

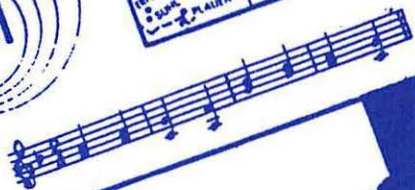
# The **NASA** Journal

VOLUME XL NUMBER 8

AUGUST 2000

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# NASWA Notes

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

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It seems like the summer just started and here we are with the August edition of the *Journal*. In another month it will be time to begin some serious DXing. Where does the time go?

After serving as our Distributing Editor for five long years, **Fred Kohlbrenner** will be stepping down after this month's contributions for the *Journal* have been forwarded to our editorial team. Fred will continue as our Scoreboard Editor. Note that Fred has recently moved and that you should be using his new address: 214 West Marshall Road, Lansdowne, PA 19050. Taking over the job of Distributing Editor will be **Bob Montgomery** (P O Box 1458, Levittown, PA 19058) who can also be reached through e-mail at [RMonty3@worldnet.att.net](mailto:RMonty3@worldnet.att.net). Bob's tenure begins with contributions to be submitted in September for the October *Journal*. Don't forget that your regular contributions to the *Journal* can be submitted to Bob who will then forward the material (loggings, QSL items, etc.) to the appropriate editor. Don't worry if something goes to Fred before Bob takes over or to Bob before Fred steps down because those two will figure it out where it belongs.

NASWA member **Walt Fair** has joined the NASWeb team by writing and hosting a database of loggings from the *Journal*. Thanks, Walt! The database is searchable by country or by frequency range. The country field is for NASWA radio countries, so some stations may not show up where you expect them. For example, Papua New Guinea is broken up into a number of radio countries, so searching for Papua New Guinea comes up with some of the loggings, but others may appear under New Britain, New Ireland, or simply Papua. You can find the database linked from the NASWA home page at [http://](http://www.anarc.org/naswa/)

[www.anarc.org/naswa/](http://www.anarc.org/naswa/)>. Thanks also, of course, to our hard-working log column editors, **Sheryl Paszkiewicz** and **Wallace Treibel**, and to all the members who submit the logs that appear in the loggings columns and, by extension now, in the database. Check it out and let us have some feedback from members about this project.

NASWA webmaster **Ralph Brandi** also brings to my attention another new feature of the NASWeb web site, **NASWebLog**, a daily (more-or-less, particularly in the summer) set of links to other interesting web pages, with pithy commentary added by Ralph. **NASWebLog** has been up and running since December, so there's a big backlog of items for you to peruse. **NASWebLog** is available at <http://www.anarc.org/naswa/weblog/>>. Once again, check it out and let us hear from you, the membership, about this project.

Here are a couple of upcoming DX events worth attending. The **National Radio Club** ("NRC") will hold its annual Labor Day Weekend convention in Lima, Ohio from 1-4 September 2000 at the Hampton Inn. The NRC is the largest medium wave club around and this event always attracts the top DXers in this area of the hobby. The **Ontario DX Association** will be holding **RadioFest 2000** on 29 and 30 September 2000 at the Monte Carlo Inn in Oakville, Ontario. For those hobbyists interested in travelling to Canada during this time of the year, this is an excellent event for you to attend. In addition, the **ODXA** will be holding its **Flea Market** on 30 September at the same location. See the **Calendar of Events** for contact information for both events.

Company Store Manager **Bill Bergadano** <[ka2emz@cybercomm.net](mailto:ka2emz@cybercomm.net)> informs us that "until further notice, Joe Carr's receiving


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Our Motto is - "Unity and Friendship"

antenna handbook is no longer available." It seems there was a publication problem and about 15 missing pages need to be inserted. When we know more, it will be passed along.

Here's a brief reminder that the **Danish Shortwave Club International's** latest edition of the *Domestic Broadcasting Survey* ("DBS-2"), containing 44 A4 sized pages covering all domestic shortwave radio broadcasting in the 2,200 to 22,000 kHz frequency range, is still available. Edited by well-

known tropical band DXer Anker Petersen, the DBS-2 is one of the hobby's best DXing references. It is available for US\$10.00 or 14 International Reply Coupons ("IRCS") for paper and it is available in a disc edition for US\$5.00 or 7 IRCS. Orders can be placed with DSWCI Treasurer Bent Nielsen Egekrogen 14, DK-3500 Vaerloese, Denmark.

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

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## Musings

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

**Paul Brouillette, 611 Illinois Street, Geneva, IL 60134**

I wanted to comment briefly about the item in the June NASWA Notes regarding the use of print vs. electronic media for club bulletins, like the DSWCI Shortwave News or the NASWA Journal.

I am with the majority of the polled DSWCI members in preferring to have my club publication in the traditional print form, rather than electronic form. There are too many benefits to the printed format. For example, one of the benefits to print is in keeping member costs low. If an all-electronic version of the club bulletin were the only version available, then to create a print version to take along on a DXpedition (even if only to the backyard on a nice summer day!), or to read while traveling by plane, would involve quite a bit of time and money to print out, allowing for the cost of paper, inkjet cartridges, ISP fees, on-line downloading time, etc., all on top of membership dues! The hard and very much appreciated work of the print media publisher is now transferred downstream and multiplied by the number of members, which is an inefficient use of resources. I would prefer to spend more time at the radio than in front of a terminal gathering and printing information that is now conveniently sent to my postal mailbox each month in a beautifully presented, printed, portable format, i.e., a traditional magazine or book.

As for the speed of electronic media and the dissemination of "hot" DX news, I have been DXing and SWling for over 25 years and have yet to really miss anything because of not having "hot" news minutes after it breaks. Most things will keep for a few days or weeks. Enough precious free time available at the dials, studying propagation patterns, rather than in front of a computer, and you'll be hearing the hot items, not just retrieving information about them.

Also, regarding Bill Smith's and Walt Fair's recent comments in Musings, I too would like to see the NASWA membership list revived. However, I agree with Walt's observation that some members would not want it on-line, which is a medium some of us consider too public for any sort of personal information. If an on-line version is made available, members should have the option to have their names appear in print only (not on-line) or even not at all.

T.J. "Skip" Arey N2EI <tjarey@home.com>, P. O. Box 236, Beverly, NJ 08010

Bill Cheek was my friend who recently passed away. He was also my colleague for many years on the staff of *Monitoring Times Magazine*. He was my mentor throughout the process of getting my first book *Radio Monitoring A How To Guide* into print. Many people love the radio hobby. Bill lived it. Bill's career path consisted of not just playing around with radios on his off hours but making a living and caring for his family by way of his skills in the radio hobby. Bill was no dilettante, he "walked the walk." That's a level of commitment few of us are willing to make to any hobby. But Bill did it and because he did, a lot of us grew in our understanding of the radio hobby.

He became best known to the radio hobby world through his three scanner related books: *The Scanner Modification Handbooks Vols. 1&2* and *The Ultimate Scanner*. In these books he challenged us to lift the lids on our various receivers. In doing so, Bill taught many of us that there is nothing to be afraid of and that, with a little advice and guidance, almost anybody could take a good radio and turn it into a great one.

Bill wasn't just a mentor, he was a motivator as well. As I'm writing this I'm sitting near my radio desk and I'm looking at the various rigs I have modified based upon Bill's ideas. Over the years I've performed so many changes I've lost count. I never would have done most of those mods if it wasn't for Bill's special way of writing. Bill had a way of getting his readers "fired up". As someone who writes for public consumption I envied his ability to excite his readers and did my best to learn this aspect of my craft from him.

Bill's gone now. My heart goes out to Cindy and the family. As great as my personal sense of loss is it can be nothing compared to theirs.

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

Dan Ferguson was appointed to assume the position of Competition Chairman for NASWA. The first event was a Coordinated Monitoring Event designed to survey the 41-meter band. The *QSL Report* was missing again as editing problems continued. Bill Oliver was appointed the new *QSL Report* editor effective with the September issue. A new project was announced by Mac Leonhardt, *The DX Hobby According to NASWA*. Ed Shaw is the editor for a range of subjects touching all facets of the hobby. In the *Shortwave Center*, Charles Wootten wrote about "Logs and Things" while Glenn Hauser wrote about frequency measurement by heterodyne analysis.

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### Contribute!

Send your loggings and QSL information off to our new Distributing Editor, **Bob Montgomery** (Address: P O Box 1458, Levittown, PA 19058). He will forward them to the appropriate editor. Remember, Bob also distributes QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: [RMonty3@worldnet.att.net](mailto:RMonty3@worldnet.att.net). And thanks to **Fred Kohlbrenner** for his five years of service in the position!

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**N446b**

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

## Calendar Of Events

- Aug'00 DX Meeting.** The **6<sup>th</sup> National Mexican DX Meeting** will be held in Oaxaca, Mexico from August 4-6, 2000. For details contact the organizers at [Miraizos@gnp.com.mx](mailto:Miraizos@gnp.com.mx).
- Aug 18 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831.
- Aug 18 Meeting. Boston Area NASWA Chapter.** The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>.
- Aug'00 Convention. The International Radio Club of America ("IRCA")** will its annual convention at the Homestead Quality Inn in Billings, MT from August 25-27, 2000. The \$35.00 registration fee made out to "John C. Johnson" can be sent to John and Nancy Johnson, 265 Waterton Way, Billings, MT 59102-7755. Check out the convention web site at: [http://pages.prodigy.net/john\\_johnson/irca2000](http://pages.prodigy.net/john_johnson/irca2000).
- Sep'00 Convention. The National Radio Club** will hold its annual convention on 1-4 September 2000 in Lima, Ohio at the Hampton Inn, located at 1933 Roschman Avenue, Lima OH 45804. (Intersection of I-75 and State Route 309). The hotel's phone number is 419-225-8300. (FAX 419-225-8328). To book a room call the Hampton Inn and tell them that you're with the National Radio Club and your CODE is "NRC". Room rate is \$69.00 per night, and there is a block of 24 rooms till August 19th, 2000. Convention Registration is \$35.00 per person until August 19th. After August 19th, or if paid at the convention, it is \$40.00. Convention registration includes all the beverages for the weekend, snacks, the NRC Banquet. There will be a special picnic dinner from 5:00-7:00 PM on Friday night sponsored by the editors of the DX Audio Service in the hospitality room.
- Sep 8 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONEX)** meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at [mmeece@siscom.net](mailto:mmeece@siscom.net). For additional information about MONEX, check out their web site at <http://www.siscom.net/~mmeece/monix.html>
- Sep'00 Contest. AWR Contest.** Number of different QSL stamps in the listener's collection. More details to follow.
- Sep'00 RadioFest 2000.** The Ontario DX Association will be holding **RadioFest 2000** (and the ODXA Flea Market) on 29-30 September 2000 at the Monte Carlo Inn, 374 S. Service Road, Oakville, Ontario (1-877-849-9500). Further information is available by contacting the club at ODXA, Box 161, Willowdale Station A, Toronto, Ontario M2N 5S8, Canada or by e-mail at [odxa@compuserve.com](mailto:odxa@compuserve.com).
- Oct'00 Conference.** The annual **EDXC Conference** will be held from 13-15 October 2000 at the Rancho Park Hotel, Castelldefels, Spain. All DXers, shortwave listeners, international broadcasters and other radio enthusiasts are cordially invited to attend. Castelldefels is located about 29 km south of Barcelona. Additional information is available from [frubio@redestb.es](mailto:frubio@redestb.es) or [risto.vahakainu@helsinki.fi](mailto:risto.vahakainu@helsinki.fi).
- Mar 9-10 Convention.** The **14<sup>th</sup> Annual Winter SWL Festival**, sponsored by NASWA, will be held in Kulpsville, Pennsylvania (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike). Richard Cuff and John Figliozzi co-chair the organizational committee. It's never too early to begin planning. See you there!

Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: [rdangelo3@aol.com](mailto:rdangelo3@aol.com)) or Ralph Brandi (Internet: [ralph@brandi.org](mailto:ralph@brandi.org)).

# Easy Listening

Richard D. Cuff • 327 Springhouse Road, Apt. 102 • Allentown, PA 18104 • [rdcuff@sprintmail.com](mailto:rdcuff@sprintmail.com)

## Can Web Audio be a Treasure Hunt?

One of the criticisms I hear regarding listening to webcasts versus shortwave broadcasts is that webcasts don't provide the same technical challenge as do shortwave broadcasts. There are no frequencies to remember, and propagation isn't an issue. All you need to do is click and go. Once you know a broadcaster's website, you're all set. There isn't any type of DX challenge in that.

Webcasting may not present any type of DX challenge, but you can include a sense of exploration in your listening experience by searching new websites with worthy programming, or sampling offerings in a different language. Instead of a tuning knob scanning the bands, the Internet metaphor is a series of search engines and radio station directories. In the same fashion that the shortwave bands are never the same two days straight, the development of webcasting follows a similar tack: new sites from new countries regularly appear, and existing sites add broadcasts and other capabilities.

Webcast listening also can create an appetite for gadgetry as well, whether we're talking about new audio appliances or faster cable or DSL modems. Similarly, spend a day with hobby veterans such as George Zeller and Alan Johnson, and you'll certainly gain an appreciation for the need for new radios and other gadgets of use on the shortwave bands.

My point in raising this issue is that, to a great extent, what distinguishes shortwave broadcast listening from webcast listening is only gadgetry. Each medium has its pros and cons, but these two media have much in common as well. Here, in the *Easy Listening* column, we emphasize the 'BC' in 'SWBC'

anyway—it's the content we're most interested in. Much as every column and article in the *Journal* doesn't appeal to every NASWA member, I am hopeful those who don't appreciate webcasting can tolerate its coverage here.

## Music Programming Suggestions

While the spiders living in our mailbox haven't been displaced by an onslaught of suggestions from NASWA members, the most consistent request of all was for a compilation of suggestions for music programs. Here are some suggestions for your listening pleasure, in part from suggestions posted at *rec.radio.shortwave* and in the *swprograms* E-mail list:

### Voice of Turkey (TRT)

Craig Seufert, via *swprograms*, recommends TRT's Turkish Service, audible generally all night in eastern North America on 9445. Since most of the program consists of music, which transcends language boundaries, the actual language of the broadcast doesn't matter much.

### Radio Taipei International (RTI)

Craig Seufert also suggests *Jade Bells and Bamboo Pipes*, a long-running weekly feature from RTI best audible in North America UTC Mondays at 0215. The program is not archived for on-demand listening via the Internet. This is also one of my favorite RTI programs.

### HCJB

Another longstanding music favorite is *Musica del Ecuador*, beamed to the Americas 0130 and 0430 UTC Saturdays. Host Jorge Sambrano is inseparable from the program, and *Musica del Ecuador* shows up on other published lists of recommended programming.

## Africa No. 1

Contributors at *rec.radio.shortwave* recommended this source for African music, and can regularly be heard from 0500 sign-on on 9580, later switching to 17630. Also, Craig Seufert, in the *swprograms* list, recommends *Kilimandjaro*, complete with the African spelling, and featuring African music, weekdays at approximately 1800 UT.

## Radio Vlaanderen International

Larry Nebron suggests *Music from Flanders*, best heard in North America Saturdays 2230 and Sundays 0400. While the program focuses on Flemish Belgian performances, and not specifically regional folk music, nonetheless you'll hear a decent helping of Belgian music. Paul Rans hosts the program.

## Latin America

John Figliozzi enjoys Argentina's *Radiodiffusion Al Exterior* (RAE) tangos weekends (UTC Sunday and Monday) in their broadcasts targeted to North America, and adds that *XERMX* out of Mexico, on 9705, features Mexican music during the second half hour of each hour's broadcast.

## Eastern Europe

A search of John Figliozzi's *Worldwide Shortwave Listening Guide 2000-01 Edition* turns up *Skylark*, on *Radio Romania International* on Mondays and Fridays 0235 UTC; *Music from Ukraine* on *Radio Ukraine International* Mondays 0320; also, don't forget *Folk Box* on the *Voice of Russia* 0130 Tuesdays and 0430 Thursdays to North America.

## World Music

This category covers a wide mix of music, normally consisting of folk music from a variety of cultures. Several recommendations from Joe Buch:

*The Planet*, on *Radio Australia* weekdays from 1300 to 1430, gets high marks for its rich variety and thoughtful selection. Lucky Oceans, a Philadelphia native, hosts all but the Friday edition, which is hosted by Geraldine Mallet. "Good, heartfelt music" says the ABC publicity. They're right.

*Roots and Wings*, a CBC-produced program airing Sundays 2305 on *Radio Canada International*, presents a diverse, unpredictable assortment of musical styles. Latin sounds, Indonesian guitars, Scottish, salsa, and Romanian gypsy music were all featured on a recent program. *Roots and Wings* is also webcast at the CBC Radio Two website.

*Global Village*, also produced by the CBC, occupies the Saturday 2305 time slot. This program strives to "...bind separate cultures together with a common language we can all understand, good music." Music from South African, Greek, Irish, and Algerian-Indian cultures was featured on a recent program. *Global Village* is also webcast live at the CBC Radio One website.

Saul Broudy suggests *Deutsche Welle's* German Service program *Scene*, especially during the Wednesday segment *Free Style*. *Free Style* airs Wednesdays 0735, 1135, 1535, and 2335 UT, and the program on the first Wednesday in each month features world music.

John Figliozzi's *Worldwide Shortwave Listening Guide* provided many of the day and time listings shown above; folk music programs have an "MF" program code in the listings so they can easily be found.

## Voice of Russia: Vis a Vis

One of the hallmarks of *Talking Point* on the *BBC World Service* is the accessibility to world leaders for phoned-in or, more recently, E-mailed questions from listeners. The *Voice of Russia* offers a similar program, *Vis a Vis*, which airs occasionally in both the Russian and English services. English airings are Tuesdays in the 0300 hour, and this hour of *VOR* is available on demand at the World Radio Network website (<http://www.wrn.org>). Prior editions of *Vis a Vis* are transcribed at the *Voice of Russia* website. You can phone in a question in advance on +7-95-950-6911, or via E-mail at [letters@vor.ru](mailto:letters@vor.ru), or via fax on +7-95-950-6731. Best way to keep track of the program are to regularly check the *VOR* website or

watch for the updates posted by Maryanne Kehoe on the *swprograms* E-mail list.

## BBC World Service August Highlights

In *Tobacco on Trial*, Fridays 0130 beginning August 12<sup>th</sup>, presenter Magenta Devine cuts through the fog of claims and counterclaims which surround tobacco to help establish a broader global picture of how smoking affects our lives. Magenta was appointed a UN Special Ambassador in 1998 and smokes herself. During this five part 30-minute series she confronts the effect that cigarettes have on her health and the economic process by which cigarettes are made and sold. Anyone who has traveled internationally is aware of the diversity of opinion and attitudes on the subject. *Tobacco on Trial* is a 5-part 30-minute series, and is repeated Mondays 1530.

Whenever there is a big disaster two questions are always asked. Couldn't experts have predicted it and couldn't lives have been saved? In the three-part series *Disasters in Waiting*, airing in the *Discovery* time slot Saturdays 0105 beginning August 6<sup>th</sup>, Professor Bill McGuire examines three of the worst examples of the 20th century, where scientists knew disaster was a real possibility but their warnings were ignored with fatal consequences. Professor McGuire of University College, London, is the United Kingdom's leading expert on disasters and risk assessment. He advises governments worldwide on how natural disasters can be mitigated against. In this series he looks at volcanic eruptions in the Caribbean, the collapse of the Vaiont Dam in Italy, and the floods of the 1950s which swept through countries in northern Europe, including England and The Netherlands. *Disasters in Waiting* is a three-part series, and is repeated Tuesdays 1505.

*Play of the Week*, airing Saturdays at 2300 and Mondays 0530, promises the following features:

August 12/14 and 19/21: *Amy's View* by David Hare: Dame Judi Dench, Samantha Bond and Ronald Pickup recreate their performances originally developed for Richard Eyre's 1997 Royal National Theatre production in London. A moving study of a mother and daughter's long-term relationship, this challenging and heart-felt play is a testimony to the dignifying importance of the artistic life, set in 1979.

August 26/28: *Bad Weather* by Robert Holman: What leads us to live the lives we do? Leading British playwright Robert Holman gives a sensitive treatment of a sometimes hard world in this play which stars Susan Brown, Emma Handy, Paul Popplewell and Ryan Pope.

The *Proms* concert series continues, with the first Cuban music concert ever scheduled in the series on Tuesday, August 8<sup>th</sup>, 0005. *Vocal Sampling* is a young, extraordinary virtuoso ensemble that works incredible magic with their original arrangements, while *Los Van Van*—one of the most famous Cuban groups—are guaranteed to bring exuberance and verve to the concert with songs full of Cuban rhythms and colors. Also, music by Kurt Weill is included in an August 17<sup>th</sup> 0000 UTC concert, marking the centenary of his birth and the 50<sup>th</sup> anniversary of his death.

If you're a fan of British football, AKA Soccer, you'll enjoy *There's only one Man United*, which happens to be a regular cheer from soccer fans all over the world. Presenter Russell Fuller investigates why Manchester United is the most successful and popular soccer club in the world. *There's only one Man United* airs in *Sports International* on August 10<sup>th</sup>, 0105, repeated the following Friday, 1505.

*Walkabout Oz*: From Sydney's Manly beach to the desert near Alice Springs, from Melbourne's China Town to the Flinders Ranges, this major new five-part, 30-minute series, recorded on location in Australia, explores the landscape of this island continent, host to the 2000 Olympics. Roger

Fenby travels to five contrasting locations and looks at the way in which the lives of different communities—whether Aborigines, Anglo-Saxon migrants or other later immigrants—have been shaped by their surroundings. *Walkabout Oz* airs in the *Essential Guide* time slot, Saturdays 0130, beginning August 5<sup>th</sup>, repeated the following Tuesdays at 1530.

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While the  
spiders living in our mailbox  
haven't been displaced by an  
onslaught of suggestions  
from NASWA members,  
the most consistent request  
of all was for  
a compilation of suggestions  
for music programs.

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Speaking of world music, the recent withdrawal of Israeli troops from Lebanon has again brought the world's attention to this tiny and troubled country. Even given its recent history of war, Lebanon has remained an influential center of music making in the Arab world. In the new four part 30-minute series, *Stars Over Lebanon*, Aref Hijjawi, who worked for the BBC Arabic Service but who now lives in Palestine, travels to Lebanon where he meets leading singers, instrumentalists and composers, to try to discover what has brought about the country's musical success. *Stars Over Lebanon* airs in the *World Music* time slot Thursdays 1430, beginning August 3<sup>rd</sup>, repeated Fridays 0030.

**Slave Narratives: Reason & Rebellion:** The impact of slavery on black people is often associated with the effects the cruel and dark side of European culture had on Africa and millions of Africans. However, it has not only shaped many cultures (as they are found today in the Caribbean, South America and the Deep South of the US) but also many of the attitudes prevalent as building blocks for racism. Little attention has been paid to the way black people themselves reacted to this treatment. Through the writings of people while they were still enslaved, *Reason & Rebellion* examines how this system affected individuals and families from the 17<sup>th</sup> century to today. *Slave Narratives* airs in the *Meridian—Writing* time slot, Saturdays 0505 beginning August 12<sup>th</sup>, repeated Fridays 0005, beginning August 18<sup>th</sup>. The Friday airing on August 25<sup>th</sup> will be preempted by a *Proms* concert.

What controls the aging process and can science help in the battle against wrinkles and infirmity? *The Aging Game* looks at what aging really means. Ex-*Outlook* presenter Barbara Myers explains the recipe for a good quality of life as we mature in the 21<sup>st</sup> century. Through interviews with scientists and ordinary people, the programs explain how and why aging happens and what effects advances in medical science are likely to have on the process of growing old over the next 15 years.

Also, the BBC World Service is trialing a new automatic E-mail system, which will offer regular E-mailed updates of upcoming program content and frequency, changes. To subscribe to this announcement list, send E-mail to the address [wsama0@bbc.co.uk](mailto:wsama0@bbc.co.uk) with the subject of *reg001* (that's 'zero-zero-one'). Sending E-mail to the same address, but with a subject of *faqlist*, will get you a list of specific subjects, which you can then select from and receive information E-mailed automatically.

That's all for now; until next month,

73 DE Richard



# Shortwave Center

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## DX Target: The Philippines

### Exotic International Shortwave Broadcasting from Asia

By Richard A. D'Angelo

Many DXers consider the exotic destinations of Asia as a favorite DX Target. While the tropical bands offer some very interesting stations to hunt for from this part of the world, the international bands offer some interesting DX excitement as well. There are four interesting shortwave broadcast DX Targets located in the Philippines that can be heard on the international bands. One station, Radyo Pilipinas, offers the challenge of DXing with plenty of interesting programs. As the Maximum Usable Frequency ("MUF") increases during the summer in North America, the station has the potential to be heard fairly regularly. Radio Veritas Asia and the Far East Broadcasting Company can be heard consistently during the year at various times and frequencies. Again, an increasing MUF and improved solar conditions should be beneficial while hunting for these stations. Finally, Voice of America, which seems to be located just about everywhere, has successfully used this country as a relay base for many years. The following DX Target discusses the Philippines, its people, language, culture, economy and, of course, the four international shortwave broadcasting stations that are based here.

### The Philippines

The Republic of the Philippines is located in the western Pacific Ocean. It is situated about 1210 km (about 750 mi.) east of the coast of Vietnam, the Bashi Channel separates the Philippine Islands from Taiwan on the north. The Philippine Sea surrounds it on the south, on the east by the Celebes Sea, and on the west by the South China Sea. The country comprises about 7100 islands, of

which only about 460 are more than 2.6 sq. km (more than 1 sq. mi.) in area. Eleven islands have an area of more than 2590 sq. km (more than 1000 sq. mi.) each and contain the bulk of the population. These islands are Luzon, Mindanao, Samar, Negros, Palawan, Panay, Mindoro, Leyte, Cebu, Bohol, and Masbate. The total area of the Philippines is about 300,000 sq. km (about 115,830-sq. mi.). Manila is the capital and largest city of the Philippines.

The Philippine Islands are within the Tropics and have an average annual temperature of about 27° C (about 80° F). In general, interior valleys and leeward sides of islands are warmer and mountain slopes and peaks and windward sides of islands are cooler. Rainfall averages about 2030 mm (about 80 inches) a year in the lowlands. In most of the Philippine Islands the rainy season occurs during the summer monsoon, from May to November, when the wind blows from the southwest; the dry season occurs during the winter monsoon, from December to April, when the wind blows from the northeast. From June to October the Philippine Islands are sometimes struck by typhoons, which occasionally cause great damage.

### People, Language and Culture

The term Filipino, which originally denoted a person of Spanish descent born in the Philippines and was comparable to the term Creole in the Spanish-American colonies, has been applied since the 19th century to the Christianized Malays who constitute the bulk of the Philippine population. The present Filipinos, principally descendants of the Malay invaders, are divided mainly according to language and religion. The most

important numerically are the Visayans, living primarily in the central portion of the archipelago, and the Tagalogs, in central Luzon. The Ilocanos (also spelled Ilokanos), the third most important group, live mainly in the Cagayan Valley on Luzon. People of Spanish and Chinese descent constitutes the chief non-Malay groups.

Manila is the capital of the Philippines and the country's chief port and main commercial center. Manila proper has a population of around 2 million, while the metropolitan area has over 8 million people. Other important cities include Quezon City, which is part of the Manila metropolitan area, and served as the country's capital from 1948 to 1976; Davao, a provincial capital and a seaport; Cebu, a seaport and the trade center for a farming and coal-mining region; and Zamboanga, also a seaport. About 84 percent of the population are Roman Catholics, about 4 percent are Muslims, and about 10 percent are Protestants or of other denominations.

The official language of the Philippines is Filipino which is based on Tagalog. The country lacks a common language, however, and English is commonly used for educational, governmental, and commercial purposes. Spanish, formerly an official language is spoken by a dwindling minority of the population. About 80 languages and dialects are spoken in the islands, of which about ten, belonging to the Austronesian language family, are of regional importance.

Education in the Philippines is free and compulsory for children of ages 7 through 12. Although Filipino is taught and, in the lower grades, local dialects are also used, English is the main language of instruction. Almost 90 percent of the adult population are literate.

The existence of a number of different languages, dialects, and religious traditions has meant that the Filipinos developed no single national culture. Over many centuries of Philippine history cultural development has

been local in nature, enriched by influences from China, Malaysia, Europe, and the United States. Indigenous folk elements find expression in literature and music as well as other cultural forms. One of the most notable characteristics of the Filipino society is the tradition of strong family loyalty. Since pre-colonial times Filipino women have held high positions in the society, and today women manage many businesses.

## Economy

The economy of the Philippines is predominantly agricultural, although manufacturing has grown considerably since 1945. About 43 percent of the working population of the Philippines are engaged in agriculture. The most important subsistence crops are rice, corn, cassava, and sweet potatoes. Copra, sugarcane, and tobacco are the principal commercial crops. Fruit crops include bananas, oranges, mangoes, pineapples, and papayas. Marine fishing is a major industry; the annual catch of some 2 million metric tons includes milkfish, scad, anchovy, tuna, squid, shrimp, and crab. Sponge fisheries operate off the southern islands. The mining industry is an important aspect of the economy. Leading products include gold, silver, copper, nickel salt, and coal. The manufacturing sector has expanded greatly since the 1950s. Processed food, textiles, tobacco products, and other non-durable goods continue to make up the largest percentage of manufacturing output. The production of durable items, however, especially furniture, electrical and electronic items, non-electrical machinery, and transport equipment, has shown substantial gains. Other major products include refined petroleum, chemicals, construction materials, and clothing. The Philippines generally spends considerably more on imports than it earns from exports. The leading imports are petroleum, machinery, transportation equipment, metals, chemicals, foodstuffs, and textiles. The main exports are electrical and electronic components, coconut oil, metal ores, clothing, raw sugar, copra, bananas, seafood, canned pineapples, logs, and lumber.

## Philippine Broadcasting Company

The Bureau of Broadcast Services—Philippine Broadcasting Service is the government radio network of the Philippines. The media organization grew out of radio station KZFM, which was used by the United States Armed Forces in the Far East and the Philippine Guerrilla Movement in the liberation of the country in 1945. The station was turned over to the Philippine government in 1946. It is from these beginnings that the Philippine Broadcasting Service has its roots.

The Philippine Broadcasting Service (“PBS”) runs thirty-three radio stations and satellite stations in the country. Five, including Radyo Pilipinas, are based in metro Manila. Public affairs, along with news, are the centerpiece of PBS programming. Cultural, educational and sports features help deliver a well-rounded programming line up.

The international service, Radyo Pilipinas, helps the PBS to reach different people from around the world. Through the years, Radyo Pilipinas has grown through the development of acquired skills and experiences. The station’s programs are produced in their studios at Quezon City, which is in Metro Manila. Radyo Pilipinas covers Asia, the Middle East, Europe, and some parts of the United States, Canada, Africa and Latin America. The station aims to link Filipinos to Filipinos and people around the world. The station’s English and Filipino broadcast’s serve more than a dozen nationalities and keep overseas Filipino workers in touch with home. The station plans to expand its broadcast services and coverage with continuous upgrading and acquisition of hi-tech equipment to serve its listeners.

Radyo Pilipinas has two broadcasts using English and Filipino languages that can be heard seven days a week. The first is from 0230-0330 UTC on 11,885 kHz; 15,120 kHz; and 15,270 kHz. This broadcast can be heard periodically during the summer months in North America. The second transmission is from 1730-1930 UTC on 11,815 kHz and

15,190 kHz. I have managed to log this broadcast during each of the French Creek DXpeditions this past season. With good propagation conditions, I also managed to log this broadcast from the shack. With the summer months rapidly approaching, Radyo Pilipinas could be a regular this season if the MUF remains high.

Some of the English program features include Dateline Malacañang, a 10-minute summary of the latest news from the Presidential Palace. The Philippines Today highlights top news and other developments in the country. Philippine Paradise is a showcase of various tourist spots, festivals and lifestyles. ASEAN Files is a news program focusing on the top stories and developments throughout Asia. The program Philippine Melody promotes Philippine music and includes interviews with prominent Filipino singers, composers and world-class personalities. Finally, Business Talk concentrates on interviews with top Filipino businessmen and foreign investors.

Radyo Pilipinas is a reasonably good verifier of listener reception reports although follow-up reports are sometimes necessary. A recent no data verification letter was received from Tanny V. Rodriguez, the Station Manager. Reception reports with return postage of either US\$1.00 or two International Reply Coupons (“IRCS”) can be sent to the station by traditional postal mail using the following address:

Radyo Pilipinas  
4<sup>th</sup> Floor Media Center Building  
Visayas Avenue  
Quezon City  
Metro Manila 1100  
Philippines

The station has an e-mail address that you can try: [bbs@ops.gov.ph](mailto:bbs@ops.gov.ph)

## Radio Veritas Asia

Radio Veritas Asia is a private, non-commercial Catholic radio station. It is owned and

operated by the Philippine Radio Educational and Informational Center, which is a non-profit, non-stock corporation organized by the late Rufino Cardinal Santos of Manila in 1961. Radio Veritas Asia is the only Catholic shortwave broadcast station located in Asia. The station's studio complex is located in Quezon City, Metro Manila while its transmitters are in Palauig, Zambales.

The station was inaugurated in April 1969 with the help of former President Ferdinand Marcos. Technical Director, Eng. Floremundo L. Kiguchi, one of the pioneers of the station, retired in January. Since its inception, the Radio Veritas Asia has been committed to producing human development and Catholic evangelization programs in cooperation with its various Asian production centers and transmitted primarily via shortwave radio to the people of Asia. The production centers are located in ten countries, most of which are in the station's broadcast target areas: Bangladesh, Germany, Hong Kong, India, Indonesia, Malaysia, Myanmar, Pakistan, Sri Lanka, Taiwan. They produce 60-minute programs every month. These programs are used in each language service to supplement the locally produced programs.

Unfortunately, broadcasting has not always been a smooth experience for the station during its lifetime. The technical facilities broke down in 1973. Reverend Hugo Delbaere was responsible for rehabilitating the technical facilities while Father Jean Desautels reorganized the programming. As a result, Radio Veritas was able to return to shortwave in 1975. In April 1999, Radio Veritas Asia celebrated 30 years of broadcasting service to the Asian community.

The station's programs are well-known in the region for prompting dialogue and providing information to the people while giving the Catholic Church's responses to prevailing issues in the target audience countries. It has fostered unity and tolerance to diverse audiences in Indonesia and Malaysia. It promotes Christian ideals to millions of listeners through its social-cultural and entertainment programs and has brought about dialogue among different religious

and cultural groups throughout the region.

Radio Veritas Asia is known as the Voice of Asian Christianity and it is the shortwave station of the Federation of Asian Bishops' Conferences. A tiny voice that presents to Asians what the Catholic Church believes and stands for. Father Rei Flores was appointed the new administrative director of the station in January. The head of Radio Veritas Asia is the Most Reverend, Bishop George Anathil SVD. Ms. Erlinda G. So is the manager of the station's daily operational activities.

Radio Veritas Asia broadcasts to the Asian region in 17 languages: Bengali, Burmese, Cantonese, Filipino, Hindi, Hmong, Indonesian, Kachin, Karen, Mandarin, Russian, Sinhala, Tamil, Telugu, Urdu, Vietnamese and Zomi-Chin. The station uses powerful 250-Kilowatt transmitters on frequencies in the 49, 31, 25 and 19 meter bands. In North America, the Bengali broadcast on 15,335 kHz at 0100-0125 UTC and the Hindi transmission also on 15,335 kHz, which follows at 0130-0155 UTC, are frequently heard. Although the station does not broadcast in the English Language, it does provide English identifications prior to the start of each transmission. Check Al Quaglieri's Listeners' Notebook column for the latest Radio Veritas Asia broadcast information including details of times and frequencies.

Radio Veritas Asia is a good responder to listener reception reports. Although the station does not broadcast in English, it does accept reception reports in the English language. These reports, along with return postage of either US\$1.00 or two IRCs can be sent to the station at:

Radio Veritas Asia  
P. O. Box 2642  
Quezon City 1166  
Philippines

The station can also be reached electronically. The Technical Department can be reached at: [info@radio-veritas.org.ph](mailto:info@radio-veritas.org.ph) and the Program Department can be reached at: [veritas@info.com.ph](mailto:veritas@info.com.ph).

## Far East Broadcasting Company

The Far East Broadcasting Company ("FEBC") was founded, and incorporated in Los Angeles, in 1945 for the purpose of taking "Christ to the World by Radio." Today the FEBC works closely with the Far East Broadcasting Association ("FEBA"), which is based in the Seychelles, to use radio to share the Good News in about 150 languages in Asia, the Middle East and Africa to a potential population of some 4 billion people.

The FEBC works in cooperation with other agencies that share a similar vision in order to obtain an adequate supply of programs in various languages. Each language service has a language consultant that is responsible for developing a radio program strategy for a given service area. Generally, programming addresses topics such as news, interpersonal relationships, health care, social issues, broadcast services, and Bible studies. In 1950, the station distributed FEBC-built pre-tuned radio sets throughout the country. Many of the sets were pre-tuned to local AM station DZAS while the rest were set to tropical band transmitters for the provinces.

Although FEBC uses local placement of programs in many of its target areas, the organization is a big proponent of continued shortwave broadcast transmissions. Shortwave is viewed as the major means of mass communication in many places in the developing world for the next two decades. FEBC broadcasts into areas that do not have AM, FM and TV available. FEBC has dozens of broadcasts on the air, which represent the only broadcasts in those particular languages.

Despite predictions, FEBC believes that international shortwave remains extremely popular in parts of the world where millions of people have little access to anything else in their own language. It is the only unregulated major media for broadcasting across international borders. With that in mind, in 1990, Project SAVE (Southeast Asia Voice of Evangelism) was begun. It is one of the largest technical projects ever undertaken by FEBC. The objective of the project is to

modernize the Bocaue, Philippines shortwave transmitter site in preparation for digital broadcasting. Four new energy-efficient 100,000-watt transmitters with digital transmission capability will be installed when the project is completed. Five high-gain rotating antennas will give the station the ability to concentrate the signals into the target areas also being constructed. At this point, only one of the four transmitters is in service. The others require additional funding.

Currently, FEBC airs over 300 broadcast hours per week from its shortwave transmitters in the Philippines. Until recently, they carried English language programs on shortwave broadcast to Myanmar and India from 0000-0130 UTC on 15,175 kHz and from 1300-1500 UTC on 11,995 kHz. However, these transmissions were terminated in May 2000. Check Al Quaglieri's Listeners Notebook column for the latest shortwave broadcast transmission times and frequencies for FEBC for its various language services.

On average, FEBC receives over 20,000 pieces of mail a month. About 25% of these letters come from the international broadcasts with the rest from broadcasts on local stations in the Philippines, Korea and Thailand. Over the years, the Far East Broadcasting Company has been an excellent verifier of listener reception reports. Accurate reception reports including return postage of either \$1.00 or 2 IRCs can be sent to the station at:

Far East Broadcasting Company  
P. O. Box 1  
Valenzuela, Metro Manila 0560  
Philippines

You can try reaching the station via electronic mail at: [info@febc.org](mailto:info@febc.org).

## Voice of America

The Voice of America ("VOA") began broadcasting in February 1942. Its charter, which became law in 1976, is the single-most important piece of legislation against which all VOA programming is measured. It provides

that "the long-range interests of the United States are served by communicating with the peoples of the world by radio." To win the attention and respect of listeners around the world, the VOA must serve as a consistently reliable and authoritative source of news. Its goal is to present accurate, objective, and comprehensive news but also present the policies of the United States clearly and effectively, and will also present responsible discussions and opinion on these policies.

The 1994 International Broadcasting Act consolidated all non-military, U.S. Government international broadcast services under a Broadcasting Board of Governors and also created the International Broadcasting Bureau (IBB). The IBB is composed of the Voice of America (VOA), WORLDNET Television and Film Service, and Radio and TV Marti, and an Engineering Directorate that maintains transmitting facilities and provides support for all of IBB's broadcasting elements.

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In checking with **NASWA** member and **VOA** scheduling guru Dan Ferguson, it appears that a good time to tune for the **VOA** relay at Tinang from the East Coast of North America is the **1100-1500 UTC** transmission in English on **9,760 kHz**; **15,160 kHz**; and **15425 kHz**.

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The VOA broadcasts about 700 hours of programming in 53 languages on shortwave and medium wave to an estimated audience of 86 million per week. The station reaches a large cross-section of the world's populations who tune to the international airwaves for news and information.

News and news-related programs account for a large percentage of VOA's broadcast schedule. The VOA maintains correspondents in twenty-three news bureaus worldwide and has a network of 100 "stringers," or part-time reporters, that write and update ap-

proximately 180 news stories. VOA also draws information from a variety of independent sources, including international wire services, international monitoring services, and U.S. print and electronic media. Although news ranks high in VOA's programming lineup, listeners also enjoy call-ins, features, Americana programs, English-teaching segments, and music shows. VOA's language services produce and broadcast programs that specifically address the interests of their respective listening audiences. All VOA language services broadcast a daily editorial that states the U.S. Government's position on various issues.

The VOA has maintained a relay facility at Poro, which closed recently, and now Tinang for many years. In checking with NASWA member and VOA scheduling guru Dan Ferguson, it appears that a good time to tune for the VOA relay at Tinang on the East Coast of North America is the 1100-1500 UTC transmission in English on 9,760 kHz; 15,160 kHz; and 15425 kHz. There are numerous other times and frequencies to hear this outlet of the VOA, which can be found periodically in Al Quaglieri's Listeners Notebook column.

The VOA is an excellent verifier of listener reception reports provided there hasn't been a staff cutback after your letter was mailed. In recent years many DXers have found writing to the station electronically produces an excellent reply rate. Reception reports can be sent to the station at:

Voice of America  
United States Information Agency  
International Broadcasting Bureau  
330 Independence Ave., SW  
Washington, DC 20547

Alternatively, you can write to the station electronically at: [qsl@voa.gov](mailto:qsl@voa.gov).

Remember to send in any Philippine shortwave broadcasting station logs to either Sheryl Paszkiewicz or Wallace Tribel for the *Log Report* and those interesting QSL verifications to Sam Barto for inclusion in the *QSL Report* column. Good luck with this DX Target.



# Adrian Peterson's Diary

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

## BFBS Singapore

Back in the year 1971, I was on a motor launch in Bangladesh. There had been a horrendous, devastating cyclone in the Bay of Bengal. It is calculated that one million people lost their lives in this overnight cyclone, thus making it the worst natural disaster on earth since Noah's Flood. At the time, I was on temporary loan to ADRA, the Adventist Development and Relief Agency, and we were in the delta areas of Bangladesh carrying relief supplies of food and basic living needs to the homeless survivors.

One afternoon, while the motor launch was travelling from one location to another, I was tuning across the shortwave bands on my Grundig radio when I was very surprised to hear the BBC World Service news in the 60 meter tropical shortwave band. On checking the WRTVH, I discovered that I was listening to BFBS Singapore, the British Forces Broadcasting Service, with 10 kw on 5010 kHz.

On a subsequent visit to Singapore a few years later, I took a taxi one humid rainy day to the British Army base on the outskirts of Singapore City. Even though this was a high security area, I was courteously granted approval to make a visit to BFBS Radio. As I approached the building, I was dismayed to discover that workmen were in the process of dismantling the station. They were removing all of the electronic equipment and refurbishing the building for use as an office.

As I walked through the empty rooms, I visualized what used to be. I saw the old studios and control room, the offices and tape library, of what used to be BFBS Singapore. Obviously, when this station was on the air it was an efficient and modern radio station.

BFBS Singapore was launched in early 1953 with a 10 kw transmitter operating at 7.5 kw. It was on the air on the constant frequency of 5010 kHz in two languages, English and Gurkha. Some 10 years later, a 5 kw FM transmitter was added.

BFBS Singapore had a reputation as an excellent verifier, and the AWR historic collection in Indianapolis contains two QSL cards confirming the reception of both the shortwave and FM transmitters.

In mid-1971, the British Army base was handed over to the Singapore army. The FM transmitter at this location was given to the BBC, which operated it by remote control. The shortwave transmitter was located at Jurong, near the famous bird park, and it was donated to Radio Singapore, which operated it for many years in parallel with their other 60 meter band outlet on 5052 kHz.

As I walked down the stairway and out of the two story building, I cast a backward glance at the sign board which read, "British Forces Broadcasting Service, Singapore."

So "What Happened to them Afterwards?" Well, the studio building became an office for officers in the Singapore Army. Both the shortwave and FM transmitters have long since been removed and junked. All that remains these days are the DX reports in old radio magazines, a cluster of QSL cards in old QSL collections, and the memories in the lives of the staff who were on the air with what was BFBS Singapore.

# The Lonely Voice from Down Under!

What happened to the original radio base that carried the shortwave programming from Radio Australia?

In the western suburbs of Sydney there is a Girl's High School standing on a spacious and attractive property. Nearly 100 years ago, this location was in an isolated area, some 20 miles distant from old and faraway Sydneytown. Ask the students who are attending the high school today: "Do you know the important history of this property?" At a guess we would probably say no, most of them do not know the interesting background associated with this property. This school property was at one time the site for one of the world's largest radio stations.

It was here in Pennant Hills that the newly-formed federal government purchased the 40 acre property quite early last century for the purpose of establishing a large wireless station. Electrical engineers came out from Germany to install the newly developed Telefunken wireless apparatus, and finally on August 19, 1912, wireless station POS was inaugurated. The original transmitter was a 25 kw spark unit and the antenna was an omni-directional vertical radiator; in other words, just simply a tall steel mast.

Station POS was intended to become the key station in a nationwide network of wireless stations for the purpose of inter-communication throughout the Commonwealth of Australia and its territories. The callsign POS stood for "Post Office Sydney," and the counterpart near Perth in Western Australia, some 3,000 miles distant, was POP. However, the callsigns were soon changed to conform to the new international regulations, and POS and POP became VIS and VIP, as they are to this day.


A large number of radio transmitters were installed over the years at this Pennant Hills location, many for communication traffic and some for radio broadcasting. During the year 1927, a new building was erected on the Pennant Hills property, specifically to house a new 20 kw shortwave transmitter. This unit made its inaugural broadcast under the now nostalgic callsign VK2ME on October 27, 1927, with its famous first "Empire Broadcast."

Soon afterwards, two more shortwave transmitters were installed at Pennant Hills, and these were in use as VLK and VLM for international communication and as VK2ME for program broadcasting.

When the climactic events of 1939 finally broke out into open warfare, the Australian government hastily organized an international shortwave service under the designation "Australia Calling." At Pennant Hills, the two transmitters on the air previously as VK2ME and VLK-VLM became VLQ and VLQ2, and they went on the air with the inaugural broadcast of "Australia Calling" on December 20, 1939 with programming from the studios of the ABC in Sydney.

This shortwave station, "the lonely voice from down under," was on the air for six years as the main facility for Radio Australia. However, when the new shortwave station at Shepparton in Victoria was commissioned in 1944, the usage of Pennant Hills was terminated. The AWA radio station at Pennant Hills then reverted back to full time usage as a communication facility, though occasionally the 10 kw transmitter VLM was on the air with Radio Australia programming beamed across the Pacific.

The Pennant Hills radio station was finally and forever closed on October 31, 1955 when all services were transferred to a newly constructed facility located at another Sydney suburb, Doonside. The property was sold, and upon it was built the Carlingford High School.

The only reminders left in the radio world of this once powerful voice from down under are references in old radio magazines, and QSL cards in old collections. The AWR historic collection in Indianapolis contains two original QSL cards from the old VK2ME, both in color, with a laughing Kookaburra superimposed on an outline map of Australia. One card is dated 1932 and the other 1937. 

# Technical Topics

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## The Cardioid Pattern Loop

You probably read John Bryant's excellent article on the K9AY loop antenna in the July issue of the NASWA Journal. John told how it worked on a recent DXpedition to the Pacific Northwest. He compared the performance to a much larger Beverage antenna and found the K9AY very close in overall performance.

One problem with John's article is that it assumed you already knew what a K9AY antenna was and had an idea of how it worked. For those of you who may not be familiar with this design, I will attempt to provide some basic loop theory and how one goes about designing a unidirectional loop antenna.

The K9AY antenna was first described in QST Magazine in September 1997. The author probably did not realize it but the design was a logical outgrowth of antenna work done in the 1920's and 30's when HF loop antennas were used extensively for aircraft and ship location determination.

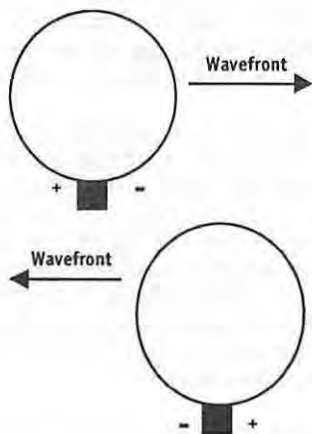
The K9AY antenna combines principles used in the direction finding loops of the 1930's with the terminated loop antenna invented toward the end of that decade.

A design for making a broadband loop by using resistive loading was patented by H. H. Beverage in 1941 (US Patent 2,247,743 in July 1941). Yes, that is the same Mr. Beverage who gave us the long-wire, traveling-wave, receiving antenna in the 1920's. One application envisioned by Beverage for his terminated loop was an omni-directional, broadband TV antenna. Although this patent resulted from an application filed in 1938, the design endured as the basis of a Radio Shack TV antenna sold as late as the mid 1990's.

In these early days, before the invention of RADAR, radiolocation techniques were one of the few ways to pinpoint the location of aircraft or ships in distress.

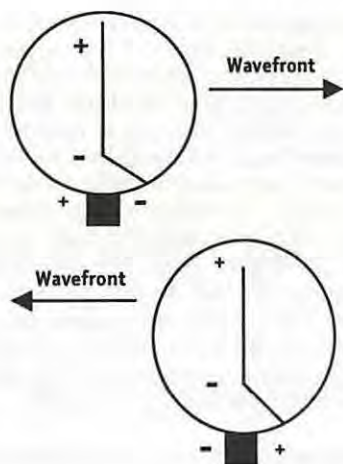
Loop antennas have two problems that reduce their usefulness. Loop antennas mounted in a vertical plane work only on the vertical component of the signal. Horizontally polarized energy such as results from the reflection of the signal from the ionosphere causes less distinct nulls and erroneous bearings. In addition loop antennas have a 180 degree ambiguity. There are two nulls 180 degrees apart. The 180 degree ambiguity can lead to real problems. A second shore station is required to also obtain a second line of bearing and where the two lines intersect would be the indicated position of the ship or aircraft.

The output polarity of a loop antenna is sensitive to the direction of the passing wavefront. Of course the actual polarity reverses every half cycle of the RF wave but ignore that for the moment. The effect is shown in Figure 1.



**Figure 1:** The polarity of the output of a loop antenna at any instant depends on the direction of the wavefront.

The addition of a vertical antenna inside the loop permits the loop to act as a unidirectional antenna. Refer to Figure 2.



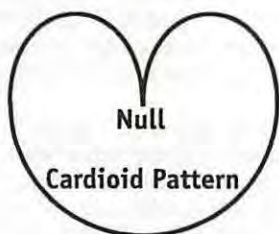
**Figure 2:** Combining a vertical antenna with a loop eliminates the 180 degree ambiguity of the ordinary loop.

At the instant the wavefront traveling from left to right induces a particular polarity in the vertical antenna, the loop has the polarity shown in the top drawing of Figure 2.

When the wavefront travels in the opposite direction, the polarity of the loop reverses but the polarity of the vertical whip stays the same. This is shown in the bottom drawing of Figure 2. In the top example the voltage induced in the vertical antenna will cancel the voltage induced in the loop. In the bottom example the voltage induced in the sense antenna will add to the voltage induced in the loop.

The result is the classic cardioid pattern similar to that shown in Figure 3. The null can be as deep as 40 dB. The depth is highly dependent upon the amplitude and phase matching between the vertical antenna output and the loop output. In practice the vertical antenna is made long enough so

that the voltage is greater than the voltage from the loop. The vertical antenna output is then attenuated so that the voltage from the wire exactly matches the amplitude of the voltage generated by the loop. The phase is controlled by placement of the vertical antenna inside the loop and by keeping the leads short.



**Figure 3:** The cardioid pattern provides a deep null to eliminate noise and interference from the back of the antenna.

The antenna described here was used extensively in the 1920's and 1930's for direction finding. Operators had to be trained to adjust the tuning and the coupling controls very carefully. Any error in matching either the amplitude or phase of the network that combined the signals from the vertical and the loop caused a loss of null depth. As communications circuits moved higher and higher into the short-wave spectrum, the phase matching became more and more touchy. Something simpler and more stable was required.

Experimenters found that the vertical antenna can be eliminated and the function combined into the design of the loop. This is accomplished in the K9AY loop by making the loop unbalanced and operating the antenna against a ground plane. By unbalanced I mean that one side of the feed point is connected to ground.

We will look at how the K9AY antenna does that in the next installment of this column. We will also look at the commercial version of the K9AY antenna John Bryant used. Until next time stay tuned.

# Listener's Notebook

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**ANGOLA** *Radio Ecclesia*, Luanda, shortwave relays, by Radio Nederland transmitters Madagascar (-m) and Flevo (f), started on July 14th 2000...and ended on July 26! For what it's worth, the schedule WAS 0500-0600 on 15195 from Madagascar, and 1900-2000 on 15175 from Flevo. "Sadly I have to inform you that the Radio Ecclesia transmissions via Radio Netherlands have stopped as of today. Due to technical problems in Angola, which are beyond the control of Radio Netherlands, the station has been unable to feed audio to us for the past few days. A previously-supplied standby program has been transmitted on shortwave instead. Since the technical expert who helped to set up the audio feed is no longer in Angola, the decision has been taken to suspend the shortwave broadcasts until further notice. Everyone here at Radio Netherlands is disappointed that the broadcasts cannot continue. Radio Ecclesia continues to be audible on the Internet [http://ecclesia.snet.co.ao], but the program that was being transmitted on shortwave was specially produced, and is not available to us by any other means." (Sennitt, Radio Netherlands, July 26, DX Listening Digest/Hauser-OK) [Hope you caught it while it happened!-AQ]

**ANTARCTICA** 15476 *LRA36 Radio Nacional Arcangel* San Gabriel, currently is on the air only Mo-Fr 1800-2100, on Sa & Su they are down for equipment maintenance. The QSL backlog is due to a lack of Argentine postage stamps, and will hopefully be solved by sending the QSLs to someone in Buenos Aires who will mail them from there. (Barrera-ARG)

**AUSTRALIA** Talks have started between the ABC and the British-based group, *Christian Voice*, on buying time for Radio Australia on the Cox Peninsula transmitters near Darwin. The Federal Government has sold the former Radio Australia transmitters to Christian Voice Australia. (ABC Online News/Francis-AUS/EDXP/Padula-AUS)

**BOLIVIA** 4716.76 *Radio Yura*, was noted at 1030-1115 fair to poor, Program for rural audience in Quechua, with rustic CP folklore. ID was given at 110 2 as "Transmite Radio Yura en la banda internacional de los 60 metros onda cor ta llegando nitidamente a todo Bolivia y el mundo." (July 1/Relampago DX/TIN-JPN)

6025 *Radio La Voz de Bolivia* 2315-2350 ID as "La Voz de Bolivia presenta programa Fiesta Boliviana," mx. Woman with ID "Gracias por estar en sin-

tonia de la Voz de Bolivia" and as "Esta es la Voz de Bolivia desde la Paz, Bolivia, transmitiendo tambien en 94.1 FM, esta usted escuchando Fiesta Boliviana, la Voz de Bolivia, cubriendo al mundo entero..." Same station as Radio Illimani. Apparently now using alternate slogan La Voz de Bolivia more often. (Arrunategui-PRU/Moore-IA/Cumbre DX)

**BRAZIL** *Radio Copacabana*, Rio, reactivated, noted on 5013 at 0200 with ID: "Radio Copacabana e emissoras da cadeia da Igreja Universal do Reino de Deus" (Romais-BRZ, July 25, Associado do DX Clube do Brasil, translated by gh for DX Listening Digest/Hauser-OK)

**CANADA** *CHNX*, 6130 is off the air due to a broken transmitter. According to Scott Snailham, a former-station employee: "I spoke to Mark Olsen, CE, and he said that he was waiting on getting hold of a manual to attempt to solve the problem. I cannot say if it will ever be back on, as when I was answering QSL's it was on shaky grounds financially, and dare I say it, this chain is known for keeping costs tight. CHNX power, 50 watts or 500 watts? This is hard to say, at the time I was answering QSLs, it was between 40-70 watts. This was based on the exciter output power, as the power amplifier has been needing repair for quite a while, but they are licensed for 500 watts. It's safe to say that I don't think they have been up to full power for years, due to the state of the transmitter. (Alm-SWE, Jun 21, WWDXC Top News July 1 via DXLD/Hauser-OK)

**CHINA** *Nei Menggu* (Hohhot) updated schedule:

|           |           |                |
|-----------|-----------|----------------|
| 0000-0105 | Mongolian | 4525 4785 6195 |
| 0000-0105 | Mandarin  | 4000 4620 6045 |
| 0105-0120 | Mongolian | 7270           |
| 0120-0550 | Mandarin  | 7105 9520      |
| 0120-0550 | Mongolian | 7270 9750      |
| 0950-1505 | Mongolian | 4525 4785 6195 |
| 0950-1515 | Mandarin  | 4000 4620 6045 |
| 2150-2400 | Mongolian | 4525 4785 6195 |
| 2150-2400 | Mandarin  | 4000 4620 6045 |

*Guangxi Foreign Broadcasting Station:*

|           |            |           |
|-----------|------------|-----------|
| 1000-1200 | Vietnamese | 5050 9820 |
| 1200-1400 | Cantonese  | 5050 9820 |
| 1400-1600 | Vietnamese | 5050 9820 |
| 2300-0100 | Vietnamese | 5050 9820 |

(NDXC—Nagoya DX Circle-JPN, via edxp, Jul 20/BC-DX/Bueschel-GER)

**CHINA—TAIWAN** Leased relays of international broadcasts on HF, from CBS are:

|       |      |                      |
|-------|------|----------------------|
| 6300  | WYFR | 2100-0000, 1100-1600 |
| 9280  | WYFR | 2100-0000, 1100-1600 |
| 9955  | WYFR | 1500-1700            |
| 11550 | RA   | 0900-1000            |
|       | WSHB | 1200-1300            |
|       | WYFR | 1300-1600            |
|       | RA   | 2300-0000            |
| 11840 | WSHB | 1000-1100            |
| 15165 | WYFR | 0000-0200            |

(Bob Padula-AUS, edxp July 15 via DXLD/BC-DX/Bueschel-GER)

**CLANDESTINE—AFRICA** *Radio Freedom, Voice of the Ogadeni People* (Somali: Halkani wa Radio Xuriyo, Codki Ummada Odageniya) was first observed by BBC Monitoring in June 2000. It is believed to hire airtime on Deutsche Telekom transmitters in Juelich, Germany. The radio appears to support the Ogaden National Liberation Front. Programming is hostile to the Ethiopian government which it describes as the "Tigray regime" (a reference to the supposed domination of the government by ethnic Tigrayans).

1630-1700 Somali 15175 Tu/F  
(BBCM)

*Radio Rainbow, Voice of Peace and Brotherhood* (Amharic: Ye Kestedamena Radio Ye Selamena Wendemamachenet Dimtse) is reportedly operated by an Ethiopian opposition group called Research and Action Group for Peace in Ethiopia and the Horn of Africa (RAGPEHA). It broadcasts via hired shortwave transmitters in Germany. Address: c/o RAGPEHA PO Box 140 104, 53056 Bonn, Germany

0100-0200 Amharic 9855 Sa  
0900-1000 Amharic 5995 Sa  
1600-1700 Amharic 15105 Fr

(BBCM)

*Voice of Democratic Eritrea, Voice of the Eritrean Liberation Front -Revolutionary Council* (Tigrigna "Demtsi Democrasiyawit Eritrea;" Arabic "Sawt Eritrea al-Dimuqratiya—Sawtu Jabhat al-Tahrir al-Eritrea") is hostile to the government of Eritrea. Transmitted via Juelich.

0100-0200 Tigrigna 9855 Su  
1300-1400 Tigrigna 6045 Sa  
1600-1700 Tigrigna 15365 Mo

(BBCM)

*Voice of Ethiopian Salvation* (Amharic: Yih Ye Ethiopia Medhin Dimts New) was first observed in June 2000. It appears to support the Ethiopian Salvation Democratic Party. Programming is hostile to the Ethiopian government. It is believed to hire airtime on Deutsche Telekom transmitters in Juelich, Germany.

1600-1700 Amharic 15365 Su/Th

(BBCM)

**CLANDESTINE—ASIA** *Que Hong Radio* observed on new 12150 \*2300-2359\* on Jul 20 and Jul 21, with Vietnamese programming. Transmitter site deduced to be in Central Asia, possibly from former CIS facilities. (Bob Padula-AUS/BC-DX)

*World Falun Dafa Radio* (Mandarin: Shijie Falun Dafa Diantai) began broadcasting on 1st July 2000. Programs are said to be produced by Falun Gong members in the United States. The Falun Gong movement says that its radio station aims "to broadcast information about the movement and clarify facts about the Falun Gong issue to people in the Chinese mainland."

1400-1500 Mandarin 9370  
(BBCM +Ferguson)

**CLANDESTINE—MIDEAST** *Voice of Iraqi Kurdistan* heard on new 7135 1608-1933\*. At the beginning were the programs in Kurdish, from 1800- in Arabic. The morning programs on 7135 noted from 0235, sometimes later (Petraitis-LIT, July 7, BC-DX via DXLD/Hauser-OK)

*Voice of the Iraqi People* in Kurdish and Arabic observed 0300-0700 and 1500-1900 on NF 5850 (irr), ex 9495 and on NF 7135, ex 7095, //4085 (Observer, Bulgaria, July 2 via DXLD/Hauser-OK)

*Voice of People of Kurdistan*, 6995 has a good website, (<http://www.aha.ru/~said/dang.htm>) with lots of news of interest to the Kurdish people. Frequency mentioned there is 4060, not the new one. The station was heard very well tonight on 6995 with several IDs, internet address at 0230. I think a powerful transmitter is being used for this. Anyone know address for reception report? (Clube DX da Amazonia, via radioescutas translated by gh for DXLD/Hauser-OK)

*Radio International* was first heard in late 1998 and early 1999 via US shortwave station WWCR in Nashville Tennessee, which hires airtime on a commercial basis. The current broadcasts, believed to be via a hired Moldovan shortwave transmitter, were first heard in November 1999. *Radio International* appears to be based in the UK. Programming has given prominence to Ali Javadi, publisher of 'Porsesh' ('Question') journal. The station's answer-phone message also gives contact details for the UK branch of the Workers' Communist Party of Iran and its Kurdish counterpart.

1700-1730 Persian 15550

(BBCM)

**COLOMBIA** *Rdif. Nacional*, Bogota was heard Thu July 7 on new 9685 between 2200 and 0100 with a very good signal, though with a boxy sound which has always characterized this station. This was not heard in parallel on 4955, indicating they may be using the same transmitter for 9685. Reports were requested to [radiodifusora@hotmail.com](mailto:radiodifusora@hotmail.com) or to Edifi-

cio Inravisin, Piso 3, Avenida El Dorado, Santa Fe de Bogota. They confirm with QSL (Santiago San Gil G., Venezuela, Banda Tropical, Club Diexistas de la Amistad/DXLD/Hauser-OK) On July 13, I heard it on 9635 testing at 2200 and not //4955. Are they looking for an interference-free frequency on 31m? (Jorge Garcia Rangel, Venezuela, Banda Tropical, Club Diexistas de la Amistad; both translated by gh for DXLD/Hauser-OK)

**CONGO** 5985 *RTV Congo* confirmed my French language reception report of 1 May 2000 with a very nicely written personal letter signed by Alphonse Bouya-Dimi, Station Director. According to Mr Bouya-Dimi, Radio Congo transmits daily from 1600 to 1800 on 9610 kHz and from 1800h onward on 5985 kHz using a Siemens transmitter with 100 kW output. A Spanish news bulletin is broadcasted daily from 2200-2215h local time. I haven't heard this program yet, but the Station Director is asking for reception reports for this transmission. This is the first QSL from Radio Congo I have seen reported in many years. (Gehrig/Cumbre DX/Moore-IA)

**CONGO—DEMOCRATIC REPUBLIC** *RTNC-Mbandaka* has just been equipped with a new 1-kW shortwave transmitter. Equipped with this new material, RTNC-Mbandaka will be able to cover a range of up to 300 km. (RTNC TV, Kinshasa, Jul 11, via BBC M July 13 via DXLD/BC-DX/Bueschel-GER) [Still on the mythical 5995?—AQ]

**CROATIA** *Croatian Radio Shortwave Service* identifies as Croatian Radio Shortwave (Croatian: "Hrvatski Radio, Kratki Val"). Most frequencies are relayed via transmitters at Juelich, Germany. The Multilingual broadcasts may include programming in Croatian, English and Spanish. Web Site: <http://www.hrt.hr>

|           |              |                      |
|-----------|--------------|----------------------|
| 0000-0500 | Multilingual | 9925                 |
| 0400-0800 | Croatian*    | 6165 7365 9830       |
| 0500-0700 | Multilingual | 9470                 |
| 0700-0800 | Multilingual | 13820                |
| 0800-0900 | Croatian     | 6165 7365 9830 13820 |
| 0900-1230 | Croatian*    | 6165 9830 13830      |
| 1230-1500 | Croatian     | 6165 9830            |
| 1500-1700 | Croatian     | 6165 9830 13830      |
| 1700-2000 | Croatian*    | 6165 13830           |
| 2000-2100 | Croatian     | 6165 11905 13830     |
| 2300-2359 | Multilingual | 9925                 |

English daily from 0102-0125 and again from 0302-0325

\* five minutes of English news 0605 (Mo-Sa), 0705 (Su), 1205 and 1805 (daily) (BBCM)

**DOMINICAN REPUBLIC** 4960.25 *Radio Villa* 0212-0240 July 12; They're back, with the same "Los 5 Grandes de la Bachata" programming that they had before last Christmas. Very good signal. 0240 powerful carrier on 4960.0 made a mess of it

(Mark Mohrmann, VT, July 12, World of Radio/DXLD/Hauser-OK)

**ETHIOPIA** *Radio Ethiopia* National Service, languages primarily Amharic, English, Oromo, Tigrinya 0300-1100 Multilingual 5990 7110 9705v  
1100-1400 Multilingual 990 7110 9705v Sa/Su  
1500-2000 Multilingual 990 7110 9705v  
(BBCM)

**INDIA** *All India Radio* External Service, Web Site: <http://www.allindiaradio.com/>

|           |            |   |
|-----------|------------|---|
| 0000-0045 | English    | 7410 9705 9950 11620 13625              |
| 0000-0045 | Tamil      | 4790 9835 9910 11740 11985 13795        |
| 0015-0100 | Urdu       | 6155 9595                               |
| 0045-0115 | Sinhala    | 11985                                   |
| 0100-0130 | Burmese    | 9950 13630                              |
| 0100-0200 | Sindhi     | 5990 7125                               |
| 0100-0430 | Urdu       | 6155 9595 11620                         |
| 0130-0200 | Tibetan    | 9565 13700                              |
| 0130-0227 | Nepali     | 3945 6045 9810 11715                    |
| 0215-0300 | Pashto     | 9910 11735 11895 13620                  |
| 0300-0345 | Dari       | 9910 11735 11895                        |
| 0315-0415 | Hindi      | 13695 15075 15185 17715                 |
| 0400-0430 | Persian    | 15780 17845                             |
| 0415-0430 | Gujarati   | 15185 17715                             |
| 0430-0530 | Arabic     | 13620 15780 17845                       |
| 0430-0530 | Hindi      | 15075 15185 17715                       |
| 0700-0800 | Nepali     | 7250 9595 11850                         |
| 0830-1130 | Urdu       | 9595 11620                              |
| 0845-0945 | Indonesian | 15780 17485                             |
| 1000-1100 | English    | 11585 13700 15020 17485 17840 17895     |
| 1115-1200 | Thai       | 13630 15340 17740                       |
| 1115-1215 | Tamil      | 13700 15075 15770 17620 17860           |
| 1145-1315 | Mandarin   | 15780 17705                             |
| 1215-1245 | Telugu     | 13700 15770 17620                       |
| 1215-1315 | Burmese    | 11620 11710                             |
| 1215-1330 | Tibetan    | 9565 11695                              |
| 1230-1500 | Sindhi     | 6165 9620 11585                         |
| 1300-1500 | Sinhala    | 9700 15020                              |
| 1315-1415 | Dari       | 7255 9910                               |
| 1330-1430 | Nepali     | 3945 4860 6045 11695                    |
| 1330-1500 | English    | 9710 11620 13710                        |
| 1415-1530 | Pashto     | 7255 9910                               |
| 1430-1930 | Urdu       | 4860 6045                               |
| 1500-1600 | Baluchi    | 6165 9620 11585                         |
| 1515-1600 | Gujarati   | 11620 15175                             |
| 1515-1615 | Swahili    | 9950 17670                              |
| 1615-1715 | Russian    | 11620 15140                             |
| 1615-1730 | Hindi      | 7410 9950 12025 13770 17670             |
| 1615-1730 | Persian    | 7230 9910                               |
| 1730-1830 | Malayalam  | 7230 12025                              |
| 1730-1945 | Arabic     | 13620 17670                             |
| 1745-1945 | English    | 7410 9950 11620 11935 13750 15200 17670 |
| 1945-2030 | French     | 9910 13750                              |

1945-2045 Hindi 7410 9950 11620  
 2045-2230 English 7150 7410 9650 9910 9950  
 11620 11715  
 2245-2359 English 7410 9705 9950 11620  
 13625  
 2300-2359 Hindi 9910 11740 13795  
 (BBCM +Dasgupta-IND/WWDXC Top News/July 1/  
 DXLD/Hauser-OK)

**INDONESIA 3344.8 RRI Ternate, 1329-1401\*.** Talk, local pops, Love Ambon with closing announcement. Poor. (Jul 5, 2000. Yamada-JPN/Jembatan DX)

3355.4 **RRI Jambi, 1255-1420.** Talk, ID, SCI, Jakarta news relay, ID again, "Berita Keluarga," dangdut music then lagu populer.//4925kHz which was finished at 1400 suddenly. Poor. (Jul 7/Yamada-JPN/Jembatan DX)

3976.1 **RRI Pontianak, 1120-1135.** Christian religious program, music, IS, Local news entitled "Warta Berita" at 1130. Fair. (Jul 2/Yamada-JPN/Jembatan DX)

4606.3 **RRI Serui, 1200-1245.** Jakarta news relay, local pops. Fair. (Jul 2/Yamada-JPN/Jembatan DX)

4753.4 **RRI Makassar, 1114-1125.** ending music of local news as "Bagimu Negri," ID as "Radio Republik Indonesia Makassar," then local pops. Fair. (Jul 8/Yamada-JPN/Jembatan DX)

4874.5 **RRI Sorong, 1212\* Jul 7, reactivated after a sizeable break; also 2135-2210 Jul 6.** (Jul 6 & 7/David Foster-OZ via Numero Uno No.1586/Jembatan DX/Yamada-JPN)

4920 **RRI Tanjung Pinang, 1316-1330 Jun 25, nx followed by Tanjung Pinang ID at 1318, then into short mx and male anc.** Very weak this morning compared to the other RRI's. (Jun 25/Don Nelson-OR via Numero Uno No.1584/Jembatan DX/Yamada-JPN)

4925.0 **RRI Jambi, 1440-1525\*.** Dangdut music, SCI, Jakarta news relay, ID then reading of Holy Koran. Finished with Love Ambon. Fair. (Jun 27/Yamada-JPN/Jembatan DX)

5030.0 **RRI Sibolga, 1156-1335 Jul 9, No SCI but good ID at 1300, into nx followed by independent mx at 1300 ending the nx.** Strong mix with CH stn, and not// other RRI's after ToH (all others were in parallel when they did short nx at 1300-1308 and census mx at 1309). (Jul 9/Don Nelson-OR via Numero Uno No.1586/Jembatan DX/Yamada-JPN)

6153.7 **RRI Biak, 1403-1501\*.** Telephone conversations, Love Ambon. Fair. (Jul 5/Yamada-JPN/Jembatan DX)

11784.9 **V.O.Indonesia, Cimanggis. 2038-2050.** English program. Talk about Kalimantan, ID as "Voice of Indonesia, the Overseas Service of Radio Republic Indonesia broadcasting from Jakarta" then traditional music from Bandung. Usually 15150kHz is used at this time. Fair. (Jul 7/Yamada-JPN/Jembatan DX)

15125 **RRI Jakarta, from 11:00 with English language program, sponsored by the Indonesia-Australia Language Foundation.** So, far, I've noted this program on Sunday and Wednesday, but not Saturday or Tuesday; so it's not every day. (Jul 5, Jun 18 & 25/Art Delibert via Cumbre DX No.302/Jembatan DX/Yamada-JPN)

**RRI Sorong on 4874.5kHz was reactivated.** (Yamada-JPN/Jembatan DX)

**RRI Pekanbaru** seems to have been absent from 5040 kHz for several weeks now. Still well heard on MW 927. (Davies-MLA/EDXP/Padula-AUS)

RRI station addresses:

**RRI AMBON** Jalan Jendral A. Yani No.1, Ambon 97124—Maluku

**RRI BANDA ACEH** Jalan Sultan Iskandar Muda No.13, Banda Aceh 23243—D.I. Aceh

**RRI BANDAR LAMPUNG** Jalan Jendral Gatot Subroto No.26, Pahoman, Bandar Lampung 35213-Lampung

**RRI BANDUNG** Jalan Diponegoro No.61, Bandung 40122—Jawa Barat

**RRI BANJARMASIN** Jalan Jendral A. Yani No.234, Km 3.5, Banjarmasin 70234- Kalimantan Selatan

**RRI BENGKULU** Jalan Letjen S. Parman No.25, Bengkulu 38227—Bengkulu

**RRI BIAK** Jalan Majapahit, Biak 98117—Papua

**RRI BOGOR** Jalan Pangrango No.30, Bogor 16161—Jawa Barat

**RRI BUKITTINGGI** Jalan Prof. Mr. Moh. Yamin No.199, Aukuning, Bukittinggi 26131- Sumatera Barat

**RRI CIREBON** Jalan Brigjen Darsono By Pass, Cirebon 45132—Jawa Barat

**RRI DENPASAR** Jalan Hayam Wuruk, Denpasar 80233—Bali

**RRI FAK FAK** Jalan Kapten P. Tendean, Fak-Fak 98612—Papua

**RRI GORONTALO** Jalan Jendral Sudirman No.30, Gorontalo 96115—Sulawesi Utara

**RRJ JAKARTA** Jalan Medan Merdeka Barat No.4-5, Jakarta Pusat 10110—D.K.I. Jakarta

**RRJ JAMBI** Jalan Jendral A. Yani No.5, Telanaipura, Jambi 36122—Jambi

**RRJ JAYAPURA** Jalan Tasangkapura No.23, Jayapura 99200—Papua

**RRJ JEMBER** Jalan Letjen D.I. Panjaitan No.61, Jember 68110—Jawa Timur

**RRJ KENDARI** Jalan Laute No.44, Mandonga, Kendari 93111—Sulawesi Tenggara

**RRJ KUPANG** Jalan Tompello No.8, Kupang 85225—Nusa Tenggara Timur

**RRJ LHOKSEUMAWA** Jalan Cut Nyak Sadah, Sim-pang Kramat, Kandano, Muaradua, Lhokseumawe 24352—D.I. Aceh

**RRJ MADIUN** Jalan Letjen D.I. Panjaitan No.10-12, Madiun 63133—Jawa Timur

**RRJ MAKASSAR** Jalan Riburane No.3, Makassar 90174—Nusa Tenggara Barat

**RRJ MALANG** Jalan Candi Panggung No.58, Malang 65140—Jawa Timur

**RRJ MANADO** Jalan Radio No.1, Tikalaares, Manado 95124—Sulawesi Utara

**RRJ MANOKWARI** Jalan Merdeka No.68, Manokwari 98311—Papua

**RRJ MATARAM** Jalan Langko No.83, Ampenan, Mataram 83114—Nusa Tenggara Barat

**RRJ MEDAN** Jalan Martinus Lubis No.5, Medan 20232—Sumatra Utara

**RRJ MERAUKE** Jalan Jendral A. Yani, Merauke 99611—Papua

**RRJ NABIRE** Jalan Merdeka No.74, Nabire 98811—Papua

**RRJ NATUNA** Ranai, Bunguran Timur, Pulau Natuna Besar 29183—Riau

**RRJ PADANG** Jalan Jendral Sudirman No.12, Padang 25111—Sumatra Barat

**RRJ PALANGKARAYA** Jalan Moh. Husni Thamrin No.1, Palangkaraya 73111- Kalimantan Tengah

**RRJ PALEMBANG** Jalan Radio No.2, Km.4, Palembang 30128—Sumatra Selatan

**RRJ PALU** < 3960, 7235 kHz > Jalan R.A. Kartini No.39, Palu 94112—Sulawesi Tengah

**RRJ PEKANBARU** Jalan Jendral Sudirman No.322, Pekanbaru 28113—Riau

**RRJ PONTIANAK** Jalan Jendral Sudirman No.7, Pontianak 78117—Kalimantan Barat

**RRJ PURWOKERTO** Jalan Jendral Sudirman No.427, Purwokerto 53116—Jawa Tengah

**RRJ SAMARINDA** Jalan Prof. Mr. Moh. Yamin No.8, Samarinda 75110- Kalimantan Timur

**RRJ SEMARANG** Jalan Jendral A. Yani No.144-146, Semarang 50241—Jawa Tengah

**RRJ SERUI** Jalan Pattimura, Serui 98213—Papua

**RRJ SIBOLGA** Jalan Ade Irma Suryani Nasution No.11, Sibolga 22513- Sumatra Utara

**RRJ SINGARAJA** Jalan Gajahmada No.144, Singaraja 81113—Bali

**RRJ SORONG** < 4875, 9743 kHz > Jalan Jendral A. Yani No.44, KLA Demak II, Sorong 98414- Papua

**RRJ SUMENEP** Jalan Jendral Urip Sumoharjo No.26, Sumenep 69411—Jawa Timur

**RRJ SUNGAI LIAT** Jalan H.O.S. Cokroaminoto No.13, Sungai Liat 33211—Sumatra Selatan

**RRJ SURABAYA** Jalan Pemuda No.82-90, Surabaya 60271—Jawa Timur

**RRJ SURAKARTA** Jalan Abdulrahman Saleh No.51, Surakarta 57133—Jawa Tengah

**RRJ TANJUNG PINANG** Jalan Jendral A. Yani, Bintan, Tanjung Pinang 29133—Riau

**RRJ TERNATE** Jalan Sultan Khairun, Kedaton, Ternate 97720—Maluku Utara

**RRJ TUAL** Watden, Pulau Kai, Tual 97661—Maluku

**RRJ WAMENA** Jalan Jendral A. Yani No.14, Wamena 99511—Papua

**RRJ YOGYAKARTA** Jalan A. Jazuli No.4, Yogyakarta 55224—D.I. Yogyakarta (IDX/Yamada-JPN/Jembatan DX)

**IRAN Voice of the Islamic Republic of Iran - Mashhad** This schedule shows services broadcast by the Voice of the Islamic Republic of Iran (VIRI) from its studios at Mashhad, the capital of Khorasan province in northeast Iran, for listeners in central Asia. The Tajik broadcasts may be in standard Persian. Station identification in Persian: "*Inja Mashhad ast, Seda-ye Jomhuri-ye Eslami-ye Iran, markaze Khorasan.*" ("*This is Mashhad, the Voice of the Islamic Republic of Iran, Khorasan centre.*")

|           |       |      |
|-----------|-------|------|
| 0100-0230 | Tajik | 7180 |
| 0230-0300 | Uzbek | 7180 |
| 0300-0430 | Dari  | 9580 |
| 1330-1500 | Dari  | 7180 |

1500-1600 Uzbek 5955  
 1600-1730 Tajik 5955  
 (BBCM)

**IRELAND** The external service from *Radio Telefís Éireann (RTE)*, the Irish state broadcaster, is transmitted through Merlin Communications via hired shortwave transmitters in Sackville Canada (c), Ascension Island (a), Singapore (s) and United Kingdom (u), as indicated below. Web Site: <http://www.rte.ie/radio/worldwide.html>

0130-0200 English 6155u  
 1000-1030 English 11740s  
 1800-1830 English 15315u  
 1830-1900 English 13725c 21630a  
 (BBCM)

**ITALY** The city council of Argenta in northern Italy has granted *Adventist World Radio (AWR)* a permit to build a new shortwave facility there. After a final technical review by AWR engineers in August, bids for construction would be let, and construction could begin soon thereafter. (Peterson, AWR/EDXP/Padula-AUS)

**LIBYA** *Voice of Africa* noted on new 17725 (x15435) with Arabic program at 1025. The nx in English and in French I monitored at this time: 0130-0145, 1145-1200, 1730-1745, 2030-2045. First half of this is 15 min for English, then French. News in Arabic is broadcast until news in foreign languages, so if the station has more information all news lasts longer. The beginning of news in English/French lately runs about 2-8 minutes late. (Petraitis-LIT, July 13/20, BC-DX via DXLD/Hauser-OK)

**MALTA** *Voice of the Mediterranean (VOM)* is a non-commercial external radio broadcaster. It is funded by the Maltese government. In the past VOM has also received some funding from the Libyan government for its broadcasts to Europe. VOM currently broadcasts on shortwave via hired transmitters in Italy and Russia. Web Site: <http://www.vom-malta.org.mt>

0500-0600 Japanese 17570-Russia Su  
 0500-0530 Italian 7150-Italy Mo-Sa  
 0530-0600 Arabic 7150-Italy Mo-Sa  
 0600-0630 English 7150-Italy Mo-Sa  
 0700-0800 Italian 11770-Italy Su  
 0800-0900 English 11770-Italy Su  
 0900-1000 Maltese 11770-Italy Su  
 1000-1100 French 11770-Italy Su  
 1100-1200 German 11770-Italy Su  
 1900-2000 Arabic 12060-Russia Fr  
 1900-2000 English 12060-Russia Sa-Th  
 2000-2030 French 12060-Russia Su  
 2000-2100 Arabic 12060-Russia Mo-Sa  
 2030-2100 German 12060-Russia Su  
 (BBCM)

**MONGOLIA** *Voice of Mongolia*

0830-0900 Russian 12015  
 0900-0930 Japanese 12085  
 0930-1000 Mongolian 0990 12085  
 1000-1030 Mandarin 0990 12085  
 1030-1100 English 12085  
 1100-1130 Mongolian 0990 12085  
 1130-1200 Mandarin 0990 12085  
 1200-1230 Japanese 12085  
 1300-1330 Russian 12015  
 1430-1500 Mandarin 12015 12085  
 1500-1530 English 12015 12085  
 1930-2000 Russian 12015  
 2000-2030 English 12015 12085  
 2100-2130 Japanese 12085  
 (BBCM)

**MYANMAR** The weekday schedule of *Radio Myanmar*, Yangon, observed as: 5985 \*0930-1600\* (English 1430-1600) 7185 \*0030-0245\* (English 0230-0245) 9730 \*0330-0830\* (English) 4725 \*0930-1430\* (indigenous languages) (Padula EDXP Jun 27/Cumbre DX/Moore-IA)

**NIGERIA** *Voice of Nigeria* now using new 7265.5 instead of long-time 7255.0. Sked:

0500-0700 English  
 0700-0800 French  
 0800-0900 Hausa  
 0900-1000 Fulfulde  
 1000-1100 English  
 1100-1200 French  
 1200-1300 Hausa  
 1300-1400 Fulfulde  
 1400-1500 Arabic  
 1500-1700 English  
 1700-1800 Arabic  
 1800-1900 French  
 1900-2100 England  
 2100-2200 Fulfulde  
 2200-2300 Hausa

(Observer-BUL, Ivo Ivanov and Anguel Datzinov, Jul 23/BC-DX/Bueschel-GER)

**NORTHERN MARIANA ISLANDS** *KFBS*—Far East Broadcasting Company, Saipan Web Site: <http://www.febc.org/>

0800-0830 Banjar 15380  
 0830-0900 Gorontalo 15380  
 0855-1100 Russian 11650  
 0900-0930 Makasar 15380  
 0930-1000 Bugis 15380  
 0955-1600 Mandarin 11580  
 1000-1030 Sundanese 15380  
 1030-1100 Javanese 15380  
 1100-1230 Indonesian 15380  
 1100-1130 Mongolian 11650  
 1130-1400 Russian 11650  
 1230-1300 Malay 15380  
 1300-1400 Vietnamese 12160

|           |            |                   |
|-----------|------------|-------------------|
| 1400-1500 | Russian    | 9465 Fr           |
| 1400-1430 | Mien       | 12160 Th          |
| 1400-1430 | Koho       | 12160 Su          |
| 1400-1430 | Hmong      | 12160 We          |
| 1400-1430 | Vietnamese | 12160 Mo/Tu/Fr/Sa |
| 1400-1530 | Russian    | 9465 Sa-Th        |
| 1430-1530 | Burmese    | 12160             |
| 1500-1530 | Ukrainian  | 9465 Fr           |
| 1530-1600 | Tatar      | 9465 Mo           |
| 1530-1545 | Mari       | 9465 We           |
| 1530-1545 | Chuvash    | 9465 Sa           |
| 1530-1545 | Russian    | 9465 Tu           |
| 1530-1545 | Uzbek      | 9465 Th           |
| 1530-1545 | Kyrgyz     | 9465 Fr           |
| 1545-1600 | Kyrgyz     | 9465 Fr/Sa        |
| 1545-1600 | German     | 9465 Tu/We        |
| 1545-1600 | Osetin     | 9465 Th           |
| 1600-1630 | Russian    | 9465 Su-Fr        |
| 1600-1615 | Uyгур      | 12005             |
| 1600-1630 | Ukrainian  | 9465 Sa           |
| 1615-1630 | Kyrgyz     | 12005 We/Fr       |
| 1615-1630 | Osetin     | 12005 Mo          |
| 1615-1630 | Kazakh     | 9495 Mo-Tu        |
| 1615-1630 | Uzbek      | 12005 Sa/Su       |
| 1630-1830 | Russian    | 9465              |
| 1830-1900 | Ukrainian  | 9465 Mo-We        |
| 1830-1845 | Russian    | 9465 Tu-Sa        |
| 1830-1900 | Russian    | 9465 Su-Th        |
| 1830-1845 | Ukrainian  | 9465 Fr           |
| 1830-1845 | Udmurt     | 9465 Su           |
| 1845-1900 | Ukrainian  | 9465 Tu/Sa        |
| 1845-1900 | German     | 9465 Fr           |

(BBCM)

**Christian Science Sentinel - Radio Edition**, programs via IBB, Saipan

|           |              |       |
|-----------|--------------|-------|
| 1000-1100 | Multilingual | 11840 |
| 1200-1300 | Multilingual | 11550 |
| 1300-1400 | Multilingual | 9940  |

(BBCM)

**PAKISTAN Radio Pakistan**, Web Site: <http://www.radio.gov.pk>

|           |            |                   |
|-----------|------------|-------------------|
| 0045-0115 | Assamese   | 11645 15625 17655 |
| 0100-0215 | Urdu       | 15485 17895       |
| 0115-0200 | Bengali    | 9780 11645 15450  |
| 0200-0245 | Hindi      | 9780 11645 15450  |
| 0245-0315 | Tamil      | 9780 11645 15450  |
| 0330-0400 | Gujarati   | 15485 17835       |
| 0500-0700 | Urdu       | 15175 17835 21460 |
| 0800-1100 | Urdu       | 17835 21460       |
| 1000-1030 | Indonesian | 15485 17660       |
| 1000-1030 | Tamil      | 11645 15625 17665 |
| 1030-1115 | Hindi      | 11645 15625 17655 |
| 1100-1105 | English    | 17835 21460       |
| 1115-1145 | Bengali    | 11645 15625 17655 |
| 1145-1215 | Sinhala    | 11645 15625 17655 |
| 1200-1230 | Mandarin   | 11895 15465       |
| 1215-1245 | Nepali     | 11645 15625       |
| 1300-1345 | Persian    | 15625 17720       |
| 1330-1530 | Urdu       | 11570 15100 17510 |

|           |         |                   |
|-----------|---------|-------------------|
| 1430-1500 | Turki   | 9390              |
| 1515-1545 | Russian | 7375 9390         |
| 1600-1615 | English | 11570 15100 15725 |
| 1700-1730 | Turkish | 11645 15725       |
| 1700-1900 | Urdu    | 11570 15335       |
| 1800-1845 | Arabic  | 11640 15725       |
| 1800-1900 | Urdu    | 15390             |
| 1930-2000 | French  | 11570 15335       |

(BBCM +Green-UK/EDXP/Padula-AUS)

**PAPUA NEW GUINEA** 2410 **Radio Enga** has reactivated, heard at 1040 Pidgin talk by man, hosting music program. 1100 National news// 4890. Retune at 1106 to local news read in English by the same man. 1108 ID, "that ends Radio Enga's provincial news." (Johnson Jun 27/Cumbre DX/Fleming-MD)

**Radio Central**, long inactive, has been reactivated, heard on 3290 July 26 at \*1900 in English, with ID, then //4890 (Hambly-AUS/DXLD/Hauser-OK)

**PERU Radio San Antonio** on 3375 kHz is undoubtedly the same station which was on 5235.5 some years ago from San Antonio de Padua, Arequipa. It was unlicensed, operated by the Catholic church. But now it is licensed as OAW6B and is authorized by the Ministry of Transport and Communications on a frequency of 3375. Transmitter site is in the parish of San Antonio de Padua de Callalli, Arequipa. Name of the business is registered as "Centro de Medios de Comunicacion Social San Antonio." According to official info, the station is also authorized on another frequency, 3390 as OAW6A. Too bad this station is not heard here in Tokyo (TIN-JPN/DXLD/translation by Hauser-OK)

**PHILIPPINES FEBC Radio International**, Web Site: <http://www.febc.org/>

|           |             |                   |
|-----------|-------------|-------------------|
| 0000-0100 | Burmese     | 15465             |
| 0000-0130 | English     | 15175             |
| 0100-0115 | Karen-pwo   | 15465 Th-Sa       |
| 0100-0115 | Palaung     | 15465 Su-We       |
| 0115-0130 | Atsi        | 15465 Th-Sa       |
| 0115-0130 | Maru        | 15465 Mo-We       |
| 0130-0145 | Meithei     | 15465 Mo-Fr       |
| 0130-0145 | Kuki        | 15465 Sa/Su       |
| 0145-0200 | Naga-ao     | 15465 Sa/Su       |
| 0200-0215 | Chin-paite  | 15465 Sa          |
| 0500-0900 | Mandarin    | 15450             |
| 0830-0900 | Sundanese   | 12005 Mo/We/Fr    |
| 0830-0900 | Javanese    | 12005 Su/Tu/Th/Sa |
| 0845-0915 | Komerang    | 15095 Mo/We/Fr    |
| 0845-0915 | Ogan        | 15095 Su/Tu/Th/Sa |
| 0900-1600 | Mandarin    | 9405              |
| 0900-1000 | Indonesian  | 12005             |
| 0915-0945 | Minangkabau | 15095             |
| 0945-1015 | Malay       | 15095             |
| 1000-1030 | Sasak       | 12005             |
| 1000-1030 | Amoy        | 9420              |
| 1015-1045 | Batak       | 15095             |
| 1030-1100 | Swatow      | 9420              |

|           |              |             |  |         |                  |
|-----------|--------------|-------------|--|---------|------------------|
| 1045-1100 | Khmu         | 12095       | 1400-1425  | Tamil   | NF 9520 (x 9595) |
| 1045-1115 | Sundanese    | 15095       | 1400-1425  | Bengali | NF 9535 (x9530)  |
| 1100-1230 | Cantonese    | 9420        | 1430-1455  | Telugu  | NF 9535 (x9595)  |
| 1100-1130 | Hmong        | 12095       | (Radio Bulgaria Observer/Ivanov and Datzinov/Jul 2/+Dasgupta-IND/Bueschel-GER) |         |                  |
| 1115-1130 | Nung         | 9795 Mo     |  |         |                  |
| 1115-1130 | Katu         | 9795 Tu     |  |         |                  |
| 1115-1130 | Eastern Cham | 9795 We     |  |         |                  |
| 1115-1130 | Muong        | 9795 Th     |  |         |                  |
| 1115-1145 | Bahnar       | 9795 Fr     |  |         |                  |
| 1115-1130 | Stieng       | 9795 Sa/Su  |  |         |                  |
| 1115-1145 | Mon          | 15095       |  |         |                  |
| 1130-1200 | Chrau        | 9795 Su     |  |         |                  |
| 1130-1145 | Bru          | 9795 Tu     |  |         |                  |
| 1130-1145 | Chru         | 9795 We     |  |         |                  |
| 1130-1145 | Jeh          | 9795 Th     |  |         |                  |
| 1130-1145 | Black Tai    | 9795 Mo/Sa  |  |         |                  |
| 1130-1200 | Lao          | 12095       |  |         |                  |
| 1145-1200 | Karen-pao    | 15095       |  |         |                  |
| 1145-1200 | Tho          | 9795 Tu     |  |         |                  |
| 1145-1200 | Roglai       | 9795 We     |  |         |                  |
| 1145-1200 | Rengao       | 9795 Th     |  |         |                  |
| 1145-1200 | Sedang       | 9795 Fr     |  |         |                  |
| 1145-1200 | White Tai    | 9795 Mo/Sa  |  |         |                  |
| 1200-1300 | Cambodian    | 12095       |  |         |                  |
| 1200-1215 | Rawang       | 15095       |  |         |                  |
| 1200-1300 | Vietnamese   | 9795        |  |         |                  |
| 1215-1230 | Lisu         | 15095       |  |         |                  |
| 1230-1330 | Burmese      | 15095       |  |         |                  |
| 1230-1300 | Zhuang       | 1458        |  |         |                  |
| 1230-1600 | Mandarin     | 9420        |  |         |                  |
| 1300-1330 | Koho         | 9795 Su/Th  |  |         |                  |
| 1300-1315 | Naga-makware | 15095       |  |         |                  |
| 1300-1315 | Hmong        | 15095       |  |         |                  |
| 1300-1330 | Hre          | 9795 Tu     |  |         |                  |
| 1300-1315 | Koho         | 9795 Mo     |  |         |                  |
| 1300-1330 | Jarai        | 9795 Fr     |  |         |                  |
| 1300-1330 | Rade         | 9795 We/Sa  |  |         |                  |
| 1300-1500 | English      | 11995       |  |         |                  |
| 1315-1330 | Muong        | 9795 Mo     |  |         |                  |
| 1315-1330 | Chin-daai    | 15095       |  |         |                  |
| 1330-1400 | Khmu         | 12090       |  |         |                  |
| 1330-1345 | Chin-asho    | 9795 Su-We  |  |         |                  |
| 1330-1345 | Chin-khumi   | 9795 Th-Sa  |  |         |                  |
| 1345-1400 | Karen-sgaw   | 15095 Su-We |  |         |                  |
| 1345-1400 | Mien         | 9795        |  |         |                  |
| 1345-1400 | Chin-tidim   | 15095 Th-Sa |  |         |                  |
| 2200-2359 | Mandarin     | 9405        |  |         |                  |
| 2230-2315 | Cambodian    | 9485        |  |         |                  |
| 2230-2330 | Indonesian   | 12065       |  |         |                  |
| 2230-2300 | Lao          | 9795        |  |         |                  |
| 2300-2315 | Akha         | 11680 Sa/Su |  |         |                  |
| 2300-2330 | Hmong        | 9795        |  |         |                  |
| 2315-2330 | Lahu         | 11680       |  |         |                  |
| 2315-0015 | Vietnamese   | 9485        |  |         |                  |
| 2330-2359 | Burmese      | 15465       |  |         |                  |
| 2330-2345 | Wa           | 11680       |  |         |                  |
| 2345-0045 | Shan         | 15520       |  |         |                  |

(BBCM)

Some changes to *Radio Veritas Asia* sked:

|           |       |                   |
|-----------|-------|-------------------|
| 0030-0055 | Tamil | NF 11795 (x11805) |
| 0130-0155 | Hindi | NF 17830 (x15335) |

The *Philippine Broadcasting Service*, Quezon City, uses 9580 from \*0000-0600\*. This outlet has the nominal call sign DUR2, with 50 kW. It carries the MF programming from 918 kHz (DZRB) and announces as "PBS Manila." Programming a mixture of Tagalog and English, and noted with excellent signals on Jun 8 in Malaysia (Padula EDXP/Cumbre DX/Moore-IA)

#### ROMANIA *Radio Romania International*

|           |            |  |
|-----------|------------|--|
| 0000-0100 | Spanish    | 11790 15105 15340 17815                |
| 0000-0200 | Romanian   | 11940 15255                            |
| 0100-0200 | Portuguese | 15340 17815                            |
| 0200-0300 | English    | 9570 11885 11940 15105 15380 17790     |
| 0300-0400 | Spanish    | 9510 11940                             |
| 0330-0400 | Chinese    | 15340 17790                            |
| 0400-0500 | English    | 11940 15105 15335 17745                |
| 0500-0530 | Bulgarian  | 5965                                   |
| 0500-0600 | French     | 11910 15105                            |
| 0500-0600 | Romanian   | 15250 17745 21480                      |
| 0530-0600 | Ukrainian  | 7195                                   |
| 0600-0630 | Hungarian  | 7225                                   |
| 0600-0700 | English    | 11940 15335                            |
| 0602-0615 | Romanian   | 9570 9665 11885 15270                  |
| 0615-0630 | French     | 9570 9665 11885 15270                  |
| 0628-0641 | German     | 9570 9665 11885 15270                  |
| 0641-0700 | English    | 9570 9665 11885 15270                  |
| 0700-0800 | Arabic     | 15310 15380 17720 17815                |
| 0700-0800 | English    | 15250 17735                            |
| 0800-0900 | Romanian   | 15180 15370 17790 17805 17865 21530 Su |
| 0900-1000 | Romanian   | 15180 15270 17745 17790 17840 21490 Su |
| 1000-1100 | Romanian   | 15250 15380 17745 17790 17805 21480 Su |
| 1100-1200 | French     | 15250 15380 17720 17815                |
| 1100-1300 | Romanian   | 11810 15390 17770                      |
| 1200-1300 | German     | 11940 15180 17720                      |
| 1300-1400 | Russian    | 15270 15405 17745                      |
| 1300-1400 | English    | 15250 15390 17770 17790                |
| 1400-1430 | Italian    | 15180                                  |
| 1400-1500 | Arabic     | 15270 15370 15380 17745 17815          |
| 1430-1500 | Chinese    | 15340 17790                            |
| 1500-1530 | Italian    | 15180                                  |
| 1500-1600 | Russian    | 11970 15365                            |
| 1500-1600 | French     | 15250 15340 17805 17815                |
| 1530-1600 | Turkish    | 15270                                  |
| 1600-1630 | Ukrainian  | 11970                                  |
| 1600-1700 | Romanian   | 15270 17790                            |
| 1600-1700 | German     | 11940 15250 17805                      |
| 1630-1700 | Bulgarian  | 11725                                  |
| 1700-1730 | Serbian    | 11725                                  |
| 1700-1800 | English    | 15250 15390 17735 17805                |
| 1700-1900 | Romanian   | 11940 15405                            |

|           |            |                         |
|-----------|------------|-------------------------|
| 1730-1800 | Greek      | 11775                   |
| 1800-1830 | Aromanian  | 9510                    |
| 1800-1900 | Spanish    | 11840 15250 17745       |
| 1830-1900 | Turkish    | 9625                    |
| 1900-1930 | Serbian    | 11775                   |
| 1900-2000 | German     | 5955 7195 9690 11940    |
| 1900-2000 | Russian    | 6125 7205               |
| 1930-2000 | Greek      | 6015                    |
| 2000-2030 | Italian    | 11765                   |
| 2000-2100 | French     | 9690 11940 15405        |
| 2030-2100 | Hungarian  | 5955 7105               |
| 2100-2200 | English    | 11740 11940 15105 15180 |
| 2100-2200 | Romanian   | 11830 15405             |
| 2200-2300 | Portuguese | 11790 15255 15380 17745 |
| 2200-2300 | Spanish    | 15340 15365 17815       |
| 2300-2400 | English    | 9690 11775 11830 15105  |
| 2300-2400 | Romanian   | 15365 17815             |

Relay **HS 1 (R Romania Aktualitati)** via Galbeni transmitters:

|           |             |
|-----------|-------------|
| 0000-0600 | 7225 9625   |
| 0600-1900 | 11830 15105 |
| 1900-2200 | 9530 11830  |
| 2200-2400 | 7105 9625   |

(Radio Bulgaria Observer/Ivanov and Datzinov/Jul 2/+Dasgupta-IND/Bueschel-GER)

**RUSSIA** Russian Shortwave transmitter usage through October 28:

**CRR-1** Moscow

|       |           |      |
|-------|-----------|------|
| 5905  | 1530-2100 | RR   |
| 5910  | 0100-0400 | RR   |
| 5935  | 0100-0500 | RR#  |
| 5940  | 1430-2100 | RR   |
| 7345  | 1400-2000 | CS   |
| 7380  | 2300-0200 | VOR* |
| 7400  | 2300-0200 | VOR* |
| 7440  | 0430-1500 | RR   |
| 7440  | 2000-2100 | VOR  |
| 9450  | 2300-0200 | VOR  |
| 9450  | 1500-2100 | VOR% |
| 9470  | 2300-0200 | VOR  |
| 9470  | 1500-1900 | VOR# |
| 9720  | 0530-1400 | RR   |
| 9720  | 1700-2100 | VOR# |
| 9775  | 1700-2100 | VOR  |
| 9810  | 1600-2000 | VOR# |
| 9845  | 1830-2100 | RR   |
| 9880  | 2200-2300 | CRI# |
| 11735 | 1730-2100 | RR   |
| 11745 | 1500-2000 | VOR# |
| 11920 | 1700-1800 | VOR  |
| 11980 | 0100-0400 | RR   |
| 11985 | 0500-1330 | CS   |
| 11985 | 1400-1900 | VOR  |
| 12020 | 0100-0500 | RR   |
| 12030 | 1500-1900 | VOR# |
| 12030 | 1900-2030 | VOV# |
| 12035 | 1830-1930 | CRI  |
| 12045 | 1700-1800 | BBC  |
| 12060 | 1600-1900 | VOR  |

|       |           |       |
|-------|-----------|-------|
| 12060 | 1900-2100 | VOM   |
| 12065 | 2000-2130 | IBRA# |
| 12070 | 0000-0300 | VOR#  |
| 12070 | 1700-1900 | VOV   |
| 12070 | 1900-2100 | VOV   |
| 13705 | 0530-1800 | RR    |
| 15455 | 0430-0700 | RR    |
| 15480 | 1200-1600 | DW    |
| 15540 | 1600-1900 | VOR   |
| 15625 | 1600-2130 | IBRA  |
| 17570 | 1200-1600 | VOR   |
| 17660 | 0730-1700 | RR    |

CRR-1, ul. Nikolskaya 7, Moscow 103012, Russia.

**CRR-2** St.Petersburg

|       |           |        |
|-------|-----------|--------|
| 7130  | 1500-1600 | VOR*   |
| 7130  | 1600-1700 | CRI*   |
| 7130  | 1700-1800 | VOR*   |
| 7130  | 1800-1830 | CRI*   |
| 7130  | 1830-1900 | VOR*   |
| 7310  | 1500-2100 | VOR%   |
| 7310  | 1730-2000 | VOR#   |
| 7320  | 1730-2000 | VOR%   |
| 7335  | 0200-0500 | CS     |
| 7335  | 1330-2000 | CS     |
| 7390  | 2300-0200 | VOR\$  |
| 7400  | 1700-1900 | VOR%   |
| 7440  | 1700-1900 | VOR#   |
| 9450  | 1500-2100 | VOR#   |
| 9480  | 0000-0300 | VOR\$  |
| 9710  | 1600-1900 | VOR%   |
| 9720  | 1700-2100 | VOR%   |
| 9890  | 1700-2100 | VOR#   |
| 9940  | 1730-2000 | CS     |
| 12000 | 1600-1900 | VOR#   |
| 12005 | 1500-1600 | VOR    |
| 12015 | 1430-1700 | VOR*** |
| 12045 | 0200-1700 | CS     |
| 12060 | 1500-1530 | VOR    |
| 15595 | 1730-1800 | VOR**  |
| 15595 | 1800-1830 | CRI**  |
| 15595 | 1830-1900 | VOR**  |
| 15620 | 0530-1400 | CS     |
| 17580 | 1500-1600 | VOR**  |
| 17580 | 1600-1700 | CRI**  |

# -Sep 2, % Sep 3-, \* Sep 24-, \*\* -Sep 23, \*\*\* Alt. 11985

CRR-2, ul. Akademika Pavlova 13A, St.Petersburg 197376, Russia

**CRR-2** Kaliningrad

|       |           |      |
|-------|-----------|------|
| 5835  | 2025-2125 | RNW  |
| 7300  | 1500-1900 | VOR  |
| 7330  | 1500-1900 | VOR# |
| 7390  | 1500-1900 | VOR% |
| 9895  | 0200-0400 | RR   |
| 11745 | 0900-1000 | VOR  |
| 12025 | 1730-2000 | RR   |
| 15305 | 0430-1700 | RR   |

# -Sep 2, % Sep 3-, \* Sep 24-, \*\* -Sep 23.

Addr see above.

**CRR-3 Samara**

|       |           |       |
|-------|-----------|-------|
| 5925  | 0000-0100 | DW    |
| 5935  | 1430-1700 | VOR%  |
| 5935  | 1700-1800 | DW%   |
| 5935  | 1800-1900 | VOR%  |
| 5935  | 2000-2130 | IBR%  |
| 5945  | 1400-1800 | DW%   |
| 6205  | 1610-1640 | VAT   |
| 7315  | 1400-1800 | VOR*  |
| 7355  | 1730-2100 | RR    |
| 7360  | 1330-1700 | RR    |
| 7365  | 0100-0500 | RR    |
| 7380  | 1600-1700 | VOR%  |
| 7380  | 1700-2200 | MAR%  |
| 7380  | 1930-2200 | MAR#  |
| 9490  | 1600-1900 | VOR%  |
| 9690  | 0600-0700 | RT    |
| 9730  | 1500-1700 | VOR   |
| 9795  | 1700-1800 | VOR%  |
| 9795  | 1900-2100 | VOR%  |
| 9800  | 1400-1800 | DW#   |
| 9820  | 1700-2100 | VOR   |
| 9835  | 1430-1700 | VOR#  |
| 9835  | 1700-1800 | DW#   |
| 9835  | 1800-1900 | VOR#  |
| 9835  | 2000-2130 | IBRA# |
| 9865  | 1600-2000 | VOR   |
| 9890  | 1730-2000 | VOR%  |
| 9890  | 2300-0200 | VOR%  |
| 11665 | 0400-0500 | RT    |
| 11925 | 0800-0900 | RT    |
| 11980 | 1700-1800 | VOR#  |
| 11980 | 1900-2100 | VOR#  |
| 12000 | 1500-1900 | VOR%  |
| 12005 | 0930-1300 | RR    |
| 12010 | 0500-0800 | MAR   |
| 12010 | 1500-1930 | MAR#  |
| 12010 | 1500-1700 | MAR%  |
| 12010 | 2030-2130 | CRI   |
| 12010 | 2300-0200 | VOR#  |
| 12055 | 1400-1800 | VOR** |
| 12065 | 0530-0900 | RR    |
| 12070 | 1400-1700 | VOR%  |
| 13690 | 0200-0300 | VOR   |
| 15125 | 1600-1900 | VOR#  |
| 15290 | 1500-1900 | VOR#  |
| 15510 | 1200-1400 | VOR#  |
| 15515 | 1400-1700 | VOR#  |
| 15550 | 1300-1500 | VOR   |
| 17590 | 0700-1100 | WUN   |
| 17610 | 1200-1400 | VOR#  |
| 17670 | 0900-1000 | VOR   |
| 17675 | 0900-0930 | DW    |
| 17675 | 1300-1400 | VOR   |
| 17685 | 1300-1400 | VOR   |
| 17795 | 1130-1500 | WUN   |

# -Sep 2, % Sep 3-, \* Sep 24-, \*\* -Sep 23

CRR-3, ul. Gagarina 3A, Samara 443079, Russia.

**TCR-4 Krasnodar [Tbilisskaya Armavir]**

|       |           |                  |
|-------|-----------|------------------|
| 5965  | 1530-2100 | RR%              |
| 7250  | 0100-0300 | VOV              |
| 7260  | 0000-0200 | VOR%             |
| 7260  | 0300-0400 | VOV%             |
| 7305  | 1430-1900 | VOR#             |
| 7325  | 1400-1700 | VOR              |
| 7325  | 1700-1800 | Mon, Fri RA      |
| 7325  | 1730-1800 | Wed, Thu, Sun RK |
| 7350  | 1700-2100 | VOR%             |
| 7395  | 1900-2130 | DW               |
| 7430  | 1430-1900 | VOR%             |
| 9490  | 1530-2100 | RR#              |
| 9830  | 0000-0200 | VOR              |
| 9830  | 0300-0400 | VOV#             |
| 11655 | 0830-1500 | RR               |
| 11675 | 1700-2100 | VOR#             |
| 11705 | 1700-1800 | DW               |
| 12020 | 1600-2000 | VOR%             |
| 12025 | 0100-0800 | RR               |
| 12030 | 0000-0200 | VOR#             |
| 12030 | 1500-2100 | VOR%             |
| 12035 | 1600-1800 | VOR              |
| 12060 | 2300-0200 | VOR              |
| 15455 | 0900-1000 | VOR              |
| 15460 | 1200-1600 | VOR              |
| 15485 | 1500-2100 | VOR#             |
| 15525 | 0800-0830 | DW               |
| 15535 | 1600-2000 | VOR#             |
| 17610 | 1300-1400 | VOR#             |
| 17665 | 1300-1400 | VOR%             |

# -Sep 2, % Sep 3

TCR-12, Oktyabrskiy, Krasnodarskiy Kray  
352341, Russia.

**CRR-10 Irkutsk**

|       |           |      |
|-------|-----------|------|
| 6205  | 1610-1640 | VAT  |
| 7150  | 2200-2300 | VOA  |
| 7305  | 2200-2245 | VAT  |
| 9400  | 1130-1600 | TWR  |
| 9655  | 1030-1500 | RR   |
| 9790  | 1000-1400 | VOR# |
| 9805  | 1900-2200 | RR   |
| 9875  | 0900-0945 | DW%  |
| 9875  | 1000-1100 | VOR% |
| 9900  | 1000-1400 | VOR% |
| 9940  | 1300-1400 | HBN  |
| 12000 | 1200-1400 | VOR% |
| 12025 | 0930-1030 | RFI  |
| 12025 | 1100-1300 | RFI  |
| 12025 | 2300-0100 | RFI% |
| 12075 | 2200-2300 | RCI  |
| 13710 | 0925-1125 | RNW  |
| 13720 | 1000-1400 | DW   |
| 15470 | 0900-0945 | DW#  |
| 15470 | 1000-1100 | DW#  |
| 15475 | 2230-1000 | RR   |
| 15490 | 0600-0700 | VOR  |
| 15535 | 2300-0100 | RFI# |
| 15580 | 0030-0200 | TWR  |

15580 1200-1400 VOR#  
 15605 2300-2350 DW  
 17570 2300-2350 DW  
 21790 0500-0900 VOR

# -Sep 2, % Sep 3

CRR-10, ul. Sverdlova 37, Irkutsk 664011, Russia.

**CRR-11 Novosibirsk**

7305 1330-1700 VOR%  
 9490 1130-1200 VOR%  
 9490 1230-1400 VOR%  
 9875 1330-1700 VOR#  
 11720 1330-1700 VOR  
 11795 2200-0000 DW  
 11990 1300-1500 VOA  
 12045 0100-0200 VOR  
 12045 2200-2300 RFI  
 12055 1130-1200 VOR#  
 12055 1230-1400 VOR#  
 12055 2300-2345 DW  
 12075 1200-1300 RFI  
 13640 1300-1350 DW%  
 13690 2200-2400 DW  
 15470 1000-1200 VOR%  
 15470 1230-1330 VOR#  
 15490 1000-1200 VOR  
 15525 1000-1200 VOR#  
 15525 1230-1330 VOR%  
 15605 1300-1350 DWL#  
 15610 1030-1055 DW  
 17665 1000-1200 VOR  
 17845 1000-1400 DW

# -Sep 2, % Sep 3

CRR-11, ul. Rimskogo-Korsakova 9, Novosibirsk 630048, Russia.

**University Network** (Dr. Gene Scott) isn't relayed via Novosibirsk.

11570 0000-0100 **IBC** registered as NVS, but I think at transmitter somewhere in CeAS or ARM is used, not Novosibirsk. IBC is heard here with good signal on 11570.

**TCR-12 Chita**

11640 2300-2325 RCI  
 11695 1400-1900 VOR#  
 11870 1300-1530 BBC  
 12055 1200-1300 VOR%  
 12055 2200-2300 BBC  
 17655 0600-0800 VOR  
 17655 1200-1300 VOR#

# -Sep 2, % Sep 3

TCR-12—Regional Center of Broadcasting & Radiocommunications No. 12 ul. Svyazi 40, Atamanovka, Chitinskaya obl. 674030, Russia.

**Ekaterinburg Radio Centre**

7220 2100-1700 RR  
 7370 1600-2000 VOR  
 9785 1600-1800 VOR  
 11630 1700-2000 VOR  
 11930 1700-2000 VOR  
 12040 1500-2000 VOR  
 15350 1600-2000 VOR  
 17725 1500-2000 VOR

Ekaterinburg Radio Centre, pr. Kosmonavtov 99 Yekaterinburg 620058, Russia.

**CRR-8** combined of Khabarovsk, Komsomolsk-na-Amure, Vladivostok. No full data for CRR-8 available, combined schedule and some mixture data of HFCC list provided for separate schedules of the three transmitter sites, ed.

**Khabarovsk Radio Centre**

6145 1130-1600 VOR  
 7175 0530-0800 RR  
 7175 1000-1200 VOR  
 7210 1900-1500 RR/Relg  
 7245 1000-1500 VOR  
 7490 1000-1100 RR  
 7490 1200-1300 RR  
 9470 1000-1400 VOR%  
 9480 1000-1400 VOR  
 11730 1000-1500 VOR  
 11960 0800-1500 VOR  
 11990 0100-0500 VOR  
 12000 1000-1400 VOR#  
 12035 0700-1000 VOR  
 12045 1900-2000 VOR  
 12050 0100-0500 VOR  
 12070 0700-0800 VOR  
 13695 1325-1425 RNW  
 13755 1315-1430 VOR  
 13790 0100-0300 VOR  
 13795 1000-1430 VOR  
 13810 1000-1400 VOR  
 13820 1025-1125 RNW  
 13820 1330-1430 VOR  
 15550 0200-0500 VOR  
 17590 2325-0025 RNW  
 17665 0500-0900 VOR  
 17850 0700-0900 VOR  
 17890 1000-1100 VOR

# -Sep 2, % Sep 3-

CRR-8, ul. Pavlovicha 7A, Khabarovsk 680670, Russia.

**Komsomolsk-na-Amure**

7150 1000-1200 VOR  
 7305 1000-1400 VOR  
 9945 1200-1400 VOR  
 12055 0700-0800 VOR  
 15180 0100-0500 VOR  
 15425 0100-0500 VOR%  
 15595 0100-0500 VOR

17565 0100-0500 VOR  
 17570 0500-0600Su VOM  
 17625 0530-0900 VOR

# -Sep 2, % Sep 3-

Vladivostok Radio Centre

5940 1000-1200 VOR  
 5940 1430-1455 DVB  
 5945 1245-1345 DVB  
 6080 1000-1500 VOR  
 7150 1200-1400 VOR  
 7170 1200-1500 VoR  
 7185 1000-1130 VOR  
 7205 1300-1500 VOR  
 7255 2100-2300 VOR  
 7305 1000-1400 VOR  
 7315 1200-1400 VOR#  
 7330 1000-1200 VOR  
 7375 1200-1400 VOR%  
 7390 1200-1300 VOR  
 9510 1100-1400 VOR  
 9565 1100-1400 VOR  
 9705 1100-1400 VOR  
 9800 1130-1400 VOR  
 9830 2200-2300 VOR  
 11640 1200-1400 VOR  
 11755 2200-2400 VOR  
 11775 1800-1900 VOR  
 11860 1200-1500 VOR  
 11940 1330-1600 VOR  
 11975 0000-0100 DW  
 11990 1000-1100 BBC  
 12000 0000-0100 RR  
 12005 2200-2300 RFI  
 15435 1000-1200 VOR  
 15470 0800-0900 VOR  
 15480 1230-1400 VOR  
 15560 1200-1400 VOR  
 15595 2300-2400 RFI  
 17660 0100-0500 VOR  
 21690 1000-1200 VOR

# -Sep 2, % Sep 3-

CRR-8 Vladivostok Radio Centre, ul. Radio 9,  
 Vladivostok 690032, Russia.

Petropavlovsk-Kamchatskiy Radio Centre

5895 1200-1300 CHR%  
 7315 1000-1400 DW%  
 7340 1200-1300 VOR  
 7340 1315-1345 VAT  
 7340 1900-2000 KR Tu/Th/Sa  
 9450 1030-1055 DW  
 9450 1200-1300 CHR#  
 9865 1130-1230 RVI  
 9890\*\* 1325-1425 RNW  
 9900 1000-1400 DW#  
 9920 1300-1350 DW  
 12045 0000-0100 DW  
 12045 1900-2000 KR Tu/Th/Sa  
 12055 1000-1100 VOR

12065 0925-1125 RNW  
 12065 2130-2200 VOA  
 13640 1000-1100 VOR  
 13790 0100-0300 VOR%  
 15455 0100-0500 VOR%  
 15465 0200-0500 VOR%  
 15520 0100-0300 VOR  
 17595 0100-0300 VOR  
 17595 0400-0500 VOV  
 17650 0200-0500 VOR#  
 17690 0100-0500 VOR#  
 21755 0100-0300 VOR#  
 21790 2300-2345 DW

# -Sep 2, % Sep 3- \* Alt. 5895, \*\* Alt. 5930

Petropavlovsk-Kamchatskiy Radio Centre, ul.  
 Svyazi 1B, Yelizovo 684006, Russia.

**University Network** (Dr. Gene Scott) is only via  
 Samara (0700-1500 summer, 0800-1600 winter),  
 0700-1100 17590, 1130-1500 17795.

HFCC registrations of RUS have some mis-infor-  
 mation, e.g. 1500-1600 11500 registered IRK 100/  
 180, actually Xian-CHN, or, 1430-1900 9975 regis-  
 tered OM 150/235, actually Dushanbe-Orzu-TJK.

BBC=BBC London  
 CHR=China Radio [relig broadcaster]  
 CRI=China Radio International  
 CS=Chechnya Svobodnaya  
 DVB=Democratic Voice of Burma  
 DW=Deutsche Welle  
 HBN=Herald Broadcasting Network/Syndicate  
 IBC=International Broadcasting Corporation  
 IBRA=IBRA Radio  
 KR=Kamchatka Rybatskaya  
 MAR=Radio Maryja  
 RA=Radio Adygeya  
 RCI=Radio Canada International  
 REG=Regional  
 RFI=Radio France Internationale  
 RK=Radio Kabardino-Balkariya  
 RNW=Radio Nederland Wereldomroep  
 RR=Radio Rossii  
 RT= Radio Tatarstan  
 RVI=Radio Vlaanderen Internationaal  
 TO=Tikhiv Okean  
 VAT=Radio Vaticana  
 VOA=Voice of America  
 VOM=Voice of the Mediterranean  
 VOR=Voice of Russia  
 VOV=Voice of Vietnam  
 WUN=World University Network  
 (Rudnev-RUS Jun 30/RUS-DX/Klepov-RUS, Jul 9/BC-  
 DX/Bueschel-GER)

**RWANDA Radio Rwanda** broadcasts in Kinyarwan-  
 da, Swahili, French and English.

0255-0600 Multilingual 6055  
 0600-0900 Multilingual 6055 Su  
 0900-2100 Multilingual 6055

10 minutes of English news at 0515 and 1915 (BBCM)

Other stations may soon be able to use the *Deutsche Welle* relay station as a result of transmitter exchanges with DW. This is the result of an agreement with the Rwandan govt. The Rwandan Information Office must approve each stn that DW proposes to use the relay (four 250 kw transmitters). (VOA CommWorld, via NU Jul 16/BC-DX/Bueschel-GER)

**SAO TOME & PRINCIPE** The direct address of VOA Sao Tome: VOA Sao Tome Relay Stn, P.O.Box 522, Sao Tome. (Reijo Alapiha via HCDX, via Arctic Radio Club MV-Eko via Olle Alm-SWE, Jul 10/BC-DX/Bueschel-GER)

**SEYCHELLES** *Far East Broadcasting Association (FEBA Radio)*

|           |            |             |
|-----------|------------|-------------|
| 0030-0100 | Hindi      | 7285        |
| 0045-0100 | Punjabi    | 9465 Fr     |
| 0045-0100 | Assamese   | 9465 Sa     |
| 0045-0100 | Bengali    | 9465 Su-Th  |
| 0100-0115 | Punjabi    | 7285 Sa     |
| 0100-0200 | Tamil      | 9465        |
| 0100-0115 | Dzonkha    | 7285 Fr     |
| 0100-0115 | Marathi    | 7285 Su-We  |
| 0115-0145 | Telugu     | 7285 Su-Th  |
| 0115-0200 | Telugu     | 7285 Fr/Sa  |
| 0145-0200 | Malayalam  | 7285 Sa     |
| 0145-0200 | Azeri      | 11610 Fr-Su |
| 0200-0215 | Hindko     | 9465 Mo/Tu  |
| 0200-0215 | Siraiki    | 9465 Fr-Su  |
| 0200-0215 | Urdu       | 11640       |
| 0200-0230 | Persian    | 11610       |
| 0215-0230 | Punjabi    | 11640 Sa-We |
| 0215-0230 | Sindhi     | 9465        |
| 0230-0245 | Baluchi    | 9465 Th-Su  |
| 0230-0245 | Pashto     | 11640 15555 |
| 0230-0245 | Brahui     | 9465 Mo     |
| 0245-0300 | Dari       | 11640 15555 |
| 0300-0315 | Hazaragi   | 15555 Sa/Su |
| 0300-0330 | Dari       | 15555 Fr    |
| 0315-0345 | Swahili    | 11885 Th/Fr |
| 0315-0400 | Swahili    | 11885 Sa-We |
| 0345-0400 | English    | 11885 Fr    |
| 0345-0445 | Arabic     | 15530       |
| 0400-0415 | Portuguese | 9455 Th     |
| 0400-0430 | Portuguese | 9455 Fr-We  |
| 0530-0600 | Sinhala    | 15555 Fr    |
| 0815-0830 | Malayalam  | 15460 Su    |
| 0815-0900 | Hindi      | 15460 Th    |
| 0815-0900 | English    | 15460 Fr    |
| 0815-0830 | Telugu     | 15460 Sa    |
| 0830-0845 | Badaga     | 15460 Su    |
| 0845-0900 | Tamil      | 15460 Su    |
| 0915-0930 | French     | 15430       |
| 1100-1245 | Arabic     | 15535 Fr    |
| 1100-1300 | Arabic     | 15535 Sa-Th |
| 1145-1200 | Tsangla    | 15445 Sa/Su |
| 1200-1230 | Tibetan    | 15445       |

|           |              |                |
|-----------|--------------|----------------|
| 1230-1245 | Nagpuria     | 15445 Th       |
| 1230-1245 | Mundari      | 15445 Su-Tu    |
| 1230-1245 | Bhojpuri     | 15445 We/Fr/Sa |
| 1245-1300 | English      | 15535 Fr       |
| 1245-1300 | Marathi      | 15445 Su       |
| 1245-1300 | Punjabi      | 15445 Tu-Th    |
| 1245-1300 | Marwari      | 15445 Fr       |
| 1245-1300 | Bhili        | 15445 Sa       |
| 1300-1315 | Oriya        | 15445 Mo/We/Th |
| 1315-1345 | Gujarati     | 15445 Fr       |
| 1315-1330 | Gujarati     | 15445 Sa-Th    |
| 1330-1345 | Magahi       | 15445 Sa       |
| 1330-1345 | Nepali       | 15445 Su/Mo    |
| 1330-1345 | Chattisgarhi | 15445 Tu-Th    |
| 1330-1400 | Sinhala      | 9810           |
| 1330-1345 | Badaga       | 11885 Su/Mo    |
| 1330-1400 | Tamil        | 11885 Tu-Sa    |
| 1345-1400 | Tamil        | 11885 Su/Mo    |
| 1345-1415 | Malayalam    | 11600          |
| 1400-1415 | Urdu         | 11600 Su-Th    |
| 1400-1500 | Hindi        | 11600 Fr/Sa    |
| 1400-1445 | Urdu         | 9810           |
| 1415-1500 | Hindi        | 11600 Su-Th    |
| 1415-1445 | Bengali      | 15445          |
| 1445-1500 | Malayalam    | 15445 We       |
| 1445-1500 | Urdu         | 9810 Su        |
| 1445-1500 | Hindko       | 9810 We-Sa     |
| 1445-1515 | Kannada      | 15445 Su       |
| 1445-1500 | Tulu         | 15445 Sa       |
| 1445-1500 | Konkani      | 15445 Fr       |
| 1500-1600 | English      | 11600          |
| 1500-1515 | Kannada      | 15445 Mo-Sa    |
| 1515-1530 | Nuer         | 11885          |
| 1530-1545 | Uzbek        | 9485 Sa/Su     |
| 1530-1545 | Dinka        | 11885          |
| 1545-1615 | Makonde      | 11885 Sa       |
| 1545-1600 | Hazaragi     | 9485           |
| 1600-1630 | Amharic      | 11640 Fr-Su    |
| 1600-1615 | Makonde      | 11885 Su-Fr    |
| 1600-1630 | Dari         | 9485 Fr-Su     |
| 1600-1615 | Tigrignya    | 11640 Mo-We    |
| 1615-1630 | Guragena     | 11640 Mo-We    |
| 1615-1700 | Swahili      | 11885          |
| 1630-1645 | Dari         | 9485 Mo-Th     |
| 1630-1700 | English      | 11605 Su       |
| 1630-1700 | Dhivehi      | 11605 Fr       |
| 1630-1700 | Amharic      | 11640          |
| 1700-1730 | Oromo        | 11640 Su       |
| 1700-1730 | Somali       | 9485 11885     |
| 1730-1745 | Somali       | 11885          |
| 1800-1900 | Malayalam    | 11600 Fr       |
| 1830-1845 | French       | 9485 Tu/We     |
| 1830-1900 | French       | 9485 Th-Mo     |

**SOMALIA** 7529.95 *Hargeisa* tentatively the station here 1733 with Saharan-type language, talks, vocals through till closedown 1900. First time I've extracted audio on this one with signal poor at best. USB mode. Another Somali station, *Radio Gal-cayco*, was tentatively heard on 7012 at 1656 but

very weak.(Clark, Norrie Jun 24/Cumbre DX/Fleming-MD)

**SOUTH AFRICA** Consolidated sked of all transmissions via Meyerton:

|           |       |                                 |
|-----------|-------|---------------------------------|
| 0300-0325 | CHAF  | 6095 Swahili                    |
| 0300-0330 | BBC   | 6050 Swahili                    |
| 0300-0330 | AWR   | 6015 English                    |
| 0300-0355 | CHAF  | 6035 English French             |
| 0300-0400 | RFI   | 5925 French                     |
| 0300-0400 | BBC   | 7120 English                    |
| 0300-0600 | BBC-W | 6190 English Mo-Fr              |
| 0300-0600 | BBC-W | 3255 English                    |
| 0330-0400 | TWR   | 7215 Oromo We-Fr                |
| 0330-0400 | TWR   | 7215amharic Sa/Su               |
| 0330-0400 | AWR   | 12080 Somali                    |
| 0330-0400 | TWR   | 7215 Tigrinya Mo/Tu             |
| 0400-0430 | BBC   | 9610 Swahili                    |
| 0400-0455 | CHAF  | 5955 English Portuguese         |
| 0400-0500 | AWR   | 12080 Swahili                   |
| 0400-0500 | BBC   | 7120 English                    |
| 0430-0455 | CHAF  | 9525 French                     |
| 0430-0455 | CHAF  | 3345 Portuguese                 |
| 0430-0500 | BBC   | 3390 6135 7205 Portuguese       |
| 0500-0530 | AWR   | 5960 6015 English               |
| 0500-0530 | AWR   | 6015 English                    |
| 0500-0555 | CHAF  | 11720 English Portuguese        |
| 0500-0700 | BBC   | 11765 English                   |
| 0500-0800 | RSG   | 7185 Afrikaans                  |
| 0600-0615 | TWR   | 11640 English                   |
| 0600-0655 | CHAF  | 15215 English Portuguese        |
| 0600-1700 | BBC-W | 6190 11940 English              |
| 0615-0630 | TWR   | 11640 English Sa                |
| 0700-0730 | BBC   | 17695 French                    |
| 0800-0900 | SARL  | 9750 21560 English Su           |
| 0800-1630 | RSG   | 9650Afrikaans                   |
| 1300-1455 | CHAF  | 11720 17780 21725 English Sa/Su |
| 1500-1525 | CHAF  | 17780 Swahili                   |
| 1500-1530 | BBC   | 21490 English                   |
| 1500-1555 | CHAF  | 17770 English French            |
| 1530-1600 | AMG   | 6245 English Mo-Fr              |
| 1530-1615 | BBC   | 21490 Swahili                   |
| 1600-1655 | CHAF  | 17860 Swahili French            |
| 1600-1655 | CHAF  | 9525 English Portuguese         |
| 1600-1700 | TWR   | 9680 Kirundi/Borana/Oromo       |
| 1600-1800 | AMG   | 6245 English                    |
| 1615-1700 | BBC   | 21490 K'Rwanda                  |
| 1630-0500 | RSG   | 3320 Afrikaans                  |
| 1630-1655 | CHAF  | 3345 Portuguese                 |
| 1630-1700 | AWR   | 15620 Somali                    |
| 1630-1700 | TWR   | 11705 Tigrinya                  |
| 1640-1655 | TWR   | 9650 Somali                     |
| 1700-1712 | TWR   | 9650 Shuwa/Juba Mo-Sa           |
| 1700-1727 | TWR   | 9650 Arabic Su                  |
| 1700-1733 | TWR   | 7265 Yao/Sena                   |
| 1700-1755 | CHAF  | 17860 English Portuguese        |
| 1700-1800 | AWR   | 12130 Swahili/English           |
| 1700-1900 | BBC   | 15420 English                   |
| 1700-2200 | BBC-W | 3255 6190 English               |

|           |      |                      |
|-----------|------|----------------------|
| 1730-1745 | BBC  | 6070 9520 EXR        |
| 1730-1745 | BBC  | 3390 English         |
| 1730-1830 | TWR  | 9535amharic          |
| 1745-1800 | BBC  | 7230 Swahili         |
| 1800-1830 | AWR  | 5960 6100 English    |
| 1800-1855 | CHAF | 17870 English French |
| 1800-1900 | SARL | 3215 English Mo      |
| 1800-1900 | BBC  | 7230 French          |
| 1800-2200 | AMG  | 3230 5925 English    |
| 1830-1900 | TWR  | 9510 Fulfulde        |
| 1830-1900 | TWR  | 9460 Hausa           |
| 1835-1905 | TWR  | 9700 Bambara         |
| 1900-1930 | TWR  | 9510 Igbo Su         |
| 1900-1930 | TWR  | 9460 Kanuri          |
| 1900-1930 | TWR  | 9510 Yoruba Mo-Sa    |
| 1905-1935 | TWR  | 9700 Baoule          |
| 1930-2000 | TWR  | 9510 Nupe            |
| 1930-2000 | AWR  | 9745 Hausa           |
| 1935-2020 | TWR  | 9700 French          |
| 2000-2030 | AWR  | 9745 French          |
| 2000-2030 | TWR  | 9510 Twi             |
| 2000-2100 | AWR  | 12105amharic/Yoruba  |
| 2030-2045 | TWR  | 9510 Ewe Sa/Su       |
| 2030-2100 | BBC  | 3390 Portuguese      |
| 2030-2100 | AWR  | 9745 English         |
| 2030-2100 | BBC  | 6135 7205 Portuguese |

(DuToit-RSA) [Note: I rounded some times off to nearest TOH, ex: 2059=2100-AQ]

**SPAIN** *Radio Exterior de Espana*, some frequencies are relayed by transmitters in China (ch) and Costa Rica (cr). Web Site: <http://www.rne.es>

|           |         |  |
|-----------|---------|--|
| 0000-0200 | English | 6055   |
| 0000-0100 | Spanish | 6020cr 9540 9620 11680 15160                       |
| 0100-0200 | Spanish | 6020cr 9540 9620 11680 15160                       |
| 0115-0145 | Ladino  | 11795 Tu   |
| 0200-0300 | Spanish | 6020cr 6055 6125cr 9540 9620 9765cr 15160          |
| 0300-0400 | Spanish | 6020cr 6055 6125cr 9540 9620 9765cr 15160          |
| 0400-0500 | Spanish | 6055 6125cr 9540 9620 9765cr                       |
| 0415-0445 | Ladino  | 9690 Tu  |
| 0500-0600 | English | 6055   |
| 0500-0600 | Spanish | 6125cr 9710 9765cr 12035 17665                     |
| 0600-0700 | Spanish | 9710 12035 17665                                   |
| 0700-0800 | Spanish | 12035 17770 21610                                  |
| 0800-0900 | Spanish | 15585 17770 21610 21610                            |
| 0800-0900 | Spanish | 15585 17770 21610 Sa/Su                            |
| 0900-1000 | Spanish | 15585 21540 21610 Mo-Fr                            |
| 0900-1000 | Spanish | 15585 21540 21610 Sa/Su                            |
| 1000-1100 | Spanish | 9660ch 11815cr 15585 21540 21570 21610 21700 Mo-Fr |
| 1000-1100 | Spanish | 9660ch 15585 21540 21570 21610 Sa/Su               |

|           |         |  |           |         |   |
|-----------|---------|--|-----------|---------|---|
| 1100-1200 | Spanish | 9660ch 9765cr 11815cr<br>15170cr 15585 21540 21570<br>21610 21700 Mo-Fr                | 1900-2000 | Spanish | 7275 9665 9765cr 11815cr<br>15110 17755 17850cr 21700 |
| 1100-1200 | Spanish | 9660ch 15585 21540 21570<br>21610 Sa/Su  | 2000-2200 | Arabic  | 7270 17560 Sa/Su                                      |
| 1200-1300 | Spanish | 9765cr 11815cr 11910ch<br>15170-cr 15585 21540 21570<br>21610 21700 Mo-Fr              | 2000-2100 | English | 9595 15285 Mo-Fr                                      |
| 1200-1300 | Spanish | 9765cr 11815cr 11910ch<br>15170-cr 15585 17850cr<br>21540 21570 21610 21700<br>Su      | 2000-2100 | French  | 9595 15285 Su   |
| 1300-1400 | Spanish | 9765cr 11910ch 15170cr<br>15585 17595 21540 21570<br>21610 Mo-Fr                       | 2000-2100 | Spanish | 7275 15110 Mo-Fr                                      |
| 1300-1400 | Spanish | 11910ch 15585 21540<br>21570 21610 21700 Sa  | 2000-2100 | Spanish | 7275 9665 9765cr 11815cr<br>15110 17850cr 21700 Sa    |
| 1300-1400 | Spanish | 9765cr 11815cr 11910ch<br>15170cr 15585 17595<br>17850cr 21540 21570 21610<br>21700 Su | 2000-2100 | Spanish | 7275 9765cr 11815cr 15110<br>17850cr Su               |
| 1400-1500 | Spanish | 15585 17595 21540 21570<br>21610 Mo-Fr   | 2100-2200 | English | 9595 9840 Su  |
| 1400-1500 | Spanish | 15585 21540 21570 21610<br>21700 Sa  | 2100-2200 | Spanish | 7275 15110 Mo-Fr                                      |
| 1400-1500 | Spanish | 9765cr 11815cr 15170cr<br>15585 21540 21570 21610<br>21700 Su                          | 2100-2200 | Spanish | 7275 9765cr 11815cr 15110<br>17850cr                  |
| 1500-1600 | Spanish | 15585 17755 21570 21610<br>21700 Mo-Sa   | 2105-2200 | English | 9595 9840 Sa  |
| 1500-1600 | Spanish | 9765cr 11815cr 15585 17755<br>17850cr 21570 21610 21700<br>Su                          | 2200-2300 | Spanish | 7270 7275 15110 Mo-Fr                                 |
| 1600-1700 | Spanish | 15385 15585 17755 21570<br>21610 21700 Mo-Fr   | 2200-2300 | Spanish | 7270 7275 9765cr 11815cr<br>15110 17850cr             |
| 1600-1700 | Spanish | 9765cr 11815cr 15385 15585<br>17755 17850cr 21570 21610<br>21700 Sa/Su                 | 2300-2359 | French  | 6055  |
| 1700-1730 | Russian | 15195 Mo-Fr  | 2300-2400 | Spanish | 9540 9620 11680 15160<br>(BBCM)                       |
| 1700-1900 | Arabic  | 21610  |           |         |   |
| 1700-1800 | Spanish | 7275 17715 17755 21700   |           |         |   |
| 1700-1800 | Spanish | 7275 9665 9765cr 11815cr<br>17715 17755 21700 Sa                                       |           |         |   |
| 1700-1800 | Spanish | 7275 9665 9765cr 11815cr<br>17715 17755 17850cr 21700                                  |           |         |   |
| 1730-1800 | German  | 9665 Mo/Th   |           |         |   |
| 1800-1900 | French  | 9655 Mo-Fr   |           |         |   |
| 1800-1900 | Spanish | 7275 17715 17755 Mo-Fr   |           |         |   |
| 1800-1900 | Spanish | 7275 9665 9765cr 11815cr<br>17715 17755 21700 Sa                                       |           |         |   |
| 1800-1900 | Spanish | 7275 9665 9765cr 11815cr<br>17715 17755 17850cr 21700<br>Su                            |           |         |   |
| 1825-1855 | Ladino  | 17770 Mo   |           |         |   |
| 1900-2100 | Arabic  | 7270 17560 Mo-Fr   |           |         |   |
| 1900-2000 | French  | 7150 9595 Mo-Fr  |           |         |   |
| 1900-2000 | French  | 9595 17560 Sa  |           |         |   |
| 1900-2000 | French  | 17560 Su   |           |         |   |
| 1900-2000 | Spanish | 7275 15110   |           |         |   |
| 1900-2000 | Spanish | 7275 9665 9765 11815cr<br>15110 21700  |           |         |   |

**TUNISIA** New schedule of *RTV Tunisienne* in Arabic:

|           |             |
|-----------|-------------|
| 0200-0400 | 9720        |
| 0400-0500 | 7275 9720   |
| 0500-0700 | 7275        |
| 1200-1400 | 17735       |
| 1400-1700 | 11730 17735 |
| 1700-2100 | 7225 9720   |
| 2100-2300 | 7225        |

(Observer-BUL, Ivo Ivanov and Anguel Datzinov, Jul 23/BC-DX/Bueschel-GER)

**UNITED KINGDOM/VARIOUS** Current *African Beacon* schedule:

|           |             |
|-----------|-------------|
| 0430-0630 | 6115M       |
| 1530-1800 | 6145M       |
| 1800-2200 | 3230M 9675R |
| 1900-2200 | 5925M       |

The new *European Beacon* now operates:

|           |        |
|-----------|--------|
| 1600-1800 | 15445S |
| 1800-2000 | 15585S |
| 1900-2200 | 7360K  |

A new limited edition QSL card is being offered.

K=Krasnodar, Russia  
M=Meyerton, S. Africa  
R=Rampisham, UK  
S=Skelton, UK

(Vaughn British DX Club Jun 27/Cumbre DX/Fleming-MD)

**UNITED STATES OF AMERICA** *Christian Science Sentinel - Radio Edition* Programs via *WSHB*, Cypress Creek, SC: Web Site: <http://www.tfccs.com/GV/shortwave/wshb.html>

|           |              |            |
|-----------|--------------|------------|
| 0000-0100 | Multilingual | 9430 15285 |
| 0100-0200 | Multilingual | 9430 15285 |

|           |              |                  |
|-----------|--------------|------------------|
| 0200-0300 | Multilingual | 7535 9430        |
| 0300-0400 | Multilingual | 11930            |
| 0400-0500 | Multilingual | 11930 15195      |
| 0500-0600 | Multilingual | 11930            |
| 0600-0700 | Multilingual | 13650            |
| 0700-0800 | Multilingual | 13650            |
| 0800-0900 | Multilingual | 9845             |
| 0900-1000 | Multilingual | 9455             |
| 1000-1100 | Multilingual | 6095 9455        |
| 1100-1200 | Multilingual | 6095 11660       |
| 1200-1300 | Multilingual | 6095 11660       |
| 1300-1400 | Multilingual | 9430 9455        |
| 1600-1700 | Multilingual | 18910            |
| 1700-1800 | Multilingual | 18910            |
| 1800-1900 | Multilingual | 15665 18910      |
| 1900-2000 | Multilingual | 15665 18915      |
| 2000-2100 | Multilingual | 11550 15665      |
| 2100-2200 | Multilingual | 15665 18910      |
| 2200-2300 | Multilingual | 7510 13770 15285 |
| 2300-2359 | Multilingual | 13770 15285      |

(BBCM)

**WINB - World International Broadcasters Inc.**

Web Site: <http://www.winb.com>

|           |         |             |
|-----------|---------|-------------|
| 0000-0230 | English | 12160       |
| 1445-1500 | English | 13570 Mo-Fr |
| 1500-2359 | English | 13570       |

(BBCM)

**WWCR (Worldwide Christian Radio) Web Site:**

<http://www.wwcr.com>

**Service 1**

|           |         |       |
|-----------|---------|-------|
| 0000-0100 | English | 9475  |
| 0100-0400 | English | 3215  |
| 0400-0900 | English | 3210  |
| 0900-1000 | English | 7435  |
| 1000-1100 | English | 9475  |
| 1100-2200 | English | 15685 |
| 2200-2400 | English | 9475  |

**Service 3**

|           |         |            |
|-----------|---------|------------|
| 0000-1300 | English | 5070       |
| 1300-2200 | English | 12160      |
| 2200-2400 | English | 5070 12160 |

**Dr. Gene Scott**

|           |         |       |
|-----------|---------|-------|
| 0200-1200 | English | 5935  |
| 1200-0200 | English | 13845 |

**Brother Stair**

|           |         |      |
|-----------|---------|------|
| 0000-0500 | English | 7435 |
| 0500-1100 | English | 2390 |
| 1100-1300 | English | 7435 |
| 1300-2200 | English | 9475 |
| 2200-2400 | English | 7435 |

(BBCM)

Due to QRM, **WWBS** has changed their schedule, effective immediately. Now UTC Sun and Mon 0000-

0100 on 11910 and 0100-0200 on 11900. Per Charles Josey at the station. (Johnson Jul 6/Cumbre DX/Moore-IA)

**UZBEKISTAN IBRA-Radio** in Bengali. The broadcast in Bengali (Mukto Probaho) at 1330-1400 on 15470 [via Tashkent-UZB] seems to have been dropped, as the channel is absolutely clear; nor can I find the program on any other freq. (Tony Jones-PRG, NU May 28) IBRA Radio indeed stopped the Bengali service they have broadcast via CIS sites since May 1995. Bengali programs of IBRA Radio continue on the schedule of FEBA Radio. (Dr. Hansjoerg Biener-D, Jul 12/BC-DX/Bueschel-GER)

**VIETNAM HF monitoring log of Vietnamese stations:**

- 4212 Lai Chau 1220-1230 2200-2230 *Lai Chau BS* DS reg outlet; some reports suggest a spur from a MF outlet also near this freq.
- 4722 Play Ku 1220-1300 *Gia Lai BS* DS reg, not traced in local morning.
- 4795 Son La 1215-1300 *Son La BS* DS (not traced in mornings).
- 5035 Hanoi \*2200-2300 *VoVTN* Hmong sce and parallel 6165.
- 5595 Lao Cai \*2230-2300 1200-1230 *Lao Cai BS* Vn, Vernac, varies 5593-5596, 6690.
- 5925 Hanoi \*2200-1600\* *VoVTN* Vn, relays DS.
- 6020 Hanoi \*2200-1600\* *VoVTN* Vn, DS.
- 6165 Hanoi \*2200-2300 *VoVTN* Hmong Net.
- 6382 Lai Chau 2200-0000 1200-1230 *Lai Chau BS* Vn, Vernac.
- 6500 Cao Bang 1230-1300 *Cao Bang BS* Vn, Vernac.
- 6695 Lai Chau \*2230-2300 1200-1230 *Lai Chau BS* Vn, Vernac. 5595.
- 7115 Hanoi \*2200-1600\* *VoVTN* Vn, Vernac.
- 7155 Ha Giang \*0230-0400 *Ha Giang BS* Vn, Vernac.
- 7210 Hanoi \*2200-1600\* *VoVTN* Vn & Vernac.
- 7285 Hanoi 0000-0100 *VoVTN* Cambod & Laotian.
- 7285 Hanoi 0100-0800 *VoVTN* Vn, Vernac; DS progrs.

(Padula-AUS/EDXP, Jul 5/BC-DX/Bueschel-GER) add 6684.3 *Lao Cai* Province—heard with Hmong singing (Lam Jul 4/5/Cumbre DX/Moore-IA)

**YEMEN Radio Yemen** from Sana'a noted on new 9783 (x9779) at 0342 with program in Arabic. English heard 1800-1900. (Robert Petraitis-LTU, Jul 15/BC-DX/Bueschel-GER) Measured on v9781.82 on Jul 22 at 1900 (Bueschel-GER)

**Radio Aden**, in Arabic (not Radio Cairo / VoArabs) has been noted July 9 and 23: 0900-1100 9900.0. (Observer-BUL, Ivo Ivanov and Anguel Datzinov, Jul 23/BC-DX/Bueschel-GER) [Possibly *Sundays only?—AQ*]

# Pirate Radio Report

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

Hi! I'm not sure why **The Pirate Radio Report** didn't appear last month [no one tells me these things!] but hopefully you're reading this, The August edition. Lots of logs received this month. Keep 'em coming guys!

## WLIS Winner of Most Popular Pirate Station of the Past Year!

I'm very pleased to announce that long time pirate station **WLIS-We Love Interval Signals** has won the honors this year. WLIS has been around about 10 years or so.

Hosted by Jack Boggan and Charles Poltz their format includes actual interval signals from international shortwave and pirate stations interspersed with popular and new age music selections.

WLIS has always been listener oriented. They are a very good QSLer and often do request shows, dedicating interval signals to different listeners. I urge you to send them a report the next time you hear them. Perhaps you will get one of their Ian MacFarland QSL sheets.

Now, what was voted as the least favorite pirate station? According to our readers, the station you hated the most was

**Jimmy The Weasel-WRX**. Jimmy's singing about "Your Stinkin' Momma" and obscene mentions of the FCC and George Zeller irritated many of you.

I want to thank all of those who voted and those of you who didn't [you know who you are!] to participate in next years' poll. Thanks.

## Loggings...

Many thanks to the following individuals who contributed: Ralph Brandi-NJ, Ross "The Boss" Comeau-MA, Bill Finn-PA, Scott Gentry-IL, Fred Kohlbrenner-PA, Chuck Rippel-VA, Bill Wilkins-MO and George Zeller-OH.

**Psycho Radio** was logged July 9<sup>th</sup> at 0247UTC on 6956 kHz w/rap mx. Said using 5.5 watts. [Comeau-MA]

**Radio Alfa Lima International**, a Europirate heard almost every weekend on 15070 kHz. Noted on June 24<sup>th</sup> at 2340 UTC [Kohlbrenner-PA] Also logged on 6/25 [Rippel-VA] Logged July 8<sup>th</sup> at 2343 UTC w/Backstreet Boys mx. [Comeau-MA]

**Radio Azteca** was heard on The 4<sup>th</sup> of July at 0232 UTC with a "Music & ID Special #3" on 6950 kHz USB. [Wilkins-MO]

A South American pirate, **Radio Bermudareieck** was heard via a Radio Blandengue relay at 0132 UTC on June 25<sup>th</sup>. Some English IDs were noted w/Techno-Pop mx. Address: Box 1136, 06201 Merseburg, Germany.

Europirate **Radio East Coast Holland** was heard on July 2<sup>nd</sup> at 0000 UTC on 11484.77 kHz. Mx from the 70's and ID noted. [Brandi-NJ]

**Radio Metallica Worldwide** reappeared after about 6 months. Noted on July 9<sup>th</sup> at 0104 UTC on 6955 USB making fun of Al Weiner. [Comeau-MA] Also heard on July 22<sup>nd</sup> at 0500 UTC on 6950 kHz. [Gentry-IL]

Another Europirate, **Radio Sunflower** was logged on 15810 kHz at 2325 UTC on July 22<sup>nd</sup>. US/Europop mx noted. [Kohlbrenner-PA]

The **Voice Of The Runaway Maharishi**, was logged at 0405 UTC on 6955 USB on July 22<sup>nd</sup>. It was an old show with the Wellsville drop. [Gentry-IL]

**Weekend Music Radio** from Scotland was logged on 15700 kHz at 0144 UTC on July 2<sup>nd</sup>. DJ Jack Russel played an oldies format. [Comeau-MA]

**WHYP** was heard July 12<sup>th</sup> at 0045 to 0128 on 6950 AM. Male w/IDs talking about Captain Ganja. [Gentry-IL]

That wraps up this edition of the **Pirate Radio Report**. Be sure to send in your loggings for next month!

Happy Pirate DX!

-Chris



# QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010



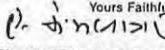
DIRECTORATE GENERAL,  
ALL INDIA RADIO,  
A.V. BHAWAN, SANSAD MARG,  
NEW DELHI-110001, INDIA.

No. 3/1/2000 EIII 687 Dated. 1.6.2000

Dear Sir/Madam,

We gratefully acknowledge and confirm  
your Reception Report.

Date 21-2-2000 Frequency 11740 kHz  
16-2-2000 11210 4990  
Time 1530 UTC Station PANAJI, ITANAGAR.  
1146, 1208

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



MR. MARLIN A. FIELD

128 OAK

HILLDALE, MT 49242

USA

## ALBANIA: Radio Tirana International

7295 and 9750 f/d cd. w/ sticker, schedule and flag in 9 wks. (Barto-CT). 6135.8 p/d cd. w/ postcard, ltr., schedule & cd. of "Ancient Butrinti-Saranda" in 2 mo. (Barto).

## ANTIGUA: British Broadcasting Corporation

17840 p/d cd. in 17 ds. v/s David George, Caribbean Relay Company. (Humenyk)

## ARMENIA: Voice of Russia 9965 f/d cd. w/ schedule,

DX report cds., sticker and a station calendar in 75 ds. (Glitzbach-NM). Voice of Armenia 9965 via Yerevan f/d "Logo w/ Mountains" cd. w/ personal ltr. and schedule in 133 ds. (Humenyk-ONT).

## ARGENTINA: LR3 Radio Libertad 15820 p/d ltr.

- \* w/ several stickers, schedule and station brochures in 5 wks. v/s Carlos Tagliapietra, Gerencia Tecnica. (Barto-CT). Feeling FM 100.7 15820 p/d ltr. w/ stickers and postcards. Same address and v/s as LR3. (Barto-CT).

## ASIATIC RUSSIA: Voice of Vietnam 13665 f/d cd.

w/o site in 2½ mo. w/ schedule. Site is believed to be Petropavlovsk-on-Amur. (Barto-CT).

AUSTRALIA: Radio Australia 21820 via Shepparton f/d "Sunrise behind the New Pacific Aerial Group" cd. in 45 ds. w/ schedule. v/s John Wright, ARDXC. (Humenyk-ONT).

AUSTRIA: Radio Austria International 9655 f/d "Theatre on the Lake" cd. in 15 ds. w/ ltr. (Borokowski-NY).

BELGIUM: Radio Vlaanderen Internationaal 17695 and 9925 via Wavre f/d cd. in 2 mo. w/ schedule. (Barto-CT) 9925, 17695 and 15365 f/d "Kortrijk" cd. in 6 wks. (Barto-CT). 9925 and 5910 f/d "Beginenhof" cd. w/ schedule in 7 wks. (Barto-CT).

BONAIRE: Radio Vlaanderen Internationaal 15565 f/d "Town Hall Tower" cd in 29 ds. (Humenyk-ONT). 15565 f/d "Photos of Ieper" cd. in 59 ds. (Humenyk-ONT).

CANADA: Radio Korea International 11715 via Sackville f/d "Year of New Arts" cd. in 40 ds. v/s Anna Paric. (Borokowski-NY). Radio Japan 6145 via Sackville f/d "Japanese Azaleas on a River at Nikko" cd. in 38 ds. w/ schedule, magazine

## RADIO PRAGUE



ISRAEL  
BROADCASTING  
AUTHORITY



and NHK World. v/s Yoshiki Fushimi. (Humenyk). 6120 f/d  
 \*65th Anniversary of Overseas Broadcasting" cd. in 35  
 ds. (Borokowski-NY). Radio Canada International 5960,  
 9755, 13670, 15305 and 17695 f/d "Telecom 83" cd.  
 in 15 ds. w/ stickers and RCI station informa-  
 tion. v/s Bill Westenhaver. (Humenyk-ONT).

**CHINA, PEOPLES REPUBLIC OF: Fujian People's**

\* Broadcasting Station 4975 rcvd. cd. in  
 Chinese and rice paper stationary w/ 10  
 Chinese stamps in 28 ds. (Glotzbach-NM).

**China National Radio - 4 National Minority  
 Service** 5420 and 4190 f/d "Red Dragon 2000"

cd. w/ schedule  
 in 7 wks. (Barto-CT)  
Chinese Peoples Broad-  
 casting Station 10260,  
 11375, 11630 and 15670 f/d

cds. w/ schedules in 2 mo.  
 (Barto-CT). 15145 via Kunm-  
 ing f/d "Dragon 2000" cd. in  
 1 1/2 mo. w/ stickers. (Barto-CT).

**COSTA RICA: Radio For Peace Inter-  
 national** 25930 f/d ltr. in 160 ds.  
 w/ information folder and schedule.

(Humenyk-ONT). Radio Exterior de Espana  
 5970 via Cariari de Pococi f/d "Logo" cd  
 in 102 ds. w/ report forms. (Humenyk-ONT).

**CYPRUS: Cyprus Broadcasting Corporation** 9760  
 f/d cd. in 48 ds. (Glotzbach-NM).

**CZECH REPUBLIC: Radio Prague International**



**VERIFICATION SIGNERS: Radio Difusora Macapa**

4915 Paulo Roberto Rodrigues, Gerente. Addr:  
 Candido Mendes 525, CEP-68900-100 Macapa, AP,  
 Brasil. Radio Aparecida 5035 Cassiano Alves Macedo.

Addr: C.P. 02, Aparecida, SP, CEP-12570-970. Radio Nacional LRA  
 15345 Sandro Cenci, Italian Service. Radio Clube Paranaense 11935  
 Vicente Mickosz, Superintendente. Addr: Rua Rockefeller 1311, Re-  
 bouras, Prado Velho, CEP-80230-130, Curitiba, PR, Brasil. Radio  
Alvorada de Parintins 4965 M. Braga. Addr: Rua Governador Leopoldo  
 Neves 516, Parintins, AM, CEP-69151-440, Brasil. CBN Radio Anhan-  
 quera 4915 Eng. Domingo Vicente Tinoco, Technical Manager...  
 .....via PLAY DX.....SAM.

7345 via Lit-  
 omysl f/d

"Koprivnice  
 Carriage Fac-  
 tory" cd. in  
 17 ds. (Borokow-  
 ski-NY). 11600  
 and 15545 f/d cd.

"Czech Radio - Past  
 and Present" in 18  
 ds. w/ schedule and  
 sticker. (Humenyk-ONT).  
 21745 f/d "Radio and  
 Television Tower" cd.  
 in 5 wks. w/ sticker and  
 schedule. (Barto-CT).

**ECUADOR: Christian DX Circle**

\* 9745 via HCJB "Special QSL  
 w/ Map of Ecuador" cd. in 18  
 ds. Ltr. and stamps from the  
 Antilles were rcvd. v/s Christer  
 Brunstrom. (Humenyk-ONT).



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 on shortwave  
**SWRS**  
 SHORT WAVE RELAY SERVICE

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 FREE & COMMUNITY RADIO



International Shortwave  
 Association

ESCUELAS RADIOFONICAS  
POPULARES DEL ECUADOR  
"ERPE"  
CANTO DE SUDOR Y REBELDIA



La Resistencia Latinoamericana  
se fortalece con el Canto.  
LEONIDAS PROAÑO  
vive entre el pueblo pobre.  
RIOBAMBA-ECUADOR

**ENGLAND: Wales Radio International**  
6010 via Skelton (aka Radio Rhyng-  
wladol Cymru) f/d ltr. in 3½ wks.  
(Barto-CT). 9735 via Rampisham f/d  
ltr. in 97 ds. (Glotzbach-NM).

**EUROPEAN RUSSIA: China Radio Internat-  
ional** 7170 (Samara - possibly) f/d  
cd. w/o site in 9 wks. (Barto-CT).

**GERMANY: Radio Vlaanderen Internatio-  
nal** 13600 via Julich f/d cd. in 2  
mo. (Barto-CT). f/d "Kortrijk" cd.  
in 6 wks. (Barto). 11780 f/d "Beg-  
innehof" cd. w/ schedule in 7 wks.  
(Barto-CT). Adventist World Radio  
15560 via Julich f/d "Seminar Dvo-  
rac Marusevec" cd. w/ pocket calen-  
dar, magazine, station stamp, sked.  
and ltr. in 1 mo. (Humenyk-ONT).

\* Mitteldeutscher Rundfunk 6085 via  
Bayerischer Rundfunk rcvd. QSL and  
7 stickers, pen, station brochure,  
folder w/ 10 technical rpts, sked.,  
etc. in 36 ds. for a GM rpt. (Glotzbach).

**VERIFICATION**

**SIGNERS: Radio Centenario "La Nueva"** 4855 Napoleon Ardaya, Director.  
Addr: Casilla De Correo 818, Santa Cruz, Bolivia. E-mail: mission.  
espabo@scbbs-bo.com. La Cruz del Sur 4875 Padre Reyes Baltazar  
Quispes, Director. Addr: Casilla 1408, La Paz, Bolivia. Station  
has a beautiful new colored pennant. Radio Illimani 4945 Gabriel

PAKISTAN BROADCASTING CORPORATION  
Frequency Management Cell  
National Broadcasting House  
Constitution Avenue, Islamabad  
Pakistan

Thank you for your report on our \_\_\_\_\_  
World Service for South East Asia Mr. Jeff Molander,  
Service from 02:24 to 02:45 U.S.A.  
GMT on 15485 kHz.  
If you require any further information on any of our  
programmes, you are free to call us.

PST = GMT + 5Hrs  
Yours Sincerely,  
*[Signature]*  
U.S.F.

Astorga Guachala. Addr:  
Avenida Camacho 1465,  
Piso 6, Casilla 1042,  
La Paz, Bolivia. Radio  
Emisora "Mallku" La Voz  
de los Trabajadores  
Campesinos del Altipl-  
ano 3310. Addr: Casilla  
16, Uyuni, Bolivia.....  
via PLAY DX.....Sam.

ds. w/ station schedule and brochures. (Humenyk-ONT).  
**HAWAII: WWVH** 5000 via Kokole Point f/d cd. in 1 mo. for reception  
from 2352-0002 on 010100. (Barto-CT).

**ICELAND: Icelandic National Broadcasting Service** 11402 f/d "Map"  
cd. w/ 3 beautiful  
stamps in 42 ds.  
(Glotzbach-NM). G

Benet, Massachusetts, USA

**QSL Verification Card**

Date April 21 1998 Time (UTC) 1300 kHz 4355  
Date 1998 Hour 1300 Zet KH6E

Program Details/Nombre de l'émission  
Programa/Nombre de la programación  
*Thank you for your correct  
report. It's good for us that  
you have returned to station.  
I'm sorry this card can  
not be sent.*

Name/Nombre del Emisor  
Jeff A. Molander  
Address/Address/Dirección  
1808 Storie Way  
Elk Grove, CA  
USA

This signed card confirms your reception report. Thank you for  
writing to the Herald Broadcasting. We invite you to continue  
listening. Please feel free to write again with comments or questions  
about your programming.  
*[Signature]*  
Signature of Herald Broadcasting

**IRAN: Islamic Repub-  
lic of Iran Broad-  
casting** 13605,  
15610 and 11750  
p/d cd. w/ sked.  
in 2 mo. (Barto).  
9575 and 11960 p/d  
cd. w/ sticker and  
schedule in 2 mo.  
(Barto-CT).

**ISRAEL: Kol Israel**  
Reshet B 11585,  
7545 and 9385 f/d  
cd. w/ schedule

To Tom Robertson  
New Albany, MS



RADIO 4VEH IS PLEASED TO  
CONFIRM YOUR RECEPTION REPORT  
OF 1-1-82 AT 2259-2330 GMT

ON 11835 KHZ., 25 METERS

Mrs. Edna Beach, QSL Secretary

**Radio 4VEH**

THE EVANGELISTIC VOICE  
OF HAITI  
P.O. Box 1  
Cap-Haitien, Haiti, W.I.

"Jesus said, 'I am the Way the Truth and the Life; No man comes to the Father but by Me.' John 14:6"

and a large blue and white  
cloth station pennant in 2  
mo. I haven't seen one of  
these pennants in 20 years!  
I thought they stopped making  
them. (Barto-CT). 17535 f/d  
blue cd. w/ schedule in 135  
ds. (Humenyk-ONT).

**ITALY: Radio Speranza** 6231.2 f/d  
\* "Santuario Madonna" cd. in 1  
mo. v/s Padre Luigi Cordioli.  
(Barto-CT).

**JAPAN: Radio Canada Internatio-  
nal** 17835 via **Yamata** f/d  
"Telecom 83" cd. in 15 ds.

v/s Bill Westenhaver. (Humenyk-ONT).

**KOREA, REPUBLIC OF: Radio Korea International** 15575 via **Kimje** f/d "The  
Year of New Arts" cd. w/ newsltr. and schedule in 70 ds. (Humenyk).

**MALAGASY REPUBLIC: Radio Vlaanderen International** 13645 f/d "Kortrijk"  
cd. in 6 wks. (Barto). 13645 f/d "Beginenhof" cd. w/ schedule in 2  
mo. (Barto). **Radio Nederland** 12090 f/d "Sheep Jaula" cd. in 1½ mo.  
(Barto-CT)...I originally thought the site to be Moscow.

**VERIFICATION SIGNERS: Radio Mosoj Chaski** 3310 Eldon Porter, Gerente.  
Addr: Casilla 4493, Cochabamba, Bolivia. **Radio Record** 6150 Mario  
Luis Catto, Director. Addr: Rua S. Carlos Do Pinhal 696, 9b Andar,  
01333 Sao Paulo, Brasil. **Radio Australia** 9580 Gordon Danvita. **Radio  
Santa Cruz** 6135 Yolanda Marco, Administradora. Addr: Casilla 672,  
Santa Cruz, Bolivia. **Radio El  
Mundo** 6015 Jose Luis Velez,  
Director Comercial. Addr: Cas-  
illa 1984, Santa Cruz, Bolivia. **Radio Oriental** 4780 Luis Enri-  
que Espin Espinoza, Gerente Gen-  
eral. Addr: Casilla 260, Tena,  
Ecuador. **Voice of Revolution of  
Tigray** 5500 Mr. Fre Tesfamicael,  
Director. Addr: P.O. Box 450,  
ME-Kelle, Tigray, Ethiopia.....  
via PLAY DX.....Sam.

An S. Barto, 47 Popiel Place, Bristol, 018

velen Dank für Ihre Mitteilung zum Empfang von RADIOFOIPA INFO. Wir bestätigen hiermit Ihre Angaben  
vom 06.06.83  
von 22.37 bis 23.52 MEZMESZUTIC

Der Empfang erfolgte

- über die Satelliten  ASTRA 1A  
 DFS-Kopfmikro  IV-Sat 2
- über Langwelle 261 kHz  
 über das Kabelnetz der Telekom  
 über UKW MHz  
 über KW 5.960 kHz

Wir würden uns freuen. Sie werden zum Kreis unserer Hörer zählen zu können

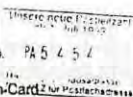
Datum: 06.06.83

Unterschrift: [Signature]



RADIOFOIPA-INFO,  
TechnikPark, Postfach 65,  
W-5568 Dorn, Germany

QSL-Verification-Card für Radiofoipa



**MALTA: Voice of the Mediterranean**  
13605 f/d "10th Anniversary" cd.  
in 1 mo. (Glotzbach-NM).

**MEXICO: XEOI Radio Mil** 6010 cd. w/  
personal ltr. in 190 ds. Also

rcvd. invitation to the DX Conference in Oaxaca in August 2000. (Glotzbach-NM). **Radio Educacion** 6185 f/d ltr. in 208 ds. for an EG rpt. and \$2.00. (Uhler-OR).

**MOLDOVA: Voice of Russia** 9665 f/d "Wheatfield"  
cd. in 28 ds. v/s Tanya Stukova. This is my  
50th VOR QSL. (Borokowski-NY).

**OMAN: British Broadcasting Corporation Eastern  
Relay Station** 15310 personal ltr. w/ schedule  
in 94 ds. I heard this station while on a  
cruise around Crete. (Glotzbach-NM).

**PHILIPPINES: Radio Pilipinas** 15270 after no reply via  
the mail a FAX brought a reply in 580 ds. Also re-  
ceived schedule. (Glotzbach-NM).

**PORTUGAL: Radio Diffusao Portugal** 13625 f/d "Oil  
Painting on Wood" cd. w/ sticker, schedule and a  
ltr. in 50 ds. (Humenyk-ONT).

**ROMANIA: Radio Romania International** 9570 f/d  
"Constantin Brancusi" cd. in 95 ds. w/ sked.  
and listeners club information. (Borokowski).

**SAIPAN: Voice of America** 9355 via **Agingan Point**  
"Greenville" cd. w/ date, time & freq. w/o  
site in 5 wks. (Barto-CT).

**RADIO JUANJUAN**



via  
Lobdell

**VOICE OF HOPE WORLD NETWORK**

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

King of Hope South Lebanon     KVOH Los Angeles     **KHBN** Palau  
via Lare

Date of Reception 1 May 1992 Time: GMT/UTC 1143 to 1201 UTC

Transmission was heard on 9830 kHz 31 Meter Band  
We appreciate your interest in our programs and invite you to write again.

*High Adventure Ministries*

"Swiss Photos" cd. in 16 ds. w/ station schedule. 9humenyk-ONT).

**SPANISH MOROCCO: Radio Mediterranee Internationale (Radio Medi Un)**

**VERIFICATION SIGNERS: SWRS** 7590 Addr: P.O. Box 220342, DE-42373, Wuppertal, Germany. **Radio Tatarstan** 11925 Mrs. Hania Hazipovna Galomova. **South African Radio League** 15250 Addr: P.O. Box 1842, Hillcrest 2650, South Africa. **Trans World Radio - Evangelium Rund Funk** 7160 John Moore. Addr: B.P. 349, mc 98007, Monaco. **RAI Roma** 11800 Mrs. Vassallo, QSL Secretary. ADDR: Centro RAI, Saxe Rubra, IT-00188, Italy. **All India Radio** 4760 **Port Blair** Addr: Directorate General All India Radio, A.V. Bhawan, Sansad Marg., New Delhi 110001, India. ....via PLAY DX.....Sam.

QSL

La voix du Canada dans le monde



RADIO CANADA INTERNATIONAL

RCI

Canada's Voice To The World

9575 cd. w/ 1tr schedule and a sticker in 124 ds. (Glotzbach)

**SWAZILAND:**

**Trans World Radio** 9500 via **Manzini** f/d "Transmitter Site w/ Offices" cd. in 1 mo. for \$1.00. v/s

Mrs. L. Stavropoulos. Schedule was rcvd. (Borokowski-NY).

**SWEDEN: Radio Sweden International** 13625, 15240 and 17505 f/d "The Warship Vasa Breaks the Surface" cd. in 15 ds. v/s C. Adlir. (Humenyk-ONT).

**TAIWAN: Central Broadcasting System - Dialect Network**

9765 via **Taipei** p/d "Taroko National Park" cd. w/ station brochures, schedule, stickers, First Day Cover, and envelopes in 5 wks. (Barto-CT). 15345 via **Panchiau** same as above in 5 wks. (Barto-CT). **Central Broadcasting System** 6180 f/d cd. w/ schedule in Chinese in 179 ds. (Glotzbach-NM). **Taipei International Voice** 11725 and 11860 via **Taipei** f/d cd. in 6 wks. (Barto-CT). 15125 via **Annan** f/d cd. in 6 wks. (Barto-CT).

**SINAPORE: Radio Japan** 11860 via **Kranji** f/d "Cherry Blossoms" cd. w/ schedule in 2 mo. (Barto-CT). **Radio Corporation of Singapore** 9665 p/d "Raffles Hotel" cd. w/ stickers and schedule in 5 wks. (Barto). **Swiss Radio Internationale** 9590 via **Kranji** f/d "City Hall" cd. w/ newsletter, schedule, sticker, pin and other gifts in 5 wks. (Barto). 13735 f/d

This is a special RCI QSL card to celebrate our 50th anniversary. Cette carte QSL souligne le 50e anniversaire de RCI.

Bill Wittenbauer



| Date   | Time      | Site  |
|--|-----------|-------|
| 4 May 1992   | 1328-1357 | 11925 |
| Program details/Programme de l'émission<br>relay via Xian (China.) |           |       |

Operator: Mr. Masao Hosoya  
Address: 1-1-18, Sengen-cho  
Higashi-Kurume-shi,  
Tokyo 203  
JAPAN



Government of India  
**ALL INDIA RADIO**  
EXTERNAL SERVICES DIVISION  
POST BOX 502, NEW DELHI, INDIA

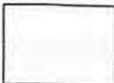
Dear Sir/Madam,

We gratefully acknowledge your Reception Report and confirm your listening to our services on 7-11-82 at 4780 kHz on 1203-1230 Hr./GMT.

Yours faithfully,

*[Signature]*  
Jah Bahadur Research Officer  
in Charge of External Services

Richard D'Angelo



Thank you for your report on the reception of our transmission from the MEYERTON short wave station

DATE: 16/01/96  
 TIME: UTC/GMT 17:00-  
 FREQUENCY: 15240 kHz

GEORGE CLEMENT  
 3603 LAVILLA DRIVE  
 POWER SPRINGS, GA  
 30073-1114.  
 U.S.A.

**Radio Santec** 9955 via **WRMI** f/d cd. w/ station religious brochures in 2 mo. (Barto-CT). **Voice of America** 17725 via **Green-ville** f/d "Utah" cd. w/ new style stickers in 1 mo. (Barto-CT). **WWV** 2500 and 5000 f/d cd. for reception from 2352-0002 on 12/31 to 010100. (Barto-CT). **Voice of Greece** via **VOA** site at **Delano** f/d "Prince of the Lillies" cd. in 13 ds. (Borokowski-NY). **KTBN** 15590 **Salt Lake City, UT** f/d "Transmitter

Towers w/ Mountains" cd. in 54 ds. (Humenyk-ONT).

**USA (Pirates): MIDI Radio** 6955 n/d "Midi Radio Rules" sheet via E-mail in 2 ds. for a rpt. to midiradio@yahoo.com. (Comeau-MA).

**Q S L**

Verification Card

Station Radio Tanzania Zanzibar

To Richard E. Davis, Portales, New Mexico

This is to confirm your reception of our transmission dated 30 December 1986, 1730 - 1800 hours UTC on a frequency of 11735 kHz, with 50 k watts.

**UZBEKSTAN: Radio Vlaanderen International** 17690 via **Tashkent** f/d cd. in 6 wks. (Field-MI). f/d "2 photos of Kortrijk" in 3 wks. (Humenyk-ONT).

**VATICAN CITY: Radio Vatican** 9605 f/d "Archan-gel Gabriel" cd. in 54 ds. (Borokowski-NY).

**NOTES: Stephen Price** of Johnstown, Pa says his recent QSLs are his most prized. They were very long holdouts. He also says that this hobby never ceases to amaze him after Radio Iraq International read one of his reception reports on their Postbag Corner program... You are probably on someones @##\* list...Sam. I can still remember



RADIO TELEVISION POPULAR

**VERIFICATION SIGNERS: Radio Marumby**

9665 Padre C. Bernardino, President. **CRTV Radio Yaounde** 4850 Eyebe Canga, Director Technique. **Radio Trans Mundial** 11735 Addr: C.P. 18300, Aeropuerto, CEP-04699-970, Sao Paulo, SP, Brasil. **Radio Alvorada de Londrina** 4865 Sonia Lopez. Addr: Rua Senador S. Naves 9, Londrina, Parana. **Radio Cancao Nova** 4825 Wellington Silva Jardim. Addr: C.P. 57, CEP-12630-000 Cachoeira Paulista, SP, Brasil. **Radio Rio Grande Do Sul** 11895 Sandra Albuquerque, Secretaria. **Radio Rio Mar** 9695 Jairo Sousa Coelho, Director Programacao. **Radio Record** 6150 Mario Luiz Catto, Director. Addr: Rua Sao Carlos Do Pinhal 696, 9b, CEP-01333, SP, Brasil...via PLAY DX...Sam.

Señor: GABRIEL IVAN BARRERA

**QSL**

Certificado de Sintonia

**RADIO METROPOLITANA** le da las gracias por su Informe de recepción. Tenemos el gusto de confirmar su control de nuestra emisión en frecuencia de 6195 kHz. de

someone from the USPO coming to my home in the very early 60s asking if I still wanted to receive mail from the USSR! Best of QSLing till next time...Sam.

Fecha: 12.01.1993

Horas: 19:26-23:00

Potencia: 10 kW

*Sam*

*[Signature]*

Carlos Palenque Avilés  
 PRESIDENTE EJECUTIVO RTP

# Net Notes

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

We wrote about Fineware's new Radio Listeners Database software last month. Mark Fine now tells us that the Website has moved to <http://www.fineware-swl.com/>. Page names remain the same as they were on the old site. The old Internet Service Provider had intermittent and slow connections on a frequent basis. The new server should provide better performance.

The R.L. Drake Virtual Museum has been redesigned. It is probably the best site we've seen that details the amateur and shortwave receiver products of the company. The site may be a bit slow to load at times due to the intensive use of graphical buttons and banners, but it's worth the wait to research the features and technical summaries of equipment dating back to 1958. Take a look at [http://www.dproducts.be/drake\\_museum/](http://www.dproducts.be/drake_museum/).

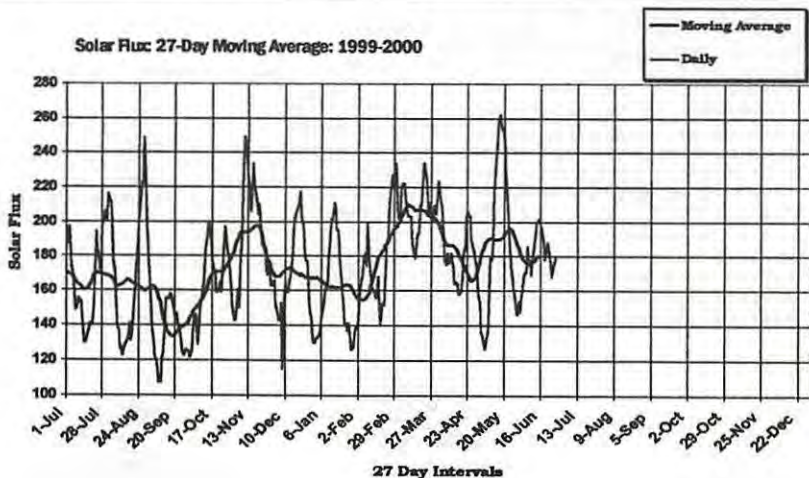
From Daniel Sampson of Wisconsin, "My English shortwave broadcasts to North America website has moved to <http://daniel-sampson.tripod.com/shortwave/>. Please update your bookmarks. This became necessary due to Angelfire's slow response in correcting the bugs in their new shell." The move took place at the beginning of June.

Niels Holst of Denmark found history and information about the Mauritius Broadcasting Corporation and a frequency guide for Radio and TV. There is a little bit of information about medium wave and shortwave too. Click on [http://mbc.intnet.mu/reception\\_guide.htm](http://mbc.intnet.mu/reception_guide.htm).

QSL card collections are archived through ANARC's CPRV, but it is not all that convenient to view. Some verifications are on the Web. Look at the SWL QSL Card Museum (<http://www.antique-corner.com/SWLQSL/>), sorted by country within continent. And the QSL Collection in Europe numbers more than 2 million amateur and broadcast cards. Look at their site for details: <http://www.qsl.at/>.

We found a nifty service provided goto.com that allows one to search all the on-line auctions at once. This includes Amazon, Ebay, MSN, Yahoo and more. Go to the bottom of our search page and give the auction search form a try. We found a virtually brand-new HF-150 on Yahoo that no one bid on...

Lastly, we're looking for photographs and perhaps audio tapes of **Radio Swan/Americas**. Please see the Musings section of our Web site. Can you help?



# Contributors' Page

Fred S. Kohlbrenner • 214 West Marshall Road • Lansdowne, PA 19050 • fkohl@ix.netcom.com

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

The following members sent in contributions:

|                                     |   |
|-------------------------------------|---|
| Brian ALEXANDER, Mechanicsburg, PA  | NRD-545 AOR AR-7030 100' LW             |
| Gene BOROWSKI, Staten Island, NY    |   |
| Ralph BRANDI, Tinton Falls, NJ      | R8 PR150 250' LW                        |
| Paul BROUILLETTE, Geneva, IL        | R8 60' LW                               |
| Ross COMEAU, Andover, MA            | R8 325' LW                              |
| Peter COSTELLO, Matawan, NJ         | AR3030 DX-390 YB400 70' LW Tun-4A       |
| Walt FAIR, Maracaibo, VENEZUELA     | Sangean ATS-909 Realistic ant. and LW   |
| Marlin FIELD, Hillsdale, MI         | NRD-535D Eavesdropper LW                |
| Bill FLYNN, Cave Junction, OR       | R8 R7A DX-Ultra inverted v              |
| Bob FRASER, Cohasset, MA            | Sony ICF-2003 ICF-SW100S 2m LW          |
| George GLOTZBACH, Santa Fe, NM      | R8B ARA-60                              |
| Bob HILL, Littleton, MA             | Sony 2010 120' dipole at 35'            |
| Mark HUMENYK, Weston ONTARIO        | Magnavox D-2935 AN-60 DX-SWL sloper     |
| Ron HUNSICKER, Wyomissing, PA       |   |
| Fred KOHLBRENNER, Philadelphia, PA  | R8 NRD-525 Datong FL-3 ANC-4 Sloper     |
| Harold LEVISON, Philadelphia, PA    | R8 R70 YB400                            |
| Jerry LINEBACK, Scranton, KS        | Icom 746 beverage antennas              |
| Jack LINONIS, West Middlesex, PA    | DX-375 DX160A NCX-20 65' LW Sloper      |
| George MAROTI, Mt. Kisco, NY        | R8B 2010 T2FD 30/45m dipoles            |
| William McGUIRE, Cheverly, MD       | DX-380                                  |
| Jim MOATS, Ravenna, OH              | FRG-7700 LW                             |
| Bob MONTGOMERY, Levittown, PA       | NRD-535D R388 DX-One Pro active antenna |
| Gary NEAL, Sugarland, TX            | Grundig YB-400                          |
| Takayuki Inoue NOZAKI, Tokyo, JAPAN | NRD515 NRD535 FRG7000                   |
| Mike PACE, Tipton, IA               |   |
| Denis PASQUALE, New Brighton, PA    | DX-440 with a 10 meter long wire        |
| Sheryl PASZKIEWICZ, Manitowoc, WI   | R8 NRD-525 60' Eavesdropper             |
| Bob RAYMOND, Nashua, NH             | R8B 20m 5/8 wave vertical               |
| Betsy ROBINSON, Clinton, TN         | Sony 2010 Indoor antenna                |
| Chuck RIPPEL, Cornland, VA          | WJ-HF1000A R8B R390A/SE-3 51S-1 LWS     |
| Giovanni SERRA, Rome, ITALY         | NRD-525 AD Sloper                       |
| Arnaldo L. SLAEN, ARGENTINA         |   |
| Fred TRESCHER, Philadelphia, PA     | Sony 2010 FRG-7700                      |
| Fred WILLSHAW, Charlotte, NC        | R8B EMF indoor antenna                  |
| Gerald WITHAM, Keaau, HI            | R8 ANC-4 135' LW                        |

Due to an increase in work and family responsibilities the time has come for me to pass this column's responsibilities on to a new editor. It has been a pleasure serving the club and our members as Distributing Editor for the past five years. I will continue on as editor of the *Scoreboard* so don't forget to send your totals to me for that column.

Effective immediately, the new Distributing Editor will be Bob Montgomery. Bob's address is: P O Box 1458, Levittown, PA 19058. E-mail: RMonty3@worldnet.att.net

Please begin sending in your contributions directly to him.

73s and Best Wishes.



- 13790nf **PORTUGAL D Welle** relay Sines in FR 1639, cmntry, bridge mx, IS, f (Humenyk ONT 6/6)
- 13855nf **SLOVAKIA Adv World R** relay in AR 1935, cmntry, QTH Nicosia, Cyprus, f (Humenyk ONT 6/6)
- 15125nf **RUSSIA VOR** via Samara relay in BG 1705, nx of C Europe, RS mx, tlk, //15290, f (Witham HI 6/24)
- 15135 **RWANDA Deut Welle** relay in EG 2105, rpt on soccer games, ID, Newslink, g (McGuire MD 6/19)
- 15180 **CHINA CRI** Xi'an in EG 1305, nx, cmntry, fluttery but strong signal (Brouillette MI 6/6)
- 15240 **NO MARIANAS VOA** relay Tinian in EG 1035, "News Now", rpts on Chechnya, Fiji crisis, new govt in Japan, Malaysian gun battle, into health nx 1045, stock mkt rpt, f (Moats OH 7/4)
- 15240 **AUSTRIA RAI** Vienna in GM 1735, tlks, ID's, Blue Danube waltz, //17765, f (Witham HI 6/14)
- 15245 **CONGO Congolaise Nat'l Radio** Kinshasa in FR 1500, s/on with nx, g (Linonis PA 7/6)
- 15345 **AUSTRIA R Canada Int** relay in EG \*0359, satellite info, pgm sked, nx, sports, //11835 (Moats 7/3)
- 15405 **CYPRUS BBC** relay in Uzbek 0215, tlk, mideast mx, ID, //11865, p (Witham HI 6/18)
- 15425 **SRI LANKA SLBC** Colombo in EG 0110, "Morning Show", oldies rx, ID, p (Kohlbrener PA 7/2)
- 15435 **LIBYA V of Africa** Tripoli in EG 0132, nx, peace between Egypt and Sudan, conf in Addis Ababa, ID "...from the R Voice of Africa bcstg from the great Jamahiriyah", to FR 0137, p audio (Brandt 6/27)
- 15470nf **THAILAND BBC** relay Nakhon Sawan in Farsi 1625, rpt, tlk, //17870, 5830 (Witham HI 6/24)
- 15470nf **CZECH REPUBLIC R Prague** in EG 0335, nx, ID, feature, //11600 (Witham 6/17, Moats OH 6/22)
- 15485nf **RUSSIA VOR** via Armavir relay in EG 2010, "Science & Engineering", //11675, g (Fraser MA 6/19) in GM 1850, rx, tlks, IS, ID, into FR 1900, f, //12030 (Witham HI 6/18)
- 15490 **RUSSIA VOR** via Irkutsk relay in EG 0725, tlk re radio/TV ads, ID, tlk on investm'ts (Witham 6/10)
- 15545 **CZECH REPUBLIC R Prague** in EG 2240, rpt on remembering assassination of Nazi Gestapo leader Heydrich, g, //11600 (Fraser MA 6/19)
- 15560nf **GERMANY Adv World Radio** relay in Dyula? 2139, tlk alternating w/mx, ID in FR (Brouillette 6/24)
- 15565 **NETHERLAND ANTILLES R Vlaanderen Int** relay in EG 0400, bridge mx, ID, "Brussels Calling", "Music in Flanders", g (McGuire MD 6/18)
- 15620nf **RUSSIA R Free Chechnya** relay St. Petersburg in RS 0525, RS vcls, ID, tlk, //12045 (Witham HI 6/16)
- 15760nf **ISRAEL Reshet Bet** Tel Aviv in HB 0156, mx, tlks, pips, ID "Reshet Bet", nx?, f (Brandt NJ 6/27) in HB 0255, ad, tlks, mx, Torah readings, pips, ID, nx, g (McGuire MD 6/28) in HB 2102, nx, rpts (Brouillette IL 6/24)
- 17525nf **TAJIKISTAN R Free Asia** relay in Burmese 0130\*, oriental mx, ID's in EG, f (Witham HI 6/17)
- 17580 **GERMANY Swiss R Int** relay Juelich in EG \*2000, tlk re electronics firm, travel in Switzerland, g (Fair VENEZUELA 7/8)
- 17595 **GERMANY Deut Welle** Wertachtel in Urdu 1510, oriental mx, tlks, ID, addresses in Pakistan, Bangladesh, etc., exc (Fair VENEZUELA 6/25)
- 17640 **UNITED KINGDOM BBC** Skelton in EG 1007, tlk abt Chechnya, rpts on Fiji crisis, oil prices, British Embassy security, European Court of Justice, Mideast controversy, Mexico election, f (Moats OH 7/4)
- 17650nf **RUSSIA VOR** via Petropavlovsk relay in EG 0350, relig tlk, choral mx, ID, IS, exc (Witham HI 6/17)
- 17660nf **GERMANY Adv World R** relay Juelich in Armenian 1845, relig mx & tlk, ID in EG, f (Witham 6/18)
- 17710nf **INDIA AIR** Aligarh in HD 0510, tlks, regional vocals, p, //15075 (Witham HI 6/9)
- 17840 **CANADA BBC** relay Sackville in EG 1700, promo, ID, pips, TC, world nx, g (McGuire MD 7/10)
- 17870 **SOUTH AFRICA Channel Africa** in EG 1802, nx, ID, field report on Congo, f-g (Brouillette IL 6/6)
- 18960 **SWEDEN R Sweden** in EG 1148, Media Scan, int'l cable/satellite show in London (Fraser MA 6/20)
- 21570 **SPAIN RE Espana** Noblejas in SP 1635, discussion on vacations in Spain, f (Fair VENEZUELA 7/8)
- 21605 **UNITED ARAB EMIRATES R Dubai** in EG 1610, tlk on Mideast culture, Arab literature, ID 1615, lite instrumental mx, nx headlines, into AR 1634, f (Fair VENEZUELA 7/8)
- 21660 **THAILAND BBC** relay Nakhon Sawan in EG \*0257, IS, ID, pips, nx bulletins, health tlk (Moats 6/21)
- 21715 **TURKEY V of Turkey** in EG \*0256, IS, pips, ID, sked for EG pgming, web URL, nx bulletins on Cyprus controversy, Chechnyan conflict, Washington state wildfires, f-p, //11655 (Moats OH 7/1)
- 218149nf **COSTA RICA RFPi** in EG 2333, pgm from the UN on global women's issues rptd by a YL, new freq for Radio for Peace International with fine signal but some slow fades (Costello NJ 7/19) NOTE: Whenever the designation "nf" is used it means that the particular station is not listed in either the World Radio & TV Handbook 2000 or the Passport to World Radio 2000. Thus, some of the loggings marked "nf" may have been new frequencies for some time and not necessarily new only since the most recent issue of the Journal.

# International Band Loggings

5901-30000 kHz

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

- 5900 **BULGARIA R Bulgaria** in RS 0220, nx re Bulgaria, tlks, ID, IS, p (Fair VENEZUELA 6/25)  
61348 **BOLIVIA R Santa Cruz** in SP 2350, sports nx, ID "...R Santa Cruz", f (Fair VENEZUELA 6/18)  
6150 **SINGAPORE R Corp of Singapore** in EG 2310, nx, wx, ads, ID's, relay FM 90.5 (Fair VENEZ 6/18)  
64585 **USA AFRTS Key West, FL** in EG 0350, USB feeder with pgm on education in USA (Linonis PA 7/2)  
64797 **PERU R Altura** in SP 0203, Andean mx, mostly guitar, ID, heavy QRM, p (Montgomery PA 6/6)  
65358 **PERU R Dif Huancabamba** in SP 0135, ID, Andean mx, great sfx with echos, reverb, oldies, some SSB QRM from air traffic, not on every nite (Montgomery PA 6/6)  
66729nf **PERU R Andina** in SP 0030, mx, comunicados, ments of Huancabamba, nice ID 0047, trnx to Jay Novello and Mark Veldhuis for tip (Brandi NJ 7/11)  
6895nf **ISRAEL Galei Zahal** in HB 0200, ID(p), mostly US pops, nx(?) 0200, jamming (Montgomery PA 7/1)  
69567 **PERU R LV de Campesino** Huarmaca in SP 0036, Andean vcls, tlks, ID, f (Kohlbrener PA 7/2)  
6970 **COSTA RICA RFPF** in EG 0625, "the Progressive News Net", ID, into GM 0630, f (Witham HI 6/9)  
70848 **AFGHANISTAN R VO Shari'ah** Kabul in Urdu 1640, prayers, tlks, p (Witham HI 6/24) ED: listed as transmitting daily in various languages from 1430-1715.  
7110 **ETHIOPIA R Ethiopia** Addis Ababa in Amharic(p) 0310, bits of mx, //97042 (Brandi NJ 6/27)  
7160 **ALBANIA R Tirana** in EG 0145, IS, ID, fqy, sked, economic nx, p (McGuire MD 6/18)  
7230 **PHILIPPINES R Liberty** relay Tinang in RS 2038, nx, taped rpt, voice overs, f (Humenyk ONT 6/8)  
7325 **RUSSIA VOR** relay Armavir in AR 1645, tlks over mx, ment Rossii, IS, //9835, f (Witham HI 6/24)  
7345 **RUSSIA R Free Chechnya** Moscow in RS 1650, tlk, mx, hrd under China, //12045 (Witham HI 6/24)  
8450nf **CHINA V of Russia** relay in EG 1710, "Moscow Mailbag", nx of Russia, p, //9820 (Witham HI 6/17)  
9400 **BULGARIA R Bulgaria** in BG/FR 0045, pop mx, IS, ID, into FR with nx, g (McGuire MD 6/18)  
9405nf **GERMANY Fritz Love Radio 2000** via Juelich relay in EG 2355, spec bcst from July 7-9 by ORB youth program in federal state of Brandenburg, pgm of techno mx, sked, much RTTY QRM, //9525 after 0000 (Brandi NJ 7/7) ED: Also rptd in CUMBRE DX bulletin by several reporters in GM lang 0300-0600 all on July 8.  
9420 **GREECE V O Greece** in GK/EG 0157, GK mx, ID, rpt on Portugal, ment Euro Union (McGuire 6/19)  
9525nf **GERMANY Fritz Love Radio 2000** via Juelich relay in GM 0007, sw sked, techno mx, ID, nx w/itmt abt "techno fever", //9405 (Brandi NJ 7/8) ED: See added comments above under 9405 listing  
9570 **ROMANIA RRI** Bucharest in EG 0200, ID, fqy, sked, nx, ment Iraq and N. Ireland, g (McGuire 7/3)  
9570 **CUBA China R Int** relay in EG 0100, IS, ID, world nx, rpt on Barak, ment N. Korea (McGuire 7/11)  
9615 **BRAZIL R Cultura** in PT 0035, PT pop mx, ballads, full ID 0103, fqy, QTH (Kohlbrener PA 6/25)  
9640 **VENEZUELA Ecos del Torbes** in SP 1450, SP pop mx, ID 1500, fqys, feature pgm (Fair VENEZ 7/1)  
9655 **AUSTRIA RAI** Vienna in FR/GM 0045, nx, ID's, waltz, fqy, sked, into GM 0100, g (McGuire 7/12)  
9675nf **UNITED KINGDOM African Beacon** relay Rampisham in EG 2020, OM preaching, gospel singing, weak sig barely readable (Witham HI 6/10)  
9675 **PAPUA NEW GUINEA NBC** Port Moresby in EG 0933, tlks re villages and lcl road system, gave phone #'s to rpt pot holes, mx, ancmts, city-wide cleanup volunteers requested before independence day two months hence, interesting insights to local affairs in PNG, f (Montgomery PA 6/24)  
9755 **CANADA R Monte Carlo** relay in AR 0300, rpt on peace tlks, Albright/Barak, ID (McGuire MD 6/28)  
9795nf **CANADA V of Vietnam** in VT 0405, nat'l nx, interview, ID, g (McGuire MD 6/30, Witham HI 6/9)  
9885 **SWITZERLAND SRI** Sottens in EG/SP 0127, mx, QTH, ID, bumper mx, into SP w/nx 0130, mention of King Juan Carlos, //9905 (McGuire MD 6/20)  
9970nf **BELGIUM RTBF** Brussels in FR 0555, tlks, mx, ID, fax QRM, p, //17580 (Witham HI 6/15)  
11610nf **SEYCHELLES FEBA** in Farsi 0225, QTH in Larnaca given in EG, IS, abruptly off (Brandi NJ 6/27)  
11730 **NETHERLANDS RN Flevo** in DT 0130, chimes, ID, fqy, sked, political nx, g (McGuire PA 6/28)  
11945 **GERMANY Deut Welle** Nauen in EG 0200, IS, ID, nx, rpt on Korean summit, p (McGuire 6/18)  
11995nf **FINLAND R Finland** in FN 0015\*, nx, ID "...Suomalainen Radio" (Brouillette IL 7/3) ED: This is a daily transmission only 15 minutes long from 0000-0015.  
12085 **MONGOLIA V of M** Ulan Bator in EG 1030, fqy, sked, no nx hrd, poor audio (Montgomery PA 7/1)  
13640nf **TURKEY V of Turkey** Ankara in EG 2240, "Turkey—a haven for tourists", pop mx (Fraser MA 6/20)

# Tropical Band Loggings

Sheryl Paszkiewicz • 314 Riverview Drive, Apt 16 • Manitowoc, WI 54220 • spasz@dataplusnet.com

- 2310 AUSTRALIA CAAMA R 7/4 1114 EG pops, f-p (Line-KS)  
 2325 AUSTRALIA CAAMA R 7/4 1115 EG pops, vy poor (Line-KS)  
 2410 NEW GUINEA R Enga 6/28 1050 man in lang, poor (Line-KS)  
 2485 AUSTRALIA CAAMA R 7/4 1116 EG pops, vy poor (Line-KS)  
 3205 NEW GUINEA R Sandaun 7/4 1056 man in lang f-g (Line-KS)  
 3220 PAPUA R Morobe 7/3 1052 man in lang, local mx (Line-KS)  
 3235 NEW BRITAIN RWNB 7/4 1056 man in lang under ute (Line-KS)  
 3260 NEW GUINEA R Madang 7/4 1054 local mx, fair (Line-KS)  
 3265 SULAWESI RRI Gorontalo 7/3 1051 woman in IN, poor (Line-KS)  
 3275 PAPUA R S Highlands 7/4 1054 man in lang, fair (Line-KS)  
 3315 ADMIRALTY ISL R Manus 7/4 1051 woman in lang, pops (Line-KS)  
 3325 BOUGAINVILLE R Bougainville 7/4 1050 woman in lang (Line-KS)  
 3335 NEW GUINEA R E Sepik 7/4 1050 woman in lang (Line-KS)  
 3345 MOLUCCAS RRI Ternate 7/4 1050 woman in IN, p-f (Line-KS)  
 3355 NEW GUINEA R Simbu 7/4 1048 local mx, poor (Line-KS)  
 3365 NEW GUINEA R Milne Bay 7/4 1048 man in lang (Line-KS)  
 3366 GHANA GBC 7/8 2350 EG headlines, Afr mx, ID, NA (Fair-VEN)  
 3385 NEW BRITAIN RENB 7/4 1042 man in lang (Line-KS)  
 3395 NEW GUINEA R E Highlands 6/28 1044 pops, man in lang (Line-KS)  
 3905 NEW IRELAND R New Ireland 7/4 1041 pops, lang talk (Line-KS)  
 3976.1 KALIMANTAN RRI Pontianak 7/4 1110 woman in IN (Line-KS)  
 4000.1 SULAWESI RRI Kendari 7/4 1109 woman in IN, fair (Line-KS)  
 4463.6 PERU R Norandina 6/28 0145 ads, sfx, Andean mx, ID (Fair-VEN)  
 4471.7 BOLIVIA R Movima 6/19 0055 SP ballads, ID (Fair-VEN)  
 4515.5 PERU R Amistad 7/2 2350 Andean mx, ads, ID (Fair-VEN)  
 4534.2 PERU R Horizonte 6/28 0030 tlk, jingles, ID, booming in (Fair)  
 4606.5 IRIAN JAYA RRI Serui 7/4 1108 IN pops, poor (Line-KS)  
 4716.8 BOLIVIA R Yura 7/1 1030 Quechua pgm, rustic folklore, ID (TIN)  
 4753.3 SULAWESI RRI Makassar 7/4 1108 woman in IN, good (Line-KS)  
 4755 BRAZIL R Educ Rural 6/6 0200 mellow ballads, echo ID (Brou-MI)  
 4775 SWAZILAND TWR 7/9 0429 GM talk & mx, weak (Will-NC)  
 4783 MALI R Malienne 6/19 2330 FR Afr mx, ID, abrupt off (Fair-VEN)  
 4789 IRIAN JAYA RRI Fak-Fak 7/4 1108 IN pops, poor (Line-KS)  
 4800 GUATEMALA R Buenas Nuevas 7/9 0140 SP talk & mx (Will-NC) 7/9 0230 ID & s/off (Fair-VEN)  
 4801.2 ECUADOR R Oriental 6/18 1058 Father's Day greetings, tech diff which anncr unaware of (TIN-JP)  
 \*4801.4 BOLIVIA R Mamore 6/28 0040 tropical ballads, 0109\* 2350 talk, ads, drifting. Finally ID'd (Fair-VEN) Congrats!-sp  
 4820 HONDURAS LV Evangelica 6/12 0135 SP talk & mx (Will-NC)  
 4835 GUATEMALA R Tezulutlan 6/13 0151 SP talk & mx (Will-NC)  
 4845 GUATEMALA R Kekchi 7/6 0030 SP/lang (Lino-PA)  
 4845 MOLUCCAS RRI Ambon 6/22 1059 IN pops, talk (Line-KS)  
 4865 BRAZIL Verdes Florestas 7/4 0135 ballads, anmts, ID (Fair-VEN)  
 4875 IRIAN JAYA RRI Sorong 6/28 1055 woman in IN (Line-KS)

- 4890 **PAPUA Karai Natl R** 7/4 1056 man in lang (Line-KS) 6/15 1042 talk by OM (Will-NC) 6/8 1306 EG local pop mx (Brou-MI)
- 4904.8 **PERU R La Oroya** 7/8 1113 "Feliz Amanacer" pgm, full ID (TIN-JP)
- 4914.8 **PERU R CORA** 7/8 1024 ad, cmtry, NA, ID (TIN-JP)
- 4915 **BRAZIL R CBN** 7/6 0035 mx, sev Ids, vy good (Lino-PA)
- 4915 **GHANA GBC-1** 6/30 2335 EG mx, nx (Will-NC)
- 4926.4 **BOLIVIA R San Miguel** 6/19 0120 tropical mx, ID (Fair-VEN)
- 4945t **BOLIVIA R Illimani** 7/6 0100 noisy, ment Bolivia (Lino-PA)
- 4955 **COLOMBIA R Nacional** LA mx, fair (Will-NC)
- 4960 **VANUATU R Vanuatu** 7/4 1106 local mx, poor (Line-KS)
- 4965 **UNID** 6/6 0202 EG? US pops, soul, DJ unintelligible (Brou-MI)
- 4976 **UGANDA R Uganda** 6/27 0317 Congolese style guitar mx (Bran-NJ)
- 4980 **VENEZUELA Ecos del Torbes** 6/11 0335 SP talk (Will-NC)
- 5009.6 **MADAGASCAR R Madagasikara** 6/8 \*0255 Malagasy IS, anmts (Brou)
- 5010 **INDIA AIR Thiru.** 7/1 0020 Vande Mataram, nx in couple langs, ID, nx, mx (Bran-NJ)
- 5020 **SOLOMON ISL SIBC** 7/4 1103\* local mx, lang/EG, GSTQ (Line-KS) 6/8 1302\* EG emergency info for evac. Madonna mx (Brou-MI)
- 5060 **ECUADOR R Nacional Progreso** 7/6 0100 ID, fadey (Lino-PA)
- 5470.8 **PERU R San Nicolas** 7/8 1121 cumbia andina (TIN-JP)
- 5500 **ETHIOPIA Vo Peace** 7/7 0314 IS, Ids, Tigrigna lang pres (Bran)
- 5678 **PERU R Ilucan** 6/17 1114 "Canto a Cutervo" pgm (TIN-JP)
- 5855.6 **PERU R Univision 2000** I note is similar to R Univision Satelite from Nueva Cajamarca & this operates on freq close to R Nueva Cajamarca. I think these 3 stns are related (TIN-JP)




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**WORLD OF RADIO AND CONTINENT OF MEDIA  
SHORTWAVE-ONLY SCHEDULE AS OF JULY 27, 2000**

Days and times strictly UT. RFPI announced July 17 that 6970 would be off the air up to three weeks for repairs and maintenance, but that 15049 would be on the air 24 hours. This schedule reflects that temporary situation. But July 18, USB returned on 21815, nominally 1200-0400! When 6970 return, it will presumably operate 0000-0800 (weekends -1200) as before, and 15049 cease 24 hour operation.

Wed 2330 WOR WBCQ1 7415  
Thu 0930 COM RFPI 15049  
Thu 2030 WOR WWCR 15685  
Fri 0930 WOR WWCR 7435  
Fri 1900 COM RFPI 15049 21815-USB  
Fri 1930 WOR RFPI 15049 21815-USB  
Fri 2030 WOR WBCQ2 9330-CUSB [irregular]  
Sat 0300 COM RFPI 15049 21815-USB  
Sat 0330 WOR RFPI 15049 21815-USB  
Sat 0300 WOR WWCR 3215  
Sat 1100 COM RFPI 15049  
Sat 1130 WOR RFPI 15049  
Sat 1130 WOR WWCR 15685  
Sat 1730 COM RFPI 15049 21815-USB  
Sat 1800 WOR RFPI 15049 21815-USB  
Sun 0130 COM RFPI 15049 21815-USB  
Sun 0200 WOR RFPI 15049 21815-USB  
Sun 0230 WOR WWCR 5070  
Sun 0628 WOR WWCR 5070  
Sun 0930 COM RFPI 15049  
Sun 1000 WOR RFPI 15049 21815-USB  
Sun 2300 WOR RFPI 15049 21815-USB  
Mon 0026 WOR WWCR 9475 [may shift to Sun 2330\*]  
Mon 0501 WOR WWCR 3210  
Mon 0700 WOR RFPI 15049  
Mon 1500 WOR RFPI 15049 21815-USB  
Tue 1100 WOR WWCR 15685  
Tue 1900 WOR RFPI 15049 21815-USB  
Tue 2000 COM RFPI 15049 21815-USB  
Wed 0300 WOR RFPI 15049 21815-USB  
Wed 0400 COM RFPI 15049  
Wed 1100 WOR RFPI 15049  
Wed 1200 COM RFPI 15049 21815-USB  
Wed 1730 COM RFPI 15049 21815-USB

\*This change continues to be pending, and could occur at any time.  
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