

The **NASA** Journal

VOLUME XLII NUMBER 10

OCTOBER 2002

**Faces
behind
the voices**
Radio Nederland
Wereldroep

1. Newsreader
Daniel Frankl
2. Newsreader
Adriane Fenster-Callas
3. Newsreader
Mark Bellamy
4. Newsreader
Marcel Snijders
5. Newsreader
Gneithiri Piyasena
6. Newsreader
Dave Durham
7. Producer
Chris Chambers
8. Music 52.15 host
Martha Hawley
9. Insight columnist
Rob Green
10. EuroQuest host
Jonathan Graubert
11. Feature producer
Helene Michaud
12. Press Reviewer
Johanna Stoyva

North American Shortwave Association — America's Shortwave Broadcast Club

Quality Equipment From Universal Radio

GRUNDIG

The Great Grundig Satellit 700

By Thomas Baler

This book features an exhaustive analysis of one of the finest portable shortwave radios ever made.

Table of Contents: Preface, History, Editions & Production, Versions, AGC/MGC Preselector, Hints & Mods, AM/FM Test Mode, FM-RDS PI PTY Mod, Buying A Second Hand 700, Mint in box, Satellit 700 and It's Successor, Advertising, Booklets, Disassembling, Lithium Cell, Indicator and SSB adjustment, Satellit 500/700/900, Satellit 700 Owner's Manual, Satellit 700 Service Manual with Schematics. Printed in Germany. ©2002. 60 photos 117 pages (8.2 x 11.4). This is a must have book for any Satellit 700 owner. #1524 \$24.95



GRUNDIG

FR-200



Be prepared and aware with the Grundig FR200 emergency radio. This affordable analog portable receives AM, FM and shortwave in two bands: 3.2-7.6 and 9.2-22 MHz. The FR200 operates from a wind-up generator, 4.5VDC or 3 AA cells. The generator charges the supplied, replaceable NiCad cells. Two turns per second for 90 seconds will provide 40 to 60 minutes of operation. A concentric Fine Tune knob provides smooth, precise tuning. With carry handle and camo canvas carry case. There is also a built-in bright emergency light. Has nice audio. 6.75x5.75x2.75 inches, #2200 \$39.95



THE SHORTWAVE GUIDE - LISTEN TO THE WORLD

By N. Hardyman. This guide uses color bar charts printed on smooth and matt paper to provide a simple and effective tool for the shortwave listener and DXer. It is easy to see what is being broadcast in a particular language at any time. Plus addresses for shortwave stations and radio clubs. © 2002 Produced June 2002 by WRTH Publications 208 p. Order #3145\$17.95

GRUNDIG

The Satellit 700 was designed to accept one, two or three plug-in memory chips. Each optional EPROM chip adds an additional 512 memories.

Grundig EPROM Set? Order #1779 \$11.95 each.

www.RFfun.com

www.universal-radio.com

AOR

LA350



The new AOR LA350 active loop antenna is specifically designed to provide reception when located indoors. Coverage is from 3-30 MHz with the supplied 350H and 350S loop elements. The LA350 may be rotated to achieve maximum signal strength while minimizing unwanted signals and interference. A built-in 13.5 dB signal amplifier, with high IP3 (+30 dB) is featured. The LA350 operates from a 9 volt battery and features a BNC to BNC coaxial jumper cable (if your radio accepts a PL259 then use BNC-PL259 adapter #2124 \$4.95). (Optional 350L longwave element and optional 350M medium wave element will be available soon. Prices to be announced).

LA350 Loop Amp with HF Elements
Order #1806\$29.95

PAR

ELECTRONICS

BCST-HPF BCST-LPF



The Par BCST-HPF is designed to help shortwave listeners cope with interference from AM stations. This 7 pole elliptic high pass filter passes 1.8 to 200 MHz and notches out 0-1.7 MHz. The housing has an SO-239 jack for input and output and also has a toggle type bypass switch.
Order #4426 \$48.95

The Par BCST-LPF is designed to help long wave DXers cope with interference from nearby AM stations above 540 kHz. Stop band is 540 kHz to 300 MHz. The housing has an SO-239 jack for input and output and has a bypass switch.
Order #1143 \$48.95

PAR

ELECTRONICS

EF-SWL



The Par EF-SWL is an end-fed short wave antenna optimally designed for 1-30 MHz reception. The radiator is 45 feet of genuine #14 gauge black polyethylene coated Flex-Weave wire. The UV resistant matchbox houses a wideband 9:1 transformer wound on a binocular core. Unlike other transformers, external stainless studs on the matchbox allow the user to configure the primary and secondary grounds for best noise reduction at their particular location. Examples are given in the manual. Output is via a silver/teflon SO239 UHF connector (ready to accept a PL-259). Lead-in coax cable is not provided. The radiator also attaches via a stainless stud allowing it to be removed, or replaced with a different length radiator for experimental purposes. The included manual shows typical radiation patterns for selected frequencies through out the HF spectrum.
Par EF-SWL Order #2205 \$57.95

TEN-TEC

RX-340



The Ten-Tec RX-340 is the ultimate receiver under \$4000. Visit our online catalog for complete information.

universal
radio inc.

Universal Radio, Inc.
6930 Americana Pkwy.
Reynoldsburg, OH 43068
800 431-3939 Orders & Prices
614 866-4267 Information
614 866-2339 FAX
dx@universal-radio.com
www.universal-radio.com

Quality Communications
Equipment Since 1942

Prices and specs are subject to change.
Prices shown are after milg's. coupons.
Returns are subject to a 15% restock fee.



The 2002 Universal Radio Catalog covers everything for the shortwave, amateur and scanner enthusiasts. With informative photos and full descriptions. Free on request!

1 800 431-3939

www.universal-radio.com

U.S.A. orders under \$100 ship for \$4.95. Under \$500 ship for \$9.95.

Except Alaska, Hawaii and Puerto Rico.

NASA Notes

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

Bill Bergadano, KA2EMZ, (ka2emz@cybercomm.net or P. O. Box 484, Colts Neck, NJ 07722) provides some exciting information for club members: "The NASWA Company Store is pleased to announce the addition to its publication line, the *2003 Passport to World Band Radio*. Orders will be accepted after October 1, 2002 for the pre publication rate of \$17.00 plus \$4.00 shipping in North America, \$6.50 elsewhere. The prepublication offer is only good in the month of October; as of November 1, 2002, the price will be \$21.00 per book, with the same shipping costs. Those ordering prior to publication should note all checks or money orders sent in to the store will not be processed until the actual ship date of the order." Nice going, Bill. I'm sure club members and Company Store regulars will appreciate the addition of this terrific reference work. For those of you that may not be familiar with *Passport*, it is simply the best shortwave radio reference work in the market today. I can highly recommend its purchase.

Risto Vahakainu of the Finnish DX Association provides a report about the recent European DX Council conference: "The EDXC Conference 2002 was held last weekend in Yyteri, Pori, Finland and judging from the feedback the meeting was a big success. The weathers were gorgeous, the Yyteri national park area absolutely magnificent and the programme with its several specialties worked. The www-pages of the meeting will be available up to 20th of September at www.sdxl.org/edxc/edxc2002. Altogether 130 DXers, shortwave listeners and representatives of international radio stations attended the meeting. Over 20 of them also joined the visit to Tallinn, Estonia. The only sad thing of this conference was that in Tallinn our friend from Radio Vlaanderen

International, **Mr. Frans Vossen** injured his knee badly and he had to stay a couple of days at a hospital in Tallinn, before he was last Wednesday transported to Brussels. A bigger surgery operation is needed, and this has probably taken place today. So Frans will be off the air for maybe a couple of months. We wish him a good recovery. As the chairman of the organizing committee I want to thank all organizers, programme presenters and all attendees for making the Yyteri meeting unforgettable."

Thanks for the update, Risto. Of course, the big North America meeting is our own Winter SWL Festival in Kulpville, PA coming up in March, 2003. Watch the *Calendar of Events* and follow updates in the pages of the *Journal* for breaking news.

Check out **Harold Smith's** interesting comments in this month's *Musings*. His suggestion that all musings include a postal address is a good one. Therefore, e-mail contributors please try to include a postal mailing address as well in the future. This will make it easier for non-electronic members to be in touch with one another. Thanks!

The Latin American DX Tour hosted by **David and Jocelyne Ricquish**, which was scheduled to lead a radio holiday tour of the great cities of Latin America in April/May 2003, has been cancelled. Safety and security reasons plus unstable air services to Buenos Aires created the cancellation. This is indeed too bad as the tour included plans to visit many radio stations and meetings with local radio enthusiasts. The tour was designed for DXers, shortwave listeners and radio enthusiasts and all those that enjoy the music and culture of Latin America. Maybe this excellent idea will become workable in the near future.

OUR MOTTO IS - "UNITY AND FRIENDSHIP"


Remember to contact **Ron Hunsicker** (1238 Cleveland Avenue, Wyomissing, PA 19610-2101; e-mail: ronhuns@ptd.net) if you are interested in forming a regional NASWA chapter in the greater Reading, PA area. Anyone that has an interest in shortwave radio is welcome to participate. Ron is willing to be the coordinator so please contact him if you are interested in meeting other club members on a periodic basis. I look forward to seeing you at an upcoming radio gathering.

Special thanks to **Rich Cuff** for enhancing the electronic *Flashsheet* last month with special program listening tips related to the anniversary of the events surrounding 9/11. Periodically, Rich will make contributions through the *Flashsheet* when information becomes available after his *Easy Listening* deadline.


Speaking of the *Flashsheet*, don't forget that for the latest hot DX news, loggings, and information on the shortwave bands, you need to sign up for the club's weekly electronic *Flashsheet*, edited by Sheryl Paszkiewicz, spasz@dataplusnet.com or P.O.

Box 716 Manitowoc, WI 54221-0152 for non-electronic submissions. Join your fellow members in receiving our electronic newsletter which supplements the monthly *Journal* for the timely dissemination of DX loggings and breaking news. It is only available to members. Deadlines are posted in the *NASWA Flashsheet*. If you are a current 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.

Please remember that all communications about subscriptions, bulletin delivery issues, etc. should be directed to **Bill Oliver** at the club's Levittown address or to his new electronic address exclusively for club related business, naswa@worldnet.att.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. 

FRENDX: Twenty Five Years Ago (October 1977)

In the *Loudenboomer Report*, Charlie described a new editorial policy for the IWC/DXA members for reports to the shortwave columns. Glenn Hauser and Jerry Lineback were elected new members of the Executive Council with 114 members casting 237 votes for nominees. Headquarters congratulated *DX Hotline* editor Tom Alleman for a good job with the first four issues. The *NASWA Membership Directory* was dropped because of cost and the time involved pulling together such a project. In Lineback's *Shortwave Center*, Jerry wrote about his visit to Bush House while James Hill wrote about his visit to Radio Tahiti. In Bill Oliver's *QSL Report*, Ralph Pery reported vic #205, Zanzibar, calling it "my best." A number of members reported writing to the BBC about proposed cutbacks in the World Service to North America. In *Log Report D*, Dave Walcutt reported that of the 58 reporters sending in contributions, 44 used the new abbreviations (the NNRC list), 8 stayed with the old NASWA ones, and 6 either spelled out the language names and/or used a combination of both systems. 

N416b

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

Calendar Of Events

- Oct 18 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcsckp@aol.com.
- Oct 18 Meeting. Boston Area NASWA Chapter.** No meetings of the Boston Area DXers have been scheduled while they are looking for a new meeting site. In the meantime, 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/>
- Nov 8 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX)** meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at <radioscan@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>
- Mar 7-8, 2003 Convention. The 16th Annual Winter SWL Festival**, sponsored by NASWA, will be held at the *Best Western—The Inn at Towamencin* (Kulpsville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 7th and 8th March 2003. 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.

Ed Stroh <edstroh@pkFamily.com>

Have you had any experience with any of the noise filters on the market such as the MFJ-1026 or similar? I am considering buying one but need some input.

73, Ed

Rich Hankison <rhankison@planetkc.com>

Hey, guys, this is excellent! (Referring to his first issue of the club's electronic *Flashsheet*.) I edited an electronic newsletter for some five plus years only to burn out on frivolous or copycat loggings. This is shortwave news and this is good DX. The *Flashsheet* just heightened my awareness and has pushed me a step forward toward putting up the DX Sloper again. Thanks a bunch!

73, Rich

Scott R Barbour Jr. <srbjrswl@yahoo.com>, P.O. Box 893, Intervale, NH 03845

I am unable to buy the kilobuck receiver I long for so I am looking for any help, advice, etc in upgrading my antenna system for the upcoming DX season. At this time I am using a Sangean ATS 818 with a 60-ft. Radio Shack antenna kit. This has been more than sufficient as I have logged many weak and distant stations, and have been very satisfied with it in my first year of DXing. I bought it from CCrane and had the antenna jack modified at purchase. I am thinking about buying the DCB-tuner and 220 ft loop that they offer (Sale \$89), but am open to any and all suggestions. I own my house and have an attic for dipoles and 1 acre to construct any antenna I choose. I am not fluent in technical terms so please keep your ideas "user friendly". Any help will be appreciated.

73 Scott

Jim Vecchiola <jimkr2t@magpage.com>

Just wanted to remark about the September 2002 cover. I got quite a chuckle out of the "World Service" for Tristan da Cunha. Blandx did a great job—then I noticed the map in the lower right corner of the picture. Looked familiar to me. A closer look, a what do you know! It was the eastern suburbs of Pittsburgh, Pa. where I grew up. Let's see, there's Duquesne, McKeesport, East McKeesport, East Pittsburgh (where I was born and spent the first few years of my life back in the late forties), and wonder of wonders, there's Turtle Creek. Almost as famous as Slippery Rock!

Just would like to know how or why the "East Boroughs" was singled out for this map. Who or what prompted the idea? That map really took me back—I haven't lived in that area since 1976, and the last time I was a tourist was in 1988.

Jim Vecchiola KR2T

Harold O. Smith, 8604 Eastside Drive NE, Tacoma, WA 98422

I may be your oldest subscriber, 90. My vision is not so keen but I do try to read Musings with a magnifying glass. E-mail and www make me illiterate. From time to time I should like to correspond with one of your contributors possibly one from the Pacific coast. Since I have had a stroke in 1998 I have very few interests outside of the home. It would be helpful if the postal address was included, for a few of us.

73, Harold

Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Bob Montgomery** (Address: P O Box 1458, Levittown, PA 19058). He will forward them to the appropriate editor. Remember, Bob also distributes QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: RMonty3@worldnet.att.net.

Easy Listening

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

DRM—Coming Attractions

Despite the steady retrenchment that has characterized international broadcasting on shortwave in recent years, there is hope on the horizon—*Digital Radio Mondiale*, or DRM for short. This is a technology that uses shortwave frequencies to transmit radio digitally, instead of the analog AM technology that has been used since Marconi's days. DRM is expected to yield substantially improved audio fidelity with no fading or static once the digital signal is decoded inside the receiver. In addition, the transmitter power required to yield decent audio quality is likely to be paltry in comparison to today's analog shortwave: 10-30 kw appears to be sufficient for such signal paths as Europe to North America. This is much less power than typically consumed in analog transmitters, though you can't just compare transmitter powers side-by-side. Software-based PC decoding technology—bring your own (modified) receiver—was recently unveiled by the DRM consortium. It is expected that consumer receivers will be available as of next March/April. While other columns in the *Journal* will focus on the transmitter and receiver technologies embodied in DRM, the *Easy Listening* column will focus on the development and timing of DRM-format programming from the major international broadcasters.

Why mention this now? The current planning from some of the key members of the DRM consortium is to have regularly scheduled DRM programming available as of early 2003, perhaps sooner. My own speculation is that **Deutsche Welle**, **Radio Netherlands**, **HCJB**, and the **BBC World Service** will likely be among the first to schedule DRM programming alongside current analog programming. It is also likely that North America will be an early target for DRM transmissions since we tend to be early adopters of new technologies.

Some have mused that the launch of DRM will fragment and dilute shortwave, further eroding the already shaky status of shortwave in many areas. My recent analysis suggests this won't happen; those behind DRM say they're in it for the long haul—with no need to demonstrate commercial viability in two to five years. Even a ten-year adoption period is considered reasonable. One reason is that the broadcasters already have envisioned uses for DRM encoded transmissions that don't depend on consumer takeup. It is well understood that analog shortwave will be needed for Africa, South America, and much of South Asia for decades to come.

You won't find this timetable for DRM development and rollout at any website, because these predictions aren't considered formal predictions by consortium members. Rather, they're the summary from a series of recent conversations I've had with technical and program development personnel at a variety of broadcasters, including some of those listed two paragraphs above.

Some have argued that DRM should be considered a utility activity, since "regular" analog receivers aren't capable of hearing DRM transmissions. I disagree—the DRM consortium consists largely of non-profit organizations with no financial investors to satisfy, and the technology is essentially "open source" technology. I plan to continue to cover DRM programming developments in the *Easy Listening* column.

If you're interested in updates in the development and deployment of DRM, I can suggest the following web sites:

<http://www.rnw.nl/realradio/index.html>—**Radio Netherlands** has an extensive consumer-oriented slate of information that is reachable from the main *Media Network* site.

<http://www.drm.org>—is the home page for DRM. It's more technology-oriented than the Radio Netherlands site shown above.

<http://www.drmrx.org>—is the web site set up specifically for the software receiver project mentioned above.

Miscellaneous Highlights

Radio Sweden

October sees the announcement of the 2002 Nobel prize laureates, and **Radio Sweden** will feature Nobel prize developments throughout the month as these announcements are made.

Radio Australia

Fridays 1830, Saturdays 1030 and Sundays 2130: **Radio Australia's** education series of documentaries are well worth the listen, as they delve deeply into interesting subjects over a series of six weeks. The current and upcoming series have aired before, but are definitely worth a listen if you missed them the first time around. They include:

Sharing Power—The Ties That Bind: Systems of government are as numerous as there are countries. Australia, like many neighboring countries in the Asia Pacific region, is geographically dispersed and now, quite culturally diverse. Yet each nation has developed distinct constitutional structures, political processes and national values in its particular experience of nation-building. The program looks at how nations develop systems of government that maintain national unity while addressing issues of regional and ethnic diversity. Episodes 4 through 6 will air on the weekends of October 4th, 11th, and 18th.

Corridors of Power: Two world wars and the Great Depression confronted the pioneers of the Australian Public Service. But they rose to these and other challenges to play a crucial role in shaping Australian society. They were called nation builders, working

in an era when, in the words of one of their contemporaries, the public service wasn't afraid to dream dreams. The first of six episodes airs the weekend of October 25th.

These programs are also available on the WRN North Americas satellite/webcast live feed Saturdays 1105 UT. They are also available on-demand; mouse over the "Education" button on the Radio Australia web page and you will see links to both series. The entire program set for both series is already available, as these programs first aired in June and July.

Upcoming topics scheduled for the Radio Australia-produced technology program **Innovations**, airing at the somewhat-inconvenient times of Saturdays, 2330, Sundays 0830, and Tuesdays 2130, include:

Weekend of October 5th: A handle on the tool that makes loosening wheel-nuts on cars and trucks mere child's play; a look at future transport and what sort of vehicles do we need for our rapidly changing cities and suburbs; and a banana grower who's turning waste into wine.

Weekend of October 12th: A look at the innovative environmentally friendly natural gas plant that promises to make small gas fields worth exploiting; and the backyard battlers who are hoping to revolutionize world transport.

Weekend of October 19th: Australians developing an anti-obesity pill that burns off fat; a new way of getting rid of a fish that's destroying waterways and test-tube seedlings.

Innovations is archived for on-demand listening at the Radio Australia website, at URL <http://abc.net.au/ra/innovations/default.htm>.

Also, on Sunday, October 27th, Australia moves to Daylight Saving Time, resulting in some program shuffling. On Saturday and Sunday **Grandstand** will be heard at

0110–0700 UT. **Australia All Over** will move to 1905 UT on Saturday. Interestingly, the Radio Australia overnight relay of Radio National (currently 1500–1900 UT) will remain the same in Universal Time even though its domestic time will change.

Radio Yugoslavia

Radio Yugoslavia has returned to shortwave, with North America targeted at 0000 and 0430 UT with 30 minutes of programming on 9580 kHz. I don't have their topical schedule handy, so I can't tell you what's on when.

Radio Canada International

The CBC has announced a substantial revamp of its **Radio One** spoken-word network; previously announced schedule changes include a new, live-to-all-time zones morning program along with increased emphasis on serving a more youthful, more multicultural audience than is currently served by Radio One. It appears the new schedule might take effect as of Saturday, October 12th, judging by the lack of advance schedule information from that day forward at the CBC website.

This is relevant for RCI listeners since relays of Radio One programming comprise a fair amount of the RCI program schedule, including such favorites as *Quirks and Quarks* and *Global Village*. I'm sure we'll have information in the *swprograms* e-mail list when the changes happen, and I'll send along an update to the NASWA Flashsheet as well.

Other seasonal schedule changes

Courtesy of Daniel Sampson's highly useful *Prime Time Shortwave* website (<http://www.triwest.net/~dsampson/shortwave/>), here's the schedule of time changes coming in October. Shortwave programming schedules are often tweaked at the time of seasonal changes.

October 6th: Israel reverts to standard time, and its schedule will shift one hour forward in UTC.

October 27th: Europe, Canada, and most of the USA revert to Standard Time. The BBC World Service schedule will be somewhat rearranged, if the past can be used as a guide. Programs currently airing from 2200 through 0500 will move one hour forward UT. For example, a program previously airing at 0100 UT will move to 0200 UT. Other programs that target specific regions, such as *World Update* (currently 0900 UT) and *Europe Today* (currently 1600 UT) will also move forward one hour.

BBC World Service Highlights

Ironically, the World Service theme for October is censorship. Programs in music and drama will feature instances of content that has been banned in country or another for various political or social reasons. In addition to those highlights shown below, both *The World Today* and *Newshour* will include segments with this theme. Other highlights include:

Arts, music and entertainment

Mondays 1405, Tuesdays 0005, Wednesdays 0505: *Meridian—Masterpiece* profiles *Uncle Tom's Cabin* in October. Two days later in the week at the times shown, *Meridian—Writing's World Book Club* begins reviews *Money—A Suicide Note*, written by Martin Arris.

Sundays 1305 and Fridays 0305, beginning October 6th: *Composer of the Month* takes a four-week look at four 20th-century German composers and their varying responses to Nazi dictatorship. Berthold Goldschmidt, Boris Blacher, Werner Egk, and Karl Amadeus Hartmann are profiled.

Weekdays 1345 and Tuesdays–Saturdays 0345: *Off The Shelf* features Alexander Dumas' gripping *The Count of Monte Cristo* for a nine-day run beginning November 14th. Tim Pigott-Smith reads the adventure as Edmond Detas' victims fall prey to their own greed and ambition.

Lifestyle, culture and beliefs

Fridays 0130 and Mondays 1530, beginning October 25th: **Going Home** is a two-part 30-minute documentary series profiling a Sierra Leonean living in Russia and the UK, and a Nigerian living in London, as they return to their native countries after years abroad. The in-person impact of events previously followed at a distance is the focus of **Going Home**.

Saturdays 0130 and Tuesdays 1530, beginning October 5th: **Gunrunners** is a four-part 30-minute documentary series focusing on the murky world of gun trafficking.

Wednesday, October 23rd, 0130 and Thursday 1530: **Omnibus**, that wonderful weekly documentary program that tackles a variety of topics for 30 minutes, visits New Mexico for the Hatch Chile festival. I'll bet you didn't know that New Mexico produces more chiles than any other USA state!

Weekend offerings

Saturdays, 2301 and Mondays 0530: **Play of the Week** includes three works that were banned at one point in their history.

October 12th /14th: George Bernard Shaw's **Mrs. Warren's Profession** is the witty but heart-breaking story of "bright young thing" just down from Cambridge University, who discovers her mother's real occupation. The play was published in 1894 and banned until 1925 for being "morally defective". This edition runs 90 minutes—30 more than usual.

October 19th/21st: Cont Mhangla's **Workshop Negative** examines hypocrisy and corruption at the heart of the new Zimbabwean government of the early 1980s. Mhlanga narrowly escaped having the fingers on his writing hand amputated when he was hounded and detained after the play was first shown in 1985.

Current affairs

Fridays 2230 and Saturdays 0630: **People and Politics** returns to the World Service schedule. This is a weekly 30-minute look at British politics; it's interesting if you follow political developments in the UK, but avoidable if you don't care about them.

Science, Technology and Health

Thursdays 0105 and Fridays 1505, beginning October 17: **Discovery** features a new three-part series, **Natural Born Killers**. The series look at the methods used by scorpions, spiders, toxic bacteria, and cheetahs to kill their prey—all among the most effective killing machines in nature.

Tuesdays 0105 and Wednesdays 1505, beginning October 22: **Health Matters** returns to the World Service schedule, with its first program focusing on blindness, looking at causes and treatments around the world.

See you in November!

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

R2CD

By Jerry Berg

Here are some thoughts on a major project I completed recently—the transfer of 36 reel-to-reel shortwave recordings to CDs.

I started using a reel-to-reel (R2R) tape recorder during my early DXing days in the late 1950s. At that time, it was a Wilcox-Gay "Recordio." I had other recorders over the years, eventually graduating to a Tandberg 1521 monaural R2R which I bought new in 1983. I still have some random ID tapes from 1959-60 and, while I often sent R2R taped reports in those days, I did not routinely keep tapes of what I heard (ahh, the folly of youth). I got into serious taping around 1975 when I became interested in Latin American stations. I did not send many reception reports to LAs back then, but I wanted something tangible for my efforts, so I taped IDs. I concentrated on LA stations at first and eventually started taping pirates and some of the more interesting non-LAs. I left R2R late, shifting to cassettes in 1990.

I intended to start this R2R-to-CD project a long time ago, but my Tandberg machine had other ideas. When I turned it on for the first time in an age, the drive belt broke. Tandberg does not sell parts direct and sent me to a guy in New York City who seems to be the only U.S. source for elder Tandberg tape recorder parts. Naturally, the belt was out-of-stock and it took many months, and several calls and letters, before it finally arrived (don't ask how much I had to pay for it). I had doubts that it would ever arrive, so I bought a used Sony R2R recorder for \$35, just to get the project going. Of course, once I did that the belt arrived. I started with the Sony unit, which did well until it ran out of gas about half way through the job, at which time I finally installed the belt in the Tandberg and continued with it.

Despite the fact that I had taken no special precautions with the tapes, even keeping them for several years in the attic where they were exposed to extremes of heat and cold, they had suffered no noticeable degradation. I have separate reels for the different geographic parts of Latin America, e.g. several reels contain only Brazilians, others contain only Peruvians, and so forth, plus other reels of non-LAs. These "archive" reels had been assembled from individual recordings which I would snip from the "working" reels. All recordings are separated with paper leader tape containing the station name and date, time, and frequency of reception. About 95% of the splices had been made with splicing tape and all of them held. I wish that were true of the "Scotch" tape splices that I made when I got careless. Most of them had to be redone, which was an intermittent pain. I also had a written index of each reel.

It took many weeks to go through all the reels. Some of the ID recordings are just a minute or so in length, but most are 2-4 minutes, some longer. In addition, I have five reels containing various other, longer, recordings, such as special programs recorded off-air or reception report tapes that stations had returned, recorded over with studio quality material; plus some tapes recorded by others, including a 1972 ID tape from Larry Magne and a 1971 interval signal tape from Ed Shaw. I decided to transfer everything that was on reels.

My original plan was to connect the R2R recorder output to the computer audio card input and make .wav files directly from the tape. This did not work for two reasons. First, I could not get a good audio match between the two, and second, the mechanics of operating the recorder and the computer simultaneously were too awkward.

Both R2R recorders were mechanical units, not solenoid controlled, and old-fashioned lever-pushing was necessary to operate them. This does not go well with pointing and clicking, and the whole process was too klunky. So I decided to go from reel to cassette and then from cassette to .wav. I thought this would result in reduced audio quality, but it did not—the .wav files sound better than the originals on reel. However, the process doubled the duration of the project because first I had to record from the reels to the cassettes and then from the cassettes to the CDs.

I used the audio software that came with my sound card, a program called "Creative Recorder." Choosing the proper .wav recorder settings is largely a matter of taste. A 48 kHz sampling rate is noticeably much better than, say, 8 kHz. However, the difference between 48 kHz and a rate such as 24 kHz is more subtle, though not completely unnoticeable. I would up using 48 kHz (mono) because it yields the brightest audio overall. As to sampling size, 16 bit eliminates all signs of background hiss, but it also doubles file size. For example, recording at 24 kHz, 16 bits, yields a file of roughly 2.8 MB per minute of recording time, as does recording at 48 kHz, 8 bits. Other settings produce smaller or larger files. Since background hiss was not a significant problem on these recordings, an 8 bit sampling size seems like a good tradeoff, and that is what I used. At that file size, and given the capacity of CDs, I saw no reason to use compressed formats like "mp3" or "RealAudio."

I put the .wav files on a series of 25 CD-RWs using "Adaptec Easy CD Creator," a program that comes installed on many PCs. The Latins are kept on country specific CDs. I also have separate CDs for X-band stations, North American pirates, European pirates, and "general" stations, plus CDs for other off-air R2R recording, reel tapes received from stations, and reel tapes received from others. I have left room on the CD-RWs to add new recordings, although right now I am keeping new recordings on a single CD. Perhaps I will move then to the archive CD-RWs later.

After completing the transfer process, I decided to make a second set of CDs on CD-Rs, which are supposed to be more reliable for long term storage. The process of transferring from a set of CD-RWs to a set of CD-Rs is simple (I have two CD drives) albeit, again, time consuming. "Easy CD Creator" did the job nicely. I recorded the CD-Rs in audio format so as to be playable on a regular CD player as well as a computer, and I am glad I did because the sound of even the worst recording played through a home stereo is quite impressive—"big" and detailed. However, with audio CDs you run up against the 70-80 minute capacity of the CD, even if the recorded material in .wav format takes up less than the usual 650-700 MB capacity of a CD. For example, my one Brazilian CD-RW contains 517 MB of .wav files, or a running time (at 47 kbs) of approximately 183 minutes if all 94 recordings are played back to back. Three audio CDs were required to hold the same material because each audio CD is limited to 70-80 minutes. So the 25 CD-RWs became 56 audio CD-Rs. However, the quality of playback on the audio CDs is definitely worth the effort.

I used a uniform file naming system (country, station name and location, frequency, date, and time), so "Windows Explorer" arranged the CD-RW file names alphabetically by country, then station. I made screen prints of the "Explorer" content of each CD and pasted them into a word processing program, yielding a handy, alphabetized paper index for each disk. I called the whole thing "JB's DC Audio Archive" and prepared CD labels and put the CDs in a carrying case.

Also in my collection are about 75 cassettes containing some interesting things: longer recordings of some stations, lots of studio recordings received from stations in response to reception reports (many Europirates), some off-air recordings of various programs about shortwave history, and a few music tapes and miscellaneous things. It looks like cassettes will be a viable medium for the foreseeable future, so I have no plans to convert the cassettes to CDs. (The bigger

problem is likely to come if the .wav format becomes outmoded.)

There are basically two reasons to undertake a project like this. The obvious one is that R2R machines are largely a thing of the past, and once they become sufficiently difficult to find or repair, you will lose the ability to access the recordings altogether—not a happy thought. However, a second reason is the sheer fun of it. Despite the tedium of the transfer process, I got a huge kick out of reliving all these logs. I can still remember the circumstances surrounding some of them. The project was also a reminder of how much the bands have changed. Few of the LAs I have on tape are still on shortwave.

When I was finished making the 650 reel to CD-RW transfers, I added 188 additional IDs—mostly recordings from the 1990s that I already had in .wav format, plus a few other IDs I had on cassettes. So the grand total of station IDs logged by me, now all on CD, is 838, of which 477 are Latins. Included in the balance are 63 North American pirates, 56

European pirates, 162 general IDs, and some others. IDs and interval signals recorded by others on R2R comprise an additional 200+ files. From among my own recordings, my favorites include: the Central American clandestines of the late 70s and early 80s, 1620 pirate WFAT (1979), Polish Pathfinders Stations (1980), IBRA Radio over R. Africa Tangier (1959), R. Candip (1982), R. Syd, Gambia (1984), the many Venezuelans that used to be on the air (total recorded is 47, and the Falklands (1983). Polish Pathfinders is a good example of an “unforgettable” DX experience. I heard only their IS for several minutes before it was blocked and I OSled them based on the tape—truly a once in a lifetime log, and I still have the recording.

This was definitely a worthwhile, if time consuming, project, and I would recommend it to anyone with station recordings on R2R. In the best of circumstances, accessing R2R recordings is clumsy and time consuming. Now I can listen to any recording with just a few clicks.

DX Target: Radio VNG

Australia's Standard Frequency and Time Signal Service

By Richard A. D'Angelo

The shortwave spectrum is littered with interesting signals to monitor. As members of a shortwave oriented club, we naturally place a high priority on high frequency broadcasting by domestic and international stations. Nevertheless, time signal stations have been staples on the shortwave bands for many years. Unfortunately, in recent years the number of such stations has diminished. This DX Target feature is about one such station, located in Australia, that has been a favorite among DXers for many years. When this station leaves the shortwave spectrum at year-end, it will be a loss of a long time favorite among spectrum users.

Much of the material used for this feature

came from the National Standards Commission website (<http://www.nsc.gov.au/>) and direct replies from the station. The National Standards Commission (“the Commission”) is a Commonwealth Statutory Authority established in 1950 and operating under the Australian National Measurement Act. The Commission has responsibility for advising the Government on the needs of the national measurement system and for coordinating that system. The Commission is charged with being a center of excellence in legal metrology, advancing Australian economic interests at a national, regional and international level. Their mission is to support commercial transactions and government regulations with a uniform national measurement system, harmonized to international standards.

Introduction

The National Time Committee under the auspices of the Commission coordinates Australia's time system. Precise measurements of time are carried out by a number of organizations including CSIRO in Sydney, Telstra in Melbourne and the Australian Surveying and Land Information Group ("AUSLIG") in Canberra. CSIRO also coordinate Australia's contribution to the international time system. The implementation of civil time including time zones and daylight saving from these measurements is still the responsibility of the individual States and Territories. Time signals are disseminated throughout Australia by Telstra's landlines, the speaking clock and Radio VNG the national standard frequency and time signal service.

Radio VNG is Australia's standard frequency and time signal service. For years people and organizations throughout Australia and the world have made use of the time signals broadcast by Radio VNG. The time signals are used for surveying, geophysics and navigation. Radio VNG users include seismologists, astronomers, upper atmosphere physicists, surveyors, geophysicists studying the Earth's magnetic field, amateur radio operators and shortwave listeners. This service forms part of Australia's technological infrastructure by providing a signal of moderate accuracy (1 millisecond) that can be readily accessed with relatively inexpensive equipment. It is also used to confirm any ambiguities inherent in more precise methods of time comparison. In addition, for shortwave listeners Radio VNG provided a useful barometer to gauge reception conditions toward Australia and New Zealand.

Background

The time signal service was inaugurated by the Australian Post Office on 21 September 1964. For approximately 23 years, Radio VNG was broadcast from Lyndhurst, Victoria, which is about 37 kilometers southeast

of Melbourne. Telstra (formerly Telecom Australia) funded it and their research laboratories at Clayton, Victoria, conducted the monitoring and research.

In late 1986 users of the service provided by Radio VNG were rocked by the news of its impending closure. The Precise Time Working Group, now the National Time Committee, conducted a survey to ascertain the usage of the service and the scientific and economic impact of its closure. The survey results showed that there was extensive and diverse usage of the service throughout the community. This usage by the very nature of its application was difficult to quantify economically.

Following the closure of Radio VNG in October 1987, a seminar was convened to investigate what provisions needed to be made for an intermediate accuracy time service and to consider the extent to which the provisions for high accuracy time comparisons were meeting Australia's needs. Several alternatives to Radio VNG were discussed but each was found to have significant disadvantages in terms of accessibility and cost compared with Radio VNG's time service. It was recommended by the many participants at the meeting that Radio VNG be reinstated; that the service be recognized as part of Australia's technological infrastructure and be funded by the Federal Government. At this time no single department or authority was identified to fund the operation of Radio VNG.

VNG Users Consortium

The VNG Users Consortium ("the Consortium") was formed to re-establish Radio VNG and to collect donations from former users to dismantle, pack and transfer the transmitting equipment to a new location.

At their inaugural meeting on 25 February 1988 the organizers wrote to all known Radio VNG users requesting contributions

towards the cost of acquiring the Radio VNG plant and reinstating the service. The response was overwhelming. Private individuals, many of whom were not paid for the activities for which they used Radio VNG, contributed up to \$100.00 Australian out of their own pockets, and some organizations contributed up to \$2,000.00 Australian to try to save this national facility. This enabled the VNG Users Consortium to pay for the relocation of Radio VNG from Clayton in Victoria to what was then the Civil Aviation Authority's International Transmitting Station at Llandilo, NSW, in June 1988. Today, Radio VNG broadcasts from the AirServices Australia, International Transmitting Station, located at Llandilo, NSW, position 33°42'52"s, 150°47'33"E.

As a result of users being willing to contribute money to save the service, AUSLIG agreed to meet the costs of setting up at Llandilo and to cover the running costs on a partial recovery basis from users. The role of the VNG Users Consortium was to raise some of this money, to represent user interests to various Government bodies, to answer queries, and to verify reception reports. The Consortium also negotiated with the Department of Transport and Communications and the Royal Australian Navy for extra frequencies for Radio VNG, since its old frequencies were in the wrong part of the radio frequency spectrum.

As a result of protracted efforts over several years, Radio VNG transmits on five frequencies instead of the original three. Other contributions by the Consortium include provision of station identification announcements, the addition of a talking clock, and the purchase of the first 2,500 kHz transmitter and a new AWA digital announcing machine.

The Present Situation

As part of its responsibility of coordinating the national measurement system, the Commission took over the funding of Radio VNG from AUSLIG in November 1992 and on

12 January 1993 became the owner of the transmitting license. The Commission also administers the National Measurement Act of 1960 and the Regulations empowered under it. These Regulations define the units of measurement used for legal purposes in Australia, including the units of measurement for time.

The Commission took over the recurrent funding of Radio VNG on a non-cost recovery basis in 1992 taking a large burden off Consortium volunteers, who have always done their work unpaid on their own time. The Commission now issues most of the QSLs, though the VNG Users Consortium also answers queries where appropriate. The Consortium still provides the voice announcements and represents user interests to the Commission through its National Time Committee.

The most recent improvements to the Radio VNG time service were the addition of a talking clock that went to air on 15 January 1992, and a 1 kw 2,500 kHz transmission which began on 7 October 1992, to improve reception in the Sydney metropolitan region. Additional transmitters have also been acquired to provide backup to the existing system. A digital voice-announcing machine, with no moving parts replaced the less reliable tape cartridge machines in early 1994.

Future Developments

The provision of infrastructure services such as the Radio VNG standard frequency and time signal services are essential to support continued research, development and innovation in a technologically advanced society. An important part of the Commission's role is ensuring that these basic technological infrastructures are readily available to the community at a reasonable cost.

Recently the National Time Committee has been considering the possibility of introducing a low frequency time signal service. This would facilitate the use of

self-correcting time pieces in Australia. These devices regularly correct themselves to the national time and automatically make adjustments for daylight saving and leap seconds etc.

Although it was announced that Radio VNG would close on 30 June 2002, the Commission decided to postpone its closure for six months to ensure that all users were given every opportunity to make alternative arrangements. The offer is subject to the following conditions:

- The VNG Users Consortium provide a voice announcement for broadcast on Radio VNG from mid-July 2002, advising all users that the service will close on 31 December 2002.
- The VNG Users Consortium inform its members in writing, before the end of July 2002 and again before the end of September 2002, that they will need to make their own future arrangements to receive time services from other sources after 31 December 2002.
- It is clearly understood that the Commission is unable to provide any alternative to Radio VNG and the VNG Users Consortium needs to encourage users to develop means of obtaining the time information that they need from alternative sources.
- In the event of a major breakdown in equipment, the Commission will not be able to guarantee the continuation of the service for the full six-month period.

Therefore, it looks certain that the end of 2002 will relegate Radio VNG to the great scrap heap of shortwave radio signals.

Technical Information

The service employs STC double sideband, full carrier AM, high frequency broadcast transmitters. The 2,500 kHz service uses a STC 4SU55A/s transmitter while the 5,000

kHz, 8,638 kHz, 12,984 kHz and 16,000 kHz services employ STC 4SU48B transmitters. The transmitter frequencies, powers and transmission modes are 2,500 kHz at 1 kW, emission mode to be advised, 5,000 kHz at 10 kW, emission mode 6K00B9W, 8,638 kHz at 10 kW, emission mode 3K00A1A, 12,984 kHz at 10 kW, emission mode 3K00A1A, 16,000 kHz at 5 kW, emission mode 6K00B9W. The 8,638 kHz and 12,984 kHz frequencies are on loan from the Royal Australian Navy.

Antennae consist of a 2,500 kHz monopole (vertical antenna), a 5,000 kHz Wells quadrant antenna, and 8,638 kHz delta-matched quadrant antenna with a single wire per arm for 8,638 kHz, 12,984 kHz and 16,000 kHz.

The transmission schedule offers continuous service on 2,500 kHz, 5,000 kHz, 8,638 kHz and 12,984 kHz. The 16,000 kHz channel provides service from 0200 to 1000 UTC.

A voice station identification announcement is provided on the 2,500 kHz, 5,000 kHz and 16,000 kHz services only using an AWA digital voice recorder. It is given during the 15th, 30th, 45th and 60th minutes without interruption to the time signal. The speech is "notched" to allow seconds markers to continue and has spectral components around 1,000 Hz removed to avoid erroneous operation of tuned relay time circuits. Morse station identification is provided on the 8,638 kHz and 12,984 kHz frequencies only. It is given during the 15th, 30th, 45th and 60th minutes without interruption to the time signals. VNG is transmitted in slow Morse at a frequency of approximately 400 Hz up to six times per minute. Broken identifications may occur at the beginning and end of the minute.

Awards Consideration

As most club members know, NASWA offers an extensive array of interesting awards for shortwave listeners to earn. The club's Awards Program, managed by Gary Neal (7410 Orchard Hills Lane, Sugar Land,

TX 77479-6122, USA) is one of the most comprehensive in the hobby and is open to members and non-members. Currently, there are over fifty individual awards in five different categories available. Further information about awards is available online at our website (<http://www.anarc.org/naswa>) or by obtaining a hardcopy of the Country List and Awards Program booklet for US\$3.00 direct Bill Bergadano, KA2EMZ <ka2emz@cybercomm.net> at the Company Store (P. O. Box 484, Colts Neck, NJ 07722, USA).

The club offers two specialty awards for hobbyists that collect QSL verifications from time signal stations. The first is the *Senior Time Station DXer* for verification of at least 10 different Time Stations with at least one station broadcasting from each continent. The other is the *Master Time Station DXer* for verification of at least 20 different Time Stations with at least one station broadcasting from each continent. These awards are interesting to chase and challenging to obtain. When Radio VNG leaves the air on 31 December 2002, the ability to earn these awards will be severely diminished unless a replacement time signal station commences operation on the shortwave bands from Australia.

Conclusion

Radio VNG is Australia's standard frequency and time signal service. This service provides a signal that can be readily accessed with inexpensive shortwave equipment. Unfortunately, its days on the shortwave bands appear to be limited. Without further intervention on the part of its users, Radio VNG is scheduled to conclude shortwave broadcast operations on 31 December 2002.


Historically, Radio VNG has been an excellent verifier of listener reception reports. All correspondence, including reception report and requests for QSL verifications should be addressed to:

Radio VNG
National Standards Commission
P. O. Box 282
North Ryde, NSW 1670
Australia

In the past, QSL verification cards and letters and information about the VNG Users Consortium has been available directly from the Consortium by writing to:

Dr. Marion Leiba
Honorary Secretary
VNG Users Consortium
GPO Box 1090
Canberra, ACT 2601
Australia

Dr. Leiba has been an enthusiastic Consortium volunteer since the user group was established in 1988. Naturally, reception reports should be sufficiently detailed to permit verification and should include return postage, preferably in the form of an International Reply Coupon (or US\$1.00), which would be appreciated from other than VNG Users Consortium members.

As always, remember to send in Radio VNG logs to electronic *Flashsheet* editor Sheryl Paszkiewicz and to either Dan Ferguson and/or Wallace Treibel for the *Log Report*. Of course, those interesting and rare QSL verifications should be sent to Sam Barto for inclusion in the *QSL Report* column. Since its days are numbered, you should try to catch this station on shortwave radio while you can! Good luck with this DX Target. 

Technical Topics

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

Quick (But Not Dirty) SWL Vertical

By Alan Bosch K04ALA
5832 North 20th Street
Arlington, VA 22205
labosch@erols.com

Editor's Note: This month we have another guest author who has taken the time to share an idea with other NASWA members.

Vertical antennas can provide a simple and unobtrusive way to intercept those weak SW signals even if you live on a small city lot or a townhouse. However, erecting a conventional 33-foot vertical antenna is not a trivial task.

Here Alan Bosch describes how he made use of an existing antenna support mast for a discone scanner antenna and an obsolete CB dipole to make a full size quarter-wave vertical centered on 7 MHz. This antenna should be useful on all SW bands up to about 18 MHz and could even work as a transmitting antenna on the 40 meter ham band.

You probably don't have an exact duplicate of Alan's situation, but the basic idea of using a stainless steel CB whip to extend the height of a vertical antenna is a good one. Feel free to adapt Alan's design to your own needs.

This antenna project was occasioned by the desire for a longer utility vertical to complement an AlphaDelta sloper used for shortwave listening with

a Drake R8B. It turned out to be well suited to the two-story Cape Cod houses so prevalent in Northern Virginia where I live—and a reliable performer to boot.

The unit actually evolved from an 11m vertical dipole made out of two 108" stainless steel Citizen Band whips and a couple of Radio Shack truck-mirror mounts. Used for REACT and SWling, it was affixed to a piece of 1.25" aluminum tubing standing off at the roof peak from the 15' vertical mast which supports the high end of the sloper and a Diamond wideband discone. A photo of the configuration is shown in Figure 1.

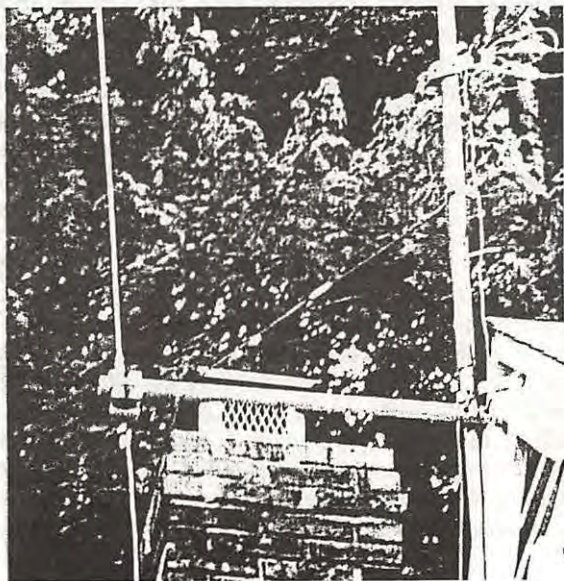


Figure 1. An existing mast and a CB whip make a 33 foot vertical suitable for SWL and ham radio applications.

The conversion involved only removing the dipole's bottom whip and replacing it with 25' of insulated 14 gauge wire connected to the upper element via its SO-239 fitting on the mirror mount. The new wire was secured at its lower end to a ground rod with a couple feet of nylon line—and created a 33½' vertical radiator standing about 3' away from the house.

The CB whip, of course, facilitated a full-quarter 40–41m vertical without the need for another standoff to support the top portion of the radiator, as would have been the case using wire all the way up. So far, the most blustery winds have not caused it to touch the discone's metal mast, which is grounded to its own copper rod.

(Radio Shack's current part number on the whip is 21-903 @ \$14.99. They no longer sell the mirror mount alone, but Transel's T100ADT @ \$7.95 will work. See www.transeltech.com.)

As for feeding the SWL version, a 20' coax run into the shack was made possible by a Palomar hi-z "magnetic" balun with its PL-259 shell connected to the vertical's ground rod. (The balun is their MLB-1 @ \$49.95. See <http://www.palomar-engineers.com>.)

I am quite pleased with the setup. There are times when it is worth 20+ dB over the sloper on receive, though with some noise increment just because of its vertical orientation.

A set of 4–6 in-ground quarter-wave radials is projected for ham use in the future. The trick will be to devise a remote control to switch out the receive-only balun and switch in the radials to maintain the use of the coax in both SWL and ham radio modes.

Editor's Note: The use of a current balun in this application would be a better solution to isolating the coax shield from the antenna in my opinion. The Radio Works in Portsmouth, VA sells several models designed to handle 1 kilowatt of RF power for a price less than the MLB-1. The Radio Works catalog is available at <http://www.RadioWorks.com>. For ham radio application this solution would avoid the use of a remotely controlled switch to bypass the MLB-1 when transmitting.

The SWL performance of the two approaches would be similar in my opinion but the relative performance has not been tested.

It might also be a good idea to construct the horizontal standoff from an insulating material like schedule 40 PVC pipe if this antenna is to be used for transmitting. The RF voltage near the top of a quarter-wave vertical can get quite high and might break down the insulation of the whip mount causing an RF arc to the grounded metal standoff pipe.

Thanks to Alan Bosch for his contribution. Now where is that article you have been intending to write? Until next time, stay tuned.

SAV

For sale: WRTH 1997, \$10.00; 2000, \$15.00; 2001, \$18.00. Perry Ferrell's Guides: RTTY Frequencies, 2nd Edition, \$5.00. Confidential Frequency Lists, 6th Edition \$8.00; 7th Edition, \$10.00. All items include shipping (overseas shipping extra). Cashiers check or money order only, please. Al Drehmann, 389 Laurel Heights Lane, Tryon, NC 28782-6643. E-mail aldreh@alltel.net. Phone 828-894-3398. No collect calls, please/

Adrian Peterson's Diary

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

Radio Broadcasting from Ships in New Zealand Waters

The South Pacific nation of New Zealand was settled first by Polynesians migrating south from the Central Pacific more than 1,000 years ago. The islands were first visited by European explorers in 1642 when Abel Jans Tasman tried unsuccessfully to make a landing. He named the islands after "Sea-Land," a coastal province in northern Holland.

The first European settlements were established by foreign traders around 1790, and British administration of New Zealand was established from Sydney in 1839. The Treaty of Waitangi in 1840 guaranteed the rights of the Maori people, and in 1841 New Zealand became a separate Crown Colony. Although there was some discussion with Australia around the turn of the century a little more than 100 years ago, New Zealand opted not to be federated into Australia, and separate Dominion status was granted in 1907.

New Zealand lies 1,000 miles off the coast of eastern Australia, with the Tasman Sea separating the two countries. In the era of travel before airplanes were modernized, obviously sea travel connected the two countries to each other and with the rest of the world.

In those days, all of the large ocean going passenger liners and cargo vessels were constructed overseas, usually in England and Northern Ireland. Several of these ships were noted with the broadcast of radio programming, and we look at these in this edition of *Wavescan*.

On February 3 in the year 1931 there was a massive earthquake in the Hawkes Bay area, on the west coast of the north island of New Zealand. Telephone communications

were knocked out and electricity services were disrupted. The only means for adequate communication was by radio, amateur and professional.

It so happened that the Royal Navy vessel, HMS "Veronica," was anchored in Hawkes Bay near the city of Napier at the time, and their radio equipment relayed personal messages, voice reports and radio programming out of the area for wider broadcast. Several other unnamed ships at anchor in Hawkes Bay also provided a similar radio relay service.

In the year 1934, a refrigerated cargo vessel, the "New Zealand Star," was launched at Belfast in Northern Ireland. This ship was considered to be the most modern ship of its type, and it was constructed for the New Zealand meat trade.

The launching ceremony was scheduled for Thursday morning November 29, 1934 at Belfast in Northern Ireland, and it was planned that this event would be broadcast worldwide on shortwave. In preparation for the launching ceremony and the radio broadcast, a rehearsal of the entire program was conducted on the Monday, four days in advance.

The New Zealand section of the rehearsal ceremony, including a speech by the Governor-General of New Zealand, Lord Bledisloe, was broadcast from the 1 kw shortwave transmitter of station ZLW at Titahi Bay, near Wellington. In Sydney, station VK2ME relayed the rehearsal program to London with one of its 10 kw shortwave transmitters, where it was recorded as a precaution in case of propagation difficulties at the time of the actual event.

The rehearsal broadcast from ZLW was heard in Melbourne quite by chance by the column reporter for the weekly radio journal, "Listener In," and he reported the event a few days later in his newspaper.

The Australian trade magazine, "Broadcasting Business," reported in full detail in 1937 about a special broadcast from the passenger liner "Mariposa." While the ship lay at anchor at Circular Quay in Sydney Harbour, AWA engineers installed a 250 watt broadcast transmitter. This unit was tuned to 190 metres, 1580 kHz, which was at the time just above the top end of the standard broadcast band.

While the "Mariposa" was still an hour or two away from Auckland Harbour in New Zealand, a broadcast was made over this small and temporary radio station. The live programming consisted of songs by the famous Italian tenor, Tito Scipa, and a speech by the Mayor of Auckland, Sir Ernest Davies. This programming was picked up by station ZB in Auckland and relayed on the ZB network throughout New Zealand.

While the "Mariposa" was anchored at Suva in Fiji, Tito Scipa made another broadcast, though this time in the Suva Town Hall and not from the ship itself.

Another New Zealand vessel, the "Dominion Monarch," made an international radio broadcast while on its maiden voyage to London in 1939. This event was reported in the daily newspaper, the "Melbourne Herald," on February 10, 1939.

In 1947, DXers in New Zealand heard radio communications on 4460 kHz from the inter-island ship, the "Hinemoa," under the callsign ZMFQ. The DX report in the Australian magazine *Radio & Hobbies* states that the 500 watt transmitter was constructed as a broadcast transmitter, but it was instead installed in the "Hinemoa." Even though this transmitter was a broadcast quality transmitter, there is no reference anywhere to the broadcast of radio programs from this ship.

The most famous of all radio ships in New Zealand waters during this era was the passenger liner "Awatea," but that's an interesting story for another time.

The Story of the Wandering Apache

The Apache Indians lived in the southwest of what is now the United States, and they were made up of five different tribal groups. The Apache Indians became famous, in legend at least, as a wandering people, giving rise to the designation, the "Wandering Apache."

There was an old ship that was built in Baltimore, Maryland, and launched in 1891. Under its original name, the "Galveston," this ship saw duty in the Spanish-American War, after which it was renamed the "Apache." This ship was de-commissioned in 1937, and after the American entry into World War II it resumed official duties as a troop transport.

In the year 1944, the "Apache" was taken to Sydney, Australia where it was totally rebuilt and equipped with electronic equip-

ment for service as a radio broadcasting ship. Generators, receivers, cables, antennas, all were installed, including two shortwave transmitters at 10 kw each.

This mobile broadcasting station sailed north from Sydney in late September 1944, arriving at General Douglas MacArthur's headquarters at Hollandia, New Guinea on October 10. Two days later the "Apache" joined a flotilla of American war vessels for the return invasion of the Philippines.

It was somewhere around mid-morning of October 20 that the "Apache" made its first transmission, a navy report to California about the new invasion of the Philippines. The allocated callsign for this radio broadcasting ship was WVIC, reminiscent of the Australian callsign, VIC in Shepparton, Victoria.

For the next one and a half years, the "Apache" was heard on the air quite often, sometimes with the relay to America of Pacific war news & reports, and sometimes with the onward relay of radio programming from the shortwave stations in the Voice of America network in California.

After a spate of on air service in Manila Bay, the "Apache" moved to the Lingayen Gulf early in the new year 1945 to cover the moving tide of warfare on the island of Luzon. At the time of the signing of the surrender documents on the USS "Missouri" in Tokyo Bay, the "Apache" was there, but it was silent, simply because the more powerful land based shortwave station at Nazaki in Japan was carrying the programming on relay back to America.


After this, the "Apache" was noted with radio despatches and occasional programming off the coast of Korea, and then further south off the coast of China.

The saga of radio broadcasting from the reconditioned "Apache" came to an end on April 20, 1946, when the American navy vessel, USS "Spindle Eye" took over not only the radio programming but even the callsign WVLC. The "Apache" was decommissioned, and then in 1950 it was scrapped.

During its 18 months of radio history, the "Apache" served as a communication ship, an intermediate relay station for armed forces communications, and as a radio broadcasting unit carrying programs on behalf of the American Armed Forces Radio Service and the Voice of America. It is quite probable, too, that this station also carried a relay from Radio Australia on certain occasions.

The "Apache" was logged in Australia, New Zealand and the United States under three very similar callsigns. The basic callsign was WVLC. Another callsign in use for a brief period of times was WVLO, and it is suggested that this was in reality the second transmitter, which was noted subsequently under the callsign WVLC2.

Numerous QSLs exist in old radio collections in New Zealand, Australia and the United States but they are all in the form of typed letters. There is no known QSL card in existence bearing the callsign WVLC, not even for the relay of VOA and AFRS programming.

That, then, is the end of the story of the radio broadcasting ship, the "Apache," but there is more to the story than this. Not so well known is the fact that there was another radio ship travelling with the "Apache" with the identification FP47. Ah, but that's a story for another time! 

WELCOME TO THE FOLLOWING NEW MEMBERS

WILLIAM T. HARTER, Monroeville, PA
GEORGE M. HART, El Cajon, CA
TIM O'HARE, Spokane, WA
DONALD CHASE, Goffstown, NH
ROBERT NELSON, Carmichael, CA
ED PAPACH, Escondido, CA
TOM WALSH, Bedford, MA
DAN ZABEL, Littlestown, PA
DAN KING, San Jose, CA
THOMAS M. GILHOOLY, Staten Island, NY

New Senior DX Centurion

Ross Comeau of Andover, MA has been member of NASWA off and on (mostly on) for the past 12 years. He has finally decided to try the Awards program and has earned 21 certificates and 6 endorsements. Lets congratulate Ross on a job well done. Keep up the good work.

DX Century Awards

World Wide DXer

DX Centurion

Senior DX Centurion

160 country endorsement

Continental Awards

Antarctic DXer

Asian Continental DXer

European Senior DXer

Master European DXer

North American Continental DXer

DXer de Pacifica

South American Continent DXer

South American Continent DXpert

All Continent "QRP" DXer

25 kw endorsement

10 kw endorsement

Station Awards

Ecclesiastic DXer

Senior Ecclesiastic DXer

40 station endorsement

Individual Country Awards

All American DXer

Australian DXer

Regional Awards

Arab World DXer

Senior British Commonwealth DXer

Soviet Sphere DXer

Specialty Awards

Pirate DXer

100 station endorsement

International DX Listener

150 country endorsement

Continuing the theme to highlight award requirements lets look at:

Senior British Commonwealth DXer is awarded for verifying at least one shortwave broadcast station in each of 30 broadcast countries that are or have belonged to the British Commonwealth. The following are the broadcast countries.

Africa

Botswana (*Bechuanaland*)

Cameroon (*French Cameroon*)

Gambia

Ghana (*Gold Coast*)

Kenya

Lesotho (*Basutoland*)

Malawi (*Nyasaland*)

Mauritius

Mozambique

Nambia (*South West Africa*)

Nigeria

Nigeria-Biafra

St. Helena

Seychelles

Sierra Leone

South Africa (*Union of South Africa*)
Swaziland
Tanzania
Uganda
Zambia (*Northern Rhodesia*)
Zimbabwe (*Rhodesia*) (*Southern Rhodesia*)

Asia

Bangladesh (*East Pakistan*) (*India*)
British Indian Ocean Territory
Brunei
China, People's Rep.-Hong Kong (*Hong Kong*)
Cyprus
India
India-Andaman and Nicobar Islands
India-Goa (*Portuguese Goa*)
India-Kashmir
India-Sikkim
Malaysia (*Malaya*)
Malaysia-Sabah (*British North Borneo*)
Malaysia-Sarawak
Maldives
Northern Cyprus, Turkish Rep. (*Cyprus*)
Pakistan (*India*)
Singapore
Sri Lanka (*Ceylon*)

Europe

England
Ireland
Malta
Northern Ireland
Scotland
Wales

Oceania


Australia
Cook Islands
Fiji
Kiribati (*Gilbert Islands*)
New Zealand
Papua New Guinea-Admiralty Is.
Papua New Guinea-Bougainville
Papua New Guinea-New Britain
Papua New Guinea-New Guinea Terr.
Papua New Guinea-New Ireland
Papua New Guinea-Papua Terr.
Solomon Islands
Samoa (*Western Samoa*)
Tonga

North & Central America

Anguilla
Antigua
Bahamas
Barbados
Canada
Canada-Newfoundland
Grenada
Jamaica
Montserrat
Trinidad
Turks and Caicos Islands

South America

Belize (*British Honduras*)
Falkland Islands
Guyana (*British Guiana*)

I hope the above listing will make it easier to earn this award. Until next time, 73. 

Listener's Notebook

Al Quaglieri • P.O. Box 888 • Albany, NY 12201-0888 • FAX: (518) 453-0864 • al@alcue.com

AFGHANISTAN *Information Radio*, the U.S. Psyop operation launched during the first days of the American military intervention in Afghanistan last year, continues to broadcast on 8700 kHz in AM mode. Its current schedule appears to be from mid-afternoon until late at night Kabul time.

Reception of the station in Kabul is stable but not as strong as had been expected. Reception is actually much better in Islamabad, Pakistan. The medium wave frequency, 864 kHz, also appears to be active, however, our monitoring has only detected a carrier wave and no sound.

Recent reports that Information Radio also uses 6100 kHz cannot yet be confirmed. Nothing is audible on that frequency in Kabul. (T.Hirayama-JPN/AFG Sep 15, 2002/Clandestine Radio Watch/Schoech-GER)

More on where the 6100 kHz station was first mentioned [*edited for space - AQ*]:
**BRAGG SOLDIERS GET WORD OUT
UNIT RUNS RADIO STATION THAT
DELIVERS POPULAR MUSIC AND MES-
SAGES**

Author: PETER SMOLOWITZ, STAFF WRITER

Dateline: KANDAHAR, AFG.

A Fort Bragg unit runs a popular radio station in Kandahar, alternating mx and messages in an effort to win the hearts and minds of Afghans.

For 18 hours a day, members of the 8th Psychological Operations Battalion broadcasts from a makeshift studio that's actually a truck covered by a tent. Their signal on SW and AM radio restores a freedom lost when the Taliban ruled, and instructs Afghans on how to rebuild their country.

"It's letting them know we're here to help," said 2nd Lt. Stuart of Washington state, who would not give his last name for security reasons.

The messages mixed into the radio shows are broadcast in two langs, Dari and Pashtun, so Americans aren't seen as

taking sides in a nation trying to end more than two decades of war.

The 30- to 90-second spots urge Afghans to join their national army, support their new govt, beware of land mines and report members of al-Qaida and the Taliban.

In March, the Fort Bragg soldiers relieved Commando Solo II, an EC-130E that played mx, nx and information 10 hours a day while flying over Afghanistan. The soldiers took tapes from Afghans living in America, borrowed more from locals working on the Kandahar base and bought mx that Afghans requested in surveys.

They mix the rotation like an American station so listeners don't always hear the same thing. "It's all Afghan mx, nothing American," said 2nd Lt. Stuart. "We're here to help, to play mx for them, not to spread our culture onto them."

The signal transmits 1,000 watts on SW 6,100 and 5,000 watts on AM 864. Soldiers have also helped other stations move their antennas or update antiquated equipment, in exchange for playing U.S. messages on the new, more powerful signals. (© 2002 The Charlotte Observer, via Mike Cooper, DX Listening Digest/Hauser-OK)

ARGENTINA 6215.11 *Radio Baluarte*, 0100-0132+, Sept 4, hrd with full Spanish ID at 0105, then Portuguese comments & music. Heard with a very bad audio signal, completely distorted and continuous cuts during the transmission, so, I presume the station is with problems in its transmitter. (Barrera-ARG/Conexion Digital/Slaen-ARG)

AUSTRALIA 4835 *ABC* Alice Springs 2130-2139, Mali absent again, enabling reception of ABC's Northern Territory Service here. Nice signal at first, but soon getting weaker. "ABC news" ID right at tune-in 2130, bulletin read by woman. (Veldhuis-HOL Aug 26/Cumbre DX/Ziolkowski-WI)

New schedule for *Voice International* via Darwin:

0530-0600	Indonesian	21680
0600-0800	Indonesian	17820
0900-1300	English	13685
0900-1300	Indonesian	15365
0900-1400	Chinese	13775
1100-1700	Hindi	13635
1300-1500	English	13685
1300-1800	Indonesian	13660
1400-1700	Chinese	17560
1500-1900	English	11930
2200-0100	Chinese	15165

(R BUL Observer, Ivo Ivanov and Angel Datzinov, Sep 13/BC-DX/Bueschel-GER)

BELIZE The IBB relay near Punta Gorda, Belize, ceased operation 15 Sept at 0500 UT. It consisted of two 100 kW MW transmitters operating on 1530 and 1580 kHz. It was used for VOA Sp and En (News Now) to Central American and southern Mexico. There was also a low power FM transmitter at the site, which relayed VOA Nx Now. (Kim Elliott-DC-USA, VOA, Sept 17, DX Listening Digest/Hauser-OK) *[I know, not shortwave, but notable nonetheless - AQ]*

BOSNIA/SERBIA-MONTENEGRO *Radio Yugoslavia* has announced that it is to resume its SW broadcasts after a long suspension during which its programs were only available on the Internet. Following an agreement between the Fed Rep of Yugoslavia and the Ministerial Council of Bosnia-Herzegovina, the Central Regulatory Agency for Communications (CRA) has issued a long-term permit to Radio Yugoslavia to broadcast its programs again via its SW transmitter site in Bijeljina, Bosnia-Herzegovina. The date of resumption has not yet been announced. (© RNMMN Sep 18/BC-DX/Bueschel-GER)

A-02 season 1430 UTC 8 April to 1330 UTC 27 Oct 2002:

0000-0030	English	9580
0030-0100	Serbian	9580
0430-0500	English	9580
1430-1500	Arabic	11800
1500-1530	Russian	11870
1530-1545	Hungarian	6100
1545-1600	Greek	6100
1600-1630	French	9620
1630-1700	German	9620
1700-1715	Albanian	6100
1715-1730	Bulgarian	6100
1730-1800	Italian	9620
1800-1830	Russian	6100
1830-1900	English	6100

1900-1930	Spanish	7200
1930-2000	Serbian	6100 Su-Fr
1930-2030	Serbian	6100 (spec, Sa only)
2000-2030	German	6100 Su-Fr
2030-2100	French	6100
2100-2130	English	6100
2130-2200	Serbian	7230
2130-2230	Serbian	7230 (spec, Sa only)
2200-2230	English	7230 Su-Fr
2230-2300	Chinese	9580
2300-2330	Spanish	9680
2330-0030	Serbian	9580 (spec, Su only)
2330-2400	Serbian	9580 Mo-Sa

(R YUG, April 2002/BC-DX/Bueschel-GER)

CAMBODIA The Foreign Service of *National Radio of Cambodia* in English and French (other langs not checked) still continues acc. to sked. on 11940, using a 40-year-old 50 kW Philips transmitter which is undermodulated and produces distorted audio. Moreover, the 0000 broadcast suffers strong interference from CRI on 11945, and at 1200 there is QRM from a mixture of CRI and BBC, also on 11945. The English program often just consists of non-stop recorded mx and mins of silence ... The French program does contain a news bulletin. When I visited the station 3 years ago, a veteran broadcaster told me: "When the Vietnamese were here, after dealing with the Khmer Rouge, we had a much higher standard of broadcasting." (Marten van Delft-HOL on MLA tour, dswci DXW Aug 28/BC-DX/Bueschel-GER)

CANADA 6030 *CKMX*, Calgary, Alberta, 0705 Sept 23, The opportunity to DX this 100 watt shortwave relay of *CKMX* 1060, comes when Radio Marti and the Cuban jammer are silent, which is late Sunday nights-Monday mornings. Program consisted of classic light rock and oldies format, with multiple, canned station IDs every few minutes, including this one given at 0730: "Lots and lots of music, lots and lots of your favorites; AM 1060. *CKMX*" Very good modulation. This station must be designed to serve around a 1000-1500 km radius during the daylight hours, but I'm glad they keep the transmitter going all night. (Hodgson-TN/Cumbre DX)

CLANDESTINE - ASIA Freq change for Democratic Voice Of Burma in Burmese

via MDG 200 kW / 055 deg; 2330-0030
NF 9760 (x11715) // 9850 via JUL 100
kW / 090 deg. (R BUL Observer, Ivo
Ivanov and Angel Datzinov/BC-
DX/Bueschel-GER)

**CLANDESTINE - MIDEAST 9775 Radio
DAT** 1500 opposing Kazakhstan's, com-
ments on the part of a speaker, low sign
without interference, brief musical notes,
close at 15:57 (Lopez Aug 28) The group
behind this is based in Brussels, Belgium,
and is known as Societe Pour la Demo-
cratie ed Asie. They can be reached at Rue
Jourdan 95, Brussels, Belgium 1060.
(Johnson-WY Aug 25/Cumbre DX/
Ziolkowski-WI)

Kazakhstan's National Security Ministry
has established that *Radio DAT*, which
describes itself as "the voice of democratic
forces in Kazakhstan that are fighting for
justice, the well-being of the people, hu-
man rights, and political freedoms,"
broad-casts not from the West, but from
an unnamed town in the Russian Federa-
tion, forumkz.org reported on 29 Aug,
quoting "confidential sources."

Radio DAT <<http://www.datrado.com>>
began broadcasting on SW earlier this
summer in both Kazakh and Russian. Acc
to the Center for Journalism in Extreme
Situations, Kazakh journalist and public
figure Bigeldin Gabdullin, a political refu-
gee in the US, served as anchor for Radio
DAT's first broadcast. ("RFE/RL
Newline, 29 Aug, via Bernd Trutenau-
LTU, BC-DX/Bueschel-GER)

Freq change for *Radio DAT* in Rus-
sian/Kazakh via UNID transmitter in
RUS: 1500-1600 NF 9925 (ex 9775)
(Ivanov & Datzinov/Observer-BUL/DX
Listening Digest/Hausser-OK)

COLOMBIA 6060.08, 0537-, *La Voz de Tu
Conciencia* Aug 22 Solid S7 to S9 signal
with mostly easy listening Latins, and
very brief announcements by a male, with-
out ID. Frustrating as this is obviously
them. At 0555 there is an English ID!,
'This is the Voice of Your Conscience
transmitting on 60 shortwave for Colom-
bia and the world. You're listening to the
Alcarvan radio system', then into Spanish
talk for the following 27 minutes. Spanish
ID at 06:22. Noted the same Spanish ID
the following day at 0422, so this seems
like a good time to check! Frequency has
drifted up tonight to 6060.13. (Salmaniw-

BC Aug 22/Cumbre DX/Ziolkowski-WI)

DENMARK *Radio Denmark* through

3/29/03, all programs in Danish:

0030-0055	7470 7490
0130-0155	7470 7490 9945
0230-0255	7470 7490 9590
0330-0355	7470 7490 9945
0430-0455	7470 7490 9945
0530-0555	7465 7490
0630-0655	5945 7180 9590 13800
0730-0755	7180 9590
0830-0855	13800 15705
0930-0955	13800 15705 18950
1030-1055	13800 21765
1130-1155	13800 21765
1230-1255	12070 15735 18950
1330-1355	9590 15735 18950
1430-1455	13800 17555
1530-1555	15735 17525
1630-1655	13800 18950
1730-1755	7490 9980 13800 18950
1830-1855	7490 9980 13800 15705
1930-1955	7490 9980 13800
2030-2055	7490 9980
2130-2155	7490 9510
2230-2255	7470 7530
2330-2355	7470 7530 7490 9920

(Radio Denmark, via Erik Koie-DEN, BC-
DX Sep 24/Bueschel-GER)

EL SALVADOR 17833.3 *Radio Imperial*
2348-0010 Bit of musical selections heard
with some talk in Spanish but too noisy to
get much else otherwise. Still there at
0010 with not much better signal.
(Sept.20/21-Kusalik-AB/Cumbre DX)

FINLAND *YLE* Administrative Council
confirmed 26th Aug that YLE will con-
centrate on serving Finns living abroad so
that SW broadcasts in Finnish and Swed-
ish will continue. The closing dates for the
sces have not been decided. (Mika
Makelainen-FIN, DXing info via WDXC
Contact/BC-DX/Bueschel-GER)

FRANCE 25775.1, UNID (possibly Comite
Department du Tourisme de la Charente-
Maritime), 1850-2110 Sep 14 and again
2010-2035 Sept 15, noted with French
language features and pop songs followed
by English segments. No IDs noted but
English features were called Weekend
Adventures and include discussion about
Normandy, interview with author Tiffany
Capote about her book "Regards to
Indochina," feature about an image tech-
nology park in France and music by Roll-
ing Stones, The Who and Led Zeppelin
before returning to French program. The

host was a guy named Eric with some narration help from a Peggy Thompson. Poor to fair reception with some very deep fades. Also, noted again at 2105 Sep 16 and 1430 Sep 21 with Rolling Stones "Brown Sugar" but with a much weaker signal (Richard D'Angelo/NASWA Flash Sheet)

The transmission on 25775 was not from Comite Department du Tourisme de la Charente-Maritime. Those tourist information stations are 1 watt narrow band FM. 25775 was a high powered AM transmission. Also not R Neige as that service has been defunct for years. When it was active, it was also narrow band FM. I did hear (in SSB mode) the carriers from Comite Department du Tourisme de la Charente-Maritime on the frequencies around 25925 yesterday (sept 22) around 1700, but they never grew strong enough to produce any capture here in FM mode. Radio France has transmitted in the recent past on 25820. Why is it so hard to believe they might run a test transmission on 25775? Deutsche Telekom also tests fairly regularly on 11m, but I have only heard German used by them. (Hodgson/Cumbre DX)

I got a message from Wian Stienstra in The Netherlands about the phone number mentioned in the English program on 25775. To put it in short: 33 99 12 41 32 is old Rennes (or Cesson-Sevigne) number before April 1996. Then the French telephone numbers were changed. This number is now 332 99 12 41 32. Wian dialed this number and it went to TDF Research. The guy on the phone knew nothing about these 25 MHz tests and told that development of DAB in France had actually stopped. So the test "program" seems rather old. Many thanks Wian, for excellent info. Back to logs of this station. Yesterday, 24 Sep I checked 25765 at times and until at 1630 they were still running football loop. But at 1644 25765 was silent and instead some music on 25775. At 1646 they popped up again on 25765 and started a short id-ts-news in loop. A BBC WS promo, time signal and some seconds of "World Briefing" program, back to promo etc. At about 1815 signal disappeared. Today, 25 Sep tune in at 0709 the French/English program in loop was again on 25775, both sidebands and carrier. Wonder if this is one transmitter or two different sites? Merlin and/or TDF?. Tests for DRM? (Savolainen-

FIN/Hard Core DX)

GREECE Freq change for *Voice of Greece* in Greek effective from Sep.22: 1900-2200 NF 5865 (ex 12105) // 9420 and 15630 (Ivanov & Datzinov/Observer-BUL/DX Listening Digest/Hauser-OK)

INDONESIA Both 2899 *RDP Ngada* and 2960 *RPD Manggarai* have been heard during the 1200 hour twice this week with fair signals and// to other RRI outlets. (Johnson-WY Aug 27-8/Cumbre DX/Ziolkowski-WI)

3266.4 *RRI Gorontalo*, 1242, lagu hibran and sometimes short talk by male. Jakarta news relay at 1301 which delayed about a minute. 1311 returned own program and announcement of its frequency but gone soon without closing announcement. Fair. (Sep 15/Yamada-JPN/Jembatan DX) With good signal peaking at about 1030 and firm "RRI Gorontalo" identification. They played pipe music at 1025 and call to prayer at 1058. (Sep 16/Norrie-NZL/Jembatan DX/Yamada-JPN)

4000.14 *RRI Kendari* 1245-1310+ Sep 18 with nice Indo vocals; SCI at 1300, and Jak nx program at 1301 entitled "Info..[word]..". Very good signal, though deteriorating slowly after 1300. (John Wilkins-CO-USA, DXplorer Sep 20/BC-DX/Bueschel-GER)

4606.4 *RRI Serui*, 1038, local pops, SCI then Jakarta news relay entitled "Warta Utama" at 1100. Fair. (Sep 22/Yamada-JPN/Jembatan DX)

4874.5 *RRI Sorong* (p) at 1107 with talk in Indonesian, already off by the time I am usually checking the band, 1245. (Johnson-WY Sep 27/Cumbre DX)

IRAN New schedule for *Voice of Islamic Rep of Iran* on 15084v:
0530-0827 Bosnian/Italian/German
1200-1257 Italian
1630-2227 Farsi/German/ French/Farsi/
Albanian/Bosnian
(R BUL Observer, Ivo Ivanov and Angel Datzinov/BC-DX/Bueschel-GER)

KYRGYZSTAN A brief English news bulletin can be heard from "Radio Kyrgyzstan, Biskek" from 2325-2330, freqs 4010 and 4795 kHz. This bulletin in preceded by a bulletin in Kyrgyz followed by Russian. (Harjot Singh Brar-IND for GRDXC, Aug

29/BC-DX/Bueschel-GER)

LAOS 4665.3 *Xam Nua* latest spot for this one, // to 6130 at 1224, and 1230*.
(Johnson-WY Aug 28/Cumbre
DX/Ziolkowski-WI)

4661 *Xam Nua* was heard till s/off at 1230*.

6971 *LNR* Luang Prabang is still inactive.

7145 *LNR's* Foreign Service heard regularly acc. to sked. in Fr & En (other langs not checked) on 7145. Mostly, however, they announce only 1030 MW & 97.25 MHz FM. In the past they were inactive on 7145, but continued to announce that freq for years... (Marten van Delft-HOL on MLA tour, dswci DXW Aug 28/BC-DX/Bueschel-GER)

LIBERIA 5100 *Radio Liberia Intl* 2213
Het first hrd at 2130 and finally audio appeared at 2214 with female singer. Very weak but no RTTY QRM. First time here in months. Male ann in EE at 2230 with possible news items. Back to mx at 2231. (Montgomery-PA Aug 25/Cumbre DX/Ziolkowski-WI)

5469.96 *Radio Veritas*, listening since 2230 26/8; mediocre signal but improving, definitely EE, definite ment. of Liberia at 2245. Taking phone calls, giving tel. no of (I think) 227697. Talking about politicians, elections. At 2253, two *Radio Veritas* IDs, ment. of 5470 SW, religious promo. Into religious talk, Lord's Prayer 2259, ID with 5470 fqy ancd again, into light vocals. Program stopped 2302, carrier off. (Berg-MA/Australian DX News)

MALAYSIA The listed domestic SW freqs of *RTM* West MLA are all active. An engineer at the Kajang Transmitting Station, just South-East of Kuala Lumpur, told me that the poorly performing transmitter on 5965 is a very old 5 kW standby unit. It will be replaced by a 100 kW transmitter - now used on 15295 - after the installation of a new 250 kW Thomcast transmitter for the 19 mb outlet, mainly intended for the broadcasts in Arabic. Also a new TCI antenna system (type HRS-441) is being installed. This project should be completed in Oct.

RTM Sarawak's listed SW freqs are all active. Acc to the Director of Broadcast-ing, the Sibiu transmitter, which used to

operate on 5005, cannot be repaired as the necessary parts are no longer available. The MW network, the still expanding FM-network and the recently upgraded SW facilities at Kuching appear to provide adequate coverage. With Miri having left SW already a couple of years ago, the remaining Sibiu transmitter on 6050 is likely to continue till it breaks down, so get it while you can!

Spare parts for the *RTM Sabah* transmitter, which used to operate on 4970, are no longer available either. As MW & FM coverage are considered adequate, it may never be reactivated. However, the transmitter on 5980 will continue as long as it lasts. The current SW schedule of the programs in En and minority langs is as follows: En 0330-0730 (news at 0500), Kadazan 0730-1000, Bajau 1000-1200, Dusun 1200-1315 and Murut 1315-1330. (Marten van Delft-HOL on MLA tour, dswci DXW Aug 28/BC-DX/Bueschel-GER)

RTM continues to develop its MF and VHF networks, in Eastern and Western Malaysia. The facilities used for domestic HF broadcasting will not be replaced or repaired once their useful life has been reached, and some transmitters have already been closed down, in Sarawak and Sabah. The following freqs were observed as being active, and may also be in use at other times:

4845 24-hrs (Kajang). Tamil, noted with phone-in progming 0430-0500 (100 kW)
4895 2200-0100, 0800-1000, 1030-1500 (off air 1000-1030) (Kuching) (10 kW)
5030 2200-0000, 1230-1400 (Kuching) (10 kW) 5965 24-hrs (Kajang). (Malay)(Radio-1) (100 kW) 5980 2200-1500 (Kota Kinabalu) (10 kW) 6025 0500-1700 (Kajang) (100 kW). Malay (Radio-8 and indigenous langs) 6050 2200-1500 (Sibu) (10 kW) 7130 0400-0600 (Kuching) (10 kW) 7270 0830-1200, 1245-1500 (Kuching) (10 kW) 7295 24-hrs, (Kajang) (100 kW). English, relays 90.3 VHF "Radio-4" from Kuala Lumpur.

Notes: 1. Actual operational times for Kota Kinabalu, Kuching and Sibiu vary, within the time span indicated. Weekday schedules differ from weekends and holidays

2. At 1300-1310, 5030 4895 5980 6050 7270 all carry national nx in Malay from

Kuala Lumpur; at 1310 local programming resumes

3. Upgrading work is in progress at the Kajang site, with higher power being introduced for some sites. (Bob Padula-AUS, edxp Sep 18/BC-DX/Bueschel-GER)

MYANMAR 5975 UNID Asian station might have been the *Myawaddy Radio Station* heard from 1300 under Hanoi. 6570 The Defence Forces Station at Taunggyi was heard from about 1400 onwards.

The following En HS broadcasts were noted (all // with 576 MW): 5985 at 1430-1600, 7185 at 0200-0245 (weekends till 0300) and 9730 at 0700-0830. From about 1100 hrs, 4725 was heard in minority langs and with educational segments in English. (Marten van Delft-HOL on MLA tour, dswci DXW Aug 28/BC-DX/Bueschel-GER)

PAKISTAN Freq change for *Radio Pakistan*: 1245-1315 Turki and 1315-1400 Russian NF 9396v (x9500v). No signal on // 7355! (R BUL Observer, Ivo Ivanov and Angel Datzinov/BC-DX/Bueschel-GER)

PAPUA NEW GUINEA 2410 *Radio Enga*, 1055, Nice signal strength, but undermodulated. Religious choral mx. ID mentioned by announcer. Into pops @ 1100. (Hodgson-TN, Aug 28/Cumbre DX/Ziolkowski-WI)

3220 *Radio Morobe*, 1040-1058, Long pres. rel. tlk, rel. mx 1046 w/program outro by M mentioning Highlands and "goodnight". Into pleasant island C&W mx 1051 W anncr w/ment of Sunday Night, then island mx. 1056 W again w/ID and "...thank you, goodnight" and ment of "tomorrow night", then into beautiful soft choral song. Fair but heavy QRN. (Valko-PA Aug 25/Cumbre DX/Ziolkowski-WI)

3235 *Radio West New Britain*, 1110-1128, Saturday evening countdown program w/M anncr host. 1116 gave a live PSA w/anncr thanking the informer several times in En. Fairly decent signal but faded quickly after 1120 (Valko-PA 21 Sept./Cumbre DX)

3275 *Radio Southern Highlands*, 1043-1107, Long tlk by M at t/in w/ment of province, talk. Nice island mx at 1050. Live native vcls at 1053. 1056 different M

w/ment of "goodnight", then another M anncr in vernacular, Fair w/slight local noise. Picked up towards lcl sunrise at 1101. (Valko-PA 21 Sept./Cumbre DX)

3290 *Radio Central* 1027-1034 Tlk by M in PD. Soft choral rel. mx, 1033 beautiful clear canned ID by M as: "R. Central ?? Central Province...". Then lively island mx. One of the best PNGs as of late. (Valko-PA Sep 1/Cumbre DX/Jary-AUS)

3345 *Radio Northern* 1035-1059 Island choral mx, M w/song anmnts ment. of PNG, then Pop song. 1047 poss. ID, 1057 ment of Northern Province, and W anncr at 1059. Weak modulation, especially on voice, made copy difficult. (Valko-PA Sep 1/Cumbre DX/Jary-AUS)

3355 *Radio Simbu* 1107-1120 End of island song, M w/long En tlk w/what sounded like a sked of some sort w/ments of Radio Simbu, Somewhat readable and a 1/2 hour after Sunrise. (Valko-PA Sep 2/Cumbre DX/Jary-AUS)

4890 *NBC*, Port Moresby, 1340, popular music program, closing announcement at 1300 then national anthem and signed off at 1402. Good. (Sep 22/Yamada-JPN/Jembatan DX)

9675 0958-1400* *NBC* Port Moresby Amazing signal level for this time of the year. In EE with full Id a number of times in En. Nx at top of hour and then to religious prg at 1010. China started to come up 1020 with PNG at 10/s9 Level. Still listenable past bottom of hour. Several announcements about upcoming elections as they want no corruption and offered phone numbers to call in and report any. Good past 1130. Noted no 4890 hrd this a.m. (Montgomery-PA Sep 1/Cumbre DX/Jary-AUS)

PHILIPPINES 9580 *PBS Manila* was noted in Sabah (Malaysian Borneo) fading in at 0645. They seem to use much less than the listed output power of 250 kW [sic other sources say old 50 kW mobile unit, wb] from the Tinang transmitter site. From about 0800, PBS started heterodyning with Radio Australia and from about 0830 the latter station dominated the channel. (Marten van Delft-HOL on MLA tour, dswci DXW Aug 28/BC-DX/Bueschel-GER)

RUSSIA *Voice of Russia* S-02 schedule
(Sept 1 - Oct 27, 2002):

0000-0100	Spanish	12060 11750 11510 9965 9890 9860 9830 9480 9470 7330 7180	1200-1300	Chinese	7315 5940 5905
			1200-1300	Japanese	11755 9470 7490U 7340 7330 5905
			1200-1300	Korean	12000 7400 7315
0100-0200	English	17595 12000 11825* 9725 7180	1200-1300	Russian	15560 15470 13720 11870 11640 9920 9745 9495 7390
0100-0200	Russian	21755 17690 17660 15455 12060 11750	1200-1300	Urdu	17570 15550 15460 11500
		9480 7300	1200-1300	Vietnamese	17645 12055
0100-0200	Spanish	11510 9965 9945 9890 9860 9830 9470 7330	1200-1230	Mongolian	15315 5940
			1200-1400	Pashto/Dari	17675 15510 12015 9800 4975 4965 4940
0200-0300	English	17660 17595 12000 9725 7180	1230-1300	Mongolian	15315 5940 4850
0200-0300	Russian	21755 17690 17650 15455 12060 11750 9480 7330 7300	1300-1400	Chinese	15605 11755 9480 9470 7315
			1300-1400	Hindi	17570 15460 11500
0300-0400	English	17690 17660 17650 15455 12000 11750 7180	1300-1400	Japanese	7390 7340
			1300-1400	Russian	17645 15560 15470 11640 9745 9495 9920 9735
0400-0500	English	17690 17660 17650 15455 12000 11750 7180	1300-1400	Russian	7370 7330
			1400-1500	English	17645 15560 12055 9745 7390
0500-0600	English	21790 17795 17685 17635	1400-1500	Russian	11830 9920 9495 9735 7370 7315
0600-0700	English	21790 17795 17685 17635 15490	1400-1500	Turkish	15540 11985 7325
			1400-1500	Urdu	15510 15460 11500
0700-0800	English	17795 17685 17675 17635 17525 17495 15490	1400-1600	Persian	12015 9875 9835 9360 7305
0800-0900	English	17795 17685 17675 17635 17525 17495 15490	1500-1530	Albanian	12060 12040 12000 9470
0900-1000	German	15455 7330	1500-1530	English	11985 11500 7390 7325 4975 4965 4940
1000-1100	Chinese	15605 15470 9480 9470 7400 5940 5905	1500-1530	Hindi	15460 11720 9865 9745
		13640 12055 12000 9875 7490U 7330 7315	1500-1600	German	11980 9810 9480 7440 7330 7300
1000-1100	Korean	15605 15470 12000 11755 9480 9470 7400 7330	1500-1600	Russian	12005 7350 7130
1100-1200	Chinese		1500-1600	Russian	15540 11830

		9495 7370			Tu/Th
		7315	1730-1800	Swedish	9820 7360
1530-1600	Bengali	17570 15460			Mo/We/Fr
		11870 11720	1745-1830	Czech	15350 12020
		9865 9745			7400
1530-1600	English	11985 11500	1800-1830	Arabic	12030 11745
		7390 7325			9835 9710
		4975 4965			9360 7305
		4940	1800-1900	English	11870 9820
1530-1700	Serbian	12040 12000			9775 9745
		9470			9480 7360
1600-1700	Arabic	12030 12015	1800-1900	French	7310 7300
		11745 9835			11930 11630
		9710 9360			9890 9810
		7325 7305			7390 7350
1600-1700	English	15540 11985			7320
		7350	1800-1900	German	11980 7440
1600-1700	French	12035 11870			7330
		11510 9890	1800-1900	Greek	12065 12040
		9810 9745			11985 9490
		9480			6000 5950
1600-1700	German	11980 7440	1800-1900	Russian	12055 9450
		7330 7300			7370
1600-1700	Romanian	15350 9490	1830-1900	Arabic	15595 12030
1600-1700	Russian	11830 9875			11745 9835
		9495 7370			9710 9360
		7315			7305
1700-1730	Arabic	12030 11745	1830-1900	Slovak	15350 12020
		9710 9360			7400
		7305	1900-2000	Bulgarian	6000
1700-1730	Finnish	9820 7360 Mo-Fr	1900-2000	English	15735 9820
		12035 11870			9775 7440
		11630 9890			7360 7350
		9810	1900-2000	French	7330 7310
1700-1745	Hungarian	15350 12020			11980 11930
		7400			11630 9890
1700-1800	Bulgarian	12000 9490	1900-2000	Russian	7390 7320
		6000			15350 12055
		11985 11675			12040 12020
		11510 9820\$			9480 9450
		9775 9745	2000-2030	Portuguese	7370 5950
		7360\$ 7310	2000-2100	English	9480 7440
1700-1800	German	11980 7440			15735 11980
		7350 7330			9820 9775
1700-1800	Italian	12040 11920			7360 7350
		9470	2000-2100	Russian	7330
1700-1800	Polish	12010 11930			12055 9470
1700-1800	Russian	9480 7300			7390 7370
		5950			7310 5950
1700-1800	Russian	15540 12055	2000-2015	Serbian	6000
		9875 9495	2015-2130	Serbian	6000
		9450 7370	2030-2100	Spanish	9480 7440
		7315	2100-2130	French	9450*
1730-1800	Arabic	15595 12030	2300-2400	Portuguese	12060 11510
		11745 9710			9965 9890
		9360 7305			9860 9470
1730-1800	French	12035 11870			7330
		11630 9890			*via Santa Mariya di Galeria, Vatican City
		9810 7320			\$ Sat/Sun (R BUL Observer, Ivo Ivanov
1730-1800	Norwegian	9820 7360			and Angel Datzinov, Sep 17/BC-DX/Bueschel-GER)

Voice of Russia relay via shortwave transmitters of Russia

CRR-1 (Moscow)

7300	0100-0300
7310	1700-2100
7350	1700-2100
7390	1800-2100
7440	1500-2100
9470	2300-0200
9480	1500-2100
9775	1700-2100
9810	1500-1900
9860	2300-0200
9890	1700-2000
9920	1200-1500
11630	1600-2000
11745	1500-2100
11755	1100-1400
11920	1700-1800
11985	1400-1900
15460	1200-1600

15540	1400-1800
17645	1200-1500

CRR-2 (S.Petersburg)

7130**	1500-1600
7130**	1700-1800
7130**	1830-1900
7320	1730-2000
7330	2300-0300
7400	1700-1900
9470	1500-1800
9470	2000-2100
9480	2300-0300
9710	1600-1900
12005	1500-1600
12015	1400-1700
12055	1700-2100
12060	1500-1530
15595*	1730-1800
15595*	1830-1900
17580*	1500-1600

*- till 28/09/2002

** - from 29/09/2002

CRR-2 (Kaliningrad)

7300	1500-1900
7330	0900-1000
7330	1500-1900
11830	1400-1700

CRR-3 (Samara)

5950	1700-2100
6000	1700-2130
9490	1600-1900
9495	1200-1800
9735	1200-1500
9820	1700-2100
9835	1400-1900

9890	2300-0200
12000	1500-1800
12010	1700-1800
12065	1800-1900
15510	1200-1500
15560	1200-1600 250

TCR-4 (Krasnodar)

7305	1400-1900
7325	1400-1700
7360	1700-2100
9725	0100-0300
9830	0000-0200
11980	1500-2100
12015	1200-1400
12035	1600-1800
12060	2300-0300
17570	1200-1600
17610	1200-1400 500

CRR-8 (Khabarovsk)

7490	1000-1100
7490	1200-1300
9470	1000-1400
9480	1000-1400
13720	1200-1300
17685	0500-0900
17795	0500-0900

CRR-8 (Komsomolsk-na-Amure)

7330	1000-1400
15455	0100-0500
17635	0500-0900

CRR-10 (Irkutsk)

5905	1000-1400
7315	1400-1800
9800	1200-1400
12000	1000-1300
15490	0600-0800
21790	0500-0700

CRR-11 (Novosibirsk)

7350	1500-1700
9450	1400-2000
9865	1500-1600
9875	1400-1800
1640	1200-1400
11685	1000-1100
11720	1500-1700
15470	1000-1400
15550	1200-1300
15605	1000-1400
17675	0700-0900

TCR-12 (Chita)

9745	1200-1900
11870	1530-1900
12055	1200-1300
12055	1400-1500

Ekaterinburg Radio Centre

7370	1300-2100
11930	1700-2000
12020	1700-2000
12040	1500-2000
15315	1200-1300
15350	1600-2000

Vladivostok Radio Centre

5940	1000-1300
7315	1000-1400
7390	1200-1400
7390	1400-1600
7400	1000-1300
17660	0100-0500

Petropavlovsk-Kamchatskiy Radio Centre

7340	1200-1400
12055	1000-1100
13640	1000-1100
17595	0100-0300
17650	0200-0500
17690	0100-0500
21755	0100-0300

(Nikolai Rudnev-RUS, RUS-Dx, Sep 20/BC-DX/Bueschel-GER)

Bible Voice Broadcasting Network / High Adventure Gospel Canada.

<<http://www.glenlowance.com/>>

[I found this a bit confusing, format-wise, so am leaving it as received, sorry about that! - AQ]

Middle East [Armavir/Krasnodar site 100 kW 190 degr] 100 kW 7430 Monday-Friday 1700-1815 UTC Amharic/English/Russian 100 kW 7430 Sat/Sun 1700-1800 UTC

250 kW 7430 Sat 1800-1900 UTC [not on air Sat Aug 31, wb] 250 kW 7430 Sunday 1800-2000 UTC

India 250 kW 9855 Monday-Sunday Bengali 250 kW 9610 Monday-Sunday Hindi 250 kW 15615 0030-0130 Sat/Sun English/Hindi

East Europe [Moscow Taldom 250 kW site presumed, wb] 250 kW 7425 Sat/Sunday 1800-1900 UTC Polish/English/Slavic/Russian

West Europe [Moscow transmitter] 250 kW 11645 Sat/Sunday 2000-2115 UTC English (Harjot Singh Brar-IND for GRDXC Aug 27/BC-DX/Bueschel-GER)

Advance information from the *Voice of Russia* is that it plans to use the 120 metre

band (!) for services to Australia and SEA, for B-02, effective Oct-27. This is very unusual, and the planned frequency is 2300 kHz, with 250 kW from Irkutsk, 0600-0900, azimuth 150 degrees. I am not sure if this is a mistake, but that it how it was presented to me! Interestingly, 2310, just nearby, is used by the ABC's NT service at Alice Springs, 0830-2130! We'll see if it happens... Regards! (Bob Padula, Sept 22, EDXP/DX Listening Digest/Hausser-OK)

What was thought to be the Russian station *GTRK "Tuva"* from Kyzyl, capital of the Tuva Rep (bordering NW Mongolia) was heard on 6100.5 kHz at 2300 UT, carrying Radio Rossii nx in Russian. Weak but clear enough to match Radio Rossi nx against // 5290-Krasnoyarsk. At 2310 a different progr was carried to that on 5290 (presumably a local progr?). Heard whilst waiting to see if Nepal showed up again on 6100. (Tony Rogers-UK, DXplorer Aug 30/BC-DX/Bueschel-GER)

SIERRA LEONE 6137.83 *Radio UNAMSIL*, Freetown. I tried them arnd 0615 21/8 and was surprised at the signal, mostly rap mx with talk in lang. interspersed. Went into EE at 0625 and presented a UN prgm, program review, and going out by 0700. Static, but still pretty decent, tho never did get explicit ID (Berg-MA/Australian DX News)

SINGAPORE The Singapore Broadcasting Authority abandoned all MF broadcasting some years ago, in favor of VHF. A modest HF capacity survives, from Kranji, operating to this general schedule:

6000 Mandarin 2300-0800, 0900-1100, 1400-1600; 6150 En 2300-0800, 0900-1100, 1400-1600; 7170 Tamil 2300-1600; 7235 Malay 2300-0900, 1200-1600

The External Service, *Radio Singapore International*, is intended for neighboring countries, with transmitters at Kranji, co-sited with the Merlin facility, and sharing transmitters with the Domestic Sce. For general information, here is the current (Sept 2002) schedule for RSI:

1100-1400	English	6150 9600
0900-1200	Malay	7235 9665
1200-1400	Indon.	7235 9665
1100-1400	Mandarin	6000 9560

(Bob Padula-AUS, edxp Sep 18/BC-DX/Bueschel-GER)

SOUTH AFRICA Freq change for *TWR* in Amharic/Oromo via MEY: 1645-1800 Mon-Fri and 1645-1730 Sat/Sun NF 9930 (x9535). (R BUL Observer, Ivo Ivanov and Angel Datzinov/BC-DX/Bueschel-GER)

SWITZERLAND B-02 schedule for *Swiss Radio International*:

0600-0630	French	9885J 1379J 17665S
0630-0700	German	9885J 1379J 17665S
0700-0730	Italian	9885J 1379J 17665S
0730-0800	English	9885J 1379J 17665S
0830-0900	English	21770S
0900-0930	Italian	21770S
0930-1000	German	21770S
1000-1030	French	21770S
1630-1700	Italian	9755J 1379J 15555S
1700-1730	Arabic	9755J 1379J 15555S
1730-1800	English	9755J 1379J 15555S
1800-1815	French	9755J 1379J 15555S
1830-1900	Italian	9755J 13660M 15485J 17660M
1900-1930	Arabic	9755J 13660M 15485J 17660M
1930-2030	English	9755J 13660M 15485J 17660M
2030-2100	German	9755J 13660M 15485J 17660M
2100-2130	French	9755J 13660M 15485J 17660M
2200-2230	French	9885S 11660M
2230-2300	German	9885S 11660M
2300-2330	Italian	9885S 11660M
2330-2400	English	9885S 11660M

Sites: J=Julich, Germany M=Montsinery, French Guiana S=Sottens, Switzerland (Ivanov & Datzinov/Observer-BUL/DX Listening Digest/Hauser-OK)

THAILAND Domestic HF broadcasting is virtually extinct., with extensive and increasing use being made of MF and VHF for local and regional sces by the Govt broadcasting authority.

For many years, dating back to the 1960's, HF domestic broadcasting was carried

from several transmitters located at Bang Phun, in Pathum Thani, in the time span*2200-1730*, using 4830 6070 7115 9655 and 11905. The latter two freqs also carried relays of the Ext Sce at times when the domestic program was not broadcast.

Around early 2001, 4830 9655 and 11905 were closed down, and 6070 and 7115 remained in use on a very limited basis from 1100-1215, carrying relays of the Ext Sce in Vietnamese, Khmer, Lao, Burmese, and Malay. These relays are currently active. The 60 mb outlet of 4830 has been in intermittent operation since mid-2001, carrying relays of *Radio Thailand's* Network-3, in English, in // with MF 918 kHz (Bangkok). It may now have closed down, as it was not audible at any time during my trip, during July.

Only one non-Governmental station was noted - this originates from the Royal Household in Bangkok, with 10 kW, using 6148. This "split frequency" channel was audible at good level during local evening hours in Thailand and in nearby countries, around 0930-1100. (Bob Padula-AUS, edxp Sep 18/BC-DX/Bueschel-GER)

UKRAINE 7416.5-7418.3v *Radio Krishnaloka* in Russian September 15+0323-0420+ poor to fair to almost good. According to www.harekrishna.ru/news/krishnaloka.shtml (unfortunately, in Russian only) Radio Krishnaloka has broadcast on SW from September 1st, 2002 on 7410 kHz at 0300-0500 and 1300-1500 UTC on even days only. They have two postal addresses in Donetsk, UKR and in Moscow (ul. Avtozavodskaya, dom 6, kvartira 24 A) and one e-mail address as schymmohan@ukr.net (Timofeyev-RUS/Hard Core DX) Additional info is to appear soon at: www.krishna.ru, <http://www.harekrishna.ru/news/krishnaloka.shtml> (Bernd Trutenau, Lithuania/DX Signal/Cumbre DX)

UNITED ARAB EMIRATES *Gospel for Asia/"Athmee Yathra He"* in Bengali, Hindi, Malayalam, Tamil, Dzonkha, Punjabi, Nepali, Oriya, Marathi, Sinhala, Kannada and Kashmiri, via DHA 500 kW: 1230-1330 15590
1600-1630 11695
2330-0130 6025
(Ivanov & Datzinov/Observer-BUL/DX Listening Digest/Hauser-OK)

UNITED STATES OF AMERICA

KNLS, Alaska B-02 Sked effective 26 Oct to 23 Nov 2002

0800-0900	English	9615
0900-1000	Russian	9615
1000-1100	Mandarin	9615
1100-1200	Russian	9615
1200-1300	Mandarin	9615
1300-1400	English	11765
1400-1500	Mandarin	9615
1500-1600	Mandarin	9615
1600-1700	Mandarin	9615
1700-1800	Russian	7355

(Website/Beesley/WDXC Contact/DX Listening Digest/Hauser-OK)

VENEZUELA Between August 31 and September 23, 2002, Takayuki Inoue Nozaki visited Venezuela and many broadcasting stations. On-site bandscans revealed only four stations in current operation: *Radio Tachira* on 4830 kHz, *Radio Amazonas* on 4940 kHz, *Ecos del Torbes* on 4980 kHz and *YVTO El Observatorio Naval Juan Manuel Cagigal*. There are no other Venezuelan stations regularly on shortwave. (TIN-JPN/Cumbre DX)

VIETNAM 4795.8 *Son La BC Station* 1333-1358* Hrd with a program of instrumental music ranging from light vocals to rustic instruments. (Sept.21-Kusalik-AB/Cumbre DX)

The following domestic freqs & stations are active: 5035, 5925, 5975, 6020, 6165, 6347, 6381 (sometimes drifting down a few kHz), 6495 (now rather on 6490), 6690 (now rather on 6665), 7210, 9530 & 9875. (French lang lessons were heard at 1430 on 5925 & 6020). No trace of 5597, and 7156 might have been the UNID Asian station under VOA in Burmese at 1430 on 7155.

Over a period of 4 weeks, I noted 4796 tentatively only a couple of times with s/off at 1400 acc. to schedule. There appears to be a new National Program-1 outlet on 9635 which was noted at 0800, much weaker than // 9530. (Marten van Delft-HOL on MLA tour, dswci DXW Aug 28/BC-DX/Bueschel-GER)

6380.3 *Radio Lai Chau*, at 2258-2306 (t), Typical male vocals, couldn't hear any instrumental accompaniment. Comparable to the songs I use to hear on the Hmong scc on 5035v kHz. (Mark Veldhuis-HOL, DX Listening Digest Aug 30/Hauser-OK)

6379.9 *Lai Chau BS* (pres) hill tribes mx, decent modulation at 1209. 6491.3v Cao Bang BS (pres) constantly drifting, bad modulation but usual mx at 1214. (Hans Johnson-WY-USA, Cumbre Aug 24)

The *Voice of Vietnam*, Ha Noi, continues to be plagued by technical problems at the Son Tai transmitting site, used for the HF relays of the Dom Scc. There are bad spurious radiations 15 kHz either side of the nominal carrier freqs of the transmitters on 6020 and 7210. These show up on 6005, 6035, 7195 and 7225, for the broadcast period 2200-1600.

Voice of Vietnam Domestic Service also has programming in langs other than English. These are carried on the Network-2, such as En, Fr, and German, and heard on the HF relay on 6020 between 0630-0700, which is 1330-1400 local time. I think these are educational programs for schools.

The *VOV*Hmong Network has expanded its services. The midday service was discovered on two new freqs in the 31 mb - 9855 and 650, from 0430-0600. Previously this scc was only broadcast on 49 mb - 6165 - which is no longer used for the midday service. The morning and evening sccs continue on 5035 and 6165.

My advance information is that *VOV* may be abandoning all of its overseas relays for the B-02 season commencing on Oct 27.

The *Voice of Vietnam* continues to use several HF channels for relaying ist Domestic Service to rural areas:

0000-0200	5925 5975 6020 7210 9530
0200-1000	5925 5975 6020 7210 9530 9875
1000-1400	5925 5975 6020 7210 9530
1400-1600	5925 5975 6020 7210
2200-2400	5925 5975 6020 7210 9530

The Hmong Service, which is part of Network 4, has recently extended its transmission hours, to accommodate extended broadcasts to ethnic minorities. New freqs in the 9 MHz band are now in use, to improve coverage during daylight hours.

This is now heard:

0430-0600	9650 9855
1130-1330	5035 6165
2200-2400	5035 6165

(Bob Padula-AUS, edxp Sep 18/BC-DX/Bueschel-GER)

Pirate Radio Report

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

Hi! Welcome to the October 2002 edition of the *Pirate Radio Report*. In a few weeks Halloween will be upon us. This has always been one of our favorite holidays, ever since the **Voice Of The Purple Pumpkin** took to the air back in the late 1960's. This year, October 31st falls on a Thursday night. I hope we get a lot of different stuff happening. Don't forget to report whatever you hear to us here at the PRR.

Loggings, yup we've got em. Thanks to Ross Comeau-MA, John Fisher-MA, Rich D'Angelo-PA and Joe Wood-TN.

Captain Morgan. Was noted on 6950 kHz AM mode on September 13th from 0214-0229 sign off. Station ID at 0223 by OM as "You're in the party zone with Captain Morgan," and mention of QSL being mailed. A very good selection of mx. Songs included "Benny and the Jets" at 0219, "Mama Told Me (Not to Come)" at 0220, "Wild, Wild West" at 0221" and something that sound like B. B. King and Lucille at 0223. During this song, there was some VOX QRM under the signal. Lost signal at 0229 w/o sign off. [Wood-TN]

KBLK. This apparent new outlet was logged on 6.952.60 kHz on 21 September at 0145-0217 UTC, warning about obscene language, Colioio, Prince, mostly hip hop mx, commentary on "The white bread hobby of DXing," ID as KBLK The Voice of Black Expression, phony, hilarious JTA phone call. SINPO=44444. [Comeau-MA] Also noted on 6925 AM at 02:00 to 02:15 UTC on Sept 21, 2002. Lots of IDs, "This is KBLK, the Voice of Black Oppression", rap mx by Dr. Dre and others, interview with Neal Wolfish "EH, EH, What the F*** you say". Please QSL to John Fisher, 16 Middlesex St, # 9 N.Chelmsford, MA 01863. [Fisher-MA]

Laser Hot Hits, a Europirate was noted on 6218.9 kHz, tentative, from 0345-0410 UTC on Sep 21st, with rock music with a man announcer speaking between selections. Mention "Laser" at 0347 and a phone number at 0400.

Mainly in the mud—poor. [D'Angelo-PA]

Ox Or Vox Or Box? America. 6.953.96 USB UTC Sat 9/21 0135-0143 Rock mx, New Orleans oriented parody, Commentary on 9/11 government conspiracies and plots to limit civil liberties, etc. SINPO=55544. Off abruptly at 0143. (Comeau-MA)

Radio Jawbox—Totally Awesome Radio—Bogus Radio 3. Was logged on 6953. September 13th from 0118-0131*. Songs included "I'm Too Sexy" at 0118, "Funny Familiar, Forgotten Feeling" at 0124, "Way Back Home" at 0125, and "Shining Star" at 0128. Several ID as "Totally Awesome Radio" at 0119 and 0128. Off at 0131 with ID as "Radio JTA." [Wood-TN].

Radio Tornado Worldwide. Noted on September 9th on 6955 kHz AM from 0038-0039*UTC. A very good signal. Heard the last two minutes of the broadcast. Johnny Rivers version of "Secret Agent Man," and off at 0039 with "Radio Tornado Worldwide." [Wood-TN]. [This is a parody of Radio Metallica Worlwide.]

WHYP. Was noted 6953 kHz in the AM mode on September 4th at 0123-0157 UTC sign off. The reception had a fair to poor signal and poor propagation characteristics. Station ID at 0125 by Moe Howard. There was a further ID at 0135 as "The WHYP 4th Anniversary Special." There was a final ID at 0149 as "You're listening to WHYP and that Stud of a Man—James Brownyard" by a YL. Off at 0154 with "Secret Agent Man" and a quote, "It was the worst station..." Lost signal at 0157. [Wood, TN] The presumed station on 6952.6 kHz from 0320-0340 sign off on 21 September with host Regis Brownyard hosting "Who Wants to be a Pirate Radio Operator?" parody quiz show with made up contestants. Contestant BJ apparently had his friend George Zeller in the audience. Good signal and off without an ID. [D'Angelo-PA]

Happy Pirate DX!



QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010

GUYANA BROADCASTING CORPORATION

BROADCASTING HOUSE
44 HIGH STREET, WERK-EN RUST
&
68 HADFIELD STREET, LODGE
GEORGETOWN, GUYANA
SOUTH AMERICA
TELE: 226-7722; FAX 22-67450

Dear Listener, *Barbour*

Thank you for your Reception report, dated

We are pleased to hear from you, and appreciate the fact that you have taken time off to let us know that you are receiving us.

Your report was checked against our logs and found to be correct!

By this letter your report is Verified.

It is our sincere hope that you keep on writing to let us know how well you receive us.

Your suggestions, advice and any criticism would be welcome, since this would assist us to improve our standards.

Our programming can be heard on the Voice of Guyana on 560 KHZ the AM Band and 5.950 MHZ (Short-wave) on the 49 Meter band, and 3.290 MHZ on the 90 Meter band.

With Regards

Yours sincerely,

W. CARA
ME. (Tx)

Addr: Nikolskaya 7, Moscow 103012, Russia. Radio Gardarika 6235 v/s Dmitry Vasyliev, Short Wave Project Manager. Addr: Ligovsky Prospect 174, RU-192007 Saint Petersburg, Russia. Voice of the Mediterranean 9840 Addr: P.O. Box 143, La Valletta, CMR 01, Malta. Radio Sonder Gr-ense 3320 v/s Mrs. Kathy Otto. Addr: Private Bag X06, Honeydew 2040, South Africa...via PLAY DX...Sam.

w/ personal ltr. in 37 ds. for 1 IRC. v/s Olga Troshina, English Service. (Barbour-NH).

AUSTRALIA: Voice International 13685 via Darwin short f/d ltr. in 20 ds. v/s Richard Daniel, Business Services Manager. (D'Angelo-PA).

BONAIRE: Radio Vlaanderen International f/d "Modern Dance" cd. in 27 ds. for 1 IRC. (Brouillette-IL).

ABU DHABI: Adventist World Radio 11975 f/d cd. w/ schedule, AWR QSL stamp, personal ltr. and a copy of "Signs" magazine. v/s E. Guysen-Ruf, Listener Service (Field-MI).

ALBANIA: Radio Tirana 6115 f/d cd. in 64 ds. for 1 IRC and a f/up rpt. (Barbour-NH).


ANTIGUA: Deutsche Welle 9670 f/d "DRM" cd. w/ site in 42 ds. for 1 IRC. (Barbour-NH).

ASCENSION ISLAND: WYFR 21680 f/d cd. in 42 ds. (Glottzbach-NM).

ASIATIC RUSSIA: Voice of Khmer
* Krom 15660 via Vladivostok n/d "London, Ontario" cd. w/ p/d personal ltr. in 1 mo. My rpt. was sent to: Box 28674, Columbus, OH 43228. This address is mentioned in the ltr. However, the ltr. is on Khmers Kampuchea Krom Federation letterhead w/ no address but w/ Ontario phone # and postmarked from London, Ontario, v/s Thach N. Thach. (Craighead-KS). Voice of Russia 17565, 17650, 17660 and 17690 via Komsomol'sk Amure, Petroplovsk Kamchatsky and Vladivostok f/d "View of Kremlin" cd.

STATION NOTES: Missionswerk Werner Heukenbach 11980 Addr: DE-51700 Berneustadt, Germany. Radio Center 5925 v/s Andrey Nekrosov

QSL

AWR  Adventist World Radio®



QSL STAMPS

QSL
Certificado de Sintonía
Emisora Radio Baluarte
Para Jhon Sgrulletta
Muchas gracias por su informe de recepción. Tenemos el gusto de confirmar su control de nuestra emisión en 6215 KHz de fecha 2 de Julio a las 22:17 horas de ARGENTINA de potencia.

X 
firma



ENGLAND: WYFR 15290 via Woo-fer-ton f/d cd. in 42 ds. for SASE. (Glottzbach-NM).
EUROPEAN RUSSIA: Radio Marya 12010 via Samara f/d ltr. w/ info. sheet, cd. of the virgin Mary and a station sticker in 359 ds for 1 IRC. v/s Malgorzata Zaniewska. (Brouillette).
FINLAND: Scandinavian Weekend Radio 11720 (LSB) via Virrat, Finland cd. w/ personal note, 10 stickers, T shirt offer and tourist info. in 123 ds.

FRANCE: Radio Taipei International 12060 f/d cd. in (Glottzbach-NM).
* 102 ds. (Glottzbach-NM). same via Issoudun w/ f/d cd. w/ site and a
* personal note in FR in 4 mo. (Craighead-KS). Radio Jamahiriya 15315

STATION NOTES: Free Radio Service Holland 7450 Addr: P.O. Box 2702, NL-6049 ZG Herten, Netherlands. Mystery Science Radio 6304 via Alfa Lima International Addr: P.O. Box 69, Elhorn, Nebraska 68022. Radio Astoria 6400 Addr: P.O. Box 663, NL-7900 AR Hoogeveen, Netherlands. Radio Casanova 6240.5 and Radio Mario 6275.5 Addr: P.O. Box 46, NL-7160 AA Neede, Netherlands. Radio Black Power 6281.5 Addr: P.O. Box 128, NL-9410 AC Beilen, Netherlands. Radio Bloemenkwekerij 6300 Addr: P.O. Box 145, NL-7160 AC Neede, Netherlands. Radio Caroline 1636 same as Radio Casanova... via PLAY DX.. Sam

Muchas gracias por su información de recepción. Tenemos el agrado de confirmar su control de nuestra emisión en 6.215 KHz.
Fecha 02 / 06 / 2002 a las 22^{da} horas.
Transmitidas con el equipo Nb Eletronic 1.000 vatios de potencia, antena dipolo plano inclinado.
via Sgrulletta

X 



p/d "African Service Rainbow". cd. in 4 1/2 mo. via the Malta address. (Craighead-KS).

FRENCH GUYANE: Telediffusion de France 17630 via Montsinery cd w/ sticker and schedule in 280 ds. (Glottzbach-NM).

GERMANY (East): Voice of Oromo Liberation 15715 via Nauen n/d cd

w/ p/d ltr. in 10 wks. v/s Walter Brodowsky. (Craighead-KS).
GERMANY (West): Radio Ecclesia 13810 via DTK Julich n/d cd. w/ p/d ltr. 10 wks. (Craighead). Radio Free Afghanistan 12030 f/d cd. in 9 ds. v/s * John Vodenik. (Craighead). Radio Xoriyo 15715 via DTK Julich n/d cd. w/

Certificado de sintonía

Radio Baluarte

Ondas Cortas 49 metros
Frecuencia 6215 KHz
A.M. 1610 KHz

"LA VOZ DE LAS TRES FRONTERAS DE AMERICA"
PUERTO IGUAZU-MISIONES-ARGENTINA

Certificamos que el señor Jhon Sgrulletta de la ciudad de Machepac del país de U.S.A a escuchado nuestra transmisión.

X 
Hugo Eidinger
Director de la Radio



"Dios envía su palabra velozmente." Salinas 147.15

p/d ltr. in 10 wks. (Craighead-KS). Tamil Broadcasting Corporation 21590 via DTK Julich n/d cd. w/ p/d ltr. in 10 wks. (Craighead-KS). Voice of Ethiopian Salvation 15670 via Nauen (Sorry..... should be under East Germany..Sam) n/d cd. w/ p/d ltr. in 10 wks. (Craighead-KS). Radio Africa International 15265 via DTK Julich f/d "Africa Map" cd. in 12 ds.

ROGER THE RADIO SAYS^{vvv}



"I'M
TUNED
IN
TO

LASER HOT HITS^{pp}

47w, 49w, 75w

v/s Donna Niemann, Executive Producer and Raphael Mbadin-ga, Associate Producer. (Craighead-KS). RTBF 9970 f/d "Map" cd. in 19 ds. (D'Angelo-PA).

GREECE: Radio Free Afghanistan 9785 via Kavala f/d cd. in 9 ds. v/s John Vodenik. (Craighead-KS).

HAWAII: KWHR 17510 f/d "World Harvest 15 Years" cd. in 323 ds. for ms. Schedule and rpt form rcvd. (Brouillette-IL).

INDIA: United Nations Radio * 13710 via All India Radio - Bangalore n/d cd. in 153 ds. (Glotzbach-NM).

IRAN: Islamic Republic of Iran Broadcasting 11970 and 9610

"Khaju Bridge" cd. and a n/d form ltr. in 58 ds.

Also rcvd. a pile of Islamic books. (D'Angelo-PA).

JAPAN: Radio Japan / NHK World 17825 via Yamata f/d

"Rice Planting" cd. w/ rpt. form, schedule and station brochures in 57 ds. for 1 IRC. (Barbour)

MEXICO: XEOI Radio Mil 6010 f/d "Logo" cd. w/



Laser Hot Hits
MUSIC OVER
EUROPE

STATION NOTES: Radio Doctor Tim 6291 Addr: P.O. Box 1136, DE-06201 Merserburg, Germany. Radio Europe 7306 v/s Dario Monferini. Addr: Via Davanzati 28, 20158 Milano, Italy. Radio Fox 48 6260 e-mail Addr: radiofox48@hotmail.com. Crazy Wave Radio 6259 Addr: same as Radio Doctor Tim. Classic Rock Radio 7480 P.O. Box 663, NL-7900 AR Hoogeveen, Netherlands. Far East Broadcasting Corporation 15095 v/s Jan Bayliss, Overseas Listeners....Via PLAY DX....Sam.

sticker, SP rpt. form and a personal ltr. w/ station seal in 62 ds. for 1 IRC. v/s Hector Garcia Bojorge, DX Section. (Barbour-NH).

NORWAY: Radio Denmark 7490 via Kvitsoy cd. w/ sticker and schedule in 3 wks. (Field-MI). 11635 and 9985 via Sveio cd. w/ schedule in 3 wks. (Field-MI). 13710 via Kvitsoy f/d "There is a Lovely Land" cd. in 10 ds. for 1 IRC. v/s Erik Koie. Sticker and schedule rcvd. (Brouillette)

ROMANIA: Radio Romania International 17805 cd. w/ schedule in 28 ds.

SLOVAKIA: Radio Prague 13580 via Rimavsk Sobota (Barbour-NH).

cd. w/ 2 schedules and sticker in 242 ds. (Glotzbach-NM).

SOLOMON ISLANDS: SIBC

5020 f/d "Island Scenes" cd. in 721 ds. This was 94 ds. after a f/up rpt. Schedule rcvd. (Brouillette-IL).

SRI LANKA: Radio Free

Afghanistan 15690 via Iranawilla f/d cd. and IBB N6VOA cd. in 3 wks. v/s John Vodenik. (Craighead-KS).

RUSSIAN STATE TIME AND FREQUENCY SERVICE

Institute of Metrology for Time and Space (IMVP), GP "VNIIFTRI" Moscow Region, Mendeleev, 141570, Russia

GEORGE L. GLOTZBACH 2002 02 14
5 Heraclea Cort Santa Fe, NM 87508

USA

Thank you for your reception report.

We are pleased to verify your reception of our radio time signals

transmitted by RWM from Moscow on 9.996 kHz
08.56 UTC 2000 05 10

Yours sincerely
for State Time and Frequency
Service of the Russia

THE 1700TH ANNIVERSARY OF PROCLAMATION
OF CHRISTIANITY AS STATE RELIGION IN ARMENIA

To Mr. Richard A. D'Angeli
0

This verifies your reception
report on our transmission

Date: 12.I.2002

Time: 20.40-20.59UTC

Frequency: 9960 Khz



Radioagency
"VOICE OF ARMENIA"
Alek Manukian 5
Yerevan 25
Republic of Armenia

QSL

* Radio Sawa / Middle East Radio Network
15545 via Iranawilla
f/d cd. in 3 wks. v/s
John Vodenik. (Craighead-KS).

SWITZERLAND: Swiss Radio International 9885
via Sottens f/d cd.
in 90 ds. for 1 IRC
after a f/up rpt.
(Barbour-NH).

TAIWAN: Adventist World
* Radio 15490 via RTI
Paochung f/d "Chinese
Birds" cd. in 115 ds.
(Glottzbach-NM).

TURKEY: Voice of Turkey 9655 and 11960 f/d "Turkish Souvenirs" cd. in
33 ds. for 1 IRC. Schedule rcvd. (Brouillette-LI). 11655 f/d "Flower"
cd. in 32 ds. (Barbour-NH).

USA: KTBN 15590 no QSL but I got an envelope stuffed w/ TBN logo stick-

MEMBERS NOTES: Ron Howard checks in from Monterey, CA with a few reports for the column. Its been a long time since you graced our QSL section. Please don't stay away for so long. We all missed you...Sam. Joe Kenneth Wood is a new member to NASWA. Thanks for the QSL from Wales Radio and keep those QSL reports coming in...Sam. One of our regular contributors John Sgrulletta in Mahopac, NY sent along greetings to everyone. We always enjoy your contributions...Sam.



OXAKA (Onda Corta) 5950 SW OXAKB (Onda Media) 1050 AM
Iglesia Cristiana Pentecosta del Movimiento Misionero Mundial

Arquipa, Junio, 08 del 2002

SEÑOR:

JOHN L. SGRULLETTA
337 BULLET HOLE ROAD
MAHOPAC, NY 10541-3695
UNITED STATES OF AMERICA

PRESENTE-

De nuestra Mayor consideración:

Me es grato dirigirme a Ud. Con el fin de manifestarle que hemos recibido su carta en la que nos menciona haberlos atendido en su país. Realmente es una carta nos gusta y nos anima a seguir adelante.

Somos una emisora totalmente cristiana y nuestro finco fin es el de anunciar las buenas nuevas de nuestro Señor Jesucristo por todo el mundo. Tristemente el terreno que sufrimos abundantemente, ha debido sermienta nuestra planta de transmisión y los equipos con los cuales operamos, no son los mas fincos para seguir cumpliendo esta misión. Para Dependemos totalmente de nuestro Dios y de la generosa ayuda de nuestros oyentes.

Queremos adelantos mejorar nuestra señal pero lamentablemente no poseemos con los recursos necesarios para poder renovarlos. Confiamos en nuestro buen Dios tendrá a personas dadas y nos proveyerá lo que estamos necesitados.

Le confirmamos que nuestra Radio Bethel Arquipa y salimos al aire en 02 frecuencias en Onda Media en AM 1650 y Onda Corta en 3940 Khz con una potencia de 1000 Vatios que es la misma que nos hace referencia en su carta. Nuestro horario en la banda corta es de 4 PM a 11 PM de la noche. hora del Perú.

Si quisiera comunicarse con nosotros y contactos hasta donde llega la señal en su país y sugerimos como podemos mejorar nuestra programación y como Dios le Bendice, servimos por favor la carta al Sr. Mail :

Arquipa, Jose@hotm.il.com

Dios le Bendiga

Le amamos en el Señor



Jose L. Sgrulletta
Avda. Jofre Abouruz Pacheco
Movimiento Misionero Mundial
Presbitero zona Sur - Perú

ers and a ball point pen in 45 ds. for \$2.00 after a f/up rpt. Got a receipt in the mail and a plea for more \$. I think I'm on their mailing list.

* (Barbour-NH). Remnants Hope 6890 via WWRB f/d "Rainbow" cd. in 2 wks. v/s Pastor Tim Butler. (Craighead-KS).

USA (Pirates): KIPM 6955 f/d QSL #647 poster w/ RS language verie stamped and a program list in 44 ds. forSASE and \$2.00. (Name?)

* Voice a' Da Tiki 6925 f/d "Color picture of a topless dancer on a Pacific Beach paying homage to her God" in 160 ds. for a rpt. to the Elkhorn drop. Maxwell certainly creates some unique treasures.

* (Wilkins-MO). Captain Morgan 6950 f/d "Wall Clock" in 11 ds. for a rpt. posted on the FRN website. The most unique QSL I have ever received. (Barbour-NH).

Just enough space to say goodbye.

Sam

Net Notes

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

We've had a bit of a fuss lately with Real (real.com) over their streaming audio player and subscription service. If you've ever given them your credit card and then opted to test the new Real One player, watch out.

In the dim and dusty past I opted for a "lifetime" purchase and support of RealPlayer 8 and the wonderful supplemental audio tool iQfx2. The latter adds dimensionality to the audio, even on smaller, cheaper speakers and low-cost headsets. At that time I opted out of the Gold subscription service that delivered baseball games, other sports, live shows, etc.

Lately, upon exiting RealPlayer 8, Real has been bugging us about upgrading to Real One and trying the latest incarnation of the subscription of the subscription service.

True, the harassment stopped, but so did our version of iQfx2... and we'd have to buy a new one. Not so good, we said. Then a credit card bill arrived, and we found a charge for the new subscription service on the statement. It seems that Real retains your credit card number, once used, forever more. Really not so good, we said.

For those of us primarily using Real

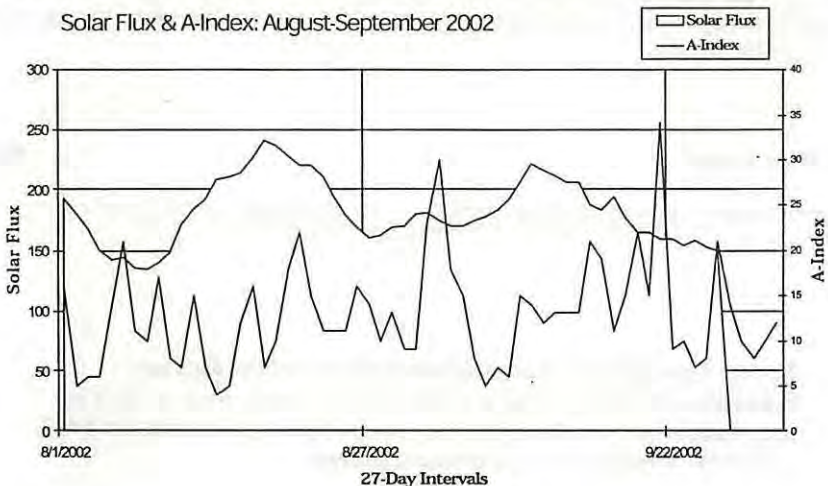
Player to listen to overseas international broadcasters, the subscription service offers, in my opinion, nothing of value for most, if not all NASWA, members.

Reverting to the older, paid-for, software and removing charges from our credit bills was time wasted. Don't let Real trip you up on your credit card usage.

In defense of Real the company did get one thing right this past month. The new Real One player now directly works on the Mac OS X 10.2 "Jaguar" — not OS 9 or older. Judging from listening to the various audio devices on the PC, Real, in my opinion, continues to sound vastly superior to WinAmp, Windows Media and other common Windows streaming devices. If Real has kept up its standards, the OS X player ought to sound magnificent.

We have been listening to the classical music on BBC Radio 3 on the iQfx2-enhanced RealPlayer, and it sounds great. If you opt to get the RealOne player and want to make sure you do not accidentally get billed for subscription services, just be sure to remove your credit card from Real's business records.

Solar Flux & A-Index: August-September 2002



Contributors' Page

Bob Montgomery • P.O. Box 1458 • Levittown, PA 19058 • RMonty3@worldnet.att.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
John BEATTIE, Ventura, CA	no equipment listed
Jerry BERG, Lexington, MA	R8A 165' LW
Ralph BRANDI, Tinton Falls, NJ	AOR7030, R8, 250' longwire
Paul BROUILLETTE, Geneva, IL	Drake R8, ICF2010, 60' long wire
Eric BUENEMAN, Hazelwood, MO	ATS803S, MFJ-1778, G5RV, MFJ956 tuners
Peter COSTELLO, Matawan, NJ	AR3030 DX-390 YB400 70' LW Tun-4A
Rich D'ANGELO, Wyomissing, PA	Drake R8B, Lowe HF-150, DX Sloper
Jerry ERVINE, Hidalgo, TX	R2000, 5 band Vert. wire, Palomar preamp
Bob FRASER, Cohasset, MA	Sony ICF-2003 ICF-SW100S 2m LW
Jerry LINEBACK, Scranton, KS	Icom 746 beverage antennas
William McGUIRE, Cheverly, MD	DX-380
Bob MONTGOMERY, Levittown, PA	NRD535D, R390A, RX320, HF150, SE3, active antenna
Ed NEWBURY, Kimball, NE	WJ-1000, R8, 60' sloper, 20' loop
Mike PACE, Tipton, IA	Drake SW2, MFJ1022
Andy RUGG, Cornwall, ONT	Icom 735, multi-band ham antenna
Rik VAN RIEL, Curitiba, BRA	Icom R75, T2FD antenna
Steven WISEBLOOD, Brownsville, TX	DX160, 100' long wire
Gerald WITHAM, Keaau, HI	R8, 185' split LW, ANC-4
Joe WOOD, Gray, TN	DX-390, Grundig Mini 100 PE, whip antenna
Dan ZIOLKOWSKI, Franklin, WI	RX320, 100' wire antenna

Nice turn out this month and some nice logs. Anyone submitting to the Pirate listing might forward your name and equipment to me so I can add the info to the listing. Have a nice Fall DX season!

73

Bob Montgomery



Notice: I am having minor problems with my <naswa@att.net> connection. Mail does come in and out, but I want to work on it. You may want to use <weoliver@att.net> as a temporary measure, but I will get NASWA mail if you use the naswa address.

Tropical Band Loggings

Dan Ferguson • 12053 Kahns Road • Manassas, VA 20112 • troplogs@zerobeat.org

Tropical band reception is starting to pick up. Be sure to let us know what you're hearing. Deadline to the distribution editor is the 10th. Deadlines to the address troplogs@zerobeat.org are October 20 & November 17, but logs can be sent anytime. DanF

- 2310 AUSTRALIA ABC 1155 M in EE //2325 & 2485, all fair 8/28 (Lineback-KS) And 9/14 1158 EE pops, //2325 & 2485, all poor. (Lineback-KS)
- 2410 NEW GUINEA R.Enga 1149 in Vern past 1206, poor 8/28 (Lineback-KS)
- 2899.1 INDONESIA RPDT2 Ngada Bajawa 1155 Indo mx, poor 8/28 (Lineback-KS)
- 3200 SWAZILAND TWR 0313 M anc in unknown lang; then mx chants of some sort at 0314. S7 signal level with some fades. M anc again 0316 in lang. Nice copy w/ poor. A index 36 and solar flux 183, K 6. 9/8 (Montgomery, PA)
- 3215 MADAGASCAR AWR 0258 weak but audible w/mx at t/i 9/8. (Montgomery, PA)
- 3220 NEW GUINEA R.Morobe 1151-1214 M in Vern, pops, poor to fair 9/14 (Lineback-KS)
- 3220.0 ECUADOR HCJB 1000 SS rel anmts, Andean vocals w/flute/harp (Wiseblood 9/6)
- 3235 NEW BRITAIN R. West New Britain 1124 8/30 M in Vern poor on upper edge of ute. Also 9/14 1150 EE pops, poor due to UTE QRM (Lineback-KS)
- 3260 NEW GUINEA R. Madang 1148 Aug 29, Vern pops, poor 8/29. Also 1149 9/14 Vern pops, very poor. (Lineback-KS)
- 3265 SULAWESI RRI Gorontalo 1159 SCI, into RRI nx, poor 8/30. Also 9/14 3266.5 Indo pops 1149. (Lineback-KS) On 3266.42 1126 w/upbeat MoR/pop music, Indo anmts by M. 9/7 (Wiseblood-TX)
- 3270.13 NAMIBIA Namibia Broadcasting Corporation 9/10 0445 News pgm in English, with some reports sourced from BBC, ID as "NBC" @ 0500, then off (Brandi-NJ)
- 3275 PAPUA R.Southern Highlands 1148 Vern pops, poor- fair 8/28,9/14. (Lineback-KS)
- 3279.55 ECUADOR Voz del Napo 2313 UTC. Andean choral music, not quite the same stuff they broadcast on weekdays. ID 0003, SIO 233 8/30 (Riel-BRZ) 1058 9/1 SS anmts by M, into brief Andean flute/harp/guitar mx, 1100 rel sermon in SS. On 9/6, 1001 SS rel talk by W, then M sermon "La Palabra de Dios". (Wiseblood-TX)
- 3290 GUYANA Vo Guyana 0912-0923 in EE/SS. Tlk at tune-in of "Overnight BBC program". ID 0915, local TC and ment. "Early Bird program, sponsored by Kentucky Fried Chicken and Pizza Hut"; then read menu items and price lists! Lively SS mx. Weak but readable w/ very little noise 9/3.(Barbour NH) 3291.26 0855 birthday wishes, reggae mx, ID 0901 during more birthday wishes, TC, into bhangra song. Excellent 9/21. (Brandi-NJ)
- 3290 PAPUA R.Central 1123 Vern pops, poor 8/30 (Lineback-KS)
- 3305 PAPUA R.Western 1155 Aug 30, OM in Vern, poor, Aug 28 GSTQ hrd at 1204 s/o, poor 8/30. And 1146 traces of audio, very poor 9/14 (Lineback-KS)
- 3310 BOLIVIA R Mosoq Chaski 0007 Andean music, female announcer in quechua w/ station name at 0038, SIO 433 8/31. (Riel-BRZ)
- 3315 INDIA AIR Mumbai 0037 Very weak audio but mx getting thru and that of Indian type. Above and below noise floor of s3. No static crashes. Deep fades but audible most of the time. 9/9 (Montgomery, PA)
- 3315 ADMIRALTY IS R. Manus 1143 YL in Vern, poor to fair 9/10.(Lineback-KS)
- 3320 SOUTH AFRICA R.Sonder Gense Meyerton in Afrikaans 2318-0003. Radio drama until 2334. M announcer "Fritz" w/phone-in pgm. Topic re "G.W. Bush; Saddam Hussein"until 0000 outro mx and "Fritz" w/positive ID. YL w/tlk and mx followed. Many calls began w/salutation, "Hello Fritz". Very good signal on clear channel! First ever log of this station for me. 8/21 (Barbour NH)
- 3325 GUATEMALA R.Maya de Barillas *0907-0920 SS ID, call, "BA" ".90 metros.. Guatemala, Centro America." over mx, 4SS ballads. Poor 9/18. (Barbour-NH) 3324.98 1026 man in SS talk over music. 1027 LA tune, male vocal. with guitar. Weak, but fully understandable; in clear but lots of QRM 9/1. (Ziolkowski-WI)
- 3325 KALIMANTAN RRI Palangkaraya 1208 RRI nx, poor 8/24 //4753. 8/25 SCI hrd, bad het. (Lineback-KS) 1159 SCI in mix and het, very poor 9/10. (Lineback-KS)
- 3345 MOLUCCAS RRI Ternate 1208 RRI nx, still bad het 8/30. 1142 Indo pops poor w/het, rising to fair by 1159 SCI; 9/14. (Lineback-KS)

- 3345 **NEW GUINEA R.Northern** 1104 & 1155-1200* bouncy Vern pops rising up out of mix to fair level, M w/Vern anmts & GSTQ 1200, 8/30 & 9/1. (Lineback-KS)
- 3350 **COSTA RICA REF** 9/11 0529 SS talk. Good 9/11. (Bueneman-MO)
- 3355 **NEW GUINEA R.Simbu** 1146-1201* EE pops, OM in Vern anmts & GSTQ, fair 8/28 (Lineback-KS) And 9/14 1142 Vern pops, still going 1212 recheck, poor. (Lineback-KS)
- 3365 **NEW GUINEA R.Milne Bay** 1145-1202* Vern pops, s/o w/GSTQ, poor 8/28. And 9/14 1209 M in Vern, Vern pops, inaudible 1140 check, poor. (Lineback-KS)
- 3366 **GHANA GBC** 0524 music, then NA 0527, EE ID 0528, into religious "Thought for the Day"; 9/10. (Brandi-NJ) 0530 Afr mx, EE talk. Poor 9/11. (Bueneman-MO)
- 3375 **NEW GUINEA R.Western Highlands** 1145-1202 Vern pops, Vern nx @1200, poor 8/28. And 9/14 1140 Vern pops, poor, (Lineback-KS)
- 3905 **IRIAN JAYA (PAPUA) RRI Merauke**, 1145-1201 Aug 28, instrumentals, Indo vocals, SCI 1159 into RRI nx, poor, RNI off for a while (Lineback-KS) And 9/14 1159 SCI into RRI nx in clear by 1205 following RNI s/off, poor. (Lineback-KS)
- 3905 **NEW IRELAND RRI** 1159-1204* M in Vern w/anmts and possible brief nx items, GSTQ 1204, then off, revealing RRI nx in progress, both at poor levels w/ARO QRM, 9/14. (Lineback-KS)
- 3975 **HUNGARY R.Budapest** 0329 Lots of ID's in EE, FF and Ukranian. by M&W announcers; then to Ukranian broadcast. S7 signal level 9/8. (Montgomery, PA)
- 3976 **KALIMANTAN RRI Pontianak** 1129 YL in Indo, fair 8/30. And 9/14 1150 Indo pops, poor to fair amidst AROs. (Lineback-KS)
- 4000.1 **SULAWESI RRI Kendari** 1155-1201 Indo pops, SCI 11599 into RRI NX, poor 8/29. And 9/14 1157 Indo pops, SCI 1159, fair to good. (Lineback-KS)
- 4052.5 **GUATEMALA R.Verdad** 0205-0215 call in talk show in progress at T/I. SS station with religious content. Weak reception but audible at S5 level 9/7. (Montgomery, PA) 0307-0323, instrumental music until a man gave ID and announcements in Spanish at 0311. Fair 9/12. (D'Angelo-PA) 0332-0348 in SS talk and Instrumental rel. mx w/ID 0334. Cuckoo clock 0337, followed by lively stringed instrumentals. It would appear that the transmitter has been repaired? Fair 9/12. (Barbour-NH)
- 4389v(p) **PERU R.Imperio**, Chiclayo(p) 0405-0426 M&W SS talk (live?) w/crowd noise in background. Mx 0411, more M talk. Back to live M & crowd noise. Believe it was a sporting event (futbol?); ancr wasn't as "animated" as most futbol announcers I have heard. WRTH lists this time & freq as noted. 8/30. (Barbour Jr-NH)
- 4606.4 **IRIAN JAYA (PAPUA) RRI Serui** 1155-1201 Indo pops, SCI 1159 into RRI nx, poor 8/29. (Lineback-KS) 1156 Indo pops, SCI 1159, very poor 9/14. (Lineback-KS)
- 4690 **DOMINICAN REPUBLIC R Villa** 0126-0300 Tropical MX, several IDs, M&W in SS. Heavy QRM w/ fading 8/13. (Ervine-TX)
- 4716.74 **BOLIVIA R.Yura** 2336 typical Andean mx, SS W ancr 2349 w/ID, fair 8/29. (Riel-BRZ)
- 4746.93 **PERU R.Huanta** 2354 Andean mx, ID before ads 2355, news & ID at 2400; fair 8/29. (Riel-BRZ)
- 4753.3 **SULAWESI RRI Makassar** 1153-1201 Indo instrumentals, SCI 1159 into RRI nx, good 8/29. Also 9/14 on 4753.35 Indo pops 1155 & 1206 recheck. (Lineback-KS) 1036 on 4753.4, weak but audible w/mx at tune in. Heavy static due to approaching storm at my qth. 9/1. (Montgomery, PA) 1216 Indo news documentary pgm with taped interviews, 8/31 & 9/6. (Wisblood-TX)
- 4755 **BRAZIL R.Educaçao Rural** 0125 PP, local pops, full ID 0132. Fair in heavy QRN 9/4. (Brouillette-IL)
- 4760 **INDIA AIR Leh** (?) 1214 subcont mx; gray line lies over Deli-Leh area in NW India so presume this area; poor 8/30. (Lineback-KS)
- 4760.0 **ANDAMAN ISLANDS AIR Port Blair** 1212 SAs mx, subcont. stringed instmts w/hi pitched F vocals, 1217 M ancr in presumed Hindi. Good 8/31 & 9/6. (Wisblood-TX)
- 4770 **NIGERIA Radio Nigeria** 0534 noted with Afr music and EE talk. Fair but poor mod 9/11. (Bueneman-MO) 4769.95 missed closing anmt but hrd Nigerian NA to 2301*; good 9/14. (Berg-MA)
- 4775.0 **PERU R. Tarma** 1053 Andean harp & flute music, 1057 M w/SS prayer, choral music "Aleluyah!", 1101 M SS anmts, 8/31. Also 9/11 1018 Andean flute/harp vocal music, M SS anmts, TC, ads, promos, slogan. (Wisblood-TX)
- 4780 R **GUATEMALA R. Cultural Coatin**, San Sebastian 9/4, 0202 - 0228, SS, reactivated with rustic vocals, some like Mexican ranchera tunes, some Christian. M DJ w/ saludos. Full ID at s/off. Fair-poor in QRN 9/4. (Brouillette-IL). 1051 light vocal/ instl mx, ballads, 8/31. Again 9/7 1140 SS sermon by M. (Wisblood-TX) 9/11 1055-1106 RF in SP. Up beat SS mx at t/I, canned ID 1057, as noted in HCDX & DXLD; "RadioCultural Coatan..onda corta 60 metros..Centro America.." Instl mx with talk heard thru TOH. Weak; static and rapidly fading after TOH. (Barbour-NH)

- 4781.3 **ECUADOR R. Oriental** 1051 Spanish talk by man, greeting listeners, local Andean folk music, reading letters from listeners, TC; 9/1. Also 9/11, 1026 Andean flute/harp vocal mx, M SS anmts. (Wiseblood-TX) Tentative 8/31 0014 SS M ancr, tent ID & frequencies followed by music, poor 8/30. (Riel-BRZ)
- 4785.06 **BRAZIL R. Caiari** 0014 PP talk pgm, ads(?), ID 0023; poor 8/30. (Riel-BRZ)
- 4790 **INDIA AIR** 2358 IS into talk 0000; hard to copy but IS was theirs. 9/19. (Brandi)
- 4790.0 **PERU R. Atlántida** Iquitos 1026 Andean flute/harp vocal mx 9/11 (Wiseblood-TX)
- 4794.94 **BRAZIL R. Difusora Aquidauana** 0026 ads for various companies in the Aquidauana region followed by ID and announcements of various parties, fair 8/30. (Riel-BRZ)
- 4799.77 **GUATEMALA R. Buenas Nuevas** 0131 M SS anmts, TC, mentions of Santa Barbara, Guatemala; fiddle music, religious stories & sermons 8/30. (Wiseblood-TX)
- 4805 (p) **BRAZIL R Dif Do Amazonas** Manaus PP 2309-2325 M tlk over "sweeper" QRM. Festive mx, "hyper" DJ and several ments. of "Brazil" heard during ads, announcements 2321. Poor 8/13. (Barbour NH) PPWBR shows this station as "Inactive" on this freq. ????
- 4815 **BRAZIL Radio Difusora** Londrina 0928-0939 M w/PP talk, ID and frequency announcement. After brief segment of instrumental music, another man gave a religious talk. Good 9/4. (D'Angelo-PA)
- 4815 **ECUADOR R. Buen Pastor** 1027 Andean vocal flute/harp music, 1105 M w/SS religious sermon, religious vocal music; 9/11. (Wiseblood-TX)
- 4820 **BOTSWANA Radio Botswana** *0256-0322 familiar barnyard IS, choral NA 0259, ID, s/on anmts by M 0301; into tribal vocals at 0305. Fair 8/31. (D'Angelo-PA)
- 4824.4 **PERU La Voz de la Selva** Iquitos 1038 SS nx by M&W, TC "5 y 38 minutos", Fair 8/31. Also 9/7, 1030 "En Contacto" local news read by man in SS; 1033 ad string, station & concert promos. And 9/11 1032 man in Spanish with local announcements, ad string, TC. (Wiseblood-TX)
- 4825 **BRASIL R. Canção Nova** 2350-0015 in PP. ballads to 2358 pos ID over piano mx. Ads/anmts to 0004, more ballads. Poor, weak signal 9/18. (Barbour-NH)
- 4830.0 **BOLIVIA R. Grigota** 1035 man in Spanish with announcements, Cuban sounding ballads with harp accompaniment, 911. (Wiseblood-TX)
- 4832.0 **HONDURAS R. Litoral** 1138 lite SS Christian vocal music, 9/7. (Wiseblood-TX)
- 4835 **MALI RTV Malienne** FF 2340-0002*, FF version of "Unchained Melody", MoR mx, ballads. M w/very weak audio over mx before s/off; NA. Fair 7/31. (Barbour NH)
- 4845.0 **GUATEMALA R. K'ekchi** 1104 M w/SS rel talk, 8/31. And 9/11, *1100, 1109 rel talk by man in Mayan dialect & Spanish, sermons & prayers. (Wiseblood-TX)
- 4845.0 **MAURITANIA RM** 2351 live interview/discussion program between several people in Arabic, man strumming a guitar in the background 8/31. [Wiseblood-TX]
- 4845.24 **BRAZIL R. Cultura** Manaus 0155-0342*; variety of lcl ballads/pops, lite instr mx. And even some mx by the Beatles. PP anmts. ID. S/off with NA. weak. No sign of R. Kekchi 8/24. (Alexander PA)
- 4856.0 **PERU R. La Hora** Cusco 1101 W w/brief SS anmts, M w/station slogan, ads, promos; 1105 daily prayer & sermon in SS, 8/30. On 9/6, 1029 Andean vocal music. 9/11, 1038 man in Spanish with religious sermon. (Wiseblood-TX)
- 4865.0 **BOLIVIA R. Centenario** 1050 man in Spanish with local announcements, ad string, religious vocal music, 1105 sermon by man in Spanish (Wiseblood 9/11)
- 4875 **BRAZIL R. Difusora Roraimo**, Boa Vista (p) 0356-0402* PP ballad and om w/ tlk Rock mx @ 0400 w/ tent ID ment. "kilohertz" amd "Brazil". Om w/ closing announcements until abrupt s/off. Fair 8/31. And 9/12 on 4874, 0039-0416* PP/EE mx; tent ID w/anmt 0340. Cont. Ballads & lite pops to 0416* midsong. No closing ID or anmt. EE mx "You should have been mine 0345. Nice reception. (Barbour Jr-NH)
- 4876.6 **BOLIVIA La Cruz del Sur** 1044 M SS anmts, many ments of Cuba (Wiseblood-TX) Then 9/6 on 4876.7 M w/SS anmts & local nx 1019, with many mentions of La Paz, sports scores, Andean high-pitched woman vocalist. (Wiseblood-TX)
- 4879.0 **ECUADOR R. Nacional Espejo** assumed the one here 1056 Andean vocal music, man in Spanish with announcements, 9/11 (Wiseblood-TX)
- 4885 **BRAZIL ...** interesting situation here as the BRZ sigs improve. At 0859 9/1, R. Bandeirantes hrd w/full ID with their fqys and calls, and an exceptionally good sig. Per DBS, their programming is carried by R. Cl.do Para, and at 0900 Para gave their full ID, likewise with fqys and calls. While this was going on, another Brazilian, presumably Rdif Acreana, was signing on underneath with the ZY NA. (Berg-MA)
- 4890 **PAPUA Nat. Radio** 1152 EE pops, good 8/29 & 9/14. (Lineback-KS)
- 4895.0 **MALAYSIA (SARAWAK) RTM** Kuching 1155 pop/vocal mx, 1200 nx by W w/ments of Kuching & Sarawak. 8/31. Also 9/7 1136 MoR sounding vocal music. (Wiseblood-TX)

- 4905.0 **INDONESIA** unID location; 1156 pop vcl mx, 1200 M Indo nx. 8/31. (Wiseblood-TX)
- 4915 **BRAZIL R. CBN Anhanguera** 0130 futebol, fast talking M, PP IDs. 8/22. (Ervine-TX)
- 4915 **GHANA R. Ghana** Accra 2203-2216 M w/EE nx re UN, W.Afr. economy. ID 2207 "You are listening to the nx from Radio Ghana, Accra". Hi-life mx in Vern 2212. fair 8/13. (Barbour NH) 2345 Man in EE TC/ID, into English nx. 8/31. (Wiseblood-TX)
- 4919.0 **ECUADOR R. Quito** 1030 romantic ballads. Badly overmodulated 8/31. Also 9/6 1016 lite Andean vocal music w/harp/accordian. (Wiseblood-TX)
- 4920 **INDIA AIR Chennai** 1217 M in lang & subc. mx under CHN, vy poor (Lineback-KS)
- 4925 **SUMATRA RRI Jambi** 1153 Indo pops, poor 8/29 & 9/14. (Lineback-KS) 1149 Indo instr/ vocal music, Indo pop music, 1202 news by Man in Indo. F-G 8/31. (Also 9/7 1133 local anmts, 1137 martial sounding song, more anmts. (Wiseblood-TX)
- 4939.65 **VENEZUELA R. Amazonas** *1000 9/14 (though carrier had been on for at least 40 mins). Opened with fqy anmt, then YV NA, long anthem of the state, then pgmg ended until picked up again arnd 1015. So-so signal. Also hrd 0100 Sep 12, light SS vocals, anmts in between, bad modulation, and voice less strong than mx. (Berg-MA)
- 4949.99 **ANGOLA Radio Nacional de Angola** 0510 western-style pop music, announcements in Portuguese, IDs 0520, 9/10. (Brandi-NJ)
- 4950.14 **PERU R. Madre de Dios** 2225 Andean mx, M SS ancr. ID 2230, fair 8/29. (Riel-BRZ) 4950.00, 1041 upbeat rel vocal mx, M SS w/lcl anmts, 9/11. (Wiseblood-TX)
- 4955.0 **PERU R. Cultural Amauta** 1040 slow Andean vocal ballads, flute/harp vocals, 1046 religious sermon by man in Spanish, 9/11. (Wiseblood-TX)
- 4959.86 **DOM REP R. Villa** 0700-0721* Merenque mx. SS pops. ID. Short SS anmts. Abruptly off at 0721. Really boomng in with excellent signal. Not hd in a while. (Alexander PA 9-1) R.Cima 0125 non-stop merénque. (Wiseblood 8/31)
- 4970 **CUBA Radio Rebelde** 9/10 0521 SS ID, Cuban mx; // 5025; 710 x 7 (Brandi-NJ)
- 4975.0 **PERU R. del Pacifico** 1100 WSS rel talk, TC, 8/31. And 9/11 1014 sermon by man in SS. (Wiseblood-TX)
- 4985 **BRAZIL R. Brasil Central** Goiania PP 0319-0331; ballads, quick IDs between songs. M w/several IDs 0328 during anmts, more mx 0330. good 8/3. (Barbour NH) 2347-0017 M with PP rel talk; M ID 2355, vcls. Fair to good 8/13. (D'Angelo-PA)
- 4990 **SURINAM R. Apintie** 8/3 in Dutch 0840-0910 EZL mx, tlk w/M&W, probably an interview. Positive ID w/flutes heard during 0900 anmts. Mx prg w/ W heard between songs. Fair w/het 0900 (p) R.Ancash s/on? 8/3. (Barbour NH)
- 4990.8 **UNID** 8/5 0212-0235, SS, older US soft pop tunes, like "Sunny", etc. M in SS w/ TC's, but voice modulation so poor could understand very little. No apparent ID's. Type of music does not fit stations usually heard near this freq. (Brouillette-IL)
- 4992.5 **PERU R. Ancash** 1013 Andean vocal mx, SS man with local anmt, 9/6. (Wiseblood-TX)
- 4995.6 **PERU R. Andina** 1045 Andean flute/harp vocal mx, M SS anmts. 9/11. (Wiseblood-TX) 0120 Andean mx, talk pgm, W ID 0152, good 8/31. (Riel-BRZ)
- 5005.16 **PERU R. San Miguel** 0037 Latin/andean music, M SS ancr, ID "Radio San Miguel" at 0052; fair 9/1. (Riel-BRZ)
- 5009.79 **DOM REP R. Pueblo** seemingly a "LV de la Liberacion" pgm in PP rather than SS at 0415 Aug 31, bit of mx 0425, back to SS with pgm preview, ments. of LV de la Liberacion and other evangelical pgms, several ments. of R.Pueblo, group singing, 0431 ID for "R. Pueblo AM," further ID for SW fqy, brief closedown anmt, then NA and off in mid-anthem at 0432:30. Good signal. And 9/6 5009.72 carrier coming on 0858 started playing "Theme from 'A Summer Place'" at 0906, ID as "Esta es R.Pueblo" at 0907, couple more different IDs over the next few minutes. So-so strength, poor audio, and fqy slowly drifting upward. (Berg-MA) SS 0157-0205* SS versión "Bridge over troubled waters" M w/ID and ment. "Santo Domingo"; NA at s/off cut off mid-song. Fair. Also 8/31 w/ID and same NA but at 0433 s/off! (Barbour NH)
- 5010 **MADAGASCAR RTV Malagasy** *0259-0332, open carrier followed by choral NA, M w/ opening ID and s/on anmts. Mix of brief talks followed by tribal vocals. Fair 8/28. (D'Angelo-PA) *0254 Malagasy, IS, ID, pgm prevu by M, jazzy trumpet theme mx repeated throughout pgm, hymn by choir, W rel talk, few selections local pop mx, regional nx, incl. phone-in from Mozambique. Must have upgraded xmtr. It is spot on stable 5010 and rx was phenomenal—almost local quality tonight. (Brouillette - IL)
- 5020 **SOLOMON IS SIBC** 1127 M&W in EE, presume BBC WS, poor 8/30. (Lineback-KS) And 9/14 1153 M in EE w/BBC sports nx, poor to fair. (Lineback-KS)
- 5030 **BURKINA FASO Rdiff TV Burkina** 2328-0001* Sep 15, M ancr with FF phone conversations with listeners and highlife music to 2359 ID and s/off anmts, followed by instrumental national anthem. Good 9/15. (D'Angelo-PA)

- 5030.0 CHINA *CNR-1* 1215 M&W SS nx, taped segments of pol speeches, 8/31 (Wiseblood-TX)
- 5035.00 BRAZIL *R. Aparecida* 0119-0130 In PP, chants of what might be rel prg. S9 signal level with some fades. Fairly clear reception. ID is tent. 8/31. (Montgomery, PA) 0140-0206 on 5035.1, 9/13, PP rel discussion by a W & 2M; prayer and more talks. Nice ID at 0159. Poor but //9630.2 was fair. (D'Angelo-PA) Presumed, 9/2 2310-2320 in PP. Was listening to R.Burkina on 5030 when I thought they signed off early around 2308. Tuned down to 5035 and heard a M&W in PP talk, ballad; poor reception. Also ads and anmts to 2320 when QRM splash from 5030 wiped them out. R.Burkina was back on freq w/M in FF playing Fleetwood Mac mx in EE! Perhaps someone fell "asleep" at the switch at R.Burkina? (Barbour NH)
- 5050.1(p) TANZANIA *R. Tanzania* Dar es Salaam, tone from 0147 tune-in. Pgm started 0155 with talk; very weak, no chance on 5985 (blocked). 8/28.-MA)
- 5100 LIBERIA *R. Liberia Int.* Het first hrd 2130 and finally audio appeared at 2214 w/W singer. Vy weak but no rtty qrn. First time hrd here in months. M EE at 2228 with nx items, mx at 2231. Reception improves with time. Non- English tunes. S7 level at 2240 with fades. M ID 2245 and several times before toh. 8/25. (Montgomery, PA)
- 5145 CHINA *CRI* 1130 mellow female vocals with man with a few words between songs. Listed as MONGOLI. Fair signal and in the clear 9/8. (Ziolkowski-WI)
- 5469.96 LIBERIA *R. Veritas* listening since 2230 8/26; mediocre signal but improving, definitely EE, definite ment. of Liberia at 2245. Taking phone calls, giving tel. no of (I think) 227697, hrd studio side of tel. conversations, listener side very low. Talking about politicians, elections. At 2253, two R. Veritas IDs, ment. of 5470 SW, religious promo. (One of the ancrs comes through very well, other speakers so-so.) Into religious talk, Lord's Prayer 2259, ID with 5470 fqy ancd again, into light vocals. Pgm stopped 2302, carrier off. I listened to their closedown at 2302* 8/27 as well, but rx was not as good. Have also tried at various times between 0400 and 0700 to see if I can catch their s/on, but nothing hrd on either 5470 or 3450. (Berg-MA) 9/2 2224-2302* in EE tlk between 2 om and phone-in program. Tentative ID @ 2243 w/ ment. "Monrovia, Liberia" lite pop mx to 2255 when barely audible) w/s/off anmts ment "5470 khz". mx until s/off. Good mx audio, poor vox audio, hard to copy much of anything. (Barbour NH)
- 5500.16 PERU *R. San Miguel* Pallaques 0116 tentative as playing mx and unable to copy ID as just above noise floor. M ancr 0118 in SS but too weak to get much from it. 250 watt station 9/5. (Montgomery-PA)
- 5675 CHILE *Voz Cristiana* (mixing product 6070 and 11745?), 0142. Talk program in SS w/M&W, then music and *Voz Cristiana* ID and jingle 0159, poor 9/1.(Riel-BRZ)
- 5678 PERU *R. Ilucan* 0110 standard Andean music, regularly interrupted by a male announcer. ID 0126, good 8/31. (Riel-BRZ)
- 5696 U CZECH REP *R. Prague* (spur!) 0215 seriously distorted R. Prague audio in USB mode, SS px.. Not recognizable until the RP IS came on 0228. 8/31. Also 0200 9/1 US Coast Guard much louder than the RP spur, but with obvious comms problems (because of R. Prague??). (Riel-BRZ) 0229 in SS with poor audio but booming signal on the USCG freq. W ID 0215, IS 0227, then off. Surprised by this one as it could have been a feeder or just a foul up by the station (Montgomery-PA)
- 5699.86 PERU *R. Frecuencia* San Ignacio 0040 lots of mostly non-stop Andean music, station name jingle at 0105, fair 8/31. (Riel-BRZ) 5699.90, 0045-0122 very weak audio under buzzsaw like noise. Tweaking the 535d I was able to finally get some better audio by 0050. Too weak to get an ID but can hear SS ancr and some rather nice mx being played by this 100 watt micro Peruvian station. Tried for this one a number of times in the past and finally managed some audio. This noise has always been there making it very difficult to hear. Drifted a bit. At 0050 it was at .91 and dropped to .86 by 0053. Best in USB. 8/31 (Montgomery-PA)
- 5770 NICARAGUA *R. Miskit* 0010-0050 very weak but some audio manages to get thru. First time heard in several months. ID tentative. Some rtty interference. Sheryl Crow tune at 0016. Sig dropped a bit 0018; back up 0020 with more US pop tunes. M ancr at 0025 w/brief statement and back to mx. 0026 in SS, then M ancr again, but much better audio. Full ID with notice of FM station at 0029. Station on and off several times during anmts at 0030. Back to mx at 0033. S7 signal level now. Much better reception. Still going after 0045. 9/7 (Montgomery-PA) RC USB 0020-0115* SS pops/ballads; talk by M/W. ID. S/off with NA. Fair 8/17. Not heard in a while; last logged back in Feb. (Alexander-PA)
- 5860 CHINA *Voice of Jinling* 1205 M in Mandarin. Fair signal, USB noisy, better in LSB. 1206 music bridge to same man with talk, 9/7. (Ziolkowski-WI)

Check out the #swl channel on the StarChat IRC network. There are usually several listeners there. Till next time, 73, DanF



International Band Loggings

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

- 5935nf? **LATVIA Radio Festival** in EG 2200*, pop mx, ID by kid, sked, weak (Berg MA 8/25) Suns only?
- 5995 **MALI RTVM Bamako** in FR/VN 2246-0002*, tlks in FR, hilife mx, ID 2359, s/off ancmts, lcl folk mx, s/off with NA, //4835 (D'Angelo PA 8/31, Alexander PA 8/31)
- 59967 **PERU R Melodia** Arequipa in SP 0710-0745+, ancmts, ID's, OA folk mx, SP pops/ballads, weak sig in noise (Alexander PA 8/25)
- 6000 **GREECE R Liberty** relay in RS 0252, tlks, ID "R Svoboda", no sign of Cuba on fgy (Brandi NJ 9/8)
- 6005 **GERMANY Deutschland R Berlin** in GM/EG 0040, country mx, Hank Williams, Lee Greenwood w/"God Bless America", positive ID 0100, into nx, weak sig (Barbour NH 8/22)
- 6020 **AUSTRALIA RA** in VN 0955, pops, tlk re Papua New Guinea, ID, //12080, f (Bueneman MO 8/18)
- 60601nf **COLOMBIA LV de tu Conciencia** in SP 0623, SP ballad, ID, long relig tlks, g (Barbour NH 8/22) in SP 0925, full ID in EG as "Voice of Your Conscience" and "Alcaravan Radio System" all SP after ID, mostly in the clear from 0600-0900, no bcst on Sats, signal faded around 1015 (Berg MA 8/24)
- 6075 **ANTIGUA Deut Welle** relay in GM 0400, mx pgm featuring Richard Wagner, g (Newbury NE)
- 6110 **CANADA R Japan** relay in EG 0552, tlk on the war on terrorism, exc (Bueneman MO 9/11)
- 61378 **SIERRA LEONE R UNAMSIL** Freetown in EG/vern? 0241-0320, varied mx (tribal, rap etc.), brief tlks between sels w/some EG, ID at 0303, p-f (D'Angelo PA 8/22) hrd from 0615-0700, UN pgm on int'l events on same date, rock mx in background, EG pgm preview 0632, f (Berg MA 8/21) hrd from 0645-0720+ w/OM DJ, TC's, US romantic ballads, lcl nx, canned ID's by child, strong sig but muddy modulation, f/o after 0715 (Alexander PA 8/18)
- 6150 **BRAZIL R Record** São Paulo in PT 2307, fast tlking OM w/ancmts, ID mixed w/vcls, f, //9595, vp (D'Angelo PA 8/13)
- 6185 **BULGARIA R Bulgaria** in SP 0557, Asian-style mx, tlk and ID in SP, g-f (Bueneman MO 9/11)
- 6265 **ZAMBIA RZ Lusaka** in Vern/EG *0250, Fish Eagle IS, NA(p), tlk w/children's chorus, EG ID 0258, fqys, ID in Vern, fair with fading (Barbour NH 8/19) hrd 0330-0407, hilife mx, tlks in Vern, male singers w/drum and ID, fair sig with QRN (Beattie CA 8/18)
- 67975v **PERU Ondas del Rio Mayo** in SP 0129, ID's, great Andean mx, ancmts, fair signal to 0157 fade out, (Montgomery PA 9/5)
- 6940 **ETHIOPIA R Fana** Addis Ababa in Amheric *0328, IS, ID, ancmts, nx, p-f, //6210 (D'Angelo 8/28) hrd with S-9 signal and nice mx (Montgomery PA 9/8)
- 69567 **PERU Voz del Campesino** Huarmaca in SP 0247, lots of Ranchero mx, incredible S-9 signal and only slight fades (Montgomery PA 8/31)
- 6973 **ISRAEL Galeh Zahal** Jerusalem in HB/EG 2341, YL ancw w/US pops from the 70's and 80's, ID at 0000, nx in detail, fair w/slight noise and fading (Barbour NH 9/10)
- 7115 **SRI LANKA VOA** relay in EG 0127, "News Now", ID, TC, tlks re Iraq and nuclear weapons, exc signal w/almost no fading at S-9 level (Montgomery PA 8/30)
- 7125 **GUINEA RTV Guineenne** Conakry in FR 0655, local pop mx, IDs, TC, nx, mx (Brandi NJ 9/1) in FR 2339, hilife mx, s/off ancmts 0003, NA (D'Angelo PA 8/31, Alexander PA 8/24)
- 7180 **IRAN VOIRI** Mashhad in AR 0111, ID, long ancmts, some mx in background, chanting, Qu'ran, strong sig w/slight fades, occasional ham QRM (Montgomery PA 8/2)
- 72103 **BENIN R Benin** Cotonou in FR 0550, ads, Afro pop mx, canned ID 0614, tlk pgm (Brandi NJ 9/10) in FR from 2300-0126*, lcl hilife mx and Afro pops, crowd noise, speeches, s/off w/NA, on late since usual s/off is 2300, f-g (Alexander PA 8/24) in FR 2219-2302*, radio drama, ezl mx, credits mention "RTV Cotonou", improving signal to vg by 2237 (Barbour NH)
- 7210 **BELARUS R Minsk** in EG *0200, IS, ID's, sked, QTH, nx, lite mx, p-f (Alexander PA 8/25)
- 7255 **NIGERIA V of Nigeria** in EG 2250, world nx, ID, s/off 2300 w/NA, p-f w/ham QRM, //15120-p (Alexander PA 8/24) in EG *0500, ID, pop mx, "Nigeria Today", VOA QRM (Newbury NE)
- 7255 **MOROCCO Radio Sawa** via VOA relay in EG/AR 0410, tlk, Mideast mx, vocal in EG, YL tlk in AR, tlk in EG w/AR translation, p (Witham HI 8/13)
- 7260 **THAILAND R Thailand** in VT *1059, gongs into opening ID in EG, into VT, f-g (D'Angelo 9/13)

- 7360 CHINA *CRI* Kunming in Thai 1145, OM tlk, Oriental mx, weak sig, //9785 (Ziolkowski WI 8/31)
- 74899 USA *WJIE World Wide Gospel Radio* in EG 1054, relig pgms, ads, ID, QTH (Barbour NH 8/28) in EG 2329-0016, QTH, E mail, fone #, relig feature, mailbag, g-f (D'Angelo PA 9/2)
- 9400 BULGARIA *R Bulgaria* in EG *2300, ID, nx, "Views Behind the News" (Brouillette IL 8/17)
- 9470 CROATIA *Croatian R* in EG/CR 0509, tlks re 9/11 terrorist attacks, f-p (Bueneman MO 9/11)
- 9515 BRAZIL *R Nova de Paz* Curitiba in PT 0115, lite mx, tlk, BR ballads, f, //6080 (Alexander PA 9/2)
- 9520 PHILIPPINES *R Veritas Asia* in CH *1000-1155, ID in slow EG, sked, IS, into CH prgmng, weak but audible w/QRN from nearby channel, s/off 1155 (Montgomery PA 8/13, Brandi NJ 9/1)
- 9530 BRAZIL *R Nova Visão* Santa Maria in PT 2300-0120+, tlk, ID, relig pgming, contemp Christian mx, ment Radio Transmundial, g, //5965 poor (Alexander PA 9/1)
- 9560 CANADA *R Korea Int* relay in EG 0205, nx re possible Korea reunification, ID, tlk re North Korean refugees in China and how CH citizens are offered bounties to identify defectors (Witham HI 8/10)
- 95651 BRAZIL *R Tupi* Curitiba in PT 0000-0030+, relig pgm and mx, //6060, 11765 (Alexander PA 9/2)
- 9570 GERMANY *AWR* relay Juelich in BG 0430, relig choral mx, tlk, ID "V of Hope" (Witham HI 8/13)
- 9610 IRAN *VOIRI* Kamalabad in EG *0030, ID, NA, fqy, sked, Koran readings, g (McGuire MD 8/29)
- 96302 BRAZIL *R Aparecida* in PT 0110-0217*, phone tlks, ID, jingles, relig pgm/mx, relig recitations, abrupt s/off, //50351, 61351 (Alexander PA 9/2)
- 96452 BRAZIL *R Bandeirantes* São Paulo in PT 2335, tlk, ID, ads, jingles, g, //11925 (Alexander PA 9/1)
- 9665 MOLDAVIA *V of Russia* relay in SP/EG 0058, end of SP xmsn, into EG on the hr, IS, ID, NA, fqy, sked, national nx, g (McGuire MD 8/29)
- 9675 BRAZIL *R Cancão Nova* in PT 0000, BR pops/ballads, phone tlk, p, //4825, 6105 (Alexander PA 9/2)
- 9675 PAPUA NEW GUINEA *Karai Nat R* in EG 0958, ID's, nx at toh, relig pgming, ancmts re coming elections, mx, tlk re tall bldgs in Port Moresby, QRM China (Montgomery PA, Brandi NJ both 9/1)
- 97049 MEXICO *RMI* Mexico City in EG 0308, mailbag pgm, pop mx, ID, QTH, back to SP 0335 w/local folk mx, p-f, //117702 weaker (Alexander PA 8/18)
- 9710 MOROCCO *VOA* relay in UK 0440, nx, excerpt G Bush speech, remote rpt, ID, p (Witham HI)
- 9780 IRAN *VOIRI* Sirjan in Armenian 1635, YL tlk, soothing mx, voiceover, bells, p (Witham HI 8/10)
- 9815 GREECE *R Liberty* relay in Tataric/Bashkir 0305, nx, rpts, tlks, p, //11820 also p (Witham HI 8/21)
- 9840 SPAIN *REF* Noblejas in EG 2125, YL tlking about marine biology, ID, f (Wood TN 9/7)
- 9845 NETHERLAND ANTILLES *R Nederlands* relay Bonaire in EG 0016, tlk re Jesuits in 17th century China, rock mx at 0035 (Newbury NE 8/25)
- 9870 AUSTRIA *RAI* Moosbrunn in EG 0130, waltz mx, ID, rpt on flooding in Austria (McGuire MD 8/9)
- 11560 GUAM *KSDA* Agat *AWR* relay in EG/CH 1023, "Voice of Prophecy" and "Between the Lines", *AWR* contact info, ID in EG at toh and into CH xmsn, p-f (Barbour NH 9/5)
- 11570 RUSSIA *IBC TAMIL* relay via Novosibirsk in Tamil/EG *0000, brief mx bridges and tlks at s/on, ID's repeated 3 times, mx, nx, field rpt from Korea, f, QRM chatter at 0013 (Barbour NH 9/3)
- 11620 INDIA *AIR* Bangalore in EG 1050, Hindu mx, nx, ID, p-f (Wood TN 9/7)
- 11645 GERMANY *Bible Voice BC Network* relay Juelich in EG *1953, CIS-style tone runup to 1958, two minutes silence, ID 2000, QTH in UK, E-mail site, into "God Is Just A Prayer Away" and other relig features, g-f (Berg MA 9/1) ED: July LN lists EG pgm 1700-1900 only—apparently expanded since.
- 11675 RUSSIA *V of Russia* via Armavir relay in EG 1910, nx & views, Flag Day, //15735 (Fraser MA 8/22)
- 11715 VATICAN CITY *V of Charity* (Lebanon) relay in AR *0427, Vatican IS, trumpet fanfare, ID in AR, mainly long tlks, one vocal selection, f-g (D'Angelo PA 9/2)
- 11715 INDIA *AIR* Delhi in Nepali 0135, regional mx, tlk, nx?, ID's, p (Witham HI 8/10)
- 11730 CHINA *CRI* Jinhua in EG 1028, pgm re teaching EG in China and various methods for improving student response, features on touring China, f-g w/only slight fades (Montgomery PA 9/4).
- 117341 TANZANIA *RT Zanzibar* in SH 2040, variety of Afro pops, Mideast style mx, short NA before 2100 sign-off, g (Alexander PA 8/31)
- 11765 USA *KNLS* Anchor Point, Alaska in EG 0848, prayer hrd at tune-in, sked, full ID, mail address, web QTH, IS at 0854, S-5 to 6 w/rapid fades (Montgomery PA 9/9)
- 11780 BRAZIL *R Nac da Amazonia* Brasilia in PT 0920, phone-in tlk show, g (Bueneman MO 8/18)
- 11800 ITALY *RAI* Rome in IT 0000, pgm of Italian classical mx, g, //9675 (Fraser MA 8/26)
- 11835 USA *BBC* relay Okeechobee, FL in EG 0035, MSNBC & BBC feature on terrorism (Newbury NE)
- 11880 SEYCHELLES *FBEA* in SH 0352, relig mx/tlk, ID, QTH, IS at 0400 s/off, f (Barbour NH 8/14)
- 11905 THAILAND *RT* Bangkok in EG 0025, Thai vcls, flute mx, some tlk in Thai?, f (D'Angelo PA 8/22)

- 11930 PHILIPPINES VOA relay in EG 0925, ID, pgm of jazz mx, f (Bueneman MO 8/18)
- 11955 ANGOLA R *Nacional* in PT 2213-2315, e2l mx, tlks, phone-in, ID 2300, p, QRM (Barbour NH 8/7)
- 11955 THAILAND BBC relay in EG 0032, ID followed by a pgm about terrorism, p (D'Angelo PA 8/22)
- 11990 KUWAIT R *Kuwait* in EG 2030-2100, ID, pgm of soft rock mx, poor reception (Wood TN 9/7)
- 120199 VIETNAM V of *Vietnam* Hanoi in EG 1230-1257*, nx, cmntry, lcl mx, //9840 (Alexander PA 8/17)
- 12085 MONGOLIA V of *Mongolia* in EG 1018, tlks re Mongolians moving to Russia, unusually good copy, rapid fades but fully audible (Montgomery PA 8/13)
- 13640 CANADA RTE Ireland relay in EG 1850, "Saturday Sports" show, ads, s/off 1900 (Wood TN 8/24)
- 13710 GERMANY IBRA Radio via DTK Nauen in AR 1902, hi-life and tribal mx, tlk, QTH, website, pop mx in FR, abrupt cut off at 1930, g (Barbour NH 8/27)
- 13730 FINLAND YLE in EG 0025, special pgm on EDXC meeting held in Finland, panel discussion on the future of SWBC, g (Brouillette IL 8/18)
- 13750 CUBA RHC Havana in EG 2100, Arnie Curo & DXers Unlimited, QRM, vp (Wood TN 9/7)
- 13820 GERMANY R *Nederlands* relay Juelich in DT 0615, nx, rpts, interview, financial nx, f (Witham 8/14)
- 15084 IRAN VOIRI Kamalabad in FR 1847, monologues by YL & OM, fair with fades (Costello NJ 9/15)
- 15100 PAKISTAN R *Pakistan* in Urdu 1614-1703, tlk and chants (Koran?), ID, web, mx pgm, nx, several mentions of Pakistan and Kashmir, fair w/QRM from WHRI on 15105 (Barbour NH 9/1)
- 15120 NIGERIA V of *Nigeria* in EG 1930, nx, ID, book review, f-g til RHC s/on 1955 (Alexander PA 9/1)
- 151498v INDONESIA V of *Indonesia* Jakarta in EG 2000-2100*, nx, cmntry on human rights violations, ID's, local mx, jungle sounds (Barbour NH 8/27, Alexander PA 8/24)
- 15185 PHILIPPINES VOA relay Tinang in EG 2232, nx features, ID's, p (D'Angelo PA 8/14)
- 15410 ANTIGUA Deut Welle relay in GM 0105, world nx, ID, pgm on nat'l politics, g (McGuire MD 8/24)
- 15420 SEYCHELLES BBC relay in EG *0330, "Network Africa", nx of Africa w/rpt from Cairo, rpt about a trial in Swaziland, on gays/lesbians in Libya, and abt fishing in Madagascar, ID (Witham HI 8/21)
- 15425 SRI LANKA SLBC Colombo in EG *0030, 5+1 pips, ID, ancmts, //9770 (D'Angelo PA 8/14)
- 15435 LIBYA V of *Africa* Sabrata in EG 0015-0350*, ID's, nx in EG 0024, followed by nx in FR, Koran & closing ancmts in AR 0350 s/off, strong sig with slight hum but readable (Alexander PA 8/24)
- 15455 RUSSIA R *Maryja* via Krasnodar in PO 0512, relig hymns, choir, ID's, f (Barbour NH 9/10)
- 15530 GERMANY Radio XORIYO via DTK Juelich in Somali *1630-1702, instrum'l IS s/on, ID, Koran, still going after listed 1700 s/off time, weak sig w/fading and QRN (Barbour NH 8/16)
- 15535 SEYCHELLES V of *Forgiveness* via FEBA in AR *0345, ID, instrml mx, tlks, f-g (D'Angelo 9/4)
- 15545 CZECH REPUBLIC R *Prague* in EG 2235, "Insight Central Europe" feature (Brouillette IL 8/17)
- 15590 USA KTBN Salt Lake City in EG *1500, ID, daily relig pgms, feature on war in Sudan (Face IA)
- 17485 GERMANY Deut Welle Nauen in Urdu 1720, nx, tlk on Afghanistan, ID, 3 mailing addresses, IS, into Dari lang 1730 w/similar prgming, vg (Brouillette IL 8/5)
- 17515 VATICAN STATE VR in EG 1737, nx, ID's, tlk on relig matters in Africa (Brouillette IL 8/5)
- 17535 ISRAEL V of *Israel* Tel Aviv in HB 1226, song "Time to Say Goodbye" by Sarah Brightman, weak w/some fades (Montgomery PA 8/31) in HB 1747, DJ w/local pops, ID, exc (Brouillette IL 8/5)
- 17635 THAILAND BBC relay in EG 0425, interview w/YL refugee from Palestine, OM tlks, website, ID, co-channel QRM, p (Witham HI 8/13) ED: Probably Russia QRM with their erratic skeds.
- 17805 ROMANIARRRnEG1730, ID, "RRIEncyclopedia", "RomanianbyRadio", "YouthForum", f-g (RuggONT9/10)
- 17815 BRAZIL R *Cultura* São Paulo in PT 0205-0300*, romantic BR ballads, lite jazz, ancmts, f, //9615, p w/co-channel QRM (Alexander PA 8/17)
- 17830 TURKEY V of *Turkey* in EG 1245, playing theme for the common man, local nx, nice copy for morn reception on the East coast (Montgomery PA 8/31)
- 17850 FRANCE RFI Issoudon in EG 1615, African nx, current affairs, item about national ballet of Guinea, strong signal (Brouillette IL 8/6)
- 18940 NORWAY R *Afghanistan* relay via Kvitsoy in Dari/Pashto 1331, western-style mx w/voice overs, nx at 1333, cmntry at 1400, call to prayer 1413, good signal but some echo & flutter (Fraser MA 8/26)
- 21455 ECUADOR HCJB Quito in EG 2130, "Truth for Life", g, //17660 (Fraser MA 8/23)
- 21600? UNITED ARAB EMIRATES Radio Dubai in EG 1500-1535, mx pgm slanted toward young adults, featured band was "Black Eyed Peas", listed fqy for this xmsn is 21605 but nothing heard on that fqy, probably relaying domestic FM, ads, ID's as "Dubai FM", f-g (Wood TN 9/7)

Last Minute Flash Sheet Logging

178332nfEL **SALVADOR R Imperial** Sonsonate in SP 2310-0051*, SP ballads for first half-hour including one with definite relig theme, canned ID at 0039 "Sintonicenos en la....Imperial 810 AM, a message for you to follow in your life", signal faded in and out until 0036 but steadied up thereafter, audio also distorted due to QRM from 17835- probably R Canada via Tokyo (Maroti NY 9/17) ED: Only 1.5 kw Thanks to Henrik Klemetz for translation and extracting ID from audio tape.

Clandestine, Tentative, Presumed, or Unknown

- 5925 **CLANDESTINE Falun Dafa R** via Sitkunia, Lithuania in CH 2122-2201*, tlk and mx noted w/ment of "Falun Dafa and Falun Gong" at 2148, ID's?, mild disruption due to CH jammer mx, //9945 from Krasnodar, Russia relay nothing but a mess of jammer QRM (Barbour NH 9/11)
- 7310 **CLANDESTINE Radio Voice of the People** via Madagascar in EG 0334, apparent late s/on the day after station was bombed, group Afro vcls, lively songs, instrum'ls, ID, tlk, f (D'Angelo PA 8/30) in EG 0420, OM answering questions from audience, two ID's, pop mx, s/off 0430 (Witham HI 7/31)
- 9760nf **CLANDESTINE V of Burma** via R Nederland relay Madagascar in Maymo 2331, interview, recorded tlks, contact address "DVB Oslo, Norway", brief mx breaks, f (Barbour NH 8/13)
- 9775 **CLANDESTINE Radio Dat** via Kishinev, Moldovia relay in Kazak? *0101, multiple ID's as part of opening, mentions of Nazarbav and Kazakhstan, mx segments, long political tlks, pgm ran for 30 minutes and was repeated during one hr xmsn, good sig on weekend when VOA not on, signal fade during final 10 min (Berg MA 8/18, D'Angelo PA 9/1, Barbour NH 8/28) ED: R Dat is an anti-govt station also scheduled from 1500-1600. Dat means "I demand a word". Xmtr is a 500 kw job.
- 9945 **CLANDESTINE Fang Guang Ming Radio** via Krasnodar, Russia relay in CH *2103, jamming mx from China? S/on 5 minutes before xmsn, three ID's at s/on, pgm of tlks & mx bks, p (Barbour 8/27)
- 9950 **CLANDESTINE Sout Al Watan** via Samara, Russia(p) relay in AR *0328, one and a half hour xmsn directed to Syria, Mid-East instrum'ls, opening ID 0330, political tlks, few vocals, weak signal plus QRM splatter (D'Angelo PA 9/1, Barbour NH 8/28, Berg MA 8/18)
- 11570 **CLANDESTINE IBC Tamil** relay via Novosibirsk, Russia in Tamil 2352, test tones at tune-in until 0000 s/on, mx bridges, brief tlks, 3 ID's, nx, field rpt, fair w/some QRM chatter (Barbour NH 9/3)
- 11820 **UNITED KINGDOM Radio Sawa** relay via Wooferton in AR 0739, pop mx (Arabic and Western), slickly produced ID 0742 (Brandt NJ 9/2) ED: Apparently R Sawa is the the VOA's pgm intended for Arabs 30 and under.
- 12140 **UNIDENTIFIED R SERA** in lang? 1755, OM tlk, ment Kabul, Mohammed, G. Bush, Iraq, Kissinger, Washington, and Saddam, s/off 1830, exc (Witham HI 8/17) ED: Only xmsn listed at this time on this fqy is VOA relay from Sri Lanka in Farsi from 1700-1800.
- 13590 **GERMANY(p) IBRA Radio** via Wertachtel(p) in Farsi? 1655, OM tlk, mideast mx, ment Pakistan, QTH, f (Witham HI 8/10)
- 15435 **LIBYA(p) V of Africa(p)** in AR? 1850, highly echoed signal w/hum almost as loud as the voice and mx, alternating tlks by YL and OM's w/occasional mx backgrounds, male vocal (Costello NJ 9/15)
- 15530 **CLANDESTINE V of Ethiopian Salvation** via DTK Juelich in Amheric *1600, IS w/flutes, 3 ID's, upbeat mx w/Ethiopia sung several times, ment Eritrea, tribal mx, g-f (Barbour NH 8/25)
- 15530 **CLANDESTINE Tigrean International Solidarity for Justice and Democracy** via DTK, Juelich in Tigrean *1600, IS featuring wind instrum'ts, ID's, upbeat tribal mx, cmntry, f (Barbour NH 8/11)
- 17525nf **CLANDESTINE R Sedaye Iran** via CIS? relay in Farsi? 1728, references to 9/11, choral mx, ID at 1731, EG inserts of GW Bush w/translation, very weak w/total f/o (Barbour NH 9/11) ED: I wonder if this report indicates an additional fqy to the one listed at 17510—Sedaye relay via France?
- 17560 **AUSTRALIA(p) Christian Voice** via Darwin(p) in CH 1645, relig tlk by OM, choral & orchestral mx, Abrupt sign off at 1751, heard under co-channel BSKSA, p (Witham HI 8/3) 

Notice: Please remember that the "official" mailing date for the Journal is the Friday after the last Saturday of the previous month. If this date is, say, the fourth, it does little good to send me a note postmarked the third to say you haven't received your copy yet.

Quality Equipment From Universal Radio



PASSPORT TO WORLD BAND RADIO 2003 Edition

By Larry Magne. A must have book for every worldband listener. Here is everything you need to know about when and where to hear the world; hour by hour, country by country and frequency by frequency. Also includes candid, hard hitting reviews on worldband radios including portables and tabletop models. An expanded station address section is also featured. **Passport** is the world's number one selling shortwave guide. An indispensable reference with 592 pages!

Brand new 2003 Edition

Order #1000 \$9.95 \$15.90

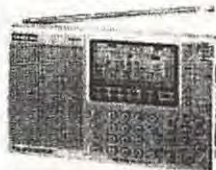
Save over \$4!

SANGEAN

ATS-909

FREE BONUS OFFER

FREE with your ATS-909
 ♦ Sangean SR-25V a \$24.95 value.



Universal will include a FREE Sangean SR-25V AM/FM/TV audio portable radio. This amazing pocket size radio, with built in speaker is a \$24.95 value! Requires two AA cells not supplied.

The ATS-909 is the flagship of the Sangean line and provides top performance in a compact and stylish package. Coverage includes all long wave, AM and shortwave frequencies. FM stereo to the headphone jack is also featured. Shortwave performance is enhanced with a wide-narrow bandwidth switch and excellent single side band performance. Five tuning methods are featured: direct keypad entry, auto scan, manual up-down tuning, memory recall or manual knob tuning. The alphanumeric memory system lets you store 307 presets. The 3-event clock-timer displays even when the radio is tuning and has 42 world city zones stored. The large LCD display also features a signal strength and battery bar graph. Other features include: Record Out Jack and Tone Control. 8 1/2" x 5 1/2" x 1 1/2". 2 Lbs. Requires four AA cells (not supplied). Your ATS-909 includes: an AC adapter, carry case, ANT-60 roll-up antenna and a wave guide. All Sangean worldband radios have a one year limited warranty. List \$389.95 Order #1909 Sale \$239.95

SANGEAN

ATS-606AP

The Sangean ATS-606AP covers 153 - 29995 kHz plus FM stereo. It has digital readout, 1 kHz SW tuning, 54 memories & keypad entry. With Auto Tune Scan all memories are preset in order of station signal strength on FM, AM and long wave. A dual digital clock-timer alarm shows local and UTC. With dial light, DX and lock switch. Although this radio does not do single side band, it is an excellent choice for shortwave broadcast listening. Requires three AA cells. With: case, earbuds and multilingual owner's manual. This enhanced "AP" version also includes the Sangean ANT-60 wind-up antenna and multi-voltage 110-230 VAC adapter. A very compact 5 1/4" x 3 1/2" x 1 1/4" 1 lb. (146x90x32 mm 450 g). Regularly \$119.95. List \$269.00 Order #3319 Sale \$99.99



www.RFFun.com

www.universal-radio.com

Universal Radio, Inc.
 6830 Americana Pkwy.
 Reynoldsburg, OH 43068
 800 431-3939 Orders & Prices
 614 866-4267 Information
 614 866-2339 FAX
 dx@universal-radio.com
www.universal-radio.com

universal radio inc.

Quality Communications
 Equipment Since 1942

Prices and specs are subject to change. Prices shown are after mfg's coupons. Returns are subject to a 15% restock fee.

ICOM R75

The ICOM R75 may be the best value today in a communications receiver. Some innovative features of the R75 include: Synchronous AM Detection, FM Mode Detection, Twin Passband Tuning, Two Level Preamp, 99 Alphanumeric Memories, Noise Blanker, Selectable AGC (FAST/SLOW/OFF), Clock-Timer, Squelch, Lock, Attenuator and backlit LCD display. Record output and record activation jacks are on the back panel.

FREE BONUS OFFER

FREE with your new ICOM R75A
 ♦ UT-106 DSP Option with Auto Notch, and Noise Reduction. A \$139.95 value.



Order #0175

\$599.95

TEN-TEC RX-350

The Ten-Tec RX-350 provides cleaner signal readability, more bandwidths, spectrum sweep and a host of professional features all at a non-professional price! Eliminate heterodynes, limit spurious broadband noise instantly and choose from a wide array of 34 DSP filter choices to suppress undesired adjacent interference. IF-DSP also allows Flash ROM updating of your receiver with the latest features and functions right from the Ten-Tec website for free! The RX-350 features a large multifunction LCD graphics panel for display of all receiver functions. Momentary Sweep function shows band activity in 8 selectable coverage rates. Find the signals without even being on frequency! With 1024 alphanumeric memories. Visit our website for the full story. Order #0350 \$499.00 \$1099.00 after rebate.

\$100 REBATE OFFER

Ten-Tec is offering a \$100 rebate on the purchase of RX-350 valid 12/15/02. Please allow 6 weeks for rebate check.



GRUNDIG YB-400PE

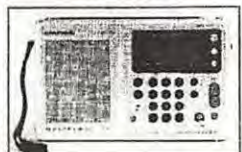


The critics love the YB-400 Professional Edition! **Passport to World Band Radio** says the YB-400PE is "... the best compact shortwave portable we have tested."

Coverage is complete including all long wave, AM and shortwave frequencies. FM stereo is provided to the headphone jack. A thumb wheel knob on the side of the radio provides smooth single sideband (SSB) tuning. The illuminated digital display provides tuning resolution at 1 or 5 kHz on shortwave. Two bandwidths are featured. The narrow position affords maximum selectivity, or the wide position may be chosen for best audio fidelity. Other refinements include: keypad entry, scan search, 40 memories, dual digital clock, snooze and sleep buttons, lock, HI/LOW tone switch, LOCAL/DX switch, and 9/10 kHz MW step. External jacks are provided to earphone, antenna and 9 VDC input. The YB-400PE comes with: AC adapter, stereo ear plugs, wind-up antenna, Manual and vinyl carry case. Requires six AA cells (not supplied). Titanium colored finish. 8"Wx5"Hx1.5"D. 1 Lb. 5 oz. Free stand and other offers in this ad expire 12/15/02. List \$199.95 Order #0400 \$149.95

FREE BONUS OFFER

FREE with your new YB-400PE
 ♦ Lucite Radio Stand holds your radio at the perfect angle. A \$7.95 value.



Order #0400

\$149.95



The Universal Radio Catalog covers everything for the shortwave, amateur and scanner enthusiasts. With informative photos and full descriptions. **Free on request!**

1 800 431-3939

www.universal-radio.com

U.S.A. orders under \$100 ship for \$4.95. Under \$500 ship for \$9.95. Except Alaska, Hawaii and Puerto Rico.

Company Store

Bill Bergadano KA2EMZ • 32 Joysan Terrace • Freehold, NJ 07728 • ka2emz@cybercomm.net

All s/h charges for the following items are included unless otherwise noted.

Publications

Shortwave Listening Guidebook by Harry Helms. Covers equipment, antennas, propagation, station profiles, utilities, clandestines, QSLing, etc. 315 pages.	\$18.50 +2.00 s/h US/CA +3.00 s/h world
Underground Frequency Guide by Donald W. Schimmel. An in-depth look at illegal radio communications; pirate, spies and so much more! Lists hundreds of frequencies. A book no pirate or clanny fan should be without!	\$17.50 +2.00 s/h NAM +3.00 s/h world
Joe Carr's Loop Antenna Handbook Comprehensive but readable guide to understanding and building loops for LW, MW, SW and VHF. Non-technical, has many diagrams.	\$16.50 +1.25 s/h US/CA +2.00 s/h world
The Vacuum Tube Era Reviews the golden years of vacuum tube receivers, 1932-1981. If you feel real radios glow in the dark, this is for you! 141 pages.	\$15.00 +1.50 s/h worldwide
Shortwave Receivers, Past & Present by Fred Osterman. A comprehensive guide to over 770 shortwave, amateur and commercial communications receivers produced in the last 55 years! Over 800 photos. 473 pages.	\$21.00 +2.00 s/h US/CA +3.50 s/h world
Confidential Frequency List This book, which details frequencies, callsigns and data for the non-broadcast stations on 2-30 MHz, has just been released (12th edition). Ships December 15th.	\$24.50 +4.00 s/h NAM +8.00 world
Inside the Mission Control Center by R.H. Nicholson. This is your personal tour of the former mission control center at the Johnson Space Center! A great book for the space or radio communications enthusiast!	\$7.00 +1.50 s/h NAM +2.00 world
NASWA Country List and Awards Program Booklet	\$3.00 PP US/CA \$5.50 elsewhere
QSL Signers by Al Quaglieri. The most comprehensive and up-to-date list of verification signers names, titles, and addresses available anywhere!	\$2.50 PP US/CA \$4.50 elsewhere

The NASWA Reprint List, The System, Spectrum Log and Propagation Predictor are no longer available.

Make checks payable in U.S. funds to "The NASWA Company Store."



North American Shortwave Association
45 Wildflower Road
Levittown, Pennsylvania, 19057

First Class Mail
U.S. Postage
PAID
Levittown, PA
Permit No. 319

FIRST CLASS MAIL



ISSN 0160-1989

The Journal of the
North American Shortwave Association

Executive Director: Richard A. D'Angelo, 2216
Burkey Dr., Wyomissing, PA 19610

Publisher/Business Manager: Bill Oliver, 45
Wildflower Road, Levittown, PA 19057

Executive Council: Jerry Berg, Ralph Brandi,
Bob Brown, Dr. Harold Cones, Rich D'Angelo,
Fred Kohlbrenner, Bill Oliver

EDITORIAL STAFF

Managing Editor: Dr. Harold Cones, 2 Whits
Court, Newport News, VA 23606

Desktop Publishing/Graphics: Ralph Brandi,
P.O. Box 491, Lincroft, NJ 07738

Easy Listening: Richard Cuff, 42 North 37th
Street, Allentown, PA 18104

Shortwave Center: Jerry Lineback, 506 S.
Lawrence Ave., Scranton, KS 66537

Technical Topics: Joe Buch, N2JB, P.O. Box
1552, Ocean View, DE 19970-1552

Equipment Reviews: Alan Johnson, N4LUS
2490 Sharon Way, Reno, NV 89509

Adrian Peterson's Diary: Dr. Adrian M.
Peterson, Box 29235, Indianapolis, IN 46229

NASWA Awards: Gary R. Neal, 7410 Orchard
Hills Lane, Sugar Land, TX 77479-6122

Listener's Notebook: Al Quaglieri, P.O. Box
888, Albany, NY 12201-0888

Pirate Radio Report: Chris Lobdell, P.O. Box
146, Stoneham, MA 02180-0146

QSL Report: Sam Barto, 47 Prospect Place,
Bristol, CT 06010

Scoreboard: Fred S. Kohlbrenner, 214 West
Marshall Road, Lansdowne, PA 19050

Net Notes: Tom Sundstrom, W2XQ P.O. Box
2275, Vincentown, NJ 08088-2275

Distributing Editor: Bob Montgomery, P.O. Box
1458, Levittown, PA 19058

Tropical Band Loggings: Dan Ferguson, 12053
Kahns Road, Manassas, VA 20112

International Band Loggings: Wallace C.
Trelbel, 357 N.E. 149th St., Shoreline, WA 98155

English Schedules: Mark J. Fine, 11252
Cardinal Drive, Remington, VA 22724-2032

The Company Store: Bill Bergadano KA2EMZ,
32 Joysan Terrace, Freehold, NJ 07728

MEMBERSHIP FEES:

United States (First Class Mail) \$26.00

Canada & Mexico (First Class Mail) \$27.00

Overseas (ISAL Mail):

Central & South America and Europe \$30.00

Asia, Africa and Pacific \$32.00

Overseas (Air Mail):

Central & South America and Europe \$36.00

Asia, Africa and Pacific \$42.00

All remittances must be in U.S. funds and mailed to:

NASWA
45 Wildflower Road
Levittown, PA 19057
U.S.A.

NASWA <http://www.anarc.org/naswa/>

