0330 Philippines—R Philipinas: eAs 21580 17760 17685
0300 Portugal—R Portugal: SArvNAM 9570 6095 Notes: Tu-Sa	0300 Sweden—R Sweden: NAM 7115	

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 0250

0315 Vatican State—Vatican Radio: NAm  
7305 6095

### 0300

<p>0400 Australia—R Australia: As/Pac/PapNG 17795 17750 17715 15415 15365 13605</p> <p>0400 Costa Rica—Lighthouse of Caribbean: 5055</p> <p>0350 Germany—R Deutsche Welle: NAm 9650 9535 6120 6085 6045</p> <p>0500 Honduras—HRVC: Am 4820 Notes: Mo</p> <p>0400 Japan—R Japan: GOS:NAm 9605 5960</p> <p>0400 Russia—V of Russia: World Service 12030</p> <p>0330 Thailand—R Thailand: Am/As 15370 11905 9655</p> <p>0400 United Kingdom—BBC: Asia/Pacific 15380 15360 15280 11955</p> <p>0400 USA—VOA: Africa 9885 9575 7405 7340 7280 7105 6035</p> <p>0400 USA—WSHB: eAf 7535</p>	<p>0329 Canada—R Canada Int'l: Carib/LAm/NA 9755 6010 Notes: Su&amp;Mo -0359</p> <p>0308 Croatia—Croatian Radio: Eu 13830 7370 5895 Notes: News</p> <p>0425 Guatemala—TGNC: 3300</p> <p>0330 Japan—R Japan: Reg Svc:NAm/Hawaii 11960 11895 11885</p> <p>0330 Mongolia—R Ulan Bator: NAm 12000 9960 Notes: Tu-We</p> <p>0500 South Africa—Channel Africa: e&amp;cAf/ 9585 5955</p> <p>0400 United Kingdom—BBC: Africa 12095 11730 9610 9600 6190 6005 3255</p> <p>0400 United Kingdom—BBC: Europe 12095 11760 9410 7235 6195 3955</p> <p>0600 USA—WRNO: NAm/CAm 7395 Notes: efl 10-29 04-07</p> <p>2200 Zimbabwe—Radio 3: Domestic 4828 3396 Notes: only 1 active-check both</p>	<p>0355 China—China R Int'l: wNAm/eNAm 11715 9710 9690</p> <p>0327 Czech—R Prague: NAm 7345 5930</p> <p>0400 Honduras—HRPC: Am 3250 Notes: Su-Mo</p> <p>0400 Japan—R Japan: GOS:As 17810 11840</p> <p>0330 Norway—R Norway Int'l: wNAm 6030 Notes: Su only</p> <p>0400 Taiwan—V of Free China: As/Aus/Am 15345 11825 11745 9680 7130 5950</p> <p>0400 United Kingdom—BBC: Americas 9915 7325 6175 5975 5970</p> <p>0400 United Kingdom—BBC: sAsia 15310 9605 7235</p> <p>0400 USA—WSHB: wNAm 5850</p>
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### 0320

0350 Vatican State—Vatican Radio: eAf  
7360

### 0330

<p>0357 Czech—R Prague: ME/sAs 6200</p> <p>0400 Mongolia—R Ulan Bator: NAm 12000 9960 Notes: Fr-Su</p> <p>0400 United Arab Emirates—R Dubai: NAm 21485 15400 13675 11945</p>	<p>0400 Hungary—R Budapest: NAm 11870 9850 5965</p> <p>0400 Sweden—R Sweden: NAm 7120</p>	<p>0400 Moldova—R Moldova: NAm 7500</p> <p>0430 Tanzania—R Tanzania: eAf 5050 Notes: External Svc</p>
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### 0340

0350 Greece—V of Greece: NAm  
9935 9420 7450

### 0345

0400 Burundi—R Burundi: Domestic  
6140  
Notes: News

### 0400

<p>0500 Australia—R Australia: As/Pac/PapNG 17795 17750 17715 15415 15365 13605 11880</p>	<p>0430 Australia—R Australia: As/Pac/PapNG 17880 15245 9660 9580</p>	<p>0429 Canada—R Canada Int'l: ME 9645 9505 6150</p>
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## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 0400

<p>0455 China—China R Int'l: eNAM 9730</p> <p>0450 Germany—R Deutsche Welle: Af/ME 9565 7265 7225 6065 6045 6015</p> <p>0450 North Korea—R Pyongyang: seAs 17765 15230 15180</p> <p>0500 Russia—V of Russia: World Service 9580 7330 7270 7105</p> <p>0450 Turkey—V of Turkey: As/Aus/NAM 9685 9560 7190</p> <p>0500 United Kingdom—BBC: Americas 9590 6175 5975</p> <p>0500 United Kingdom—BBC: sAsia 15310</p> <p>0700 USA—WMLK: 9465 Notes: Mo-Sa</p> <p>0500 USA—WYFR: Eu/Af 9355</p>	<p>0408 Croatia—Croatian Radio: Eu 13830 7370 5895 Notes: News</p> <p>0100 Lebanon—Voice of Hope: ME 6280 Notes: inc Arabic</p> <p>0425 Romania—R Romania Int'l: NAM 11940 9570 9510 6155 5990</p> <p>0500 Slovakia—AWR Europe: eAf 9465</p> <p>0500 Ukraine—R Ukraine Int'l: NAM 7205 6055 6010 5915 5905</p> <p>0500 United Kingdom—BBC: Asia/Pacific 15280 11955</p> <p>0430 USA—VOA: Africa 9885 9630 9575 7405 7340 7280 6110 6035</p> <p>0500 USA—WSHB: eEu/Russia 7535</p>	<p>0500 Cuba—R Havana: cNAM/eNAM 9830U 9820 6180 6000</p> <p>0100 Lebanon—Voice of Hope: Eu/CIS/As 9965 Notes: inc Russian/French/Turkish</p> <p>0500 Russia—AWR Europe: ME 6090</p> <p>0430 Switzerland—Swiss R Int'l: NAM 9905 9885 6135 Notes: #1-05</p> <p>0500 United Kingdom—BBC: Africa 12095 11730 9610 9600 7160 6190 6005 3255</p> <p>0500 United Kingdom—BBC: Europe 15575 12095 11760 9410 7150 6195 6180 3955</p> <p>0500 USA—VOA: Eu/rAf 7170</p> <p>0500 USA—WSHB: c&amp;sAf 9840</p>
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### 0425

0440 Italy—RAI: Mediterranean  
7275 5990

### 0430

<p>0530 Australia—Aust Defense Forces R: Ma 13535U</p> <p>0525 Netherlands—R Netherlands: wNAM 6165 5995</p> <p>0805 Swaziland—Trans World Radio: sAf 5055 Notes: -0835 Mo-Fr</p>	<p>0500 Australia—R Australia: As/Pac/PapNG 17880 15510 15245 9660 9580</p> <p>0630 Swaziland—Trans World Radio: sAf 3200</p> <p>0500 USA—VOA: Africa 9885 9630 9575 7405 7280 6035</p>	<p>0500 Moldova—R Moldova: NAM 7500</p> <p>0530 Swaziland—Trans World Radio: Cape 6070</p> <p>0500 Yugoslavia—R Yugoslavia: wNAM 9580</p>
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### 0440

0650 South Africa—Radio Oranje: nwCape  
5965

### 0459

0716 New Zealand—R New Zealand Int'l: Pa  
11900  
Notes: SaSu -0757

### 0500

<p>0600 Australia—R Australia: As/Pac/PapNG 17880 17795 17715 15415 15365 15245 13605 11880 9660 9580</p> <p>0700 Cuba—R Havana: wNAM 9830U 9820</p> <p>0515 Israel—Kol Israel: As/Aus/wEu/NAM 17545 7465 5885</p> <p>0600 Japan—R Japan: GOS:Eu 6150 5975</p> <p>0545 Seychelles—FEBA: ME 15555 Notes: Fr</p> <p>0600 United Kingdom—BBC: Africa 17885 17640 15420 9600 7160 6190 6005 3255</p>	<p>0600 Bulgaria—R Bulgaria: NAM 9700 7480</p> <p>0700 Ecuador—HCJB: NAM 21455U 9745</p> <p>0600 Japan—R Japan: GOS:As 17810 11740 11725</p> <p>0700 Nigeria—V of Nigeria: wAf 7255</p> <p>0600 South Africa—Channel Africa: wAf/sA 11900 7185</p> <p>0600 United Kingdom—BBC: Americas 9640 6175 5975</p>	<p>0555 China—China R Int'l: wNAM 9595</p> <p>0550 Germany—R Deutsche Welle: NAM 6185 6185 6045 5960</p> <p>0600 Japan—R Japan: GOS:NAM 11885 9605 6110</p> <p>0600 Russia—V of Russia: World Service 7330 7270</p> <p>0600 Spain—R Exterior de Espana: NAM 9540</p> <p>0600 United Kingdom—BBC: Asia/Pacific 15360 15280 11955 9740</p>
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## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 0500

0600 United Kingdom—BBC: Europe 15575 12095 11760 9410 7150 6195 6180 3955 0600 USA—VOA: Africa 9885 9630 7295 6035 0600 USA—WSHB: cEu 7535 0530 Vatican State—Vatican Radio: e&sAf 11625 9660 7360	0600 United Kingdom—BBC: sAsia 15310 0600 USA—VOA: Eu/nAf 9700 7170 0700 USA—WYFR: NAm 5985 2030 Zimbabwe—Christian Voice: Domestic 4965	0600 USA—KWHR: As 9930 0600 USA—VOA: ME 15205 11825 0600 USA—WYFR: Eu/Af 9865
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### 0505

0805 Swaziland—Trans World Radio: s&cAf  
 9500  
 Notes: -0835 Mo-Fr

### 0515

0525 Rwanda—R Rwanda: Af  
 6055  
 Notes: news

### 0530

0600 Austria—ORF: Eu 13730 6155 0555 Romania—R Romania Int'l: Af 17790 17745 15340 15250 11940	0600 Austria—ORF: NAm 6015 0805 Swaziland—Trans World Radio: Cape 6070 Notes: -0835 Mo-Fr	0600 Austria—ORF: ME 17870 15410 Notes: Mo-Sa 0600 United Arab Emirates—R Dubai: seAs/ 21700 17830 15435
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### 0555

0825 Malaysia—V of Malaysia: Aus/NZ/Indo  
 15295 9750 6175

### 0600

0730 Australia—R Australia: As/Pac/PapNG 17715 15530 15415 15365 13605 11880 9860 0650 Germany—R Deutsche Welle: wAf 21705 17820 15185 13790 11765 9565 6100 0830 Kiribati—R Kiribati: Pacific 9825 Notes: 0.5 kw 1000 New Zealand—ZLXA / Print Disabled R 3935 Notes: Mo-Fr   Su -09 0700 Slovakia—AWR Europe: c&wAf/nwEu 11655 5905 0630 Switzerland—Swiss R Int'l: Af 15340 13635 9885 0700 United Kingdom—BBC: Americas 9640 6175 5975 0700 United Kingdom—BBC: sAsia 17790 15310 0700 USA—VOA: ME 15205 11805 0620 Vatican State—Vatican Radio: Eu 5882 4005 Notes: European 1st pgm	0700 Australia—R Australia: As/Pac/PapNG 17880 15510 15245 9660 9580 0830 Italy—Italian Radio Relay Serv: Eu/ 3985 0830 Liberia—ELWA: Regional 4760 Notes: Sa-12 Su-10 0650 North Korea—R Pyongyang: seAs 15230 15180 0700 South Korea—R Korea: wNAm 7205 0615 Switzerland—Swiss R Int'l: Eu 9535 6165 0700 United Kingdom—BBC: Asia/Pacific 15360 15280 11955 9740 7145 0630 USA—VOA: Africa 15600 12080 11950 9435 7285 6035 0800 USA—WSHB: wEu 7535	0629 Canada—R Canada Int'l: Af/ME/Eu 11905 9760 9740 6150 6050 Notes: Mo-Fr 0700 Japan—R Japan: GOS:As 17810 11725 0800 Malta—V of the Mediterranean: ME 9765 1557 0800 Russia—V of Russia: World Service 7330 7270 5905 0700 Swaziland—Trans World Radio: wAf 11730 0700 United Kingdom—BBC: Africa 17885 17640 15420 11940 9600 7160 6005 0700 United Kingdom—BBC: Europe 15575 15070 12095 11780 11760 9410 7150 6195 6180 3955 0700 USA—VOA: Eu/nAf 11805 7170 0800 USA—WYFR: Eu/Af 9985 9680 7355
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## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 0603

0608 Croatia—Croatian Radio: Eu  
13830 9830 7370 5920  
Notes: News

### 0605

0805 Swaziland—Trans World Radio: Cape  
9650  
Notes: -0835 Mo-Fr

### 0630

0700 Austria—ORF: NAm  
6015

0700 USA—VOA: Africa  
15600 12080 11950 7285 6035  
Notes: Sa-Su

0700 Vatican State—Vatican Radio: c&s&WA  
11625 9660

### 0632

0642 Romania—R Romania Int'l: Eu  
11840 11775 9665 9510 7175  
7105  
Notes: news

### 0635

0805 Swaziland—Trans World Radio: sAf  
6070  
Notes: -0835 Mo-Fr

### 0645

0715 Romania—R Romania Int'l: Pac  
17805 17720 15335 15250 11775

### 0655

1650 South Africa—Radio Oranje: nwCape  
7270

### 0700

0730 Australia—R Australia: As/Pac/PapNG  
17880 15245 9660 9580

0800 Japan—R Japan: GOS:As  
21610 17810 11740 11725

0800 Japan—R Japan: GOS:ME  
15165

0730 Norway—R Norway Int'l: wEu/NZ  
7180  
Notes: Su only

0800 United Kingdom—BBC: Africa  
17885 17830 15400 15070 11940  
11860 9600 9600 7160

0800 United Kingdom—BBC: Europe  
15575 15070 12095 11780 11760  
9410 7325 6195 6180 3955

0830 Ecuador—HCJB: Eu  
21455U 6050

0800 Japan—R Japan: GOS:Oc  
11850

0800 Japan—R Japan: GOS:cAf  
17815

0730 Switzerland—Swiss R Int'l: Eu  
9535 6165

0800 United Kingdom—BBC: Americas  
9640 6175 5975

0800 United Kingdom—BBC: sAsia  
17790 15310

1130 Ecuador—HCJB: sPac  
21455U 5900

0800 Japan—R Japan: GOS:Eu  
7230 5975

0750 North Korea—R Pyongyang: seAs  
17765 15340

0800 Taiwan—V of Free China: NAm  
5950

0800 United Kingdom—BBC: Asia/Pacific  
15360 15280 11955 9740 7145

0800 USA—WEWN: SAM  
7465

### 0717

1206 New Zealand—R New Zealand Int'l: Pa  
9700  
Notes: SaSu 0758-

### 0730

0755 Belgium—R Vlaanderen Int'l: Aus/Eu  
9925 5985

0757 Czech—R Prague: Af  
15640

0825 Netherlands—R Netherlands: Pacific  
11895 9720

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 0740

0920 Monaco—Trans World Radio: UK  
7115  
Notes: Su-0905

### 0745

0915 Guam—KTWR: FE  
15200

### 0800

<p>1000 Australia—Aust Defense Forces R: eA 18191U 15606U</p> <p>0827 Czech—R Prague: Eu 7345 5930</p> <p>0850 North Korea—R Pyongyang: seAs 15230 15180</p> <p>1100 Palau—KHBN: Aus 15140 Notes: inc Indonesian</p> <p>0900 United Kingdom—BBC: Africa 17885 17830 15400 15070 11940 6190</p> <p>0900 United Kingdom—BBC: Europe 17640 15575 15400 15070 12095 11760 9410 7325 6195</p> <p>1400 USA—KWHR: As 9930</p>	<p>0830 Australia—R Australia: As/Pac/PapNG 21725 17715 15530 15415 9860 9710 9580 6080 6020 5995</p> <p>0900 N Mariana Is—KHBI: eEu 15665</p> <p>0855 Pakistan—R Pakistan: wEu 17900 15625</p> <p>0900 South Korea—R Korea: Eu 13670 7550</p> <p>0900 United Kingdom—BBC: Americas 9640</p> <p>0900 United Kingdom—BBC: sAsia 17790 15310</p> <p>1000 USA—WSHB: Eu 7535</p>	<p>1200 Costa Rica—R for Peace Int'l: LAm/N 9400U 7385 Notes: #2 SaSu</p> <p>0900 N Mariana Is—KHBI: NZ 9425</p> <p>1400 Palau—KHBN: Japan/Korea 9730 Notes: inc Japanese/Korean</p> <p>0805 Switzerland—Red Cross B/C Svc: Af 13635 12070 9885 Notes: every 4 wks Fr-Sa-Su eff 9/29</p> <p>0900 United Kingdom—BBC: Asia/Pacific 15360 15280 11955 9740</p> <p>0900 USA—KNLS: eCIS/China 6150</p>
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### 0803

0808 Croatia—Croatian Radio: Eu  
13830 9830 7370 5920  
Notes: News

### 0830

<p>0900 Australia—R Australia: As/Pac/PapNG 21725 17715 15530 9860 9710 9580 6080 6020 5995</p> <p>2130 Australia—VL8T: Domestic 2325</p> <p>1430 Italy—Italian Radio Relay Serv: Eu/ 7125</p>	<p>2130 Australia—VL8A: Domestic 2310</p> <p>0900 Austria—ORF: Eu 13730 6155</p> <p>0925 Netherlands—R Netherlands: Pacific 13700 9720</p>	<p>2130 Australia—VL8K: Domestic 2485</p> <p>0900 Austria—ORF: Aus 17870</p> <p>0857 Slovakia—R Slovakia Int'l: Aus 21705 17985 11990</p>
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### 0845

1000 Guam—KTWR: sPac  
11830

### 0900

<p>1030 Australia—R Australia: As/Pac/PapNG 21725 13605 9860 9580 9510 7240</p> <p>0950 Germany—R Deutsche Welle: As/Pac 21680 17820 17780 11715 7380 6160</p> <p>1000 N Mariana Is—KHBI: Japan/Kor/CIS 9430</p> <p>1000 Slovakia—AWR Europe: wAf 15620</p>	<p>0955 China—China R Int'l: sPac 15440 11755</p> <p>1000 Japan—R Japan: GOS:As 15190 6090</p> <p>1000 N Mariana Is—KHBI: Aus 13615</p> <p>0930 Switzerland—Swiss R Int'l: Pac 17515 13685 9885</p>	<p>0950 Germany—R Deutsche Welle: Af 21600 17800 15410 15145 11725 9565</p> <p>1000 Japan—R Japan: Reg Svc: Oc 11850</p> <p>1500 Palau—KHBN: China/As/India 9965 Notes: inc Mandarin/Urdu/Vietnamese</p> <p>1000 United Kingdom—BBC: Africa 17885 17850 15400 15070 11940 6190</p>
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## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 0900

1000 United Kingdom—BBC: Americas 15190	1000 United Kingdom—BBC: Asia/Pacific 17830 15280 9740 6195	1000 United Kingdom—BBC: Europe 17705 17640 15575 15400 15070 12095 11760 9410 7325 6195
1000 United Kingdom—BBC: sAsia 11750	1000 USA—WSHB: Brazil/SAm 7395	

### 0910

0940 Mongolia—R Ulan Bator: Aus  
12000 9960

### 0930

1000 Armenia—V of Armenia: Eu 15370 15275 Notes: Su	1025 Netherlands—R Netherlands: Pacific 9810 9720 7260	1100 Philippines—FEBC: China/seAs 11690
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### 1000

1100 Australia—Aust Defense Forces R: Ma 13535U	1025 Belgium—R Vlaanderen Int'l: AI/Eu 17595 15510 6035	1055 China—China R Int'l: sPac 11755 6590
1030 Czech—R Prague: wAI/sAs 17485 15640	1100 India—AI R: GOS/IneAs/AusNZ 17895 17387 15180 15050	1830 Libeña—ELRL: Regional 6090
1100 N Mariana Is—KHBI: Indon 13625	1100 N Mariana Is—KHBI: China 9430	1100 Nigeria—V of Nigeria: wAI 7255
1100 Russia—V of Russia: World Service 15490 12005 9685 7305	1100 United Kingdom—BBC: Africa 17885 17830 17705 15400 15070 11940 6190	1100 United Kingdom—BBC: Americas 15190
1100 United Kingdom—BBC: Asia/Pacific 17830 15280 9740 7110 6195	1100 United Kingdom—BBC: Europe 17705 17640 15575 15400 15070 12095 11760 9410	1100 United Kingdom—BBC: sAsia 17790 15310 11750
2400 USA—KVOH: NAm/Carib 17775 Notes: inc Spanish prgms	1200 USA—VOA: Caribbean 9590 7405 6165	1100 USA—VOA: eAs/seAs/Pac 15425 11720 5985 Notes: primarily to Pacific region
1200 USA—WEWN: Eu 7465	1500 USA—WHRl: Eu 6040	1300 USA—WSHB: eNAM/Carib 6095 6095
1100 USA—WSHB: SAm 7395	1100 USA—WYFR: NAm 5950 Notes: Network Mo-Sa	1025 Vietnam—V of Vietnam: As 15009 12020 9840 Notes: #2 alt

### 1005

1010 Togo—R Togo: Af  
7265  
Notes: news

### 1030

1100 Australia—R Australia: As/Pac/PapNG 21725 9860 9580 7240	1100 Austria—ORF: Eu 13730 6155 Notes: Mo-Sa	1100 Austria—ORF: Aus 18780 Notes: Mo-Sa
1125 Netherlands—R Netherlands: FE 9810 7260	1059 South Korea—R Korea: eNAM 11715	1130 Sri Lanka—SLBC: seAs/Aus 17850 11835
1055 United Arab Emirates—R Dubai: Eu/nA 21605 17825 15395 13675		

### 1100

1130 Australia—R Australia: As/Pac/PapNG 15530 9860 9615 9580 7240	1300 Costa Rica—AWR Pan America: Am 13750 9725 9725 7375 6150 5030	1500 Ecuador—HCJB: Carib 21455U 12005
1150 Germany—R Deutsche Welle: wAI 17800 17765 15410 15370	1105 Israel—Kol Israel: Eu 11605	1200 Japan—R Japan: GOS:As 15350 6090
1200 Japan—R Japan: GOS:NAm 6120	1200 N Mariana Is—KHBI: Japar/Kor/CIS 9355	1200 N Mariana Is—KHBI: Aus 9430
1150 North Korea—R Pyongyang: Am 11335 9977 6576	1120 Pakistan—R Pakistan: wEu 17900 15625 Notes: Slow-speed English	1200 Russia—V of Russia: World Service 17860 15560 15490 13785 12055

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 1100

<p>1400 Singapore—R Singapore Int'l: Extern 9530</p> <p>1200 Taiwan—V of Asia: As 7445</p> <p>1200 United Kingdom—BBC: Asia/Pacific 11955 9740 9580 7180 6195</p> <p>1200 USA—VOA: eAs/seAs/Pac 15425 15160 11720 9760 9645 6110 5985</p> <p>2200 USA—WWCR: Eu/ME/nAf 15685 Notes: tx #1</p>	<p>1130 Switzerland—Swiss R Int'l: FE 17515 15545 13635</p> <p>1200 United Kingdom—BBC: Africa 21660 17885 17830 17705 15070 11940 6190</p> <p>1200 United Kingdom—BBC: Europe 17705 17640 15575 15400 15070 12095 11760 9410</p> <p>1400 USA—WRMI: CAm/Carb 9955 Notes: also Spanish lang</p> <p>1200 USA—WYFR: NAm 7355 5950 Notes: #2 Network Mo-Sa</p>	<p>1130 Switzerland—Swiss R Int'l: Eu 9535 6165</p> <p>1200 United Kingdom—BBC: Americas 15220 15190 9515 7325 6195 5965</p> <p>1200 United Kingdom—BBC: sAsia 17790 15310 11750</p> <p>1200 USA—WSHB: CAm/SAm 7395</p> <p>1120 Vatican State—Vatican Radio: Eu 17550 15570 11740 5882 Notes: Mo-Fri/European 1st pgm</p>
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### 1130

<p>1200 Australia—R Australia: As/Pac/PapNG 15530 9860 9615 9580 9560</p> <p>1157 Czech—R Prague: Eu 9505 7345</p> <p>1225 Netherlands—R Netherlands: Eu 7190 6045</p>	<p>1200 Austria—ORF: NAm 13730</p> <p>1430 Ecuador—HCJB: NAm/SAm 21455U 15115 15115</p>	<p>1145 Burundi—R Burundi: Domestic 6140 Notes: News</p> <p>1227 Iran—V of Islamic Rep of Iran: ME/As 11930 11875 11790 11745</p>
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### 1145

1155 Rwanda—R Rwanda: Af  
6055  
Notes: news

### 1200

<p>1300 Australia—R Australia: As/Pac/PapNG 15530 11800 9615 9580 9560 5995</p> <p>2200 Costa Rica—R for Peace Int'l: LAm/N 15049 9400U</p> <p>1300 N Mariana Is—KHBI: seAs 9355</p> <p>1300 South Korea—R Korea: GOS 7180</p> <p>1300 United Kingdom—BBC: Africa 21660 17885 17830 17705 11940 6190</p> <p>1300 United Kingdom—BBC: Europe 17705 17640 15575 15070 12095 11760 9410</p> <p>1300 USA—WEWN: SAm 6000</p> <p>1300 USA—WSHB: CAm/SAm 9455</p> <p>1225 Uzbekistan—R Tashkent: As 9715 6025 5975 5060</p>	<p>1320 Brazil—R Nacional de Brasil: NAm/CA 15445</p> <p>1300 France—R Franca Int'l: Eu/Al/As/Pac 17575 15325 15195 15165 13625 9805</p> <p>1300 N Mariana Is—KHBI: Aus 9430</p> <p>1230 Switzerland—Swiss R Int'l: Eu 9535 6165</p> <p>1300 United Kingdom—BBC: Americas 15220 9515 6195</p> <p>1300 United Kingdom—BBC: sAsia 15310 11750</p> <p>1400 USA—WEWN: Eu 15115</p> <p>1500 USA—WWCR: Eu/ME/nAf 7435 Notes: tx #3</p>	<p>1255 China—China R Int'l: As/Pac 15440 11660 9715 9655</p> <p>1300 Jordan—R Jordan: wEu/NAm 11970</p> <p>1300 Russia—V of Russia: World Service 17860 13785 9875 9755</p> <p>1300 Taiwan—V of Free China: As/Oc 9610 7130</p> <p>1300 United Kingdom—BBC: Asia/Pacific 11955 9740 9580 6195 6100</p> <p>1330 USA—VOA: eAs/seAs/Pac 15425 15160 11715 9760 9645 6110</p> <p>2100 USA—WGTG: Canada/Mexico 9475 Notes: Fr-Sa-Su</p> <p>1300 USA—WYFR: NAm 11970 11830 7355 5950 Notes: #1&amp;2&amp;4 Network Mo-Sa</p>
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### 1203

1208 Croatia—Croatian Radio: Eu  
13830 7370 5920  
Notes: News

### 1215

1330 Egypt—R Cairo: sAs  
17595

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 1230

- |  |   |  |
|--|---|--|
| 1300 Bangladesh—R Bangladesh: As<br>9650 7185 7105                 | 1330 Bulgaria—R Bulgana: As<br>11605 9810                           | 1259 Canada—R Canada Int'l: As<br>11730 6150     |
| 1300 Finland—R Finland: NAm<br>15400 11735                         | 1255 Monaco—Trans World Radio: UK<br>7115<br>Notes: Sa&Su   Sa-1300 | 1325 Netherlands—R Netherlands: Eu<br>7190 6045  |
| 1240 Somalia—R Mogadishu: Dom<br>6870                              | 1300 South Korea—R Korea: seAs<br>13670 9570                        | 1300 Sweden—R Sweden: As/Pac<br>15240 13740 9835 |
| 1255 Vietnam—V of Vietnam: As<br>15009 12020 9840<br>Notes: #2 alt |   |  |

### 1240

- 1250 Greece—V of Greece: Af  
15650

### 1245

- 1250 Switzerland—Red Cross B/C Svc: FE  
13635 11640 9885  
Notes: every 4 wks Fr-Sa-Su eff 9/29

### 1300

- |   |  |  |
|---|--|--|
| 1330 Australia—R Australia: As/Pac/PapNG<br>11800 9615 9580 9560 9510<br>5995 | 1325 Belgium—R Vlaanderen Int'l: NAm<br>13670<br>Notes: Mo-Sa                        | 1359 Canada—R Canada Int'l: Carib/NAm<br>11955 9635              |
| 1355 China—China R Int'l: As/Pac<br>15440 11660 9715                          | 1400 N Mariana Is—KHBI: India<br>9355  | 1400 N Mariana Is—KHBI: Indon<br>13625                           |
| 1350 North Korea—R Pyongyang: seAs<br>15230 13760 9640                        | 1350 North Korea—R Pyongyang: Eu<br>11730 9345                                       | 1350 North Korea—R Pyongyang: Am<br>15230 13760                  |
| 1330 Norway—R Norway Int'l: Aus/Eu/As<br>15605 9590 7315<br>Notes: Su only    | 1600 Philippines—FEBC: seAs/India<br>11995   | 1355 Poland—Polish Radio Warsaw: Eu<br>11815 9525 7270 7145 6135 |
| 1355 Romania—R Romania Int'l: Eu<br>17775 15390 11940                         | 1400 Russia—V of Russia: World Service<br>17880 12055                                | 1330 Switzerland—Swiss R Int'l: FE/seAs<br>13635 11640 7480 7230 |
| 1330 Switzerland—Swiss R Int'l: Eu<br>9535 6165                               | 1400 United Kingdom—BBC: Africa<br>21660 21470 17885 17830 17705<br>15420 11940 6190 | 1400 United Kingdom—BBC: Americas<br>15220 9515 6195 5965        |
| 1400 United Kingdom—BBC: Asia/Pacific<br>9740 6195 5990                       | 1400 United Kingdom—BBC: Europe<br>21470 17705 17640 15575 15070<br>12095 11760 9410 | 1400 United Kingdom—BBC: sAsia<br>15310 11750                    |
| 1600 USA—KJES: wCanada<br>11715<br>Notes: irregular                           | 1400 USA—KNLS: eAs<br>7365   | 1400 USA—WEWN: NAm<br>11875 7425                                 |
| 1400 USA—WEWN: SAm<br>15375   | 1800 USA—WHRI: SAm<br>15105  | 1400 USA—WSHB: cAm<br>6095                                       |
| 1400 USA—WSHB: Mexico<br>9455   | 1400 USA—WYFR: NAm<br>13695 11970 11830 9705 5950<br>Notes: #2&3&5 Network Mo-Sa     |  |

### 1302

- 1502 USA—WYFR: India  
11550

### 1307

- 1649 New Zealand—R New Zealand Int'l: Pa  
9655  
Notes: occasional use

### 1330

- |   |                               |  |
|---|-------------------------------|--|
| 1400 Australia—R Australia: As/Pac/PapNG<br>11800 9615 9580 9560 5995 | 1400 Austria—ORF: As<br>15450 | 1355 Belgium—R Vlaanderen Int'l: NAm<br>13670<br>Notes: Su |
|---|-------------------------------|--|

## Schedules

UTC Start & End | Country—Station; Target | Frequencies and Notes

*Read columns left to right.*

### 1330

1357 Canada—R Canada Int'l: eAs 9535 6150 1425 Netherlands—R Netherlands: sAs 15150 13700 9895 1355 United Arab Emirates—R Dubai: Eu/nA 21605 17825 15395 13675 1355 Vietnam—V of Vietnam: eAs 15009 12020 9840 Notes: #2 alt	1400 Finland—R Finland: NAm 15400 11735 1400 Sweden—R Sweden: NAm 15240 11650 1400 USA—VOA: eAs/seAs/Pac 15425 15160 9760 9645 6110	1500 India—AIR: GOS/seAs 13750U 7410 1400 Turkey—V of Turkey: As/Eu 9630 9445 1355 Uzbekistan—R Tashkent: As 9715 6025 5975 5060
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### 1345

1405 Vatican State—Vatican Radio: As/Aus  
15585 11625 9630

### 1400

1500 Australia—Aust Defense Forces R: eA 10621U 8743U 1455 China—China R Int'l: As/Am 9785 9535 7405 1500 Japan—R Japan: GOS:As 11895 9695 6090 1500 Morocco—R-TV Morocco: 17595 Notes: Su 1500 Russia—V of Russia: World Service 17880 12065 1500 United Kingdom—BBC: Asia/Pacific 9740 6195 5990 1600 USA—KWHR: As 9930 1600 USA—WEWN: NAm 11875 9455 0100 USA—WWCR: Eu/ME/nA 13845 Notes: tx #2	1430 Australia—R Australia: As/Pac/PapNG 11800 11695 9580 9595 1430 Czech—R Prague: eAI/NAm 17485 13580 1500 Japan—R Japan: GOS:NAm 11705 9535 1500 N Mariana Is—KHBI: India/China 9355 1500 United Kingdom—BBC: Africa 21660 21470 17830 17705 15400 11940 6190 1500 United Kingdom—BBC: Europe 21470 17705 17640 15575 15070 12095 9410 1500 USA—VOA: eAs/seAs/Pac 15425 15160 9760 7215 6110 1600 USA—WEWN: Eu 15235 1500 USA—WYFR: NAm 17760 11630 9705 Notes: #1&2 Network Mo-Sa	1459 Canada—R Canada Int'l: Carib/NAm 11955 9640 Notes: Su-Fri/Su -1659 1500 France—R France Int'l: ME/As 17560 15405 7110 1600 Malta—V of the Mediterranean: Eu/ME 11925 Notes: Su -1435 1430 Norway—R Norway Int'l: NAm/Eu 11840 Notes: Su only 1500 United Kingdom—BBC: Americas 17840 15260 9515 1500 United Kingdom—BBC: sAsia 15310 11750 7205 1500 USA—VOA: sAs 15395 15205 9760 9645 7215 7125 6110 2300 USA—WRNO: NAm/CAm/Eu 15420 Notes: off 10/29 15-
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### 1430

1630 Australia—R Australia: As/Pac/PapNG 11800 11695 11660 9615 9580 6090 6080 6060 5995 1459 Canada—R Canada Int'l: Eu/ME/AF 15325 11935 11915 9555 1525 Netherlands—R Netherlands: sAs 15150 13700 9895	1500 Austria—ORF: Eu 13730 6155 1600 Ecuador—HCJB: SAm 21455U 15115 1455 Romania—R Romania Int'l: As 17720 15335 11775	1500 Austria—ORF: As 15450 2100 Italy—Italian Radio Relay Serv: Eu/ 3985 1500 Sweden—R Sweden: NAm 15240 11650
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### 1435

1445 Greece—V of Greece: Eu  
15690 9420

### 1445

1515 Mongolia—R Ulan Bator: sAs  
9950 7290

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 1500

1505 Burundi—R Burundi: Domestic 6140 Notes: Mo-Fr News	1550 China—China R Int'l: As/Am 9785 9535 7405	1630 Guam—KTWR: s&eAs 11580
1600 Japan—R Japan: GOS:As 9695 7240 6090	1600 Japan—R Japan: GOS:NAm 9535	1600 Japan—R Japan: GOS:sAI 15355
1730 Jordan—R Jordan: wEu/NAm 11970	1600 N Mariana Is—KHBI: India/China 9355	1700 Nigeria—V of Nigeria: wAI 7255
1550 North Korea—R Pyongyang: ME/Al 9977 9640	1550 North Korea—R Pyongyang: Eu 13785 9325	1530 Norway—R Norway Int'l: ME 11730 9520 Notes: Su only
1600 Russia—V of Russia: World Service 11945 9905	1530 Seychelles—FEBA: sAs 11870 Notes: SaSu -1545	1600 Seychelles—FEBA: sAs 9810 Notes: Mo-Sa (Int'l Pgm)
1600 South Africa—Channel Africa: e&cAI/ 9545 7240	1530 Switzerland—Swiss R Int'l: sAs 13635 12075 11640	1600 United Kingdom—BBC: Africa 21660 21490 21470 17880 17830 15420 15400 11940 11860 6190
1600 United Kingdom—BBC: Americas 15260 11865 9515	1600 United Kingdom—BBC: Asia/Pacific 9740 7180 6195 5990	1600 United Kingdom—BBC: Europe 21470 17705 15400 15070 9410
1600 United Kingdom—BBC: sAsia 11750 7205	2330 USA—KAIJ: Canb/wNAm 15725 13815	1600 USA—VOA: eAs/seAs/Pac 9760 7215 6110
1700 USA—VOA: ME 15205 9700	1700 USA—VOA: sAs 15395 15205 9760 9700 9645 7215 7125 6110	2200 USA—WHRI: Eu 13760
2300 USA—WWCR: Eu/ME/nAI 12160 Notes: Tx #3	1600 USA—WYFR: NA 17760 15215 11830 Notes: #1&3 Network Mo-Sa	

### 1530

1545 India—AIR: GOS/sAs/ME 11670 11585 9910 7410 7140	1627 Iran—V of Islamic Rep of Iran: As 15260 11875	1625 Netherlands—R Netherlands: sAs 15150 9895
1600 Portugal—R Portugal: ME/FE 21515 Notes: Mo-Fr		

### 1545

1600 Vatican State—Vatican Radio: As/Aus 11640 9630
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### 1600

1655 China—China R Int'l: AI 15130 15110 11575	1700 France—R France Int'l: AI/ME/Eu 17560 15530 15460 15210 12015 11700 11615 6175	1700 Germany—R Deutsche Welle: AI 15145 13610 11965 9735 7195
1650 Germany—R Deutsche Welle: sAs 9585 7305 7225 6170	1700 Guam—KSDA: India 9370	1800 N Mariana Is—KHBI: sAI 9355
1630 Pakistan—R Pakistan: AI/ME 15555 13590 11710 11570 9470 7425 Notes: Slow-speed news 1615	1700 Russia—V of Russia: World Service 13670 11945 9905	1700 South Africa—Channel Africa: c&wAI/ 15240 9545 7240
1700 South Korea—R Korea: Eu/ME/Al 9870 9525 5975	1830 Swaziland—Trans World Radio: eAI 9500	1640 United Arab Emirates—R Dubai: Eu/nA 21605 17825 15395 13675 Notes: #1 anncd as 11795
1700 United Kingdom—BBC: Africa 21660 21470 17830 17705 15420 15400 11860 9630 6190	1700 United Kingdom—BBC: Americas 17840 9515	1700 United Kingdom—BBC: Asia/Pacific 7135 3915
1700 United Kingdom—BBC: Europe 21470 15400 15070 12095 9740 9410	1700 United Kingdom—BBC: sAsia 11750 9740 9510 7205 5975	2400 USA—KTBN: eNA 15590
1800 USA—KWHR: Oc 6120	1630 USA—VOA: Africa 17895 15445 15410 15225 13710 12040 11920 3970 Notes: Sa-Su	1955 USA—WEWN: NA 13615 11580
1900 USA—WINB: Eu/nAI 15715 Notes: off the air, may return soon	1700 USA—WSHB: eAI 21640	1700 USA—WYFR: Eu/Al 21745 21525 15566

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 1600

1620 Vatican State—Vatican Radio: eAl/As 11640 9500 Notes: Sa Mass	1625 Vietnam—V of Vietnam: Af 15009 12020 9840 Notes: #2 alt
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### 1620

1630 Estonia—R Tallinn: Eu  
5925

### 1630

1800 Australia—R Australia: As/Pac/Pap/NG 11880 11695 11660 9860 9615 9580 6090 6080 6060	1700 Austria—ORF: As 11780	1657 Canada—R Canada Int'l: India 9550 7150
1830 Egypt—R Cairo: c&sAf 15255	2200 Libena—ELWA: Regional 4760 Notes: Sa 16-2130 Su 17-21	1700 USA—VOA: Africa 17895 15445 15410 15225 13710 12040 11920 3970

### 1640

1650 Rwanda—R Rwanda: Af  
6055  
Notes: Su|news

### 1645

1700 Afghanistan—R Afghanistan: As 7200	1650 Switzerland—Red Cross B/C Svc: sAs 13635 12075 9885 Notes: every 4 wks Fr-Sa-Su eff 9/29
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### 1650

1850 New Zealand—R New Zealand Int'l: Pa  
5960  
Notes: Mo-Fr

### 1655

0435 South Africa—Radio Oranje: nwCape  
3230

### 1700

1755 China—China R Int'l: Af 11575 9535 7405	1800 Costa Rica—AWR Pan America: Am 13750 Notes: Sa	1727 Czech—R Prague: ME/Eu 9430 5930
2000 Ecuador—HCJB: Eu 15490	1730 France—R France Int'l: ME/Af 15460 15210	1800 Japan—R Japan: GOS:As 9580 7280 6150
1800 Japan—R Japan: GOS:NAf 9535	1800 Japan—R Japan: GOS:ME/nAf 11930	1750 North Korea—R Pyongyang: ME/Af 9977 9640
1750 North Korea—R Pyongyang: Eu 13785 9325	1755 Pakistan—R Pakistan: wEu 11570 7485	1800 Russia—V of Russia: World Service 13670 9890 9585 7180
1800 Slovakia—AWR Europe: eAf 9475	1800 South Africa—Channel Africa: e&cAf/ 9545 7240	2045 Swaziland—Trans World Radio: sAf 1170
1730 Switzerland—Swiss R Int'l: ME/Af/Eu 13635 9885 7510 5850	1800 United Kingdom—BBC: Africa 17830 15400 11860 9630 6190 6005	1900 United Kingdom—BBC: Americas 17840 9515 Notes: #2 Sa
1745 United Kingdom—BBC: Asia/Pacific 7135 3915	1800 United Kingdom—BBC: Europe 15070 12055 9410 7160 6195 6180 3955	1800 United Kingdom—BBC: sAsia 11750 9740 9510
1800 USA—VOA: Africa 17895 15445 15410 13710 12040 11920	1800 USA—VOA: eAs/seAs/Pac 15255 12005 11945 9770 9670 9525 7215 6110 6045 5990 Notes: #5,6,9,10 Mo-Fr	1900 USA—VOA: Eu/nAf 6040
1800 USA—VOA: ME 15205 9760 6040	1800 USA—VOA: sAs 15395 15205 9770 9760 9645 7215 7125 6110 Notes: #3 Mo-Fr	2000 USA—WMLK: 9465 Notes: Su-Fr

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

<b>1700</b>		
0400 USA—WRMI: CAm/Carib 9955 Notes: Sa   also Spanish lang	0100 USA—WRMI: CAm/Carib 9955 Notes: Su   also Spanish lang	1800 USA—WSHB: eAf 21640
1800 USA—WWHA: Eu 9975 Notes: Su	1800 USA—WWHA: Eu 9975 Notes: Mo&We&Fr	2100 USA—WWHA: Af 15745 Notes: Tu&Th
1900 USA—WYFR: Eu/Af 17760 15566		
<hr/>		
<b>1715</b>		
1730 Albania—R Tirana: UK 9740 7155 Notes: freq's drift	1745 Sweden—R Sweden: Eu 6065	1730 Vatican State—Vatican Radio: Eu 11810 7250 4005 Notes: European 1st pgm
<hr/>		
<b>1730</b>		
1825 Netherlands—R Netherlands: s&e&wAf 11655 9605 6020	1800 Romania—R Romania Int'l: Af 17805 15365 15340 11830	1800 Vatican State—Vatican Radio: e&sAf 11635 11625 9660
<hr/>		
<b>1745</b>		
1815 Bangladesh—R Bangladesh: Eu 15520 9560 7190 Notes: V of Islam	1800 Burundi—R Burundi: Domestic 6140 Notes: News	1759 Canada—R Canada Int'l: Eu/ME/Af 17820 15325 11935 9555 5995 Notes: Mo-Fr
1945 India—AIR: GOS/e&w&nAf/wEu/ME 15075 13750 11935 11620 9950 9650 7410	1800 Swaziland—Trans World Radio: sAf 3200 Notes: Mo-Fr	
<hr/>		
<b>1800</b>		
1900 Algeria—R Algiers Int'l: Eu/ME/Af 15160 11715	1900 Australia—R Australia: As/Pac/PapNG 11880 11695 11660 9660 9580 7260 6090 6080 6060	1920 Brazil—R Nacional de Brasil: Eu 15265
1827 Czech—R Prague: Aus/Eu 9430 5930	2100 Kuwait—R Kuwait: Eu 11590	1830 Lebanon—V of Lebanon: ME 6550
1900 N Mariana Is—KHBI: NZ 9355	2000 N Mariana Is—KHBI: Eu/ME 9355	1900 Philippines—R Philippines: As 17840 15190 Notes: also Tagalog
1855 Poland—Polish Radio Warsaw: Eu 7285 7270 6095	1900 Russia—V of Russia: World Service 9890 7205 7180	1900 Sudan—Sudan Nat'l B/C Corp: Regiona 9025
2015 Swaziland—Trans World Radio: sAf 3200 Notes: -2045 Su	2015 Swaziland—Trans World Radio: sAf 3200	1900 United Kingdom—BBC: Africa 17830 15420 15400 11660 9630 6190 6005 3255
1900 United Kingdom—BBC: Europe 15070 12095 9740 9410 7325 7160 6195 6180 3955	1900 United Kingdom—BBC: sAsia 11750 9740 9510	1900 USA—KJES: Aus 15385 Notes: irregular
2000 USA—KWHR: Oc 13625	1900 USA—VOA: Africa 15580 15410 13710 12040 11920 4875 Notes: #7 Mo-Fr	1900 USA—VOA: ME 9760 6040
2100 USA—WEWN: Eu 13695	1300 USA—WHRl: SAm 9495	2000 USA—WSHB: eEu 13770
1900 USA—WSHB: sAf 17510	2200 USA—WWHA: Eu 15745 Notes: Su	2000 USA—WWHA: Eu 9930 Notes: Mo&We&Fr
1825 Vietnam—V of Vietnam: Eu 15009 12020 9840 Notes: #2 all	1900 Yemen—Rep of Yemen R: ME 9780	
<hr/>		
<b>1815</b>		
1900 Bangladesh—R Bangladesh: Eu 15520 9560 7190		

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

<b>1830</b>		
1900 Belarus—R Belarus: Eu 11960 11840 7210 5910 Notes: Tu 1900 Sweden—R Sweden: Eu/AF/ME 9655 7240 6065	1925 Netherlands—R Netherlands: s&e&wAF 17605 15315 11655 9895 9860 9605 6020 6015 4945 1900 United Kingdom—BBC: Asia/Pacific 9740	1840 Somalia—R Mogadishu: Dom 6870
<hr/>		
<b>1840</b>		
1850 Greece—V of Greece: AF 15650 11645		
<hr/>		
<b>1845</b>		
1900 Armenia—V of Armenia: Eu/ME 9965 7480 4990 4810 Notes: Mo-Fr	1850 Switzerland—Red Cross B/C Svc: ME/A 13635 9885 5850 Notes: every 4 wks Fr-Sa-Su elf 9/29	
<hr/>		
<b>1851</b>		
1951 New Zealand—R New Zealand Int'l: Pa 9655		
<hr/>		
<b>1900</b>		
2000 Argentina—RAE: Eu/AF 15345 Notes: Mo-Fr 1955 China—China R Int'l: AF 9440 6955 1910 Greece—V of Greece: Eu 9375 2000 Japan—R Japan: GOS:As 9580 6150 2100 Nigeria—V of Nigeria: wAF 7255 2000 Russia—V of Russia: World Service 9890 9585 7205 7180 5940 2045 Swaziland—Trans World Radio: sAF 3240 2000 United Kingdom—BBC: Asia/Pacific 11955 9740 2000 USA—VOA: eAs/saAs/Pac 15180 11870 9525 Notes: primarily to Pacific region 2000 USA—WVHA: Eu 9930 Notes: Sa	2100 Australia—R Australia: As/Pac/PapNG 11880 11695 11660 9860 9580 7260 6150 6080 6060 2000 Costa Rica—AWR Pan America: Am 15460 13750 2300 Guatemala—AWR Pan America: LAm 5980 2000 Japan—R Japan: GOS:NAm 9535 1930 Norway—R Norway Int'l: AF/NZ/Eu 9590 7485 6195 5960 Notes: Su only 1915 Sierra Leone—SLBS: 3316 Notes: Sa UN Radio 2000 Thailand—R Thailand: Eu 11905 9655 7295 2000 United Kingdom—BBC: Europe 12095 9410 6195 6180 5975 3955 2000 USA—VOA: ME 9760 2000 USA—WYFR: Eu/AF 17760	1925 Belgium—R Vlaanderen Int'l: AF/Eu 9925 5910 1950 Germany—R Deutsche Welle: wAF/ME 15425 15145 13790 11865 11810 11785 9765 9765 2400 Honduras—HRJA: neNAm 15675 Notes: -01 Mo   also Spanish lang 2000 Japan—R Japan: GOS Oc 11850 7140 1955 Romania—R Romania Int'l: Eu 9510 7195 7105 6105 2000 South Korea—R Korea: Eu/As 7275 6480 5975 2000 United Kingdom—BBC: Africa 17830 15400 9630 6190 6005 3255 2000 USA—VOA: Africa 15580 15410 13710 12040 11920 7415 2000 USA—WSHB: wAF 17510 1925 Vietnam—V of Vietnam: Eu 15009 12020 9840 Notes: #2 alt
<hr/>		
<b>1915</b>		
1925 Rwanda—R Rwanda: AF 6055 Notes: news		
<hr/>		
<b>1930</b>		
2000 Albania—R Tirana: UK 9740 7270 Notes: freq's drift 2000 Austria—ORF: AF 13730	2000 Austria—ORF: Eu 6155 5945 2027 Iran—V of Islamic Rep of Iran: Eu/n 9022 7260	2000 Austria—ORF: ME 9665 2000 Mongolia—F Ulan Bator: Eu 12000 7530 4080 Notes: #1 alt

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

<b>1930</b>		
2000 N Mariana Is—KFBS: 9465	2025 Netherlands—R Netherlands: s&e&wAI 17605 15315 11655 9895 9860 9605 6020 4945	1957 Slovakia—R Slovakia Int'l: wEU 7345 6055 5915
2030 Turkey—V of Turkey: Eu 9445	2000 Yugoslavia—R Yugoslavia: AI/Eu 9720 6100	
<hr/>		
<b>1935</b>		
1955 Italy—RAI: Great Britain 11905 9575 7275		
<hr/>		
<b>1945</b>		
2000 Togo—R Togo: AI 5047 Notes: news		
<hr/>		
<b>1952</b>		
2216 New Zealand—R New Zealand Int'l: Pa 11735		
<hr/>		
<b>2000</b>		
2100 Algeria—R Algiers Int'l: Eu/ME/AF 15160 11715	2100 Bulgaria—R Bulgaria: wEU 9700 7335	2055 China—China R Int'l: AI/Eu/ME 15110 11715 9920 9440 6950
2050 Germany—R Deutsche Welle: Eu 7265 5960	2030 Hungary—R Budapest: Eu 9835 7250 5910 3975	2100 Indonesia—V of Indonesia: Eu 11752 9675
2030 Israel—Kol Israel: LAM/Eu/NAM 13750 9845 9435 7465 7415	2030 Lithuania—R Vilnius: Eu 9710	2050 North Korea—R Pyongyang: ME/AF 9977 9640
2050 North Korea—R Pyongyang: Eu 9345 6576	1400 Papua New Guinea—Nat'l Broadcasting 9675	2030 Portugal—R Portugal: AI/Eu 15515 9815 9780 6130 Notes: Mo-Fr
2100 Russia—V of Russia: World Service 9890 9585 9470 7205 7180 5940	2130 Sri Lanka—SLBC: Eu 15120 9720	2030 Switzerland—Swiss R Int'l: AI/Eu 11640 9905 9885 9770 6165
2100 United Kingdom—BBC: Africa 17830 15400 11835 9630 6190 6005 3255	2100 United Kingdom—BBC: Americas 11750	2100 United Kingdom—BBC: Asia/Pacific 11955 9740
2100 United Kingdom—BBC: Europe 12095 11835 9410 7325 6195 6180 3955	2100 USA—KJES: Canb 15385 Notes: irregular	2200 USA—KWHR: As 11980
2030 USA—VOA: Africa 17755 17725 15580 15410 13710 11855 7415	2100 USA—VOA: Eu/nAI 15205 9760 6040	2100 USA—VOA: ME 15205 9760
2355 USA—WEWN: NAM 13615 7425	2200 USA—WSHB: wEU 13770	2100 USA—WSHB: Eu 9355
2100 USA—WVHA: Eu 5850 Notes: Mo&We&Fr&Sa	2100 USA—WYFR: Eu/AF 21525 15566 7355	2030 Vatican State—Vatican Radio: c&s&wA 9645 7365
<hr/>		
<b>2005</b>		
2105 Syria—R Damascus: Eu 15095		
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<b>2015</b>		
2045 Swaziland—Trans World Radio: sAI 3200 Notes: Su		
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<b>2025</b>		
2045 Italy—RAI: Near East 11800 9710 7235		

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 2030

2200 Egypt—R Cairo: wAf 15375	2125 Netherlands—R Netherlands: wAf 9895 9860	0600 New Zealand—ZLXA / Print Disabled R 7290 5960U Notes: Sa-Th   Fr -05
2125 Poland—Polish Radio Warsaw: Eu 7285 6135 6095	2100 Thailand—R Thailand: Eu 11905 9755 9655	2100 USA—VOA: Africa 17755 17725 15580 15410 13710 7415
0400 USA—WRMI: CAw/Carib 9955 Notes: Mo-Fr   also Spanish lang	2055 Vietnam—V of Vietnam: Eu 15009 12020 9840 Notes: #2 all	

### 2045

2230 India—AIR: GOS/AusNZ/wEu 15265 11715 11620 9950 9910 7410
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### 2050

2110 Vatican State—Vatican Radio: Eu 7250 5882 Notes: European 1st pgm
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### 2100

2130 Australia—R Australia: As/Pac/PapNG 13745 11880 11695 11695 9860 9660 9645 9580 6060	2159 Canada—R Canada Int'l: Af/Eu 17820 15150 13690 13650 11945 9805 7260 5995 5925	2155 China—China R Int'l: Af/Eu/ME 15110 11715 9920 6950
2200 Cuba—R Havana: Eu/Af/ME 11705	2127 Czech—R Prague: wAf/NAw 7345 5930	2150 Germany—R Deutsche Welle: As/Pac 11785 9765 9670 6185
2150 Germany—R Deutsche Welle: wAf 15270 11905 11810 9690 7225	2110 Ghana—Ghana BC Corp: 3366 Notes: News in English	2200 Japan—R Japan: GOS:As 7140 7125 6035
2200 Japan—R Japan: GOS:Oc 11850	2200 Japan—R Japan: GOS:Eu/ME 11865	2115 Japan—R Japan: Reg Svc: seAs 7280 7190
2200 N Mariana Is—KHBI: Aus 13840	2120 Nigeria—R Nigeria: 4770 Notes: News	2155 Romania—R Romania Int'l: Eu 7195 7105 5990 5955
2200 Russia—V of Russia: World Service 9890 7400 7205 7180 7170 5940	2200 Slovakia—AWR Europe: c&wAf 9465	2200 South Korea—R Korea: Eu 15575 6480
2200 Spain—R Exterior de Espana: Eu 6125	2200 United Kingdom—BBC: Africa 11835 9630 6190 6005 3255	2200 United Kingdom—BBC: Americas 13660 11750 9825 5975
2200 United Kingdom—BBC: Asia/Pacific 11955 9740 6195 6120 5990 3915	2200 United Kingdom—BBC: Europe 11835 9410 7325 6195 6180 3955	2130 USA—VOA: Africa 17725 15580 15410 13710 7415
2200 USA—VOA: eAs/seAs/Pac 17735 15185 11870 Notes: primarily to Pacific region	2200 USA—VOA: ME 15205 9760 9595 6070	2400 USA—WEWN: Eu 5825
2200 USA—WSHB: eNAw 9355	2200 USA—WYFR: Eu/Af 15566 11580 7355	

### 2105

2205 Syria—R Damascus: NAw/AusNZ 15095 12085
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### 2115

2245 Egypt—R Cairo: Eu 9900	2130 Sierra Leone—SLBS: 3316 Notes: Fr&Sa UN Radio
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### 2130

2200 Armenia—V of Armenia: Eu 9965 7480	2200 Australia—R Australia: As/Pac/PapNG 17860 17795 15365 13755 13745 11695 9660 9645 9580	0830 Australia—VL8A: Domestic 4835
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## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 2130

0830 Australia—VL8K: Domestic 5025 2227 Iran—V of Islamic Rep of Iran: AusN 6175 2200 Moldova—R Dniester Int'l: Eu 6205 Notes: Mo-We-Sa, repeat next day	0830 Australia—VL8T: Domestic 4910 2300 Italy—Italian Radio Relay Serv: Eu/ 3950 Notes: Fr-Sa-Su 2200 Sweden—R Sweden: Eu/AM/ME 7230 6065	2200 Finland—R Finland: Eu 6120 2135 Latvia—R Latvia: 5935 Notes: Mo-Fr 2200 USA—VOA: Africa 15580 15445 15410 13710 7415 Notes: Su-Fr
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### 2200

2330 Australia—R Australia: As/Pac/PapNG 17860 17795 15365 13755 13745 11855 11695 9660 9645 9580 2229 Canada—R Canada Int'l: Eu/AI 13690 11945 9805 7260 5995 2255 China—China R Int'l: Eu 7170 2300 Cuba—R Havana: Eu/Carib/sUSA 11960U 6180 2225 Italy—RAI: Japan 15330 11800 9710 2300 N Mariana Is—KHBI: China 15405 2300 Russia—AWR Europe: Eu 7215 2230 South Korea—R Korea: Eu 5965 2300 Ukraine—R Ukraine Int'l: Eu 7240 7205 7135 6130 6055 6010 5940 5905 4820 4795 2300 United Kingdom—BBC: Americas 11750 9915 9590 6175 5975 0400 USA—KWHR: As 17510 1000 USA—WHRI: Eu 5745 2300 USA—WSHB: Brazil 13770 2230 Yugoslavia—R Yugoslavia: Eu 6185 6100	2225 Belgium—R Vlaanderen Int'l: Eu 7250 5910 2229 Canada—R Canada Int'l: seAs 11705 2400 Costa Rica—R for Peace Int'l: LAm/N 15049 9400U 7385 2215 Ghana—Ghana BC Corp: 4915 Notes: rx/English 2230 Moldova—R Moldova: UK 7500 2205 Nigeria—R Nigeria: 4990 Notes: News in Eng 2300 Russia—V of Russia: World Service 7400 7360 7205 7180 7140 2300 Spain—R Exterior de Espana: AI 11775 2400 United Arab Emirates—V of UAE: NAM 13605 11970 11885 2300 United Kingdom—BBC: Asia/Pacific 11955 11695 7110 6195 5905 2230 USA—VOA: Africa 13710 12080 7415 Notes: Mo-Fr 2400 USA—WINB: CA 11790 Notes: off the air, may return soon 0100 USA—WWCR: Eu/ME/NAI 9475 Notes: tx #1	2300 Bulgaria—R Bulgaria: wEu 9700 7105 2230 China—China R Int'l: Eu 3985 2208 Croatia—Croatian Radio: Eu 13830 11635 7370 5895 Notes: News 2230 Hungary—R Budapest: Eu 9835 7250 5935 3975 2300 N Mariana Is—KHBI: Japan/Kor/CIS 13840 2230 Norway—R Norway Int'l: NAM/eAs 6200 6170 Notes: Su only 2300 Slovakia—AWR Europe: wAI 7100 2300 Taiwan—V of Free China: Eu 9988 5810 2300 United Kingdom—BBC: Africa 11835 2300 United Kingdom—BBC: Europe 11835 9410 6195 3955 2400 USA—VOA: eAs/seAs/Pac 17820 17735 15305 15290 15185 11760 9890 9770 7215 2300 USA—WSHB: wEu 7510 2300 USA—WYFR: Eu/AI 15566 11580
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### 2217

0458 New Zealand—R New Zealand Int'l: Pa  
15115

### 2230

2300 Austria—ORF: Eu 6155 5945 2257 Czech—R Prague: NAM 7345 5930	2300 Austria—ORF: SA 9870 2300 Lithuania—R Vilnius: Eu 9710	2245 China—CPBS 2: Regional 5163 4905 4800
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### 2240

2250 Greece—V of Greece: Aus  
9425 9375  
 Notes: Su-Fr

## Schedules

UTC Start & End | Country—Station: Target | Frequencies and Notes

*Read columns left to right.*

### 2245

0045 India—AIR: GOS/As  
15145 13750 11745 9950 9705

2305 Vatican State—Vatican Radio: As/Aus  
11830 9600 7305

### 2300

<p>2329 Canada—R Canada Int'l: Carib/LAm/NA 11940 9755 9535 6040 5960 Notes: Sa&amp;Su -2359</p> <p>0030 Egypt—R Cairo: NAm 9900</p> <p>2400 Japan—R Japan: GOS:As 7140 7125</p> <p>2330 Moldova—R Moldova: UK 7500</p> <p>2350 North Korea—R Pyongyang: Am 13650 11700</p> <p>0300 South Africa—Radio 2000: nwCape 3320</p> <p>2400 United Kingdom—BBC: Americas 11750 9915 9590 7325 6175 5975</p> <p>2400 USA—WEWN: SAm 7520</p> <p>2400 USA—WSHB: SAm 13770</p>	<p>0100 Costa Rica—AWR Pan America: Am 13750 9725 7375 6150 5030</p> <p>2350 Germany—R Deutsche Welle: eAs 7150 6160 6000</p> <p>2400 Japan—R Japan: GOS:Oc 11850</p> <p>2400 N Mariana Is—KHBI: Indon 13625</p> <p>2400 Russia—V of Russia: World Service 9550 7205 7180 7170 7125 7105 5940</p> <p>2350 Turkey—V of Turkey: Aus/Eu/NAm 9560 7280 7190</p> <p>2400 United Kingdom—BBC: Asia/Pacific 11955 11945 9580 7250 7110 6195</p> <p>0300 USA—WRNO: NAm/CAm 7355 Notes: eff 10/29 -04</p> <p>1200 USA—WWCR: Eu/ME/nAf 5065 Notes: tx #3</p>	<p>2308 Croatia—Croatian Radio: Eu 13830 7370 5895 Notes: News</p> <p>2400 Guam—KSDA: seAs 11980</p> <p>2400 Japan—R Japan: GOS:Eu 6155 6055</p> <p>2400 N Mariana Is—KHBI: China 15405</p> <p>2310 Sierra Leone—SLBS: 3316 Notes: news/Eng</p> <p>2400 United Kingdom—BBC: Africa 11835</p> <p>2400 United Kingdom—BBC: Europe 11835 9410 6195</p> <p>2400 USA—WSHB: sEu/wAf 7510</p>
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### 2325

2335 Lebanon—V of Lebanon: ME  
6550  
Notes: News

### 2330

<p>2400 Australia—R Australia: As/Pac/PapNG 17860 17795 15365 15240 13755 13745 11695 9645</p> <p>2355 Vietnam—V of Vietnam: Eu 15009 12020 9840 Notes: #2 alt</p>	<p>2400 Australia—R Australia: As/Pac/PapNG 13605 11855 9850 9660 9580</p>	<p>0025 Netherlands—R Netherlands: eNAf 6165 6020</p>
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### 2335

2345 Greece—V of Greece: LAm  
11645 11595 9375

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**Publisher / Business Manager:** Bill Oliver, 45  
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