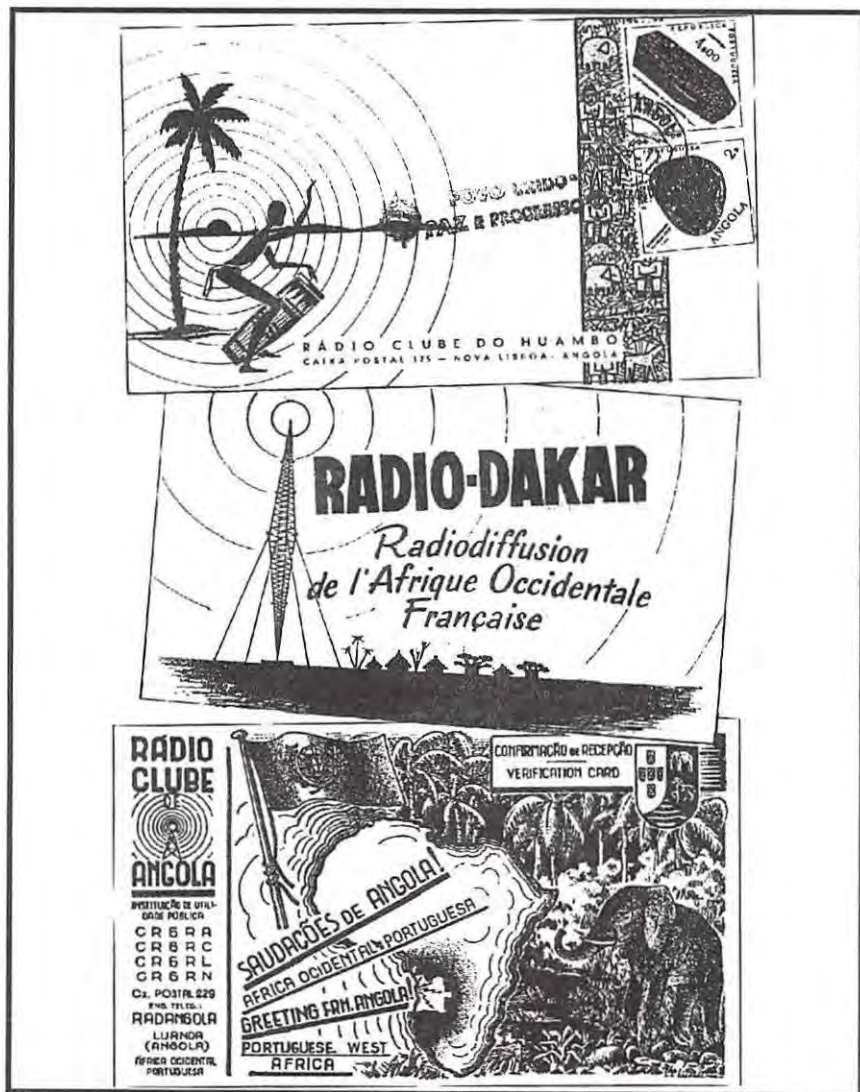


The **NASA** Journal

VOLUME XLIII NUMBER 7

JULY 2003



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The Kenwood SP-31 is a high quality speaker with audio filtration that may be used with virtually any communications receiver or transceiver. The SP-31 features a 4 inch (10 cm) speaker in a metal enclosure. The switch in the upper right corner can select from two audio input sources. The three switches on the lower right activate two high (HIGH 1, HIGH 2) cut and one low (LOW) cut audio filters. This allows you to tailor the frequency response of the speaker system. This speaker also has a standard 1/4 inch headphone jack on the front panel and a Line Output Jack on the back panel (to feed a recorder, RITTY unit, etc.). These convenient output jacks are post filtration. The input posts are spring terminals. An audio cable to 3.5mm mini plug is provided. The front may be elevated by adjusting the front feet. 7.2x4.7x12.3"



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Computer based receivers have traditionally been about compromise, especially on shortwave. The Ten-Tec RX-320 broke that mold, providing exceptional HF performance. It employed true digital signal processing technology at the IF level to reduce the number of individual electronic components but yet provide features of far more expensive radios. The new RX-320D is capable of receiving DRM digital broadcasts with extra software (not supplied) and appropriate sound card. The Digital Radio Mondiale Consortium (DRM) was formed in 1998 when a group of pioneering broadcasters and manufacturers joined forces to create a universal, digital system for the AM broadcasting bands below 30 MHz. Since then, DRM has expanded into an international consortium of more than 70 broadcasters, manufacturers, network operators, research institutions, broadcasting unions and regulatory bodies. DRM is the world's only nonproprietary, digital system for shortwave, AM and LW providing near-FM quality sound. This new D model has a 12 kHz I-F output jack on the back panel that allows received signals to be streamed from the I-F directly to your computer's sound card for Digital Radio Mondiale decoding. This special decoding software is only available (for 60 Euros, about \$60.00) through the DRM consortium via the DRM Software Radio web site located at www.drmm.org. It is not available through Ten-Tec or Universal Radio. As with the original DX-320; you can enjoy selecting any live filters from 34 built into the radio (25 choices from 1050-8000 Hz and 9 from 300-900 Hz, all with 1.5:1 shape factor or better). A spectrum display function is also supported. Memories store frequency, mode, filter, BFO, name, comments, notes. A local-time, world-time (UTC) clock is continuously displayed. This stand-alone, black box PC radio only requires access to a serial port and one megabyte of free hard drive space for the software. It runs either Windows® 3.1 or Windows® 95/98. As with most Windows programs you can launch the PC radio, tune to an interesting station, and then put it in the background while your PC performs other tasks. You can even surf the web and tune the world at the same time. The line output can drive a computer sound card plus there is an external speaker jack (speaker not supplied). The RX-320 features a telescopic antenna or there is an RCA type antenna jack for an external antenna (recommended). With informative owner's manual written by noted author Joe Carr. This high-tech American-made product is a great value. We invite you to visit our website for more information the RX-320, Digital Radio Mondiale or upgrading the earlier RX-320 to RX-320D.

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WL500

The AOR WL500 acts like a signal magnet capturing and amplifying shortwave transmissions in the 3.5 to 30 MHz range. If you add the optional 500LM bar element, you can extend reception to include long wave and medium wave. Up to 16dB of gain (with an IP³ of +14.5 dBm) can be realized. With a diameter of about 2 feet, the diamond-shaped antenna can hang freely in a window. Assembly is simple. Connection to your receiver, via the metal control box, is achieved through a standard BNC connector (a BNC to BNC coaxial jumper cable is included). Disassembly is also easy, so this antenna is ready to travel wherever you go. The WL500 requires a 12 VDC 150 ma power supply (optional) or 9 volt battery.



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NASWA Notes

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

Don't forget to pick up your electronic copy of the Danish Shortwave Club International (DSWCI) recently released *Domestic Broadcasting Survey 5 (DBS-5)* edited by well-known DXer **Anker Petersen**. It is available only by e-mail in pdf-format. The latest offering of the DBS is highly accurate and has proved to be a valuable resource while DXing. See June's *Shortwave Center* for a comprehensive review of the excellent DBS-5. Copies can be obtained for US\$5.00, Euro 5 or 7 International Reply Coupons from DSWCI, c/o Bent Nielsen, Egekrogen 14, DK 3500 Vaerloese, Denmark.

Speaking of the DSWCI, **Anker Petersen** mentioned that twenty-one people took part in the successful DX Camp and Annual General Meeting (AGM) at Vejers Beach in May. Members from Finland, Sweden, Denmark, Germany and Italy attended. The Secretary General **Luigi Cobisi** of the European DX Council was present. Although the gang experienced somewhat noisy atmospheric conditions they still heard a lot of great DX. The club's next DX Camp and AGM is scheduled for 4-6 June 2004 at the same location.

Just around the corner is the **Valley Forge Hamfest and Computer Fair** that will be held rain or shine at the Fire Company Fairgrounds in Kimberton, PA (Route 113—south of the Intersection with Route 23) on July 13, 2003. Admission is just \$6.00 with tables both inside and outside. Further information can be obtained at the website: www.marc-radio.org/hamfest.html or by writing MARC, P. O. Box 2154, Southeastern, PA 19399. Stop by and visit with **Ed Mauger** and **Dan Cashin** who will be manning the NASWA Table.

Although a good size chunk of the summer has past, there are still some good opportu-

nities to catch a hobby-related event. The **European DX Council's** annual conference in Konigstein, Germany with DXers and radio station personnel from all over Europe and abroad is scheduled for 15-17 August 2003. Join the **National Radio Club** at the Holiday Inn Select DFW in Irving, Texas for its annual convention on 29-31 August 2003. The host committee, **John Callarman**, **Bill Hale** and **Wally Wawre**, have arranged rates of \$69.00 per night (1-800-360-2242) with a convention registration fee of just \$45.00. The **Ontario DX Association's** annual convention, "RadioFest 2003", will be held on 19-21 September 2003 at the Monte Carlo Inn in Oakville, Ontario, Canada. For more information, contact **Harold Sellers** at 905-853-3518/email: listeningin@rogers.com or **Brian Smith** at am740@rogers.com or by mail at: Ontario DX Association, Box 161, Willowdale Stn. A, Toronto, Ontario, Canada M2N 5S8. Finally, the **National Radio Club** convention on 29-31 August 2003 is something that medium wave listeners will greatly appreciate attending. Monitor the *Calendar of Events* for additional details and further updates.

As the prime DX season winds down, remember there is still a lot of DX out there to chase. The best place to catch up with that DX is the electronic *Flashsheet* edited by **Sheryl Paszkiewicz**, spasz@dataplusnet.com or P.O. Box 716 Manitowoc, WI 54221-0152. Each week the electronic Flashsheet brings a lot of exciting DX to members including breaking news such as the FCC Notice of Inquiry in early May. Our electronic newsletter continues to be an excellent supplement to the monthly *Journal* for the timely dissemination of DX loggings and breaking news. This is a service that is only available to members. Deadlines are posted in the *NASWA Flashsheet* each week. If you are a current

OUR MOTTO IS - "UNITY AND FRIENDSHIP"

member of the club and want to receive the electronic *NASWA Flashsheet* just drop Rich D'Angelo (rdangelo3@aol.com) a note with your e-mail address, location and membership expiration date from your mailing label.

Remember to please direct all communications about subscriptions, bulletin delivery issues, the use of PayPal as a payment

method, etc. to Bill Oliver at the club's Levittown address or to his electronic address, weoliver@comcast.net. The regular postal address is the familiar 45 Wildflower Road, Levittown, PA 19057. Inquires sent directly to me in Wyomissing only slow down the process. Thanks!

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

FRENDX: Twenty Five Years Ago (July 1978)

Dave Walcutt stepped in as the new Distributing Editor for the *Log Report* replacing Greg Ravenhorst. Dave continued as *Log Report D* editor. The 36-page *NASWA Directory* was sent to the printers. A new *Country List and Awards Program* booklet was also sent to the printer. In the *Shortwave Center*, Harry Helms wrote about "How the FCC Caught a Pirate" while Kenneth Duke did a comparison test between the Drake R-4c and the MacKay Marine 3010-c receivers. Dan Sheedy proposed establishing a telephone DX Hotline and Larry Brookwell provided more observations on the Panasonic RF-4800 with comparisons to the Drake SPR-4. Ed Insinger wrote about his trials and tribulations to obtain an elusive QSL from Radio Pakistan. Sam Barto noted 102 countries reported in the *QSL Report* column. Dan Robinson and Nick Pappas were appointed to represent the club at the Montreal ANARC Convention at the headquarters of Radio Canada on 14-16 July. In Bill Oliver's *Publishers Page* it was noted that the Minnesota DX Club meets monthly and that Kim A. Elliott was the contact for further information.

Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Bob Montgomery** (Address: P O Box 1458, Levittown, PA 19058). He will forward them to the appropriate editor. Remember, Bob also distributes QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: RMonty23@netzero.net. Please note, this is a **new e-mail address**. The AT&T e-mail address has been discontinued.

On the Short Waves by Jerry Berg

<www.ontheshortwaves.com> Update, June 22, 2003—Under "Articles, Research, etc.," "Full-Text Articles," the story of WUMS, which was one of the longest operating pirates, usually heard on the broadcast band. This article appears courtesy of Popular Communications <<http://www.popular-communications.com/>> The accompanying 1948 WUMS QSL is from the Committee to Preserve Radio Verifications. (*More On the Short Waves on the Contributors page.*)

N4S46b

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

Calendar Of Events

- Jul 13 Hamfest.** The **Valley Forge Hamfest and Computer Fair** will be held rain or shine at the Fire Company Fairgrounds in Kimberton, PA (Route 113 - South of the Intersection with Route 23) on July 13, 2003. Admission is \$6.00. Stop by the visit Ed Mauger and Dan Cashin at the NASWA Table. Further information can be obtained at the website: www.marc-radio.org/hamfest.html or by writing MARC, P. O. Box 2154, Southeastern, PA 19399.
- Jul 18 Meeting.** **Philadelphia Area NASWA Chapter.** Kulpville Holiday Inn, Kulpville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcscpk@aol.com.
- Jul 18 Meeting.** **Boston Area NASWA Chapter.** The Boston Area DXers have found a new location for meetings. Inquiries about the BADXers may be sent to Paul Graveline at 978-470-1971 or Internet: ctreditor@aol.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>
- Aug 9 Meeting.** **The Cincinnati/Dayton Monitoring Exchange (MONIX)** meets at the Lebanon Citizens' National Bank (LCNB), 425 West Central Avenue (Ohio 73), Springboro, Ohio at 7:00 PM. For more information contact Mark Meece at 937-743-8089 or e-mail at radiuscan@siscom.net. For additional information about MONIX, check out their web site at <http://www.siscom.net/~mmeece/monix.html>
- Aug 15-17, 2003 Convention.** The Rhein-Main-Radio-Club will host the 2003 **European DX Council Conference** in Konigstein, which is near Frankfurt, Germany area on 15-17 August 2003. This year's conference will concentrate on the future of the hobby as well as shortwave, tropical bands, FM-DX and Free Radio. Further information can be obtained electronically from Harald Gabler (DrGabler@t-online.de).
- Aug 29-31, 2003 Convention.** The **National Radio Club** will hold its annual convention celebrating its 70th year of operation on Labor Day Weekend, 29-31 August 2003 at the Holiday Inn Select DFW in Irving, Texas. Rates are \$69.00 per night (1-800-360-2242). Convention registration is \$45.00. The host committee consists of John Callarman, Bill Hale and Wally Wawre. Further information is available from Wally at +1 (214) 977-6260 or at wwawro@wfaa.com.
- Sep 19-21, 2003 Convention.** The **Ontario DX Association** will hold **RadioFest 2003** on 19-21 September 2003 at the Monte Carlo Inn, 374 South Service Rd. E., Oakville, Ontario, Canada L6J 2X6 (Tel: (905) 849-9500, Fax: (905) 849-6405, E-mail: reservation@montecarloinns.com and Web Site: <http://www.montecarloinns.com/oak.htm>). For more information, contact Harold Sellers at 905-853-3518/email: listeningin@rogers.com or Brian Smith at am740@rogers.com or by mail at: Ontario DX Association, Box 161, Willowdale Stn. A, Toronto, Ontario, Canada M2N 5S8
- Sep 2003 Contest.** 2003 **Adventist World Radio "Wavescan" DX contest** is scheduled to run during the month of September. Listeners will be asked to submit a list of unique QSLs (QSLs that you own that you consider no one else in the world has). Once in a lifetime frequency usage, emergency broadcasts, emergency transmitters, transmitter on wrong frequency, mistaken frequency entry, harmonic radiations, etc, etc? Full details to follow later in 2003.
- Mar 12-13, 2004 Convention.** The 17th **Annual Winter SWL Festival**, sponsored by NASWA, will be held at the *Best Western—The Inn at Towamencin* (Kulpville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 12th and 13th March 2004. 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) or Ralph Brandi (Internet: ralph@brandi.org).

Musings

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

Woody Seymour, Jr. <wseymour@mindspring.com>, P.O. Box 848, Sanford, NC 27331

HCJB is still broadcasting in English from Quito-1100-1300 UTC daily on 15115 and 21455. The only locally produced program is DX Party Line Saturday at 1230 UTC. I think that it is important to write them and encourage this broadcast. If they get enough positive feedback, perhaps there will be an expansion. At the very least, it will be nice to keep on hearing DXPL.

73, Woody Seymour, Jr.

Martin Gallas <martin@csj.net>, 125 Pine Street, Jacksonville, IL 62650

I just received my *NASWA Journal* with the news of the FCC's plans to wipe out SW reception with BPL. I have written my letter to the FCC and in addition to noting the consequences for SWLs, I mentioned how it would wipe out ham radio at a time when homeland concerns would seem to dictate that we maintain radio amateurs as a vital part of the communications network in case of natural or man-made disaster. I think this point should resonate with our conservative buddies in Washington.

Thanks for including this important matter in the Journal.

Best wishes, Martin

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

Anybody see my letter carrier? It's been too many weeks since I have seen a new QSL arrive at my location. Even the Internet route has dried up, hopefully only on a temporary basis. I've spent the last few weeks sending out some new reports and a couple of follow up reports so maybe positive news will flow from recent activity. Nevertheless, to not see a verification response in six weeks is a long dry spell.

Summer reception conditions are present. Much too much daylight for hardcore tropical band DXing activity but I have been hearing some stuff nevertheless. Mornings are a bust because it is light out at 0500 local, 0900 UTC. However, evening after 0200 UTC have been reasonably productive for me this time of the year. Nevertheless, I am looking forward to fall DX conditions and the first French Creek DXpedition later this year.

By the way, if anyone should see my letter carrier, please remind him where I live. Thanks!

73, Rich

Listeners' Notebook does not appear this month due to unforeseen work commitments on column editor Al Quaglieri. LN will return next month.

Easy Listening

Richard D. Cuff • 42 North 37th Street • Allentown, PA 18104 • rdcuff@mochamail.com

HCJB drops evening release to the Americas

I expect everyone is aware of HCJB's decision to deemphasize English language broadcasting to the Americas. The reasons appear to be strategically sound, though unfortunate, based primarily on changes in the role HCJB wishes to have in broadcast evangelism within Ecuador and worldwide. This decision is, in part, catalyzed by the need for HCJB to abandon its current Ecuador transmitter location (near the town of Pifo) for Quito's eventual airport expansion. HCJB had originally planned to develop a new Ecuador transmitter site, but has dropped those plans; HCJB will be focusing increasingly on evangelism targeting Asia via new transmitter facilities in Australia.

While many of HCJB's traditional North American evening programs have ended, *DX Partyline* remains—but is now aired to the Americas Saturdays 1230 UTC on 15115 kHz. HCJB airs from Kununurra, Australia to the South Pacific at 0930 UTC Saturdays, and to Asia at 1430 UTC Saturdays.

Meanwhile, WINB out of Red Lion, PA—oldest continuously operating private broadcaster with the same callsign, dating from 1962, is now airing *DX Partyline*, Glenn Hauser's *World of Radio*, and AWR's *Wavescan* in a new DX block Sundays at 0000 UTC on 12160 kHz.

Unfortunately, my QTH of Allentown, PA is too close to WINB to be able to hear it, so I'll have to seek other alternatives. I've mentioned this to DXPL's Allen Graham, and he's aware of the need for shortwave alternatives. All three of these radio-oriented programs are available as on-demand webcasts, so there are listening alternatives for those so equipped. Check out their webcast archives as follows:

DX Partyline—<http://www.hcjb.org/dxplaudio.php>

World of Radio—<http://www.worldofradio.com/audiomid.html>

Wavescan—<http://english.awr.org/wavescan/>

Radio Australia—*Feedback*, other suggestions

I know I've pleaded in this space for *Radio Australia* to add the capability for on-demand archival of their radio/communications program, *Feedback*. *Feedback* is described as "...your window on Radio Australia—its programming, its people and how it is meeting the challenges of a rapidly changing international broadcasting landscape." Host Roger Broadbent hosts, and the program often includes other interesting segments on communication—from a personal perspective—in occasional segments on the quirks of the English language. The language segment doesn't just cover Australian English; other idioms and nuances connected with English around the world are included. *Feedback* currently airs on shortwave Fridays 2105 UTC, Saturdays 0605 UTC, and Sundays 0305 UTC.

While *Feedback* is occasionally available on-demand from the Radio Australia website, what's new is that I've recently figured out that *Feedback* is regularly available on-demand from the World Radio Network website. Visit <http://www.wrn.org/listeners/stations/station.php?StationID=17>, and click on the Sunday 0800 UTC webcast. *Feedback* begins approximately 32 minutes into the hour-long webcast. It's updated each week at approximately 0930 UTC Sundays. *Feedback* also airs live on the WRN North American feed, available on Sirius satellite radio, at 0732 UTC Sundays. Talk about having a reason to get up early (real early!) on a Sunday.

Meanwhile, there are plenty of other reasons to tune into Radio Australia. Several of these are relatively short 15-minute gems originating from Radio National, the domestic spoken-word service from Australia's ABC. These programs include:

The Ark, a weekly program on religious subjects and other "curious moments in religious history", airing 0530 UTC Sunday, but also on-demand from Radio National (see <http://www.abc.net.au/rn/relig/ark/>)

Lingua Franca, a weekly program on language—old, new, invented—airing Fridays 2330, Saturdays 0520, and Wednesdays 0620 (see <http://www.abc.net.au/rn/arts/ling/>).

The Makers, a weekly program on the creative process in the arts, focusing on artists, musicians, directors and performers, airing Fridays 0620 (see also <http://www.abc.net.au/rn/arts/sunmorn/makers.htm>).

Ockham's Razor, a weekly one-on-one interview program relating to science, airing Saturdays 0505 and Mondays 0620 (see also <http://www.abc.net.au/rn/science/ockham/>).

Radio Australia is also airing a new Education series called **Australia Now**, a 13-part documentary series on domestic issues framed for an international audience and foreign students at university in Australia. **Australia Now**, like many other very well-produced RA education series, is co-produced by Radio Australia and Australia's Monash University. **Australia Now** is hosted by Sue Slamen and airs weekly on Wednesdays 2130 and Sundays 0830. Normally these series have well-developed websites, but this hasn't yet appeared for **Australia Now**. Instead, each week's on-demand archive can be heard via the same World Radio Network Sunday 0800 webcast as mentioned above for **Feedback**. **Australia Now** follows the news, 5 minutes into the one-hour webcast.

Radio Netherlands—Summer Change

From July 5th Radio Netherlands' interactive discussion program **Amsterdam Forum** takes a 2-month break. And while host Andy Clark is having a well-deserved holiday before launching the new season in September, two new series fill the **Amsterdam Forum** time slots of Saturdays 1100 and 1530 and Sundays 0030 and 0500, all targeting North America:

In **Sketches of the Low Lands** (running for 15 minutes), Radio Netherlands producers roam the country and paint portraits of interesting places, from the oldest Dutch pottery factory, to Amsterdam's state-of-the-art international airport and from a bustling, colorful street market to Holland's oldest museum.

The other new program is called **Second Chance** (also 15 minutes), although "new" is not the operative word here. In fact, **Second Chance** reaches into past Radio Netherlands broadcasts, playing excerpts from interviews they're sure we'll enjoy hearing, even for a second time. Among the famous and not-so-famous who are featured are scientists and musicians and writers, such as Gore Vidal and John Irving. (via RNW e-newsletter)

Radio Austria International's English Service Halved

As I mentioned in April, **Radio Austria International** is losing its separate government funding as of July 1st, and is being transferred to the domestic ÖRF service. A daily English language program will remain, but only 15 minutes long. It will still be called **Report From Austria**. The program will continue to cover the major political, social, cultural and economic developments in Austria for an international audience. As well, the weekly **Insight Central Europe** program co-produced with Radio Slovakia International, Radio Polonia, Radio Prague, and Slovenia's domestic service, and funded in part by the European Union, will be

broadcast on Saturdays (and UTC Sundays to North America) with a repeat on Sundays (and, similarly, UTC Mondays). As of presstime, the final schedule for the revised **Radio Austria International** service had not been posted, but was expected to be similar to the current schedule; I'll pass along any updates via the *NASWA Flashsheet* E-mail service.

Radio Taipei International to become Radio Taiwan International

The name change is subtle, perhaps, but appears to be an attempt by the Taiwan government to improve its visibility as a separate, sovereign state versus mainland China. The name change officially takes effect on July 1st.

Here are some upcoming program highlights:

Beginning June 17th, a new *Culture Express* series will begin. Huang Wen-ling will run a serialization of "Stretch of Green" by Pai Hsien-yung from Pai's collection of short stories *Taipei People*. The story tells of the transformation of a young woman from innocence to worldliness after a series of tragic events. Past *Culture Express* series have included "The Orphan of Asia" by Wu Chuo-liu (1900-1975) and "The Dragon Sky Tavern" by Wang Wen-hsing. *Culture Express* airs to North America Tuesdays 0215 and 0715 UTC to North America.

Beginning June 18th, *Instant Noodles* returns to the schedule. According to the RTI website, "It's delicious, and far from nutritious..." In *Instant Noodles*, Andrew Ryan looks at the wackiest news coming out of the Asia-Pacific region. Andrew is interested in wacky news from your part of the world; if your news item is silly (or stupid!) enough to use in our program, you'll receive a prize in the mail. Submissions can be sent to PO Box 24-38, Taipei, Taiwan ROC. Or send email to: androo@cbs.org.tw. *Instant Noodles* airs Wednesdays 0230 and 0730 UTC to North America.

RTI's listener contact program, *Mailbag Time*, features a segment called *Global Exchange*—

it's billed as a fun and interesting way to exchange ideas and experiences from various cultures. Every month, the hosts pose a new question to listeners, and every week they choose a few listeners' answers to read in *Mailbag Time*. These listeners will receive souvenirs from RTI and some answers will be shared in *Taipeiwave*, the English Service newsletter. Contact the program hosts via e-mail at natalie@cbs.org.tw. Here are the June and July topics: (June) What refreshing food or drink do you enjoy to cool yourself off in the summer? (July) What is your favorite summer time activity? (via Alokesh Gupta, New Delhi, India and Swopan Chakroborty, Kolkata, India, relayed via Glenn Hauser's *DX Listening Digest*; see <http://www.worldofradio.com> for Glenn's helpful shortwave e-zine.

BBC World Service highlights

Fridays, 1406 and Saturdays, 0006: *Sports International* is a regular weekly series looking at issues and personalities behind sports headlines. Two July topics include *Tough on the Tour* on July 17th and 18th, a look behind the glitz and glamour of the world men's and women's professional tennis tours; *The Art of Sport* on July 24th and 25th, looking at the close ties between sports and the arts, with particular emphasis on Hollywood's treatment of sports over the years.

Fridays, 1432 and Saturdays 0032: *John Peel* remains one of the longest-running World Service programs. He is legendary for championing innovative musical talent from around the world, and spends hours each week reviewing new vinyl, cassettes and compact discs, and he picks out a unique selection of his finds each week.

Saturdays, 1032 and 2232: *The Interview* is a new name the World Service is introducing in October for *Agenda*, the weekly interview program. On air, the new name won't happen until October, but *BBC On Air* magazine has already adopted the new name for the series. *Agenda* will take a summer break from August 2nd until October, to be replaced with *World Lives*, a 6-part series of

interviews hosted by John Inverdale. John will talk to "an eclectic mix of high profile names" about what makes them tick, with extracts of music, spoken word, etc. which have particular significance for them.

Saturdays, 0345, 1345 and 2345: *Write On*, hosted by Dilly Barlow and Penny Vine, continues to solicit listener comments, questions and criticisms regarding World Service programming. When feasible, the program producers will directly answer the listeners' questions on air. So, if you have something you'd like to say, take a shot at it! E-mail writeon@bbc.co.uk, fax +44-20-7436-2800, or write to the usual Bush House address.

Mondays, beginning July 7th, 1406, repeated Tuesdays, 0006: *Whose Justice?* is a new three-part 25-minute documentary examining various models of justice and reconciliation on the eve of the first case of the International Criminal Court. Jon Silverman visits Chile, the former Yugoslavia and Sierra Leone.

Wednesdays, beginning July 16th, 1406, repeated Thursdays 0006: *Heritage* returns to the lineup as Malcolm Billings visits Roman aqueducts and baths in search of ancient water technology. Billings also visits the site of prehistoric paintings in Lascaux, France and looks at the architectural heritage of Nicosia, Cyprus.

Wednesdays, beginning July 16th, 1545, repeated Thursdays 0145: *Faith In Fashion* is a two-part series in *Heart and Soul* looking at the links between faith and how it interacts with fashion choices, and how religious icons have become fashion items for the non-religious.

Mondays, beginning July 28th, 1406, repeated Tuesdays, 0006: *Spinning To Win* is a new three-part 25-minute documentary series looking at how governments have spun news and information to audiences at home and abroad in times of war. The program begins with World War II and ends with the recent war in Iraq. Robin Lustig, who hosts *Talking Point* and programming on the World Service and the domestic Radio 4, hosts *Spinning To Win*.

Mondays, beginning July 28th, 1432, repeated Tuesdays, 0032: *Fela Kuti—African hero* is the upcoming three-part 25-minute *Music Feature*. Kuti was considered one of the most extraordinary figures in musical history. He was a native of Nigeria and invented the "Afrobeat" music genre. He was considered as iconic as James Brown and more politically charged than Bob Marley. Kuti died of AIDS in 1997.

Non-shortwave suggestion for the month

While **Radio Telefis Eireann** sends the first half-hour of its afternoon English language news magazine to North America at 1830 UTC on 13640 kHz, and 0130 UTC on 6155 kHz, there's a lot more high quality English language programming available live and on-demand at the RTE website. See <http://www.radio1.ie/> for extensive programming information and links to live and on-demand webcasts.

That's all for now; see you next month, and don't forget to write!

73 DE Richard



WWW Shortwave Listening Guide

Looking for programs to listen to? You can find what programs are on for the current hour or list programs of a desired type on a given day at the **www Shortwave Listening Guide** on NASweb. The data is provided by *NASWA Journal* and *Monitoring Times* columnist John Figliozzi, and comes from his book, *The Worldwide Shortwave Listening Guide*. Visit the Guide at <http://www.anarc.org/naswa/swlguide/>.



Shortwave Center

Jerry Lineback • 506 South Lawrence Avenue • Scranton, KS 66537 • jalinebk@satelephone.com

DX Target: Radio Mallku The Voice of the Campesinos (Peasants)

By Richard A. D'Angelo

South America offers many opportunities for shortwave listeners to experience and enjoy local culture and tradition through the domestic shortwave broadcasting operations from these countries. That is one of the more fascinating side benefits of being a shortwave listener. A special part of this listening endeavor is hearing small regional tropical band stations, commercial or religious in nature, broadcasting programs to the *campesinos*. Radio Mallku is one of those special stations serving the Andes region in Bolivia. This DX Target will focus on Bolivia, the region surrounding the station, and Radio Mallku.

Bolivia

Bolivia, named after independence fighter Simon Bolivar, broke away from Spanish rule in 1825. A vast majority of its subsequent history has consisted of a series of almost 200 coups and counter-coups. Comparatively democratic civilian rule was established in the 1980s, but leaders have faced difficult problems of deep-seated poverty, social unrest, and drug production. Current goals include attracting foreign investment, strengthening the educational system, continuing the privatization program, and waging an anticorruption campaign.

Bolivia is a landlocked country located in Central South America that borders Argentina, Brazil, Chile, Paraguay, and Peru. It shares control of Lago Titicaca, the world's highest navigable lake (elevation 3,805 meters or 12,500 feet), with Peru. The seat of government is La Paz while Sucre is

the legal capital and seat of the judiciary. Its climate varies with altitude from humid and tropical to cold and semiarid. The terrain features the rugged Andes Mountains with a highland plateau (Altiplano), hills, and the lowland plains of the Amazon Basin. Major minerals and economic resources are tin, natural gas, petroleum, zinc, tungsten, antimony, silver, iron, lead, gold, timber and hydropower.



The country's population of 8.5 million inhabitants consists 30% of Quéchuas, 30% of mestizo (mixed white and Amerindian ancestry), 25% of Aymara, and 15% white. Bolivia has three official languages, Spanish, Quechua, and Aymara. All of these languages can be heard on various shortwave broadcasting stations in the country at one time or other.

Bolivia, long one of the poorest and least developed Latin American countries, is trying to make progress through the development of a market-oriented economy. Successes include the signing of a free trade

agreement with Mexico and becoming an associate member of the Southern Cone Common Market, as well as the privatization of the state airline, telephone company, railroad, electric power company, and oil company. Growth slowed in 1999, in part due to tight government budget policies, which limited appropriations for anti-poverty programs, and the fallout from the Asian financial crisis. In 2000, major civil disturbances in April, September and October, held down overall growth. Bolivia's economy failed to grow in 2001 due to a global and domestic slowdown of activity. Although growth is slowly picking up again, the fiscal deficit and debt burden will continue to remain high. The clearing of land for agricultural purposes and the international demand for tropical timber are contributing to deforestation in the country. Soil erosion from overgrazing and poor cultivation methods (including slash-and-burn agriculture) along with industrial pollution of water supplies used for drinking and irrigation all contribute to Bolivia's serious environmental problems.

The Station

Radio Mallku is located in Uyuni in the southern region of Bolivia near the borders of Chile and Argentina. The city of Uyuni itself is an important railroad crossing, but otherwise the area is a neglected backyard of Bolivia where people are poor and the climate is hostile. One of the most popular tourist places in Bolivia is the Salar of Uyuni, a 9,000 square kilometers (4,680 square miles) salt desert at an altitude of 3,650 meters (11,970 feet). It's the largest salt flat in the world. It was once part of a prehistoric salt lake that covered most of southwestern Bolivia. Armed with only picks and shovels, the local campesinos harvest salt from this ancient lake filled with an estimated 10 billion tons of fine salt. Situated in a semi-arid climate, the Salar has an average annual rainfall of about 10 inches. During the rainy season, from December to March, the Salar may be covered with salt water to depths of 25 centimeters, however during the dry season, the salt water evaporates.

The Uyuni region is made up of hospitable people living in a relatively cold climate of the highland region of Altiplano Sud. Until the privatization of the railroad in 1994, Uyuni was an important regional transportation center. The region is one of the poorest in all Bolivia. Consequently, many people have migrated to nearby Argentina and Chile in search of better work and living conditions.

Mallku is an indigenous word that means *cóndor*. The station was founded in late 1996 under the name of Radio Andes, but was only legalized when it received a license on 29 September 1999 after changing to its present name. Some shortwave listeners believe that the illegality of the operation from 1996 through 1999 was a major reason for the lack of verifications during this period.

Radio Andes was established and operated by Federación Regional Única de Trabajadores Campesinos del Altiplano Sud ("FRUTCAS"), which has members in five provinces in

RADIO EMISORA "MALLEU"
LA VOZ DE LOS TRABAJADORES CAMPESINOS
DEL ALTIPLANO SUD
CASILLA N° 16 TELEF. 0693 - 3145
UYUNI - B - BOLIVIA

the Department of Potosí. Aside from the mountain range, "Andes" referred to the initials of the five provinces in the area: Antonio Quijarro, Nor Lipez, Daniel Campos, Enrique Baldivieso and Sud Lipez. However, the radio authorities in La Paz wouldn't allow the station to operate under the name Radio Andes, because it closely resembled the name of another station, Radio Los Andes, a Tarija radio station, located in Mérida, Venezuela and operating on medium wave, 1040 kHz, and shortwave, 6010 kHz. The name changed in late 1999 to the current Radio Mallku.

The station is a labor union operation and orients its programming accordingly. Freddy Mamani M., who is in his early 20's, is responsible for the station's programming. Radio Mallku targets the interests of the campesinos in the southwest of the Departamento de Potosí. Education and

health programs in Spanish and Quéchua dominate the program line up. Radio Mallku also carries "Mensajes" (messages to/from family and friends) similar to many other rural Latin American stations. Music programs fill out the programming structure.

The station is a small operation with only two people employed full time with freelance and volunteers helping out. The station broadcasts just five hours of programming each day, commencing at 1000 UTC with national music. The morning schedule runs through 1200 UTC. The station returns in the evening at 2100 UTC with music and information programming until sign off around midnight UTC. Radio Mallku operates on 4,796 kHz with 1,000 watts. Naturally, being a Latin station means that precise sign on and sign off times do not exist. Think of these time periods as a *guiding principle*.

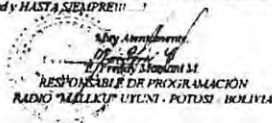
The station sporadically replies to Spanish language reception reports with adequate

return postage (us\$2.00) with a nice letter from E. Freddy Mamani M., *Responsable de Programación*. The station can be reached at:

Radio Emisora "Mallku"
La Voz de Los Trabajadores Campesinos de
Altiplano Sud
Casilla 16
Uyuni, Potosí
Bolivia

Bolivia offers shortwave listeners an opportunity to hear an exotic Latin country. Radio Mallku would make a good addition to the target list of any serious Latin American shortwave enthusiast. As always, remember to send in those exotic Radio Mallku station logs to Sheryl Paszkiewicz for the electronic *Flashsheet* and to Dan Ferguson for inclusion in the monthly *Log Report*. Also, remember to send those rare and interesting Radio Mallku verifications to Sam Barto for inclusion in the *QSL Report* column. Good luck with this DX Target.

Sin otro particular, haciendo llegar nuestros más sinceros saludos a su distinguida persona, lo saludo con la cordialidad y HASTA SIEMPRE!!!



DX Target: Radio Afrika International

A Bridge that connects Africa and Europe

By Richard A. D'Angelo

Radio Afrika International ("RAI") was founded to bring peace, democracy, development and information exchange to the African continent. It's efforts to promote better relations between the people of Africa and Europe is a founding principle of the station. The continent suffers from a restricted flow of information and, in addition, the station believes there is a distortion of news and media bias concerning the reporting of events in Africa. Consequently, RAI hopes to provide essential news and information to help the continent develop and build "a bridge that connects Africa and Europe."

This DX Target will take a quick look at the African continent and the growth and development of Radio Afrika International.

The Continent of Africa

Africa is the second largest of the seven continents, Asia is the largest continent. Africa is bounded by the Atlantic Ocean on the west, the Indian Ocean on the east, the Mediterranean Sea on the north, and the Red Sea on the northeast. It covers 11,700,000 square miles or 30,300,000 square kilometers.

Africa is home to the largest desert in the world, the Sahara. Grasslands cover much of the land, and rainforests are in western Africa near the equator. The continent's Nile River is the longest river in the world. Thousands of species of animals live in Africa and so do many different kinds of people. Its inhabitants speak over 1,000 different languages.

There are over 50 countries in Africa with territorial disputes taking place all too frequently between some of the countries. The biggest country in Africa is the Sudan, which covers 967,500 square miles or 2,505,816 square kilometers. The countries with the largest populations in Africa are Nigeria (107.0 million people), Egypt (64.8 million people), and Ethiopia (58.7 million people).

The tallest point in Africa is Mt. Kilimanjaro, in Tanzania, at 19,340 feet or 5,895 meters in height. Africa has no long mountain chains. The lowest point in Africa is Lake Assal, in Djibouti, near the Horn of Africa. It is 512 feet (156 meters) below sea level. Africa's largest lake is Lake Victoria covering 26,836 square miles or 69,500 square kilometers. Other large lakes in Africa are Lake Tanganyika, Lake Malawi, and Lake Chad. The longest river in Africa is the Nile River, which is 4,241 miles or 6,825 kilometers long. Other long rivers in Africa include the Congo River, the Niger River and the Zambezi River. Africa has many vast deserts, including the largest hot desert in the world, the Sahara. The Sahara Desert is located in northern Africa and covers 3,500,000 square miles or 9,065,000 square kilometers. The Kalahari, in southern Africa, is another large desert. The biggest island off Africa is Madagascar, which is near the coast of southeast Africa. Madagascar covers 226,658 square miles or 587,000 square kilometers. Other islands include the Seychelles, the Comoros, the Canary Islands, the Madeira Islands, the Cape Verde Islands, Equatorial Guinea, and Sao Tome.

The Station

Radio Afrika International was founded in March 1997. It was designed to be a bridge connecting Africa and Europe through the exchange of news and information. The station is a journalist project with the role of fighting against prejudices and African stereotypes on the Africa continent that the station believes are often maintained in European media. RAI's core task is to promote better relations between the African nations, Austria (home of the project), as well as the remainder of the European continent. Its themes are peace, democracy, and development and information exchange.

The station sees itself stimulating the flow of African information because such information still does not circulate well on the continent. There isn't one African media outlet capable of serving as an information conduit for the entire continent. Radio Afrika International believes that the western media monopolizes the information flow, consequently, coverage of African events is either deferred or minimized. Radio Afrika International believes the distortion of information between Europe and Africa is because of the Western media. The station believes coverage of African events is insufficient and the European and African media miss the mark in covering events on the continent. Europeans dominate broadcasting in Africa because the local infrastructure and access to technology is limited. The African press is a victim of a lack of credible information sources and political, economic and cultural constraints. It is hoped that through Radio Afrika International, western journalists will be able to contribute to the eradication of this problem that corrodes the press and the development of the African continent. Only time will tell if this formula produces results.

Radio Afrika International's programming is developed in Vienna, Austria. RAI uses the shortwave transmission facilities of

the Austrian government. The station develops programs for its African and European listeners with limited financial resources compared to other international broadcasters in reaching the African continent and Europe. African radio stations, organizations and associations recognized by their countries, present projects that Radio Afrika International broadcast. The program's aim at the promotion of the culture of peace, democracy, the rights of men and development of health, education, environment, the economy, science and technology. The individual program producers are responsible for the contents of the transmissions made on Radio Afrika International mindful of legislation and media laws in force in Austria.

Radio Afrika International broadcasts from Austria utilizing the facilities of Radio Austria International ("RÖ1") from the Broadcast Centre at Moosbrunn. This 800,000 square metre site is about 25 kilometers south of Vienna in the province of Lower Austria. There are two 100 kilowatt and one 300/500-kilowatt transmitters and rotary and directional antennas at the Broadcast Centre. Radio Afrika International is able to lease time from the 100-kilowatt facility for its programs. Currently, the station operates on 17,895 kHz from 1500 to 1600 UTC daily. The station broadcasts in German, French, English, Spanish and Portuguese. Programs consist of news, cultural features, political analysis, economic news and other features such as Focus on Africa, Politics and Economy, Sports, Exchange and Correspondence. On Sunday a special magazine feature called Radio Afrika Weekend is carried.


Shortwave listeners around the world have confused this station with U.S.A.-based Radio Africa International operated by the General Board of Global Ministries (GBGM). There is no relationship between the two stations. The GBGM launched its Radio Africa International in the late 1990's and is heard every day with English and French programs targeting youth and young adults

with news, interviews, spiritual messages, and music. They hear faith stories and news concerning the African continent, interviews with prominent Africans, and popular music from around the world. On Sundays, they hear sermons and uplifting spiritual music. There is a strong emphasis on spiritual and health issues where as Radio Afrika International has a strong focus on news and information to better life in Africa.

The various radio stations in Africa participating in the project must take a part of the expenses associated with the transmissions. However, Radio Afrika International and its partner radio stations look for subsidies to reduce the loads of the stations with low incomes. Although the station does have serious financial constraints, it does respond to electronic reception reports sent to: radio.afrikas@sil.at. Préfet Mat Mathurin Butusolua, originally from the Democratic Republic of the Congo, responded to my report in about a month. He is the moderator of the program "Correspondence and Exchange" where he reads reception reports and dedicates songs to listeners. On 4 January 2003, he dedicated a song to my family by Oumou Sangare from Mali, entitled *Dugu Kamelemba*.

Although less reliable due to the station's current financial condition, postal reception reports with return postage can be sent to the station at:

Radio Afrika International
A-1160 Wien
Heigerleinstrasse 7
Austria

As always, remember to send in those interesting Radio Afrika International logs to electronic *Flashsheet* editor Sheryl Paszkiewicz and to Wallace Tribel for the *Log Report*. Of course, those infrequently reported Radio Afrika International QSL verifications should be sent to Sam Barto for inclusion in the *QSL Report* column. Good luck with this DX Target. 

Technical Topics

Joe Buch N2JB • P.O. Box 1552 • Ocean View, DE 19970-1552 • joseph.buch@dol.net

The Next Threat To SW Listeners (And What You Can Do To Help)

[Ed note: this column was omitted from last month's Journal due to a production error. The responsible party has been flogged.]

It seems like every few years I feel obligated to warn NASWA members of a new threat to our ability to listen to shortwave radio. I remember my first Tech Topics column over a decade ago concerned the interference potential of RF excited light bulbs that GE was getting ready to market. As President Ronald Reagan said, "Well, there you go again."

The latest communications fad is a way of transmitting high data rate internet traffic over your house electrical wiring and the wires that connect your house to a nearby pole. There is a standard, developed by an industry consortium called the HomePlug Alliance, that plans to use the HF spectrum between 2 and 30 MHz for this connection. You plug your modem into a convenient power outlet. A similar modem near your service transformer picks the signals off the power line and converts them to a series of light pulses which travel via fiber optic cable to the internet interface. Because the power wiring in residential settings is unshielded, these signals will radiate and may cause interference to SW reception.

Powerline communications systems also must design around interference. We all know about power-line noise at HF. Electrically noisy motors, fluorescent lights, halogen lamps, switching power supplies, and light dimmers have long been the bane of shortwave listeners. Received data bits tend to have significant error rates due to these interference sources. The HomePlug technology uses a combination of forward error correction (FEC), interleaving, error detection, and automatic repeat request (ARQ) techniques to correct bit errors. This

technology is very similar to the methods used for reliable transmission of digital HF radio signals.

The power line distribution architecture also presents unique problems for the transmission engineer. In US neighborhoods, a distribution transformer usually provides power to a small group of homes. The distribution transformer acts as a choke at RF frequencies which effectively blocks the HomePlug signals from crossing into the main power distribution grid.

But signals from your neighbor's house are connected in parallel with your own house wiring at the secondary of the distribution transformer. So even if you do not subscribe to broadband power-line services, your neighbor's signals can radiate from your own house wiring into your antenna.

HomePlug uses orthogonal frequency division multiplexing (OFDM) as the basic transmission technique. OFDM divides the high-speed data stream to be transmitted into multiple parallel bit streams, each of which has a relatively low bit rate. Each bit stream then modulates one of a series of closely spaced carriers. In this respect the HomePlug standard is similar to the DRM standard for digital SW transmission.

The HomePlug standard uses multiple carriers between 4.5 and 21 MHz. The raw bit rate with all carriers active is 20 Mbps. The actual bit rate excluding overhead is about 14 Mbps.

Amateur radio operators are also concerned that their use of the HF spectrum will be impacted by these signals. Luckily for the hams, the presence of a 1.5 kW transmitter near the power lines will also tend to disrupt the HomePlug power line communications.

The American Radio Relay League (ARRL), representing the interests of US hams, has been working with the HomePlug Alliance for several years to quantify and mitigate the threat. Because the HomePlug Alliance recognized the threat hams posed to their technology, they worked with the ARRL to help. The compromise solution for hams is reduced HomePlug modem transmitter power in each of the currently allocated ham bands. (I am concerned that this solution will forever constrain ham band allocations at HF to what exists today if this technology is widely deployed but that's not pertinent to SWLs or this article.)

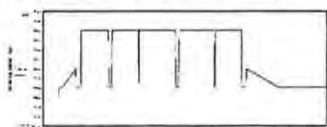


Figure 1: The HomePlug standard transmission mask places 30 dB notches in the spectrum to prevent interference to amateur radio operators. (Courtesy ARRL)

ARRL has conducted real world tests using typical residential ham radio stations. The results of those tests confirmed the threat from this technology to SWLs. These tests were conducted in December 2000. The following excerpts from the ARRL test report are used here with permission of the ARRL. W1AW is the station at ARRL headquarters in Newington, CT. The complete report is available at the ARRL web site:

<http://www.arrl.org/tis/info/HTML/plc/files/HomePlug_ARRL_Dec_2000.pdf> (all one line)

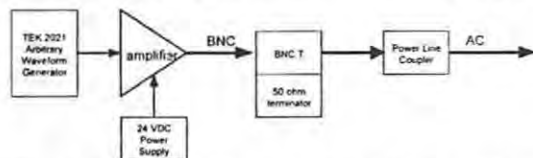


Figure 2 Test setup for simulating the effect of the HomePlug spectral characteristics on real-world receiving systems.

"A series of measurements were made using two antennas at W1AW. These results are contained in Table 1 (see next page). The

table shows the measurement frequency, a reading in dBμV with the HomePlug signal off, reading in dBμV with the HomePlug signal on, comment on audibility, and the antenna used for the measurement. All measurements were made using a quasi-peak (QP) detector and 10 kHz bandwidth."

Note that in the two SW broadcast bands measured, the interference was 3 dB above the ambient noise level at 6.54 MHz and 11 dB above ambient noise at 9.65 MHz. On 13.55 MHz the interference was less than 1 dB above the ambient level. Note that in all cases the notch suppression reduced interference inside the ham bands to less than 1 dB and barely audible subjective levels at worst.

"The second day, testing was performed at a single family dwelling, hosted by Paul Shafer, KB1BE. A quick measurement was made with the ESH2 connected to a PB5EM antenna pointed toward the house. Ambient signal level was measured at 6 dBμV QP (frequency not recorded). An increase of 2 dBμV was noted with the HomePlug signal on. (Anecdotally, a signal level of 20 dBμV was recorded when a fluorescent light in the next room was turned on.) An on/off comparison was made at 21.04 MHz. Both showed a reading of 8 dBμV, and the HomePlug signal was barely audible.

"A second set of measurements was made with a Moregain folded dipole antenna. The antenna was located on a mast approximately 40 feet high with one end approximately 10 feet from the house. The signal was injected in a basement outlet near the radio rig.

Results are shown in Table 2."

Note that at 9.68 MHz the interference was 14 dB above the ambient noise level at 10.13 MHz.

At 6.7 MHz the interference was 5 dB above the ambient noise level at 7.02 MHz. In all cases the 30 dB notch suppressed interference inside the ham bands sufficiently to make it inaudible.

Frequency	OFF signal level	ON signal level	Audibility	Antenna
3.00 MHz	20 dBµV	20 dBµV	Barely audible	dipole
3.60 MHz	30 dBµV	30 dBµV	Barely audible	dipole
6.54 MHz	25 dBµV	28 dBµV	Audible	dipole
7.10 MHz	26 dBµV	26 dBµV	Inaudible	dipole
9.65 MHz	23 dBµV	34 dBµV	Audible	dipole
10.12 MHz	14 dBµV	14 dBµV	Inaudible	dipole
13.55 MHz	20 dBµV	20 dBµV	Barely audible	Triband Yagi
14.04 MHz	25 dBµV	25 dBµV	Inaudible	Triband Yagi
18.10 MHz	19 dBµV	19 dBµV	Inaudible	Triband Yagi

Table 1. Measured Results at W1AW

Frequency	OFF signal level	ON signal level	Audibility	Comments
10.13 MHz	12 dBµV	12 dBµV	Inaudible	
9.68 MHz	NA	26 dBµV		Not a ham band
7.02 MHz	14 dBµV	14 dBµV	Inaudible	
6.7 MHz	NA	19 dBµV		Not a ham band
3.97 MHz	15 dBµV	15 dBµV	Just audible	

Table 2. Measured Results at KB1BE with Folded Dipole

"A third set of measurements was made with a sloper antenna. The antenna was mounted on the same mast as the others at a height of 45 feet. One end of the antenna was anchored to the house. It was noted after the tests that the antenna terminated less than 10 feet from the service entrance to the house. Various outlet locations were measured as noted in the results found in Table 3."

Note here that the close proximity to the house of the bottom end of the sloper permitted some interference to be registered

even in the protected ham bands. You can guess how much worse it would have been in the SW broadcast bands if measurements had been made at those frequencies.

"The afternoon of the second day, more testing was conducted at ARRL headquarters at station W1AW. The HomePlug signal was injected upstairs in the main radio equipment building with antennas located approximately 60 feet away. In a quick scan of the Ham bands, the HomePlug signal could not be detected at W1AW.

Frequency	OFF signal level	ON signal level	Audibility	Comments
3.97 MHz	12 dBµV	16 dBµV	Barely audible	
7.00 MHz	Not taken	Not taken	Inaudible	
14.00 MHz	6 dBµV	12 dBµV	Audible	Living room outlet
7.00 MHz	7 dBµV	14 dBµV	Audible	Living room outlet
7.00 MHz	NA	NA	Inaudible	Kitchen outlet (only grounded receptacle)
7.00 MHz	6 dBµV	12 dBµV	Audible	Second living room outlet
7.00 MHz	7 dBµV	14 dBµV	Audible	N.E. bedroom outlet

Table 3. Measured Results at KB1BE with Sloper Antenna

"Tests showed in general that with moderate separation of the antenna from the structure containing the HomePlug signal that interference was barely perceptible. The cases of objectionable interference were noted for the sloper antenna at KB1BE in which the antenna was physically close to the power lines. Although this location was chosen to mimic as much as possible a situation in which the HomePlug equipment is in one house and the amateur radio in another, the very close location of the antenna termination to the service entrance made this comparison impossible. It was agreed that further testing was desirable at other stations, preferably in which either the HomePlug signal could be injected in the neighbor's house or in which the antenna was mounted 30 feet or more from the house."

Of course keeping carriers out of the ham bands only makes the problem worse for SW listeners because those carriers have to go someplace else on the dial. Unfortunately, NASWA does not have the resources available to ARRL. The FCC is currently running field tests of this technology in the Maryland and Virginia suburbs of Washington, DC and ARRL is participating in these tests.

FCC Chairman, Michael Powell, was shown visiting one of these sites on ABC-TV's World News Tonight. Mr. Powell commented on how impressed he was with the potential of this system as a way to provide an additional competitive broadband link to the internet. The competition with cable TV broadband and DSL via telephone lines will hopefully hold down rates and eliminate any need for the FCC to regulate rates.

Shortly after that program, the FCC issued a formal Notice Of Inquiry (NOI) to solicit inputs from interested parties. This is the first step in a process of formal rule making which will eventually authorize the deployment of this technology. Now is the time for us to influence how this system will protect the interests of shortwave listeners.

I urge every NASWA member and every foreign broadcaster targeting the US audience to let the FCC know that shortwave listeners deserve at least the level of protection afforded to amateur radio operators. An argument will be made that even greater protection is required because shortwave listeners operate their radios on small whip antennas inside the house. These listeners have a greater susceptibility to interfer-

ence because of the close proximity of their receive antennas to their dwelling wiring.

I believe that we have a right in a free society to listen to newscasts and cultural programs from other countries without the intrusion of a gatekeeper or somebody wanting money for the privilege of listening to something we get today for free.

I am going to ask the FCC to afford SWLs protection at least as good as the Home-Plug folks are affording hams and hopefully an additional 20 dB of protection to help mitigate radiation to small portable radios inside houses and apartment buildings.

You should come up with your own arguments and reasons. Copy mine if you so desire but original thoughts are what the FCC is looking for. Quantity also counts because a wide response will serve to impress upon the FCC just how many people rely on shortwave radio to keep current with world events as seen through the eyes of reporters from other nations.

At a time where US media are becoming ever more concentrated and controlled by fewer and fewer large corporations, the diversity of thought and opinion available via shortwave radio serves as an important input to an informed society. A free society must be accurately informed if it is to remain free. The best way to do that is to ensure maximum interference-free access to a diverse universe of news and opinion via free shortwave broadcasts.

The complete FCC Notice of Inquiry can be accessed at:

http://hraunfoss.fcc.gov/edocs_public/attachmatch/fcc-03-100A1.doc

You can submit your comments electronically via the web at:

<http://www.fcc.gov/cgb/ecfs/>

Under ECFS Main Links, click on "Submit a Filing." In the "Proceeding" field, enter "03-104" and complete the required field.

Comments may be typed into a form or you may attach a file containing your comments. Comments also may be submitted via e-mail, per instructions on the ECFS page. The comment deadline is 45 days after publication of the NOI in the Federal Register so you have until at least the beginning of July to get your comments in.

Written replies may be delayed by new security procedures and are therefore discouraged. If you have to file comments in writing, send an original and four copies to:

Commissioner's Secretary
Office of the Secretary
Federal Communications Commission
445 12th Street, SW
Washington, D.C. 20554

Make sure the subject clearly states it is a response to ET Docket No. 03-104. If possible, responses should be received by the FCC by **July 7, 2003**. Special security issues apply to mail sent to government facilities. Be sure to read and follow the instructions in the NOI that apply to your selected paper delivery method.

If you want to do more research, I recommend this ARRL web page. It has links to tests conducted on similar technology all over the world including tests by the Japan Amateur Radio League which convinced the Japanese government to prohibit similar technology "at this time."

<http://www.arrl.org/tis/info/HTML/plc/>

The FCC was formed originally to protect licensed radio services from interference. Remember that as you formulate your comments.

As Joe Adamov often said on "Moscow Mailbag", "You can't do better than to write us that letter." And you can't do better than to write the FCC and let them know why you are concerned. Do your part.

Until next time, if there is a next time, stay tuned.



Adrian Peterson's Diary

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

Poona on Shortwave

The city of Pune, or Poona as it was known in earlier days, is noted as a university city and a centre of Indian culture. Poona featured in the independence movement under the revered Mahatma Gandhi, and in the days of the British Raj, Poona was the summer capital for the Bombay Province due to its higher elevation and therefore cooler climate.

In the international radio world, Poona in India became quite well known as the location of the production studio for Adventist World Radio. For a period of nearly 13 years beginning in 1976, the broadcasts from the Poona studio were officially identified on air over the Sri Lanka Broadcasting Corporation in Ekala as Adventist World Radio in Asia.

However, it was back in 1922 that the first communication station in Poona was established with the dual callsigns of vvo and vvj. This station was owned and operated by the Indian Radio & Cable Communications Company, and it was located at Kirkee, quite close to Spicer College, the large university-level college operated by the Seventh-day Adventist church.

Five years later, two new callsigns were noted on air from Kirkee, Poona, and these were vwz and vwy. It would be presumed that this was the same station, though perhaps with new equipment. Both of these units were noted in many parts of the world in the pre-war era carrying communication traffic between India and England.

In view of the changing political circumstances in Europe, the 10 kw vwy transmitter at Poona was taken into broadcast usage for a French service into Syria. The first broadcast of the new "Radio Francaise Libre d'Orient" was noted on December 13, 1940.

During the two and a half years that these broadcasts were on the air, they were often heard at a good level also in Australia and New Zealand, and also, we would presume, in Europe. The final broadcast of this unique radio service was heard in May 1943, and it was closed quite abruptly without prior announcement.

The half hour daily program began with the ticking of a metronome as the identification signal. This was followed by a stirring rendition by a brass band of the March Lorraine, and then the opening announcement in French. The entire program consisted of French and Middle Eastern music, news and news commentaries.

It is suggested that the programming was not produced in India but rather at some external location and then made available on disc for broadcast from vwy in the service back to the Middle East. There is only one known QSL from "Radio Francaise Libre d'Orient" and this was a letter received by a radio columnist in Australia.

For a very brief period of time, there was another shortwave station on the air in Poona, India. This station was located at the Poona University and it was on the air in 1978 with test broadcasts on 4212 kHz. These test transmissions were preliminary, for the purpose of broadcasting educational programs as a distance learning project. However, these broadcasts never proceeded much beyond the testing phase.

We could also mention All India Radio as a broadcast service in Poona, with its origins in 1953 using a 1 kw mediumwave transmitter. Several additional transmitters with higher power on mediumwave have been installed over the years at AIR Poona, though this station has never operated on shortwave.

Pineapple Network

A radio network called the "Pineapple Network"? Where ever could that be located? If you guessed "Hawaii" as your answer, then that would be correct. But, what is known about this unique radio network that was on the air in the middle of last century.

Actually, very little is known about the Pineapple Network, and even this information lay quietly at rest until New Zealander David Ricquish made a visit to old time DXer Ray Crawford in Brisbane, Queensland. As they were reminiscing about the past, they came across a reference to the Pineapple Network in the old radio club magazine "Skyrider" in the issue dated for January and February 1948.

In this brief reference about the Pineapple Network, mention is made of two medium-wave stations in Hawaii operated by AFRS, the American Forces Radio Service. Station WVTZ is listed in Hawaii on 1300 kHz, and another station is listed on the island of Oahu on 1260 kHz.

Research into other radio magazines and publications of that era indicate that there was indeed a network of AFRS mediumwave stations in Hawaii for a few years beginning in mid 1945. The key station was WVTZ, which was operated by the Marine Corps at Ewa on the capital city island of Oahu. This station operated on 1360 kHz, though this channel was changed later to 1300 kHz.

Other AFRS stations in the area that relayed the main programming from WVTZ were listed on six other mediumwave frequencies. All seven of these stations carried the same WVTZ programming and they were all located on the same island, Oahu.


Several of these low powered AFRS stations in Hawaii were heard in the United States, New Zealand and Australia, including the one on 1350 kHz which identified on air simply as "Station B."

During the years just before and just after the end of the Pacific War, all of the AFRS stations in the Central Pacific were loosely

designated as the "Pacific Ocean Network." The two other AFRS networks in the Pacific at the time were designated as the "Mosquito Network" and the "Jungle Network."

IT WAS BACK IN 1922
THAT THE FIRST
COMMUNICATION STATION
IN POONA WAS ESTABLISHED
WITH THE DUAL CALLSIGNS OF
VVO AND VVJ.
THIS STATION WAS
OWNED AND OPERATED BY
THE INDIAN RADIO & CABLE
COMMUNICATIONS
COMPANY, AND IT WAS
LOCATED AT KIRKEE,
QUITE CLOSE TO
SPICER COLLEGE

There is no other known reference to the "Pineapple Network," though it is quite clear that this network was in Hawaii and that station WVTZ was the key station for this network. It would be suggested then that the term "Pineapple Network" was either an official or unofficial designation for the AFRS stations of the Pacific Ocean Network that were located in Hawaii.

It should be mentioned also that AFRS programming was heard on shortwave from two other stations in Hawaii during the same era. The Voice of America transmitters, KRHO and KRHK, regularly carried AFRS programming. In addition, the Army Signal Corps transmitters, WTV and WTJ, were also noted with relays of AFRS programming to the Jungle and Mosquito Networks. 

Pirate Radio Report

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

Undercover Radio Wins Pirate Popularity Poll For 2003!

Yes, the votes are in and tallied and we are pleased to award this prestigious accomplishment to Dr. Benway of **Undercover Radio**. Those voting in favor cited his QSL friendly responses including sending CDs of the broadcasts in the QSL packages.

The runners up were **WHYP-The James Brownyard Memorial Station** a close second, followed by Allan Maxwell's **KIPM**.

There was no real voting on the worse station so no results to give you there. Actually stations like **Voice Of The Night**, **KAMP**, **WPIG** and **Jimmy Da Weasel** don't exist right now, so there really isn't a real bad one to choose. Many thanks to the voters!

Loggings...

Yup, we've got em. Thanks to Scott Barbour-NH, Rich D'Angelo-PA, Joe Wood-TN and George Zeller in Ohio.

Big Thunder Radio was logged on 6915 kHz in SSB on June 18th at 0211 to 0235 sign off with a SINPO of 23222. My first log of this station and my first log of anything on this frequency. Signal first heard at 0211 with UNID music, followed by a partial ID at 0218. Songs included: "Hello Josephine" by Fats Domino at 0227, "Cherokee Fiddle" at 0228, "Cover of the Rolling Stone" by Dr. Hook and the Medicine Show at 0231. Sign Off ancmts and "Happy Trails" at 0235. [Wood-TN]

Buckwheat Radio was noted on 6955 kHz USB from 0402-0419 sign off on 22nd June. Music featuring Stevie Ray Vaughn, "Voodoo Chile", "Cold Shot". Mentioned broadcasting with "10w of low-fidelity power", requested reports to buckwheatradio@hotmail.com at s/off. IDs as "Buckwheat Radio 6955 USB" [Barbour-NH]

Crazy Wave Radio, A Europirate was heard on 6275.8v kHz from 0254-0415 on June 8th, thanks to George Maroti's tip. Heard this at very poor level with techno music and man talking which was about 5-10% intelligible. Fortunate to get an ID at 0256 but most of the talking was over background music, which didn't help. [D'Angelo-PA]

Indira Calling was heard on 6925 kHz from 0240 past 0259 UTC on June 11th with Hindi music, an advert. for India Food Mart, IDs and frequent mentions of the "Calcutta" maildrop. Good signal. [Barbour-NH]

Iron Man Radio was logged on 6925 kHz in the AM mode on June 19th at 0124 to 0135 UTC. First log of this station. Signal first heard at 0124 with either poetry or rap style mx featuring noted pirate operators. Poem about "Sycko" Radio at 0128. ID as "Iron Man Radio" at 0129. Mentions of Grasscutter Radio, Sunshine Radio, JB, Mr. Head, and Red October at 0130. At 0133 the song "There has Never Been a Pirate Operator like JB" was announced as the winner of the song/poetry contest. "Testify" by Rage against the Machine was played at 0135. [Wood-TN].

Psycho Radio noted on 6950 USB from *0120 sign on to 0212 sign off and from 0220 past 0303 UTC on June 23rd. The first part of this broadcast could actually be listed as UNID, since it consisted entirely of "In A Gadda Da Vida" and other rock songs, including many from that same album, with no talk or ID. But, after a brief QRT, the station came back with IDs of **Psycho Radio**. this time, and pointing out that they were testing their transmitter. Most of the discussion during the second part of the show was about the music, but there was occasional discussion of the free-form format that the station was using during this broadcast. No address as usual. [Zeller-OH]

Until next month, keep cool and happy pirate DX!



QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010

ANGOLA: Radio Nacional de Angola 7245 registered ltr.w/ cd. in 818 ds. (Glotsbach-NM).

ASIATIC RUSSIA: Deutsche Welle 7400 via Irkutsk f/d "Stuttgart Building" cd. (Craighead-KS) 12030 via Novosibirsk f/d "1953-2003" cd. (Craighead-KS). 21790 via Petrovavlovsk f/d "DRM" cd. (Craighead-KS).

Radio Vatican 6205 via Irkutsk f/d cd. in 1 mo. (Barto-CT).

AUSTRALIA: The Voice 13635 via Voice International at Darwin f/d 2 page ltr. w/ details of their satellite link to Darwin and an invitation to visit their studios in India. Also received program guide. Addr: P.O. Box 1, Kangra, Pin Code 176001, Himachal, India. v/s Timotheus (BAHL). (Craighead-KS).

BONAIRE: Radio Nederlands 9785 f/d "Meadows" cd. in 26 ds. (Weissborn-TX).

CANADA: Radio Canada International 9590 via Sackville f/d "Sackville Transmitters" cd. in 14 ds. Also

STATION NOTES: XEPPM Radio Educacion 6185 v/s Miguel Angel Fernandez, Coordinador de Audiencia. Addr: Angel Urriza 622, Mex.

03100 Colonia del Valle, Mexico City, Mexico. XEOI Radio Mil 6010 Addr: Apartado Postal 21-1000, Mex-04021, Mexico City, DF, Mexico. XERTA Radio Transcontinental 4800.7 v/s Mrs. Veronica Coria Miranda, Representante Ejecutiva. Trans World Radio v/s Beth Chick. Addr: TWR, P.O. Box 8700, Cary, NC 27512.

Radiodiffusion Television Marocaine 15345 via Rabat v/s Abed Bendalh, Chief Engineer. Radio Television Malaysia 5005 via Sibu Addr: Jalan P. Ramlee 93614, Kuching, Sarawak. Radio 510 International 7120 via IRRS NEXUS Addr: P.O. Box 510, CH-4010 Basel, Switzerland....via PLAY DX....Sam.

Radio Singapore International
• Farrer Road P O Box 5300 • Singapore 912899
• Tel: (65) 6359 7669 Fax: (65) 6259 1357
• Internet: <http://www.rsi.com.sg>
• Email: english@rsi.com.sg

Date 12 March 2003

Dear Scott R. Barbour Jr
Thank you for your reception report on

965 kHz from 1040 UTC to

1100 UTC on 18/2/03 which
agrees/does not agree with our schedule of the
Malay Service

We hope you will continue to enjoy our
programmes.



QSL CARD

GHANA BROADCASTING CORPORATION
P. O. BOX 1633,
ACCRA, GHANA



Dear Sir/Madam,

Thank you for your reception report of our transmission(s)
on 2366 kc/s heard at 2209 - 2303
G.M.T. on 12-3-2002

We have pleasure in verifying your report which is much appreciated.

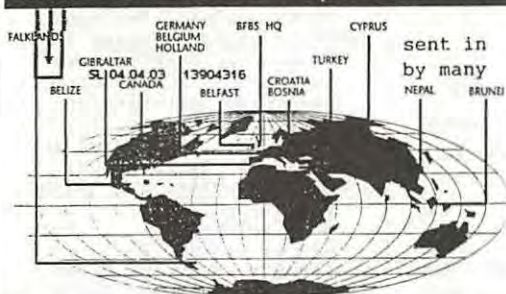
27/1/03



for Director-General

rcvd. schedule, pennant & stickers. (Weissborn-TX).
Radio Korea International 9650 via Sackville p/d "Korean Embroidery" cd. in 37 ds. (Weissborn-TX).
"Traditional Crochet" cd. in 18 ds. (Weissborn-TX).
Radio Sweden International 9495 via Sackville p/d "Sancta Birgitta" cd. in 22 ds. (Weissborn-TX).

BFBS WORLDWIDE RADIO NETWORK



BFBS WORLDWIDE - PO Box 903 - GERRARDS CROSS - SL9 8TN - ENGLAND
TEL: +44 (0)1494 874461 • FAX: +44 (0)1494 874429

ENGLAND: British Forces Broadcasting Service 6135
p/d "BFBS Worldwide Radio Network" cd. in 46 ds. for 2 IRCs. Addr: P.O. Box 903, Gerrards Cross, SL9 8TN, England. (Wilkins-MO)

EUROPEAN RUSSIA: Deutsche Welle 12015 via Samara f/d "Stuttgart Fountain" cd. (Craighead-KS). 7440 via Moscow f/d "Köln River" cd. and a "Cathedral" cd. (Craighead-KS).

GERMANY (East): Deutsche Welle 9545 via Nauen f/d cd "1953-2003" w/ site and 2 stickers celebrating 50

years of Deutsche Welle radio. This for 1 IRC. (Barbour-NH).

GERMANY (West): Bible Voice Broadcasting 13710 via DTK Wertachtal f/d cd. via Canada in 24 ds. (Glottzbach-NM). 13810 via DTK Julich f/d cd. via Canada in 23 ds. (Glottzbach-NM). Voice of Democratic Eritrea 15670 via DTK Julich ltr. in 75 ds. v/s M. Tsegai. Addr: P.O. Box 1946, 65409 Russelsheim, Germany. Gospel for Asia 15425 via DTK Wertachtal f/d cd. in 193 ds. v/s Rhonda Penland. Addr: P.O. Box 1210, Somis, CA 93066. (Glottzbach). 9765 and 15425 2 f/d cds. w/ site, schedule, business cd., and a personal note apologizing for the delay in 102 ds. for an e-mail rpt. (Barbour-NH).

Radio Ecclesia
thanks you for your
reception report on their
transmission from the
Meyerton Transmitting Station

Date 11.12.02 Time (UTC) 1901

STATION NOTES: La Voz del Napo 3280 v/s Ramiro Cabrera, Director. Addr: Juan Montalvo Misión Josefina, Napo, Tena, Ecuador. Radio Centro 3289.9 v/s Luis A. Gamboa Tello, General Manager. Addr: Castillo Entre 12 de Noviembre y Olmedo, Edificio Radio Centro, Ambato, Ecuador. Radio Oriental 4781 v/s Luis Enrique Espin Espinoza, Gerente General. Addr: Avenida Jumandy 536, Tena, Ecuador. Etela-Karjalan Radio 11755 via YLE Finland Addr: PL 100, FIN-

Frequency 7205 kHz

SENTECH

53101 Lappeenranta, Finland.
Kainuun Radio
11755 via YLE Finland Addr: Loonnotinkatu 14B, FIN-87100 Kajaani, Finland v/s Kalle Heikininen, Head Technician... via PLAY DX....Sam.



Radio Kenya Broadcasting Corporation
Maralal Radio Station
P.O. Box 38, Maralal
Kenya

Mr & Mrs George L. Glottzbach
5 Horsada Court, Santa Fe NM 87508
06/25/03

Date 2-1-2003

Sir,

we herewith confirm that: On 16th July 2003 at 0331-0336 hour (GMT) Greenwich Mean Time, you picked up a transmission of the radio station English Service, the exact frequency was 4935 kHz 60M (Shannon). The radio is located at Nairobi and has a power of 2000 Watt.

The radio station operates 19 hours a day (open to midnight)

Signed by Robinson Wanjau Githua

15680 and 9765 via DTK Wertachtal 2 f/d "Indian Family Listening to Radio" cds. w/ personal ltr. and schedule (Craighead-KS). Deutsche Welle 6140 via Julich f/d "Schwerin Castle" cd. (Craighead-KS).

OSL ☠ RADIO SPACEMAN ☠ OSL

LISTENER: John Sgrulletta
Address: Mahopac, NY
Date: 20 Oct 2002 Time: 22:02:22:46 UTC
RX: JRC NRD-SIS Ant: K9 AY Loop
QRG: 62.85 kHz, SW/MW
SINPO: 3+ 3 3 3 3+

Very 55 + 73

SPACEMAN Bcx: 73 NL - 7160 AB Needs

HAWAII: KWHR 11565 f/d "Pirating with Cumbre" cd. in 9 ds. v/s Chris Lobdell. (Weissborn-TX)
HUNGARY: Radio Budapest 9835 f/d "Hungarian Architecture" cd. w/ schedule and a form ltr. regarding restructuring the station in 512 ds. for \$1.00. I gave up a long time ago on this one. (Barbour-NH).
CONGO: Radiodiffusion Television Congolaise 5985 ltr. in 619 ds. (Glotzbach-NM)... Sorry, out of order... Sam.
KAZAKHSTAN: Voice of Tibet 15705 * ltr. rcvd. in 794 ds. (Glotzbach-NM).

bach-NM). Deutsche Welle 17485 via Alma Ata f/d cd. in 54 ds. This was heard while I was in Papeete, Tahiti. (Glotzbach-NM).

LITHUANIA: Radio Vilnius 9875 and 11690 f/d "Logo" cd. in 25 ds. for 1 IRC. (barbour-NH).

MALAGASY REPUBLIC: Deutsche Welle 13755 via Talata-Volandry f/d "Sines Relay" cd. (Craig head-KS).

MEXICO: XEJN Radio Huaya-Huayacocotla 2390 f/d ltr. in 875 ds. (Glotzbach-NM).

PERU: Radio Melodia 5995.2

STATION NOTES: Radio Centenario "La Nueva" 4855 v/s Napoleon Ardaya, Director. Addr: Casilla 818, Santa Cruz, Bolivia. Radio Ilimani 6025 v/s Gabriel Astorga Guschalla, Director General. Addr: Casilla 6500, La Paz, Bolivia.

E-m: illimani@comunica.gov.bo Radio Santa Cruz 6135 v/s Mrs. Maria Yolanda Marco Escobar, Secretaria de Direccion. Addr: Casilla 632, Santa Cruz, Bolivia. Radio Yura 4717 v/s Francisco Dubert Novo (Sacerdote), E-mail: fdubert@cedro.pts.enteinet.bo

Radio Botswana 4820 v/s Ted Makgekgenene, Chief Engineer. Radio Aparecida 9630 Addr: Avenida Getulio Vargas 185, Centro, CEP-12570-000, Aparecida, SP, Brasil... or Caixa Postal 2, CEP-12570-970.....via PLAY DX.....Sam.

f/d ltr. w/ 2 stickers in 588 ds for SASE. (Glotzbach-NM).

PHILIPPINES: Far East Broadcasting Company 9420 via Bocaue f/d "Sailing Vinta" cd. w/ site, schedule and a very friendly personal ltr. in 63 ds. for 1 IRC. v/s Jan Bayliss, QSL Secretary. Nice stamps on envelope. (Barbour-NH).

RUSSIA: WSHB 9880 f/d cd. w/ 2 stickers in 64 ds. for SASE (used). v/s C. Riehm. (Barbour-NH).

SEYCHELLES: Far East Broadcasting Assoc. 11885 f/d "Announcer / Reader" cd. w/ 2 stickers in 6 wks. (Craighead-KS).

SINGAPORE: Media Radio Corporation 6150 * cd. w/ brass bookmarks, stickers,

World Falun Dafa Radio

This is to confirm your reception of World Falun Dafa Radio.

Time: 21:45-22:01 UTC To: Scott R. Barbour
Date: Oct. 15th, 2002 PO Box 893
Place: New Hampshire Intervale, NH 0384

We appreciate your interest. We hope you can continue your listening to support Falun Dafa.

From: World Falun Dafa Radio
PO Box 93436
City of Industry
CA 91715, USA

www.falundafaradio.org

stamp



Radio Rainbow
 +11+ Low 5.1-5.8
Radio Arc - En - Ciel

C/o P.O.Box 140 104 - 52056 BONN - GERMANY

Bonn, den 02. 12. 2002

Dear Mr. Scott R. Barbour Jr.!

Thank you so much for sending your reception report from 22th of November 2002 of our radio transmission on frequency of 11840 kHz. Please inform the Ethiopian people around you - if any- about the station.

Once again, our grateful thanks.

Yours sincerely


 T. Asséfa

usora Acreana 4885 v/s Antonio Washintong de A. Sobrinho, Diretor.
 Addr: Rua Marechal Deodoro 737, CEP-69900-210 Rio Branco, Acre, Brasil
Radio Difusora de Londrina 4815 v/s Oscar Simones Costa, Gerente Administrativo. **Radio Educacao Rural de Tefe** 4925 v/s Thomas Schwamborn, Diretor Administrativo. Addr: Praca Santa Teresa 283, CEP-69470-000 Tefe, AM, Brasil...via PLAY DX....Sam.

Turkey 9890 p/d "Nemrut Mountains" cd. w/ schedule and a station pamphlet in 49 ds. (Barbour-NH).

USA: **KJES** 15385 cd. in 194 ds. (Glottzbach-NM). **WTJC** 9370 f/d "Lighthouse" cd. in 10 ds. for \$1.00. v/s A. Robinson. Schedule and sticker rcvd. (Wilkins-MO). **WYFR** 11740 p/d cd. in 15 ds. for ms. (Weissborn). 11855 same in 9 ds. w/ sticker, schedule, calendar. (Weissborn-TX). **Solid Rock Radio** 7385 and 15725 via **WRMI** cd. w/ sticker in 29 ds. for SASE (used) to the Belfast drop. (Barbour-NH).

USA (Pirates): **WJFK** 6955 small QSL sheet for a rpt. posted in FRW or on

postcards, news ltr. and sked. in 74 ds. (Glottzbach-NM).

TAJIKISTAN: Voice
 * of Tibet 15650 ltr. in 640 ds. (Glottzbach-NM).

THAILAND: Radio
 * **Farda** 11960 via **Udorn** f/d cd. of "Rigger and Curtain Array" v/s John Vodenik. (Craighead)
TURKEY: Voice of

STATION NOTES: Radio Clube do Para 4885 v/s Camilo Centeno, Director Geral. Addr: Avenida Almirante Barroso 2190, 1 Andar, CEP-66095-000 Belem, Para, Brasil. **Radio Clube Varginha** 3245 v/s Mariela Silva Gomes, Secretary. E-mail: sistemaclube@varginha.com.br **Radio Cultura do Amazonia** 4845 v/s Mrs. Silva Peixoto, Operadora de Radio. E-mail: silvinhanascimento@hotmail.com **Radio Dif-**



ADVENTIST WORLD RADIO

via Barbour QSL



Early QSL Cards



ADVENTIST WORLD RADIO

To **MR SCOTT BARBOUR**

We are pleased to verify your reception of our station

Date **1-4-03** Comments

Time (UTC) **0430**

Power (W) **350**

Freq (kHz) **11845**

Modulation **AM**

Transmitter location **Bentech**

SOUTH AFRICA

2002

DX EDITOR

www.wwr.org
 • Program schedules
 • Real Audio programs
 • Photos of AWR sites

Adventist World Radio
 39 Brendon Street
 London W1H 5HD
 England

QSL

UZBEKISTAN: BFBS 15795 via **Tashkent** p/d cd. in 2 wks (Craighead-KS).

Just enough space for this issue. See you next month.



Net Notes

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

Whew! In the Philadelphia area, rain, and more rain, for 14 of 16 or 17 spring weekends appears to be finally ending on the last weekend of June. Cloud cover and rain produced continuing, annoying static levels for weeks on end. It certainly has not been conducive to listening for that weak station out there.

Stops on the 'net

If your connection to the 'net supports at least 250 Kbps, try this ABC News video feed that rotates through 7 or 8 stories at any given time. Enter this into the RealPlayer (RP) Open Location field:
<http://www.abc.net.au/broadbandnews/ram/news.ram>

BBC TV News on the Web has changed its address too. The new entry for the RP Location field is
http://www.bbc.co.uk/news/5ctrl/tvseq/news_ost.ram and the video headlines are updated at 12, 17 and 21 UT.

IRC #SWL

Are you having problems joining the gang on the Internet Relay Chat Channel #swl? See if the updated help page at trsc.com/swl_irc.html helps. Dave Kirby's original page at n1dk.com also remains in place.

Mac Software

Compared to the PC, radio-oriented software for the Macintosh is a bit more difficult to locate. Dog Park Software www.dogparksoftware.com offers spectrum analysis, satellite tracking, a logging program for amateurs and Swl, and more.

The Week

We all know about the major USA news magazines Time, US News & World Report and Newsweek. A while ago my wife and I found another news magazine which we

prefer in our busy schedules. **The Week** is a quicker read. The ad copy claims the magazine is "the best of the U.S. and international media" and is "all you need to know about everything that matters". If you are looking to fill in the gaps of the news you listen to on the radio, this magazine may be a low cost way to do so at \$0.83 per issue. Further, back issues of all copies (to 2000) are available, free, on line. For more details, dial up www.theweekmagazine.com.

Australia's

Radio & Communications

The Aussie magazine was forced into receivership on 1 May 2003 and I am no longer writing the "Baudwalking" column. Apparently a disgruntled creditor for A\$60,000 took company action to liquidate the magazine. There is a remote possibility that the assets may be purchased by the last editor of the magazine or other persons. For more details see the rest of the story at trsc.com/weblog/index.html

Lists, we have lists...

The 'net survives on duplication of information. The tiny segment of sites listing international broadcasters is just one example.

Radio-list.com claims to be one of the biggest one directories on the net, covering all facets of radio. It's more data than I care to wade through right now. Your feedback, please?

I looked at the Open Directory (www.dmoz.org/Arts/Radio/International_Broadcasters/) and offered comments on the erroneous entries. It seems to me the editor application process is very strange indeed, if not cliquish.

Contributors' Page

Bob Montgomery • P.O. Box 1458 • Levittown, PA 19058 • RMonty23@netzero.net

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
Scott BARBOUR, Intervale, NH	ATS 818, RS antenna system
BARRACLOUGH, UK	No equipment listed
John BEATTIE, Ventura, CA	Drake R8B, Eavesdropper dipole, MFJ1026
Jerry BERG, Lexington, MA	R8A 165' LW
Paul BROUILLETTE, Geneva, IL	Drake R8, ICF2010, 60' long wire
Peter COSTELLO, Matawan, NJ	AR3030 DX-390 YB400 70' LW Tun-4A
Rich D'ANGELO, Wyomissing, PA	Drake R8B, Lowe HF-150, DX Sloper
Bob FRASER, Cohasset, MA	Sony ICF-2003 ICF-SW100s 2m LW
William McGUIRE, Cheverly, MD	DX-380
Bob MONTGOMERY, Levittown, PA	NRD535D, R390A, HF150, SE3, active antenna
Patrick MOYNIHAN, Dorchester, MA	Grundig FR-200
Mike PACE, Tipton, IA	Drake SW2, MFJ1022
Joe WOOD, Gray, TN	DX-390, Grundig Mini 100 PE, whip antenna

Address information: Postal mail: PO Box 1458, Levittown, PA 19058

Email: Rmonty23@netzero.net

By the time you have received your July issue of the Journal, the old AT&T email address will not work. Sorry for all the changes of recent. Have a great holiday and super summer. Keep the logs coming.

73

Bob Montgomery



On the Short Waves by Jerry Berg

<www.ontheshortwaves.com> Update, June 1, 2003—Under "Articles, Research, etc.," "Philately," R. Oranje, a Dutch "clandestine" program broadcast via London during WW II. The broadcasts were honored by the issuance of two special Dutch postal stamps in 1993. The first day cover shown includes a "Radio Oranje" imprint made with the original rubber stamp used by the station for correspondence from London. Also see the information sheet printed by Radio Netherlands on a reproduction of the station's original letterhead.

<www.ontheshortwaves.com> Update, June 8, 2003—Under "Articles, Research, etc.," "Philately," a first day cover from 1951 recognizing Radio Monte Carlo, Monaco.

<www.ontheshortwaves.com> Update, June 15, 2003—Under "Articles, Research, etc.," "Potpourri," a sheet from Radio News containing info on IDs and interval signals from shortwave stations. This appears to be from the 1930s.



Tropical Band Loggings

2000-5900 kHz

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- 3240 **SWAZILAND TWR** *0253-0345* 5/22, 0C w/hand bells IS 0255. Multiple EE IDs ("This is Trans World Radio, Swaziland") to s/on ID & fqy anmt in listed Shona language 0300; rel tlks w/close down ID and fqy anmts 0345; fair. (D'Angelo-PA)
- 3255 **S.AFRICA BBC** Meyerton, 0332-0343 5/19 M w/BBC news in EE; poor. (D'Angelo-PA) 5/21 0430 EE ID, rooster crowing; sports talk, then nx of Liberia. S 5 signal level; fades. (Montgomery-PA)
- 3291.2 **GUYANA Voice of Guyana** (presumed), 0825-0915+ 5/18, non-stop choir vocals till M t/k 0839; mix of talks and different types of music including EE lyric pop tunes. Fair signal but very noisy conditions made speech almost impossible to make out. Reactivation? (D'Angelo-PA) 3291.25 0300- and 0800- still hearing a very weak signal here; just too weak to ID. Did hear Hindi vocals at 0840. (Alexander PA 5-26)
- 3300 **GUATEMALA R. Cultural** San Pedro, 5/28 0416 - EE rel px; ended 0428, back to SS w/M ID. Preacher invited the listeners back for another EE broadcast from 9 to 1030. S 5 signal level, nice clear audio. (Montgomery, PA) 0255-0340 5/28 end SS, ID & EE pgms (Back to the Bible and Through the Bible). Fair signal. (D'Angelo-PA)
- 3309.98 **BOLIVIA R. Mosoj Chaski** Cochabamba 5/22 0017 - vy nice mx; M ancr in possible Quechua. S5 signal level with some fades but very nice. Noted slightly off freq. W ancr 0020 w/long talks, very pleasant voice. Tentative W ID 0032. Very nice program. (Montgomery-PA) 2354-0002 5/28 SS; M w/tlks b/w mx bits. W w/(P) ID at ToH, suddenly becoming very noisy. Poor. (Barbour-NH)
- 3320 **SOUTH AFRICA R. Sonder Greense** 0302-0316 6/18, M w/Afrikaans nx, pop vcls; fair RTTY on low side. (D'Angelo-PA)
- 3326 **NIGERIA R. Nigeria** Lagos *0429+ 5/7 IS loop at s/on, M w/tlk,NA. Very poor under RTTY. (Barbour-NH)
- 3375 **BRAZIL R. Clube** 0305-0307* 5/19 EE/PP; end of Mariah Carey, "Dream Lover", diff.pop mx; cut off for M s/off anmt over instl mx. Fair under QRN. (Barbour-NH)
- 3995 **GERMANY D Welle Wertachtal** 0200 5/24 GG, sports scores, IS/ID, news; fair. (Brouillette-IL)
- 4052.5 **GUATEMALA R. Verdad** SS 0205, guitar mx, talk; poor. 5/24. (Brouillette-IL)
- 4604.90 **INDONESIA RRI Serui** 1020-1035, strong signal together with 4753.33 same time [Wilkner-FL]
- 4716v **BOLIVIA R. Yura** (p), 0056-0110, 6/12, SS & ballads, W ancr; poor/weak, barely audible by 0110. (Barbour-NH)
- 4754.5 **BRAZIL R. Educacao Rural** Campo Grande, PP 0210 5/24, US and BRZ rock & pop; passing mention "Educacao"; fair. (Brouillette-IL)
- 4760 **LIBERIA ELWA** 2211-2233* 5/12 EE; cont rel mx, W s/off 2231, NA; fair w/overmod. audio. (Barbour-NH)
- 4765 **BRAZIL R. Rural** Santarem 0221 5/24 nice mx px in progress at tune in. Better on //4754.6 w/abt same sig. Both with freq fades and audible at about S 5 for both. Static crashes but with very nice high quality audio. M PP ancr 0228; possible W vcls by Sade t/o 0231. No id hrd at BOH. (Montgomery, PA)
- 4765 **BRAZIL (?) UNID** 0213-0224 5/24 M&W PP t/k & 50's rock. Often hear a solid carrier here. Finally have some audio, but only enough to tell it's PP. 5/24. (Brouillette-IL)
- 4779.98 **GUATEMALA R. Cultural Coatan** 0225-0233* 5/10 SS anmts; lcl ranchera mx, ID 0231. S/off with lite instr mx. Poor-weak. Irr. (Alexander-PA)
- 4780 **GUATEMALA R. Cultural Coatan** 0225 SS, pop mx, M DJ w/echo, saludos, ments of Coatan, ranchera music; good 5/24. (Brouillette-IL)
- 4783v **MALI RTV Malienne** 2307-2322 6/10, FF pops & t/k; poor, // 5995 fair. Mess of QRN on 4835. (Barbour-NH)
- 4795 **BRAZIL R. Diffusora** Aquidauana (pres.) 0013-0031 5/29 M PP tlks & ballads. A few "jingles" w/ tlks at BoH, but no discernable IDs noted. Fair. (Barbour-NH)
- 4800 **CHINA CPBS** 2239-2252 5/21 M&W Mandarin tlks; brief "jingle" mx 2245, tlks continue. Lost battle w/"sweeper" & periodic ute, QRM by 2252. Poor. (Barbour-NH)
- 4800 **GUATEMALA R. Buenas Neuvas** San Sebastian, 0153-0207 6/11; M SS, LA mx, tlks; IS & ID at TOH as "Raaadio Buenas Neuuvas" followed by piano mx. First log of this station. Some static, but easily readable signal. Good. (Wood-TN)

- 4815 **BRAZIL R. Dif. Londrina** 0247-0258* 6/19, W vcl, M PP tlk, ID. Tuned away briefly but gone at re-check so presumed signed off; fair. (D'Angelo-PA) 2314-2333 5/6 PP; M /wphone-in, mx request px; lots of ballads; ID/anmt at BoH. Fair. (Barbour-NH)
- 4820 **BOTSWANA R. Botswana** 0327 5/11, exc sig; Afr mx, W anc, no EE; gave phone number, back to mx. (Montgomery, PA) 0255-0330 5/26 barnyard IS, choral anthem 0300, then ID and anmts. Loss of carrier 0302-0306; RTTY type QRM. On again 0306 w/anthem and instl version of "Life Goes on". Pop tunes interspersed with anmts in Setswana. Carrier dropped again from 0323 to 0325. Fair signal (Beattie-Ca) *0250-0304 5/22, familiar barnyard IS w/choral anthem at 0259, ID, s/on anmts & nx; fair. (D'Angelo-PA)
- 4820 **HONDURAS RLV Evangelica** (presumed) 0249-0319 6/1 SS by 2M & W; choral ballads including one in EE, "From A Distance". No ID noted, but I can't imagine who else this could be. (Barbour-NH)
- 4820 **TIBET Xizang PBS** Lhasa, 2302-2330 6/18 CC/EE; apparent language lesson w/M&W in CC, lots of repetitive words and phrases. Brief mx 2320 w/(p) ID by W w/ echo effect. W in EE 2324 spelling "parrot" and "garden", M repeats in CC; f/out 2330. Good at t/in. Logged this one on 5/21, same time and format. WRTH lists CNR 1 relay. (Barbour-NH)
- 4832.0 **HONDURAS R. Litoral** 0400-0500* 5/25 SS rel pgm; rel mx. EE "Searchlight" rel pgm 0420. ID & SS closing anmts 0459. Fair-good. (Alexander-PA)
- 4880 **CLANDESTINE TO ZIMBABWE SW Radio Africa** 1835-1900* 6/3; interview with white lady farmer in EE on land redistribution policy, 1845 speech by MDC leader in EE w/occ vernacular translation calling on Zimbabweans to support the nationwide strike action and liberate themselves, 1855 ID anncg 4880 only, song in EE & off; fair, QRM at times from utility stations and numbers station on 4879.8. (Barraclough, UK)
- 4890 **PNG NBC** 0814-0915 6/9 w/island vocals, ID EE nx, sports and weather commencing at 0900. At 0912: That's NBC national news and sports." Ad & mx pgm. Weak at first but building in strength to fair by tune out. (D'Angelo-PA)
- 4890 **UNID** 0236-0243 5/24 SS, M in long talk (political?); vy weak, poor audio. Who? (Brouillette-IL)
- 4915 **GHANA R Ghana** 2320 6/3 continuous mx till 2345; then M ID & nx; 2355 W rel tlk & EE prayer; NA 2357, singing, off 2359. (Montgomery-PA) 2216-2234 5/27 EE. Continuous choral/rel mx; W 2231 "Hello and welcome to the program called... from Radio Ghana"; more choral mx. Poor w/ "sweeper" and mild, co-channel Brasil QRM. (Barbour-NH)
- 4930 **HONDURAS R. Costena** 0120-0136 5/11 SS, cont mx till canned ID/anmt at BoH. M w/tlks and mx. Poor under QRN floor. (Barbour-NH)
- 4940 **VENEZUELA R. Amazonas** 0007-0019 5/15 SS; phone-in prg; ID/anmts 0015, tlk over piano version of "Yesterday". Poor. (Barbour-NH)
- 4950 **ANGOLA RNA** 2234-2245 5/12 M PPrx, alternating mx b/w items, EZL instl or pounding drums. W w/ballad, tlk over acoustic mx. Several "R.Nacional" IDs. Poor w/ prop. QRN. (Barbour-NH)
- 4960 **SÃO TOME VOA** 0403 6/10 W EE ID during nx; nice copy. Mostly nx related to Africa mixed with World nx items. M&W ancrs. (Montgomery-PA)
- 4975 **PERU R. del Pacifico** 0405-0438 5/31 M SS phone in rel px; W long tlk re "Christiana". Fair w/ het at t/in that gradually f/out. Also 0334-0348 6/8, M SS rel tlks; poor w/annoying het. (Barbour-NH) 0225-0320 6/5 W SS rel tlk; series of anmts 0258-0304 w/ several IDs; Latin vcls, talk. (D'Angelo-PA)
- 4976 **UGANDA R. Uganda** Kampala 0318-0333 5/6 EE; Afropops and reggae mx, catchy jingle ID at BoH w/solid "Radio Uganda". Poor under QRN, static crashes. (Barbour-NH)
- 5009.8 **DOM.REP.R. Cristal Int.** 0110-0114* 5/25 SS pops, phone talk, Abrupt s/off. Good. (Alexander-PA)
- 5009.88 **MADAGASCAR R. Madagascar**, surprisingly good strength 0330 6/15 with church svc, singing, pretty steady signal. (Berg-MA)
- 5010 **HONDURAS HRMI** (p), Comayagula (p). 0207-0220 6/11; several ID's ments of "Radio" and "Misiones" spoken in SS too fast to understand completely. M tk in SS with what sounded like rx matter. Ments of US address. (Wood-TN)
- 5010 **MADAGASCAR RTV Malagasy** 0330-0349 5/29; ID at t/in and again w/prg. intro; M w/long tlk, several mentions of "Madagascar"; diff M 0336 w/same format, Quick jingle mx and back to original M 0345. Fair. (Barbour-NH) *0255-0330+ 5/26 s/on w/drums IS; lcl nx 0256; choral anthem 0300; ID & Vern talk; reggae mx. Good. (Alexander-PA)
- 5019.9 **SOLOMON IS SIBS** 0924 5/21; noted off fqy, W EE lcl nx, island mx. (Montgomery, PA)
- 5677.97 **PERU R. Ilucan** 0200-0245* 5/3 SS talk, lite SS mx. No OA mx hd. ID. Abrupt s/off. Weak. (Alexander-PA)

International Band Loggings


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- 5915 **ZAMBIA ZNBC** Lusaka in Vern *0243-0405, Fischeagle IS, NA, ID, ancmts, group singing, crowing rooster 0400, splatter from WBOH 5920, f/p and f/o 0405 (D'Angelo PA 5/20, Barbour NH 5/16)
- 5930 **SLOVAKIA RSI** in EG *0100, IS, ID, fgy, sked, political nx, g (McGuire MD 6/8)
- 5958v **COLOMBIA Caracol** Villavicencio in SP *0900, ID's, nx, field rpts, sig drift (Berg MA 6/5)
- 5970 **BRAZIL R Itatiaia** Belo Horizonte in PT 0823-0905, vocal, long tlk future, ad string, jingle ID, more tlk, TC 0833, brief mx intervals, f (D'Angelo PA 6/9)
- 5985 **CONGO R Congo** Brazzaville in FR 2155-2300*, tlks, ID's, local Afro pop mx, hi-life mx, abruptly off at 2300 (Alexander PA) in FR *0428-0456, tlks, ID, dance mx, WYFR QRM (Barbour NH 6/14)
- 6035 **COLOMBIA L V del Guaviare** in SP 0240, non-stop LA vocals, ID, fgy ancmts at 0257 and orch NA, splatter from 6030 R Marti (D'Angelo PA 6/4) s/on *0900 w/full ID and NA, g (Berg MA 6/5)
- 6040 **BRAZIL R Club Paranaense** Curitiba in PT 2312, OM tlks, "A Voz do Brasil", p (D'Angelo PA 5/15)
- 6105 **GERMANY R Liberty** relay via Lampertheim in RS 0226, pop mx, "Radio Svoboda" ID at 0230, nx by OM in RS, fair signal (D'Angelo PA 6/4)
- 6165 **ZAMBIA ZNBC** Lusaka in EG 2141, Afro pops w/YL tlks over mx at times, evening devotional at 2205 s/off, NA, muddy audio (Barbour NH 5/12)
- 6210 **ETHIOPIA R Fana** Addis Ababa in Amharic *0257-0322, mx fanfare, ID, nx, pgm of Horn of Africa mx, some static but clearly audible (Montgomery PA 5/11, D'Angelo PA 6/4)
- 62503 **EQUATORIAL GUINEA R Nac** Malabo in SP 2230-2302*, tlks, pops, ballads and SP rap, R Malabo ID and NA at s/off, p-f w/QRM and QRN (Alexander PA 5/25)
- 6940 **ETHIOPIA R Fana** Addis Ababa in Amharic 0259, crystal clear IS, brief silent period, back on 0302 w/some brief comments, mx, S-8 to S-9 reception (Montgomery PA 5/26)
- 7125 **GUINEA RTV Guinneene** Conakry in FR 2247-0001*, variety of FR/US/Afro pop mx, tlks, s/off with NA (Alexander PA 5/25-26, Barbour NH 5/27)
- 72103 **BENIN ORTB** Cotonou in FR/Vern 2235-2300*, tlks, ID, familiar US ballads, Afro pop mx, NA (Alexander PA 5/25, Barbour NH 5/27) in FR *0500, IS, NA, ID, mx, sked, pops (D'Angelo PA 5/26)
- 7255 **NIGERIA V of Nigeria** Lagos in EG/FR 0450, full ID, NA, ancmts in FR, mx, g (Beattie CA 5/27)
- 9600 **CUBA R Rebelde** Havana in SP 1100, web site, station info, many ID's, greetings and ancmts, nice S-9 signal, second station on same fgy but Rebelde covered them up (Montgomery PA 5/28)
- 9630 **BRAZIL R Apaecida** in PT 0921, lite mx, ballads, tlk, canned ID, ads, fair signal (Barbour NH 5/11)
- 9640 **CANADA Deut Welle** relay Sackville in GM 0300, IS, ID, rpt on Afghanistan, g (McGuire MD 6/8)
- 9650 **CANADA R Korea** relay Sackville in KR/EG 1125, end of KR svce 1130, into EG w/ID, nx, including mention of G-8 summit meetings, g (McGuire MD 6/2)
- 9675 **BRAZIL R Cancao Nova** in PT 0942, "Santa Maria's" repeated by group, tlks over classical mx, relig mx, full ID, website, post office box, phone #, ads, g (Barbour NH 5/11)
- 9680 **INDONESIA RRI** Jakarta in IN 1051, upbeat Indo pops, chimes and ID 1100, nx (Barbour NH 5/12)
- 9695 **BRAZIL R Rio** Manaus in PT 2240, "A Voz do Brazil" pgm, mx, fast talking nx, f (D'Angelo 5/15)
- 97042 **ETHIOPIA R Ethiopia** Addis Ababa in Vern 1945, Horn of Africa mx, ancmts, s/off 2000 after NA, weak to fair signal, needed LSB due to VOIRI on 9705 in AR (Barraclough UK 6/3)
- 9710 **MOROCCO R Liberty** relay in Ukrainian *0300, ID "Radio Svaboda", region nx (McGuire MD 5/24)
- 9760 **UNITED KINGDOM VOA** relay via Wooferton in EG 2132, "Jazz America", weak (Brouillette IL)
- 9790 **CANADA China R Int** relay Sackville in EG *0100, IS, ID, nx, rpt on SARS, g (McGuire MD 5/21)
- 9885 **NEW ZEALAND RNZI** in EG 1200, nx, local sports info, "Sports World" feature, focus on rugby win previous night (Costello NJ 5/25) in EG 0930, "Radio Sports" pgm, g (Fraser MA 5/19)
- 9950 **INDIA AIR** Delhi in EG 2104-2136, nx headlines, ID, TC, cmntry re India/Pakistan relations, "Sports Roundup", Hindi mx, fair sig, //11620, 9445 (Barbour NH 5/21)
- 11560 **GUAM AWR** relay Agat in HD/Tamil/EG 1719, relig tlks, post office box for AWR, ID in EG before switching to pgm in Tamil at 1730, SE Asian mx, good signal (Barbour NH 5/6)
- 11605 **ISRAEL V of Israel** Tel Aviv in SP 2001*, nx, ID, econ rpt, ancmts, theme mx (Brouillette IL 5/26)
- 11620 **INDIA AIR** Patna in HD *0010, flute mx IS, group singing, tlks, Patna ID?, nx, mx selections, several program breaks due to xmtr problems?, QRM (D'Angelo PA 5/18, Berg MA 5/18) ED: Patna is the capital of Bihar state in No. India. Due to xmtr problems, they used Delhi relay during period reported.

- 11635 **FRANCE Libyan Jamahiriya BC** relay in AR/EG *2000, nx in EG for 4 minutes at 2041 and 2123, and request letters in EG at 2051 and 2129, address, phone #, f, off abruptly 2130 (Alexander PA 5/25)
- 11650 **NO. MARIANAS KFBS** Saipan in RS 1032, relig tlks over mx, ID 1045, s/off at 1100 w/anmcmts over guitar mx, fair signal clobbered at 1100 by IS from R Australia s/on (Barbour NH 5/23)
- 11670 **IRAN VOIRI** Kamalabad in EG 2026*, t/k on US strategy in Mideast, poor (Brouillette IL 5/26)
- 11675 **RUSSIA V of Russia** relay via Armavir in EG 1910, nx, rpt on Iraq, Algerian quake (McGuire 5/22)
- 11675 **ANTIGUA BBC** relay in EG 2120, "Caribbean Report", g, //15390-Greenville, NC (Fraser MA 5/21)
- 11695 **GERMANY Deut Welle** Wertachtel in AR 2030, ID, cmntry (Brouillette IL 5/26)
- 11710 **NO. KOREA KCBS** Kanggye in KR 1250*, piano instrum'ts, up beat mx, ID, NA, f (Barbour NH 5/6)
- 11710 **NO. KOREA V of Korea** Kujang in EG *1300, IS, ID, NA, nx re Korean People's Army, Kim Il Sung, usual distorted audio levels, p (Barbour NH 5/6)
- 11720nf **SAO TOME VOA** relay in Hausa *2030, caught s/on ancmnt in EG, nx in Hausa (Brouillette IL 5/26)
- 11765 **ALASKA KNLS** Anchor Point in EG *0800, ID, old rx, "Postcard from Alaska", mailbag, usual relig bits throughout, overall fair signal w/splatter from HCJB at 11770 (Barbour NH 6/12)
- 11770 **AUSTRALIA HCJB Australia** Kununurra in EG 0930, DX pgm, surprisingly decent signal level but bothered by QRM at varying strength from WYFR on same channel (Berg MA 6/14)
- 11775 **ANGUILLA World University Network** in EG 1450, Dr. Scott preaching, mx, ID (Wood TN 5/31)
- 11775 **ROMANIA RRI** Bucharest in EG 2002, nx re Romanian foreign policy and visit of Greek Archbishop, ID at 2307, g, //11740 (Wood TN 6/7)
- 11785 **UNITED KINGDOM R Sawa** relay via Wooferton in AR 2052, AR-style pop mx and US pops, many mentions of Iraq, canned ID's, g (Brouillette IL 5/26, Montgomery PA 6/3)
- 11795 **GERMANY Gospel for Asia** relay via Wertachtel in various langs *0029-0130, s/on w/mx at opening, ID, ancmts, followed by long relig tlks, language change every 15 minutes, f-g (D'Angelo PA 6/14)
- 11800 **ITALY RAI** Rome in IT 2300, feature w/tlks by two YL's about mx, g, //9675 (Fraser MA 5/17)
- 11820 **POLAND R Polonia** Warsaw in EG *1200, IS, ID, t/k re Poland's relations with EU, status of US and UK after Iraq war, also EU referendum May 17, poor w/QRM splatter (Barbour NH 5/6)
- 11860 **IRAN VOIRI** Sirjan in EG 2010, t/k re smoking illnesses, ID 2017, discussion re weapons of mass destruction and war in Iraq, mail, strong sig but muffled audio, nx, s/off 2026 (Montgomery PA 6/3)
- 11900 **BULGARIA R Bulgaria** in EG 2335, feature on economy of magazines, //9400, g (Fraser MA 5/12)
- 11905 **GERMANY Gospel for Asia** relay via Wertachtel in Bhojpur 0018, relig t/k in lang, ID and s/off mx at 2003, poor w/heavy QRM from Bulgaria on 11900 (D'Angelo PA 6/14)
- 11915 **BRAZIL R Gaucha** Porto Alegre in PT 0240, OM's w/tlks, pips, ID, nx, poor w/fades (D'Angelo 5/15)
- 11920 **IRAN VOIRI Kamalabad** in EG *0030, IS, ID, NA, fqy, sked, Koran readings, g (McGuire MD 6/5)
- 12000nf **TURKEY V of Turkey** in EG 2218, ann'c g essay contest, TK classical mx, //9830, new fqy better than ex-11960 (Brouillette IL, Fraser MA 5/11)
- 12010 **RUSSIA R Maryja** via Armavir relay in PL 1844, YL w/"Grovach Maria", prayers, tlks, fanfare, ID at 1858, bells/fanfare into choral mx to 1900, Mass, f-g (Barbour NH 5/13)
- 12172 **USA WWRB** McCaysville, GA in EG 1600-2345, sermon, t/k on government conspiracy, nx about country's security, government nx (Pace IA 5/22-5/26)
- 13580 **CZECH REPUBLIC R Prague** in EG 2135, mailbag pgm, t/k on bike touring in CZ, rpt on world's only indoor carillon, //11600 (Brouillette IL, Fraser MA 5/16)
- 13590 **RUSSIA KHBN High Adventure Ministries** relay via Novosibirsk in CH/EG 1234, continuous tlks by OM, mx at 1244 followed by OM in EG, E-mail address, s/off ancm't 1245, p (Barbour NH 6/10)
- 13610 **SYRIA R Damascus** in EG 2027-2130, ID, nx, mx features, cultural pgm, fqy, TC, very low audio for speaking, good audio for AR mx portion, QRM from WEWN 13615 (D'Angelo PA, Brouillette IL)
- 13685 **AUSTRALIA Christian Vision Int.** Darwin in EG 1100, continuous pop mx, nx, ID, website, "Happy Program", ads, feature titled "Planet 30", strong sig w/fades (Costello NJ 5/25, Montgomery PA 5/26)
- 13715 **GUAM KTWR TransWorld R** relay in VT 2230*, relig tlks, ID at s/off, weak (Barbour NH 5/15)
- 13865usb **ICELAND Iceland R.** Reykjavik in IC *2303, upbeat mx, tlks, ment Hans Blix, other nx and rpts, few Mentions of Iceland and North Atlantic, mx jingle and s/off 2332, g (Barbour NH 6/11)
- 15120 **NIGERIA V of Nigeria** Ikorodu in EG 1759, end of "60 Minutes" at t/in, ID, nx headlines, financial nx Pgm "Broadstreet", historical feature "Builders of Africa", exc (Barbour NH 5/6)
- 15160nf **FRANCE R France Int** in EG 1600-1700*, nx, cmntry re EU, FR mx, //11615 (Alexander PA 5/17)
- 15195 **ASCENSION IS WYFR** relay in EG 2038, relig feature "Radio Reading Circle" and "Scripture of the Week", QTH, website info at 2100 s/off, f (Barbour NH 5/28)
- 15205 **UNITED KINGDOM VOA** relay via Wooferton in EG 1504, "News Now", faint sig (Wood TN 5/31)

- 15205 **RWANDA Deut Welle** relay Kigali in EG 2100, nx, sports, very good level (Brouillette IL 5/4)
- 15220 **CANADA R Nederlands** relay Sackville in EG 1510, regge mx pgm w/DJ (Wood TN 5/31)
- 15265 **SOUTH AFRICA Channel Africa** in EG/Afrikaans *1655, ID, 5+1 pips, nx in EG, poor signal under Taiwan until 1700 s/off, then fair level (D'Angelo PA 5/17)
- 15275 **GERMANY Deut Welle Wertachtel** 0600, relaxing mx pgm, nx, wx rpt (Moynihan MA 5/13)
- 15315 **FRANCE Libyan Jamahiriya BC** relay in EG 1923, nx, req mail, QTH, //15205 (Alexander PA 5/25)
- 15325 **BRAZIL R Gazeta** Sao Paulo in PT 1515, relig tlks, ID 1517, fair with heavy QRN (Wood TN 5/31)
- 15395 **UNITED ARAB EMIRATES R Dubai** in AR/EG 0325, phone tlks, tlk over instrum'l jingle "3 Blind Mice", ID 0330, nx, into EG pgm re Islamic Monuments featuring "Taj Mahal", p (Barbour NH 5/19)
- 15440 **USA CBS Taipei** relay via WYFR Okeechobee, FL in CH 2300, YL Taiwanese vocalist, Taiwan NA, classical orch mx featuring flutes, cmntry, nx re Walter Cronkite, violin mx (Moynihan MA 5/13)
- 15480 **AUSTRALIA HCJB Australia** Kununurra in EG 1257-1359, ID, TC, fqy, world nx, "Saturday Night" feature, "This Day in History" pgm, contemporary relig mx (Barbour NH 5/31, Berg MA 5/17)
- 15680 **GERMANY Bible Voice BC Network** relay via Juelich in EG/AR 1652, "New Life Fellowship" pgm re Eden, POB for Oregon,, ID and into AR svce 1700, QRM jamming of RFAAsia (Barbour NH 5/13)
- 17510 **HAWAII KWHR** Naalehu in EG 0135, religious pgm, vg w/slight fades (Montgomery PA 5/19)
- 17870 **CANADA RCI** in EG 2008, "Maple Leaf Mail Bag", tlk on Canada's space pgm, vg (Wood TN 6/8)
- 21550 **UNITED ARAB EMIRATES UNMEE** via Al Dhabbaya in EG/Vern *1031, abrupt s/on w/YL in lang, tlks w/occasional mx bridges, into EG 1115, tlk re UN humanitarian conf in Asmara and children's pgm being organized there by the UN, abrupt s/off 1130, f-g, bcst Tues only (Barraclough UK 6/3)
- 21630 **ASCENSION IS R Telefis Eireann** relay in EG 1836, nx, "5-7 Live" re SARS, tribunal hearing w/ads, traffic rpt, cut-off at s/off 1900 (Barbour NH 5/28)

Clandestine, Tentative, Presumed, or Unknown

- 6215 **ARGENTINA(t) Baluarte** Puerto Iguazu(p) in SP 0034, long tlks by 2 OM, audio suddenly dropped down at 0045, S-5 signal continued but no audio, testing? (Montgomery PA 5/22)
- 15265 **TAIWAN(p) CBS Taipei(p)** in CH 1638, non-stop CH opera mx, abruptly off 1700 (D'Angelo 5/17)
- 21760 **CLANDESTINE Radio Yogo Libre** in FR 1300-1400*, pips, mix of tlks artd African mx, clear ID at 1330, another ID and sked 1352, xmtr site unknown, f-p w/fades & QRN (Barraclough UK 6/6) 

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