

The **NASWA** Journal

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THE GLOBE CIRCLER

JUNE, 1939

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NO. 6

INTERNATIONAL

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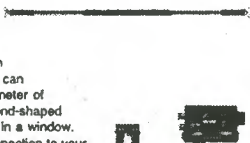
Computer based receivers have traditionally been about compromise, especially on shortwave. The Ten-Tec RX-320 broke that mold, providing exceptional HF performance. It employed true digital signal processing technology at the IF level to reduce the number of individual electronic components but yet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

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The AOR WL500 acts like a signal magnet capturing and amplifying shortwave transmissions in the 3.5 to 30 MHz range. If you add the optional 500LM bar element, you can extend reception to include long wave and medium wave. Up to 16dB of gain (with an IP² of +14.5 dBm) can be realized. With a diameter of about 2 feet, the diamond-shaped antenna can hang freely in a window. Assembly is simple. Connection to your receiver, via the metal control box, is achieved through a standard BNC connector (a BNC to BNC coaxial jumper cable is included). Disassembly is also easy, so this antenna is ready to travel wherever you go. The WL500 requires a 12 VDC 150 ma power supply (optional) or 9 volt battery.



WL500 Order #0238 \$198.95

500LM L w/ant Order #0796 \$74.95

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NASWA Notes

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

Electronic DX Press Communications has just published the 2003 edition (Volume 6) of the *Australasian Shortwave Digest (ASWD)*. It is available only in 36 pages; hard-copy format professionally printed and saddle stitched A5 size. The *ASWD* contains nearly 40 articles of topical and lasting interest, in these categories: Propagation and Monitoring, World Broadcasting, Digital Transmission, Frequency Allocations and Coordination, Broadcasting Developments in Australia, Technical Topics—Antennas, and DXing Ethics. The *ASWD* is available to anyone, anywhere in the world for delivery in Australia: A\$10, for airmail delivery outside of Australia: A\$15, US\$10, 10 Euro, NZ\$10, 5 British Pounds, or 8 International Reply Coupons. Payment should be by check (Australian dollars and payable at Australian banks), cash (Australian dollars, US dollars, Euros, British pounds, NZ dollars), money order, or international bank draft. Payment may also be made via Credit Card, using the PayPal service (if using this method, please nominate this E-mail address: bobpadula@bigpond.com). Orders should be sent to **Bob Padula**, 404 Mont Albert Road, Mont Albert, Victoria 3127, Australia. There will be only one printing of this year's Digest, so EDXP advises prompt orders to avoid missing out. I highly recommend ordering a copy of this feature rich publication. Previous editions were complete sell-outs, so hurry!

Ed Mauger and **Dan Cashin** report a good turn out at the Valley Forge Hamfest and Computer Fair that was held at the Fire Company Fairgrounds in Kimberton, PA (Route 113—South of the Intersection with Route 23) on July 13, 2003. It's too early to ascertain overall success because it takes time for samples to be converted into memberships. Nevertheless, Ed and Dan report brisk business at the NASWA table. Nice going

guys and thanks for taking the time to represent the club at this forum.

The 10th annual Madison Get-together for DXers and Radio Enthusiasts hosted by **Bill and Nina Dvorak** was held on Saturday, August 16. The all-band event drew 29 DXers, including a brief visit by yours truly while "passing through." The Madison gathering has become the biggest and best in the Midwest area. I may have had the honor of being the furthest to attend although there were two guys from Ohio noted among the crowd. Next year's event is scheduled to be hosted by **Tim Noonan** in Milwaukee next August. It's never too early to begin planning to attend.

The club's formal electronic reply comments filing to the Federal Communications Commission (FCC) Notice of Investigation Docket 03-104 was made on 20 August 2003. An extension was requested by Southern Company and granted by the FCC on 1 August. The club's initial filing was one of thousands of such filings made with the FCC. *Technical Topics* Editor **Joe Buch** spearheaded the club's reply comments with assistance from his team which consists of **Rich Cuff**, **John Figliozzi** and **Alan Johnson**. Once again, a big thank you is in order for Joe and the rest of his team for capably representing the shortwave listener and radio hobbyist in this matter. Remember, the best way to stay current in this matter is to read Joe's *Technical Topics* column each month. Another great job gang!

It looks like the Radio Professors are at it again. **Harold Cones** and **John Bryant**, along with **Martin Blankenship** have just completed two more Zenith related books that should be available by the time you read this. *Zenith Radio, The Glory Years, 1936-1945*, *History and Color Portraits* is the

OUR MOTTO IS - "UNITY AND FRIENDSHIP"

second in the series on Zenith Corporate history. *The Glory Years* carries the company through a period of trend setting product development and highlights Zenith's contribution to the war effort. There are over 350 illustrations featuring 180 color portraits of pristine Zenith radios and products. *Zenith Radio, The Glory Years, 1936-1945, Illustrated Catalog, Annual Notes and Database* is the most complete compendium ever produced of specific information dealing with Zenith radio models between 1936-1945. These books should appeal to radio hobbyists, historians and radio scholars. I would expect them to be available through Universal Radio. I'll pass along further details, and maybe even have a review in a future *Journal*, as they become available.

Last month, **Jerry Linebach** didn't have enough material to prepare a *Shortwave Center* column. This is the first time in recent years I recall such an occurrence. This is due to lack of input from the membership. The entire *Journal* is a product of member's contributions. We all need your support to make NASWA an exciting club and the *Journal* a vibrant read each and every month. Member contributions are vital to all our interests. A *Journal* without interesting articles and features would not be in the grand NASWA tradition. Please, do your part to make the *Journal* useful to all. Please contribute... articles for the *Shortwave Center*, loggings, QSL news, schedules, programming insights, etc. Thanks!


With the new DX season here, I suggest picking up a copy of the electronic copy of the *Domestic Broadcasting Survey 5 (DBS-5)* edited by well-known DXer **Anker Petersen** and recently published by the Danish Shortwave Club International (DSWCI). It is available only by e-mail in PDF-format. The latest offering of the *DBS* is highly accurate and has proved to be a valuable resource while DXing. See June's *Shortwave Center* for a comprehensive review of the excellent *DBS-5* Copies

can be obtained for US\$5.00, Euro 5 or 7 International Reply Coupons from DSWCI, c/o Bent Nielsen, Egekrogen 14, DK 3500 Vaerloese, Denmark.

As we start the new DX season, the club's electronic *Flashsheet* is a great way to stay on top of the DX situation. You can participate by sending your latest logs to the electronic *Flashsheet* edited by **Sheryl Paszkiewicz**, spasz@dataplusnet.com or P.O. Box 716 Manitowoc, WI 54221-0152. Each week the electronic *Flashsheet* brings a lot of exciting DX to members. Our electronic newsletter is an excellent supplement to the monthly *Journal* for the timely dissemination of DX loggings and breaking news. This is a service that is only available to members. Deadlines are posted in the *NASWA Flashsheet* each week. If you are a current member of the club and want to receive the electronic *NASWA Flashsheet* just drop Rich D'Angelo (rdangelo3@aol.com) a note with your e-mail address, location and membership expiration date from your mailing label.

Speaking of the electronic *Flashsheet*, I have a wayward *Flashsheet* recipient that I need help in tracking down. Hugh O. Griffin, Jr. please contact me as soon as possible. Your electronic *Flashsheet* e-mail address for the distribution list no longer works.

Remember to please direct all communications about subscriptions, bulletin delivery issues, the use of PayPal as a payment method, etc. to **Bill Oliver** at the club's Levittown address or to his electronic address, weoliver@comcast.net. The regular postal address is the familiar 45 Wildflower Road, Levittown, PA 19057. Inquires sent directly to me in Wyomissing only slow down the process. Thanks!

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

NASWA

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

Calendar Of Events

- Sep 19 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: dcscckp@aol.com.
- Sep 19 Meeting. Boston Area NASWA Chapter.** The Boston Area DXers have found a new location for meetings. Inquiries about the BADXers may be sent to Paul Graveline at 978-470-1971 or Internet: ctreditor@aol.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>
- Sep 19-21, 2003 Convention. The Ontario DX Association** will hold **RadioFest 2003** on 19-21 September 2003 at the Monte Carlo Inn, 374 South Service Rd. E., Oakville, Ontario, Canada L6J 2X6 (Tel: (905) 849-9500, Fax: (905) 849-6405, E-mail: reservation@montecarloinns.com and Web Site: <http://www.montecarloinns.com/oak.htm>). For more information, contact Harold Sellers at 905-853-3518/email: listeningin@rogers.com or Brian Smith at am740@rogers.com or by mail at: Ontario DX Association, Box 161, Willowdale Stn. A, Toronto, Ontario, Canada M2N 5S8
- Sep 2003 Contest. 2003 Adventist World Radio "Wavescan" DX contest** is scheduled to run during the month of September. Listeners will be asked to submit a list of unique QSLs (QSLs that you own that you consider no one else in the world has). Once in a lifetime frequency usage, emergency broadcasts, emergency transmitters, transmitter on wrong frequency, mistaken frequency entry, harmonic radiations, etc, etc? Full details to follow later in 2003.
- Oct 11 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX)** meets at the Lebanon Citizens' National Bank (LCNB), 425 West Central Avenue (Ohio 73), Springboro, Ohio at 7:00 PM. For more information contact Mark Meece at 937-743-8089 or e-mail at radiuscan@siscom.net. For additional information about MONIX, check out their web site at <http://www.siscom.net/~mmeece/monix.html>
- Mar 12-13, 2004 Convention. The 17th Annual Winter SWL Festival**, sponsored by NASWA, will be held at the *Best Western—The Inn at Towamencin* (Kulpsville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 12th and 13th March 2004. Richard Cuff and John Figliozzi co-chair the organizational committee. It's never too early to begin planning. See you there!
- Jun 4-6, 2004 AGM and DX Camp.** The Danish Shortwave Club International will hold its **Annual General Meeting (AGM) and DX Camp** at Vejers Brach on 4-6 June 2004. Further details will follow.
- Aug 2004 Get-together.** The 11th annual **Madison Get-together for DXers and Radio Enthusiasts** will be held on a Saturday in August 2004 beginning at 1:00 PM CDT in Milwaukee, WI. This is an all-band event. Further information will be provided as we get closer to the event.
- 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).

Contribute!

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

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.

Paul Brouillette, 611 Illinois Street, Geneva, IL 60134

I want to compliment you and Joe Buch and the rest of the group on the excellent work you all did on the Powerline Communications issue. I read the NASWA comments on-line at the local library and was very impressed with the form and content, and its thoroughness.

An unprecedented number and frequency of local thunderstorms has put a damper on my listening the past few weeks. Not only is it noisy, it's also too dangerous.

Best wishes, Paul

George Zeller, 3492 West 123rd Street, Cleveland, OH 44111

It took me quite a while to figure out what appears to be going on down in Costa Rica. Between listening too much to RFPI for days on end and reading the *Tico Times* and other sources, it still remains somewhat baffling. But, I think that I can move into the editorial opinion mode sufficiently so that I can respond to John's posting here. For some of what I think is happening I rely on my experience as a former college professor at 3 different universities, as well as my observations of other universities from the outside.

It seems clear that when the University for Peace changed its chief administrators recently, it did not take long for an internal fight to break out at the University between its administrators and RFPI. The University spent a bunch of money in the capital budget to install various infrastructure around the campus, including internet connections and related expenses. They sent RFPI a bill for these expenses, which RFPI did not pay. Negotiations between RFPI and the University administrators did not go well. Then, one day about a week ago the administrators sent the campus police (apparently well armed in a place like Costa Rica) over to the station and they padlocked the entrance to the station parking lot with chains and locks. The university has served RFPI with an eviction notice. RFPI decided to fight rather than negotiate, and the daily broadcasts since then are a result of this.

Most of what we are hearing on RFPI's SWBC shows is highly puzzling, since its production goal seems exclusively to broadcast the station's position in the dispute with the University, even though almost no listeners have any idea that there is an internal fight at the university, or what the basis of this fight is. As journalists in this particular news story, I give the lowest possible grade to RFPI's reporters. They have never even broadcast one sentence of the university administrators' version of the story. In fact, they don't make it clear that this is an internal budget argument at the college, even though that appears to be the entire basis for the dispute. So, RFPI gets black marks for completely missing a big SWBC news story in which they are one of the main participants.

But, the University does not come out of this looking very good either. The *Tico Times* said that the college administrators were refusing to speak to the press at all, referring all inquiries to their lawyer. (Those of you who live in cities will recognize this tactic, which

frequently is used by politicians who are guilty of something before they are hauled off to the slammer). The University's lawyer has a very poor sense of press relations. He claimed to the *Tico Times* that he had been trying for weeks to call RFPI to negotiate the dispute, but that he could not find out what their phone number was. The *Tico Times* says that the RFPI phone number is listed in the San Jose phone book, and is also posted on the RFPI web site.

RFPI claims to be on international UN territory, and thus claims to be exempt from the Costa Rican government's control of radio frequencies. The university administrators are attacking them for being unlicensed, and claim that their efforts to force RFPI to acquire a Costa Rican broadcasting license are a part of the unresolved dispute. I personally think that this is pretty much a red herring that has little or nothing to do with the dispute.

RFPI claims repeatedly that the university administration has no authority to evict RFPI from their studios and transmitters, since RFPI claims to have completely financed the construction of these facilities with listener donations, apparently with no portion financed through the university. However, the *Tico Times* say that the university owns the real estate on which the facilities exist. I am not a lawyer, and I know nothing about Costa Rican real estate law, so this probably is a matter for local litigation. I don't know anything about Costa Rican law on nonprofit groups like RFPI and the University, but I assume that here is another issue for local litigation. This explains why RFPI is asking for donations to their "Legal Defense Fund."

It is not at all uncommon for arguments like this to take place within universities, although it is somewhat unusual that this one has spilled out into the domain of the public press so openly. In the United States, things like this normally generate prominent press coverage only when the issues involve sports teams, such as the time recently when the scandals on the University of Georgia's basketball team caused the coach to quit and the team to withdraw from the NCAA basketball tournament.

There are undoubtedly personality issues involved in the internal dispute at the university. In my experience, this is always the case. But, I have found out nothing about such things in the RFPI incident. We don't know the people anyway, so such details would not mean much to us, although I bet that they mean a great deal down in Costa Rica.

The general manager of RFPI appears to have handled the situation poorly. He has not negotiated well with the college. He is not doing a good job of having his station cover the dispute as a news story.

The former President of Costa Rica is now on the University Board of Trustees. He has been trashing the actions of the University administration in the *Tico Times*, so there is at least some dissent on the Board. I'll bet that the next Board of Trustees meeting at the University will be very interesting.

I can't see much evidence that this is an issue of local Costa Rican politics, or as RFPI is claiming, that this is an issue of free speech rights. I could be wrong about the politics, but it looks pretty certain that the university is not picking on RFPI in censorship of the shows that they run. The whole thing appears to be an internal budget argument within the university. Neither side is acting with much distinction in the dispute.

RFPI's format has become almost exclusively a crude imitation of fundraisers on local public radio stations in the United States. In a sense, they are copying the format used by the many right wing religious preachers and commentators that they frequently have criticized in the past on the RFPI shows. I think that this is ironic, but I don't think that RFPI will have a sense of humor about this one.

I don't think that any of us have to apologize for spending so much time on this one, which is not exactly a hard core DX issue. But, except for the demise of the BBC, I think that this has been one of the most interesting programming developments on any SWBC station in the world since the fall of the Soviet Union. I say that despite the fact that if RFPI went off the air, I would miss it a lot less than I miss something like Swiss Radio International. I guess the resurrection of AFRTS might be up at the same level of importance from a programming and DX standpoint.

I can't say that I want to defend RFPI in this, since their journalistic shortcomings have been huge. But, I can't defend the University administration, either. They are flubbing the situation fairly flagrantly. The *Tico Times* says that the UN has been criticizing the university for having allegedly substandard academic programming. So, as I see it, we have a lot of losers on both sides of this particular dispute.

George

Richard A. D'Angelo rdangelo3@aol.com, 2216 Burkey Drive, Wyomissing, PA 10610

Ran into Bob Montgomery online one evening while DXing on a Friday night. It was a motivating and somewhat productive DX session reminding me of our French Creek DXpeditions. It was interesting exchanging information on a real time basis while tuning the dials. Come to think of it, a French Creek DXpedition should be coming up soon.

I had a nice time stopping by at the Madison gathering in August. There is nothing better than getting together with other DXers for in person meetings to discuss the hobby in a relaxed, informal environment. If you have the opportunity, please take advantage of it. Meeting like-minded folks adds another dimension to our wonderful, but all too often isolated, hobby. Next year the group will meet in Milwaukee for the first time and it will be Tim Noonan's turn to play host. Time to make some preliminary plans to attend!

73, Rich

FRENDX: Twenty Five Years Ago (September 1978)

Roll Call featured 60 new members. Bill Oliver noted that seventeen were students and there was a big cross section of occupations. Among the many occupations were a corrections officer, a tax investigator, an education consultant, an architectural draftsman, an electronics technician, a farmer, a member of the US Navy, a computer programmer. An accountant, a surgical technician, and a judge. Ages ranged from 13 to 60 years of age. The Shortwave Center featured a comprehensive report by Dan Robinson about ANARC 1978 in Montreal. Also a special feature authored by Jerry Berg, Kent Corson, Dan Ferguson and Don Jensen, "Guideline for DXing," appeared as well as Pitt McNeil's thought on verifications policies and Robert Fraser's history article about "Radio in 1907." Myron Smith's Scoreboard column featured 193 members with 24 reporting 200 countries heard and 8 reporting 200 countries verified. In the QSL Report, Sam Barto noted 80 were confirmed to attend the New England outing in September. Also, 110 countries were reported verifying in the column.

Shortwave Center

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Voice of America, A History

By Alan L. Heil, Jr.

Published by Columbia University Press

ISBN: 0-231-12674-3

540 Pages

Reviewed by Richard A. D'Angelo

This book is impressive! Based on preliminary information and the official press release describing the *Voice of America, A History*, I immediately recognized that this is a very comprehensive work would quickly become a "must read" for any/all shortwave radio listeners and historians. Once I obtained a copy, it was apparent that *Voice of America, A History* by Alan L. Heil, Jr. lived up to the early excitement. For avid fans of international shortwave broadcasting, radio historians, political junkies and Voice of America aficionados, the *Voice of America, A History* is required reading.

As a first job, Alan L. Heil, Jr. was employed as a journalist for the Newark Evening News in New Jersey in the mid-1950's. The author worked for the Voice of America ("VOA" or "the Voice") from 1962 until he retired in 1998 where he was able to observe the VOA closely. He held various positions at the Voice, including foreign correspondent, chief of News and Current Affairs, and deputy director of programs. Also, Heil has testify before Congress on issues pertaining to the VOA. His remarkable career puts him in a very unique position to chronicle the Voice's remarkable transformation from a fledgling shortwave propaganda organ during World War II to a global multimedia giant encompassing radio, the Internet, and 1,500 affiliated radio and television stations across the globe.

The Voice of America is the United States largest publicly funded broadcasting network, reaching more than 90 million people worldwide in over fifty languages. In attempting to be a first class news organization, the Voice faced obstacles unique to an organization that stands, as former director John Chancellor once observed, "at the crossroads of journalism and diplomacy." It was for this reason that many people perceived the Voice as an instrument of American propaganda. However, as a thirty-six year veteran of VOA and its numerous policy wars, Heil firmly believes that the Voice has always sought to deliver accurate, objective, and comprehensive news of the highest journalistic standard, news that reflected America's diversity and vitality, and that presents not only U.S. policies but also critical debate about those policies. The book recounts numerous stories of the VOA trying "to get it right" under the watchful eyes of career and political diplomats and the United States Information Agency trying to help shape the news.

Using transcripts of radio broadcasts and numerous personal anecdotes, Heil provides a front-row seat to the greatest events of the past sixty years, from the Cold War and Vietnam to Watergate and the Lewinsky scandals, from Neil Armstrong's first steps on the moon to ethnic strife in the Balkans and Rwanda, and from the outbreak of HIV/AIDS to the terrorist attacks on September, 11, 2001. Also, Heil relates the story of a perennially underfunded organization struggling against the political pressures, congressional investigations, massive reorganizations, and leadership purges that have attempted to shape and control VOA programming.

The book captures the spirit of the Voice of America and its dedicated journalists, engineers and staff over more than 60 years. Blending perspectives of scores of professional international broadcasters and the loyal listeners, the book takes us through the good and bad years at the VOA since it's founding in 1942, some seventy-nine days after the attack on Pearl Harbor. The Voice of America is often perceived as America's official international broadcasting organization but, as the author notes, it is also America's town crier to the world. The book tells the story of America's Voice as seen through the eyes of the author. It explores the creation of the VOA Charter, which helped establish editorial independence although there have been significant battles over the years to maintain that independence.

Heil approaches his subject by examining the many facets of the Voice's history, focusing primarily on events that spanned the period from the 1960s forward. He begins by examining how the VOA witnessed and covered the dramatic developments in China in 1989 surrounding Tiananmen Square. Included in the discussion was the heroic announcement about the tragic events leading to Chinese army troops firing on the demonstrators by a Radio Beijing announcer in the English Service that ultimately led to his arrest and "re-education." High drama with a broadcaster's behind the scenes perspective.

The author takes us through the early years as the VOA struggled to get it right. The first dozen years, the Voice merely survived before being morphed into an international broadcaster struggling to build a solid reputation. The Cuban missile crisis was an interesting time with the Voice coverage providing the bad news while the policy dominated Radio Swan providing imaginary success stories consistent with the existing US Government policies about the Bay of Pigs invasion.

Some of the interesting programming discussion featured a favorite of mine,

Music USA hosted by jazz-world icon Willis Conover. The program was launched as the Voice was moved to Washington in 1954. During a career that spanned more than four decades, Conover built a huge following overseas with his mellow voice, simple syntax and slow delivery. Before his death in 1966, he recorded more than 10,000 programs. A good portion of Chapter 13, entitled Music: The Universal Language, is about the impact Conover had on the VOA listening public.



The medium of shortwave radio was the primary communications vehicle for the Voice of America in the early days. Chapter 5 is devoted to the Voice's engineers at its remote shortwave relay stations around the world. The interesting story of losing Liberia but gaining São Tomé as a relay site is disclosed including the technical issues surrounding the development of such a location. Serious shortwave listeners will appreciate the problems and the solutions of providing reliable service to Africa.

Two pivotal years in VOA history are discussed in Chapter 10. The first, 1969, was the year of Neil Armstrong's famous walk on the moon. More people listened to this event live through VOA than any other station thanks, in part, to relay feeds of the Voice by other international broadcasters.

Twenty years later, 1989, would prove the value of the VOA once again as coverage of the cascading events in Eastern Europe, highlighted with the collapse of the Berlin wall, again signified the importance of the Voice of America.

Finally, Heil examines the challenges facing the Voice of America in advancing the free flow of information around the world. He places a high priority on rebuilding the newsroom staff, which declined from 62 to 49 between 1999 and 2001, because audience research indicates that accurate, reliable news are important factors in building listenership among international broadcasters. He discusses the decline of shortwave in Europe, Japan, Australia, the Middle East and most of the Americas because of technology. Nevertheless, he strongly believes that shortwave radio "will remain dominant for some years to come in Africa and in areas of East, South and Central Asia." He calls for more money if international broadcasters are to meet the demand for news and information noting that shortwave and medium wave service will continue to be important despite other technologies such as FM, TV and Internet.

The *Voice of America, A History* is far from light reading. It is a very comprehensive and thorough examination of the Voice of America from humble beginnings to an organization seeking and obtaining a reasonable amount of editorial independence. The main text of the book is over 450 pages. There are four separate appendices, the VOA Journalist Code dated April 12, 1995, Key Legislation affecting VOA, Tables and Charts, and Statements by Presidents. Also, there are extensive Notes, a comprehensive Glossary of terms, a wide-ranging Bibliography and a helpful Index. The author takes us through the years with an abundance of stories about the events that shaped America's international broadcasting voice.

This recently released, in-depth history of the VOA from its founding until its sixtieth anniversary is a vivid portrait of the people who made it great, depicting a news network that has overcome enormous challenges

to steadfastly and faithfully report the most important news stories of our time. Columbia University Press publishes the 540 page, hardcover *Voice of America, A History*. The book measures 1.40 x 9.18 x 6.34 inches and has a cover price of us\$37.50 or £26.00. It is available from Amazon.com and Borders for the cover price. Barnes and Noble carries the book for us\$30.00 but you need to add extra for shipping and taxes.

After reading *Voice of America, A History* by Alan L. Heil, Jr. the reader walks away with a better appreciation of the issues that international broadcasters face in delivering their message and the tools utilized to carry out that mission. Reaching millions of people of diverse ethnic, cultural, language and religious backgrounds is a very complex situation to deal with in any case. However, put that combination of complications into the caldron of the international stage while under a political microscope at home and you have a fascinating read. Alan Heil witnessed a lot of history during his tenure at the Voice of America and his ability to relate what he saw and experienced in this book makes for interesting reading. I can highly recommend getting a copy of Heil's *Voice of America, A History*. If you have an interest in the Voice of America as a station, or the shortwave broadcasting industry, you will enjoy Heil's perspective accumulated during his long international broadcasting career. This book belongs in the personal library of all international shortwave broadcasting radio enthusiasts.

Please Contribute to SWC

Ye Editor urges members and readers to contribute shortwave related articles for ShortWave Center. Articles, including illustrations, created in Word or MS Works may be attached to e-mails. Straight e-mail works for short texts. I can use cds and still have a 3.5 inch floppy drive attached. If all else fails, send paper. But, send something. The cupboard is bare. Don't let Rich have all the fun, hihi.

A Visit to KVOH

Part 1: Transmitter Site

By Doug Robertson, KCA6XO

The day was very foggy at the California coast, but 40 minutes later, at the Radio Shack parking lot in Newbury Park where Phil Bartlett and I had agreed to meet, the fog and haze had started to dissipate. We opted to take my truck with greater ground clearance which would be helpful on the mountain road ahead. Phil had been there before and had arranged with his friend, Ernest Garcia, a staff engineer at the transmitter site, to give me a long awaited tour of the KVOH transmitter and antenna atop Chatsworth Peak. This visit was in September, 1994.

KVOH, the Voice of Hope, is our Ventura County's only international shortwave broadcast station. We would also visit the studios and offices of the station before this Saturday was over. Our journey took us briefly on the busy Ventura Freeway (U.S. 101) to the Moorpark Freeway 23, then east on the 118 San Fernando (now Ronald Regan) Freeway to the Kuehner Drive offramp. Each freeway brought us generally higher in elevation, working our way to the eastern end of the county. The old historic Santa Susana Pass Road is a two lane clime to Box Canyon Road, a twisting switchback southwesterly toward the ocean and even more steeply climbing. "This is the canyon that always burns," said Phil rather ominously. The ghost of Krista Venta, a bizarre cult leader of "The Fountain of the World" commune once established here, is said to still haunt the canyon. Wallace Beery once established a movie studio here on Studio Road and the remains of Corriganville, a cowboy movie set, are not a park at the base of the pass. Slowing now by an old Corrugated metal water tower, the unmarked transmitter site entrance road was nearly hidden and I had to make a cautious, near 180 degree turn at Phil's direction to start the final climb through a private gate of the unmarked road up the mountain side.

This billy-goat trail of a car's width or less was long ago carved up the steep western slope of the 705 meter mountain. In low gear and minimum speed, I concentrated on the frequent switchbacks, avoiding the eroded gullies in the outer fringe of this vertical challenge to truck and Man. No guard rails protected us from a spectacular, surely fatal tumble had we lost traction or made any driving error. Only a foot or two in some of the eroded spots separated us from the chasm's edge. Straining all the way, we finally surfaced at the top right next to the transmitter building. My relief was obvious, and Ernest came out to greet and congratulate us. The peak is not all that high, at 2,313 feet, but it is very steep and sheer on the way up or down.

The view atop was utterly spectacular, but more of that later. About 7.7 acres of the flat top of the mountain are leased by KVOH, and most of that was taken up by the directional, log periodic transmitter antenna. Comprised of a logarithmic progression of links strung between two 150 foot tower poles in a descending, roughly triangular array, with the lower blunt point aimed 100 degrees true heading at the target audience of Cuba, the effect of all that wire, the guying, and the insulated supports was awesome. The base of the array was just out of our overhead reach, and the effect of standing under 1,500,000 Watts of effective radiated power (ERP) was almost overwhelming. There was a silence in the rarefied atmosphere high up there on this windless day. Imposing, and serene in the early morning mist below the peak, was this man-made giant transmitting antenna. I immediately rued not thinking to bring a camera.

Ernest broke my reverie with his favorite demonstration. He had gone back into the shack to get a fluorescent lamp tube, and there, under the antenna, gave us a light show modulated at the audio rate of the carrier, faintly visible in the now bright sunshine above the fog and haze that lay

far below. The morning broadcast was on 17795 kHz with the easy listening music and the announcer's Spanish clearly visible in the magic light show held in Ernest's hand.

Back in the little office, we shared the donuts Phil had brought his friend with coffee and got acquainted. They had pointed out to me both a ham antenna on the north tower as well as the microwave dish link aimed at the KVOH studio back in the City of Simi Valley far to the northwest below. Ernest had been monitoring a 20 meter net on a Yaesu FT-767. Born in the Dominican Republic, he came to America with his mother when he was 12. Now 50 (in 1994), he recalled building his first crystal set in his country. He was told he needed a galena (lead sulphide) crystal and a magnet upon which to wind very fine wire; both items presented a challenge to find. He could only get one station, and only one person could hear it at a time through the earphones, so he was soon commissioned to build like sets for all his relatives. As he related his beginnings in radio, I was reminded of the similar scratch-built crystal set I made in 1942 in Minnesota when nine and how I got the lifelong radio bug. Ernest (N6LQ) and Phil (K6UJO) are licensed Amateur Radio Operators and neighbors in Newbury Park and usually work 2 meters mobile. Ernest likes the part-time work at the site for the solitude it offers, but he clearly enjoyed our company on this eventful day.

We go through the heavy door that has blocked most of the transmitter's transformer hum. I am shown an elderly 50,000 watt RCA BTH100F transmitter, serial number 3, made under license by Marconi in Italy. The entire history of the transmitter is unknown, but it had been used by HCJB in Quito, Ecuador, before being installed here on the mountain in 1985. When something breaks, repair is complicated by the metric threads of everything. I can relate; finding 3 millimeter bolt threads in the top bows of my Alfa Romeo Spider. We talk over the dull roar of 50,000 watts operated non-linear class C with 45 degrees phase separation each channel, in what Phil, my patient tutor, calls the Ampliphase

process. The Lissajours figures on the small oscilloscope face simplify the explanation, as Phil sketches the circuit and shows the phase shifts alternately, while illustrating how distortion is controlled.

I learn the 50,000 watt transmitter really operates as two, with one exciter and a combiner. With 14.5 dB gain in the huge log periodic array outside, the 50,000 Watt rating becomes 1,500,000 Watts of ERP. The antenna puts out a 21 degree beam width. The half-power beam width covers Africa and much of South America from this site. Ernest is quick to show me the power meters, and explains they have recently incorporated a dynamic carrier control (DCC) process, where the power drops dramatically during little or no carrier program modulation. DCC is a means of making amplitude modulation more efficient by reducing the energy consumption of the transmitter without degrading performance. When modulation is low, the amount of carrier power required to transmit the AM signal is less than when modulation is high. DCC controls the carrier power dynamically as modulation changes according to a three function curve developed by Asea Brown Boveri and is described in their publication CH-E 3.10814.1E. The carrier level is adjusted as a function of the audio level in a three region curve. In region III, the carrier is dropped in direct proportion to the audio input so that the transmitter is 100% modulated. In region II, the carrier is kept at the same level so that, if the modulation stayed in this region, it would act as a standard AM transmitter. The carrier is increased in Region 1 so that co-channel interference is less evident during low level audio. According to Ernest, the savings on the station's electric bill have already been "tremendous." Averaged over long periods of transmission time, reductions of 40% to 50% in power consumption are achieved.

I have been able to log KVOH on my DX-302 and FRG-8800 on 9785 and 17775 kHz "behind" the antenna about 34 miles away on the coast, but both Phil and Ernest live in mountain shadows of the site. 9785 will

be abandoned and permanently changed to 7415 on 31 October 1994. (Alas, nothing is permanent: 7415 is in 2003 now 9975 kHz.). George Jacobs is the station's frequency and propagation consultant. "He's everybody's consultant," exhorts Ernest, with a quick, respectful grin. Showing me the guts of the dual transmitter, it takes much of Ernest's strength to heft a spare output tube. There are four Machlett ML669A's rated at 10,000 Watts each. The rebuilt price (in 1994) of one of these babies is \$8,000, something to keep in mind when listening to our reliable solid state short wave receivers, and to consider as to how these private stations are financially supported.

I am interested in the way their transmitter frequencies are established and am shown an ADRET 3300 frequency synthesizer. Set by the engineer to the transmitter frequency required, it has a range from 300 Hz to 50 MHz. Per FCC frequency requirements, the amplified transmitter output frequency is tapped and monitored on a Philips PM6662 frequency counter. The output was within 3 Hz or less of KVOH's carrier while I watched. Very good, indeed! The inside workings of the shack impress me as much as the antenna and outside mountain vistas.

Back outside and out of the din, I am in absolute awe of the forever view to the southeast from the antenna base's aimpoint. The Chatsworth Reservoir is far below us to the right, and the entire San Fernando valley with the Los Angeles basin well beyond. I make a mental note to return again on a clearer day, and pause as I realize I still have to drive Phil and me down that terror of a mountain road. The exact location coordinates of the site are 34 deg 15 min 23 sec N, and 118 deg 38 min 29 sec W.

Ernest fills me with continuous friendly trivia that establishes one can get used to such superlative perspectives. The owner of this mountain who leases to top to KVOH climbs the 150 foot poles without a safety belt to replace the red aircraft clearance lights when they burn out. One would have to make an invited trip to the site yourself to appreciate the view from the portable

outhouse perched on the mesa edge. The "throne" takes on an entirely new meaning at this lofty place. From various parts of the 118 Freeway below, only the two tall poles are visible to mark the antenna, because of the distance involved. On a clear night, the two red clearance light may be seen blinking their warning to aircraft from parts of that freeway. I am certain most commuters pass by on 118 daily without ever realizing the presence of a shortwave transmitter far above, or the fact these lights mark the KVOH site.

Ernest gets on the phone and speaks Spanish to the morning studio announcer about our impending visit. The announcer speaks no English and will be off duty after we arrive past noon, so is instructed to brief Pat Kowalick, the afternoon announcer, of our planned visit. The microwave receiver on the mountain is a MOD 8601A STL operating in the 900 MHz band. KVOH has a backup telephone line from the studio to the transmitter in case of a microwave link failure. The one-foot microwave wavelength can be modulated by raindrops during rare Southern California showers, causing a flutter modulation in the audio signal. This fact was to me a unique new source of QRM. I know Ernest has enjoyed our visit, inviting me to return. "Come back tomorrow," he says, as Phil and I buckle up for the precarious trip down.

References:

Dynamic Carrier Control for the RCA BHF-100B (sic) Transmitter, Preliminary Documentation, 9/16/94. Rob Frohne, School of Engineering, Walla Walla College, College Place, WA.

Telefax Message: George Jacobs and Associates, Inc., 7/1/94, 2000 UTC, Final Operating Schedule w-94 KVOH, Rancho Simi, CA File:KVOHw94.OPF

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Part two next month.



Technical Topics

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NASWA Files Reply Comments to FCC BPL Inquiry

On August 20 NASWA filed reply comments to the FCC in response to comments that were made by BPL proponents during the initial phase of the inquiry. Here is the substance of that submission. If you have not yet read the July and August editions of this column, I suggest you do so before continuing with this one. It will make much more sense if you have the background information explained in those other columns.

NASWA represents the interests of people who choose to get their news and information about other cultures via shortwave radio broadcasts on frequencies internationally allocated by the ITU and the FCC for this purpose.

There are several common threads that have been expressed by multiple BPL proponents that deserve further comment. Many of the proponents of using HF frequencies for BPL transmissions have made the point that their systems work at currently authorized Part 15 signal levels and should, therefore, be immediately authorized for commercial deployment. They assert that interference, if it occurs, can be mitigated by providing notches in the spectral mask for frequencies that are used for amateur radio. Many proudly proclaim that no complaints of interference from their technology have resulted from their test demonstrations. NASWA addresses each of these assertions in this response.

CLAIM: If a particular technology works at existing Part 15 signal level limits, that technology should be immediately authorized for full commercial deployment.

NASWA Reply: The proponents of immediate BPL deployment are ignoring a stipulation in Part 15 that requires operators of devices causing interference to licensed services to immediately terminate operation until the interference can be cured. Even when a Part 15 device is operating within permitted signal level limits, interference to licensed services can and will occur as NASWA, ARRL, and others have pointed out in their comments.

The FCC will be required to enforce this provision of its rules if BPL operators do not respond to interference complaints in a timely way. There are hundreds of thousands of amateur radio operators and millions of shortwave listeners who could be complaining.

Are BPL operators prepared to terminate their services in a timely response to such complaints? Does the FCC have sufficient enforcement personnel and budget to adequately police BPL providers who do not respond to complaints? (NASWA is reminded of the FCC enforcement quagmire that exists in the 27 MHz Citizen's Band. Once the egg is out of the chicken, you cannot stuff it back in.)

NASWA makes the following recommendation: Until the industry can prove that interference will not occur to frequencies allocated by the ITU for international HF broadcasting, the FCC must ban the commercial deployment of this technology at any level, Part 15 limits notwithstanding. Analysis has shown that interference will be caused to shortwave listeners in typical

home listening environments from BPL systems using the 2-30 MHz spectrum and operating at levels already permitted by Part 15. Only when BPL technology is proven to be interference free at existing Part 15 limits can BPL be deployed, and only then can relaxed Part 15 limits even be considered.

CLAIM: Many BPL proponents assert that interference, if it occurs, can be mitigated by providing notches in the spectral mask for frequencies that are used for amateur radio.

NASWA Reply: Several questions arise from this assertion. If 30 dB notches can largely mitigate interference to amateur radio services, why did not the BPL proponents promise to provide similar protection to international broadcast services? In NASWA's original comment, filed June 30, 2003, it was noted that the spacing between home power wiring and portable shortwave receivers with their self-contained whip antennas would make the mitigation of interference to such radios very difficult. A back-of-the-envelope analysis shows that approximately 70 dB of protection referenced to currently authorized Part 15 levels would be required due to the close spacing of the receiver antenna to the house electrical wiring. Are BPL proponents prepared to provide this degree of protection to the international broadcast bands?

When the ITU or the FCC changes allocations, can BPL providers adjust the protection windows without costly modification to the physical plant? One proponent said that they could shift the protected windows by remotely updating the software in their modems. Will all BPL providers be able to make that claim?

NASWA recommends that BPL providers be limited to signal levels that are 70 dB below current FCC Part 15 specifications in the internationally allocated HF broadcast bands. NASWA further recommends that

any interference mitigation schemes be frequency agile without costly hardware modifications. To do any less will constrain the FCC's and the NTIA's future ability to reallocate spectrum as new needs evolve.

CLAIM: Many BPL proponents have observed that interference will not be a problem because there have been no complaints of interference from their test demonstrations.

NASWA Reply: The fact that there have been no complaints proves nothing. As the Secretary of Defense said in a recent news conference when he was questioned about where all the weapons of mass destruction are, "Absence of evidence is not evidence of absence." The absence of interference complaints is not evidence of the absence of interference.

The detailed technical nature of the signals used for BPL transmission has only been described in general terms in the literature because most of the proponents consider their particular technology to be proprietary. Some experimenters are using multiple discrete modulated carriers. Others propose a pseudo-noise spread-spectrum approach. It is unlikely at the present stage of development that if interference was experienced, that anyone other than an engineer associated with the BPL technology under test, could identify the source as being BPL signals.

There is qualitative evidence of interference from at least one existing demonstration site. As stated in comments filed on July 7, 2003, AMRAD performed some testing in Potomac, Maryland and found that the test BPL installation radiated signals in the HF band. The BPL signals radiated were impulsive and sporadic, with bursts correlated with packet transfers. The radiation bands were centered on 5, 9 and 11 MHz that nominally correspond to international shortwave broadcast bands.

There is also some evidence that at least one BPL proponent may actually have tried to prevent the discovery of interference. In their comment of July 7, 2003 ARRL reported, "ARRL has not received significant encouragement from the utilities sponsoring the field tests in the United States, despite efforts to conduct cooperative studies."

NASWA questions whether, if interference existed and could be recognized as emanating from the BPL experiment, the interference would have been reported. If a non-technical shortwave listener hears a new, unidentified interference on the radio, there is no way of knowing where that interfering signal is coming from.

None of the comments by BPL proponents address how they have proactively facilitated the reporting of interference complaints. Have BPL proponents conducted surveys in neighborhoods where the experimental demonstrations are in progress? Have articles in local newspapers been published to alert shortwave listeners to the new technology and what the interference might sound like on a shortwave radio? Have addresses and telephone numbers been provided to the community to facilitate interference reporting? If interference were recognized, would listeners know whom to notify? The only conclusion that can be drawn from the proponent's comments is that they have not made such efforts.

NASWA consequently repeats its earlier recommendation made in our June 30, 2003 comments: BPL must not be deployed commercially unless and until the industry clearly shows in open demonstrations that their systems will not interfere with shortwave radios operating on self-contained whip antennas in close proximity to home power wiring. Only after successfully demonstrating that BPL will not interfere with shortwave reception on ITU and FCC-allocated international broadcasting frequency bands, at existing Part 15 levels, can any

prudent consideration be given to increasing the authorized levels. The test demonstration setups should be used to directly measure the available interference-free margin of a particular BPL implementation and those results used to guide establishment of any relaxed limits.

Thus endeth the lesson. We will now wait to see if the FCC decides to heed the outcries of thousands of people who have taken the time to respond to this notice of inquiry. I do not remember seeing a single response that supported the concept except from companies with a pecuniary interest in selling this service or the technology upon which it is based.

The FCC may decide to blow us all off as they did the 750,000 people who objected in advance to the FCC's recent decision to permit further media consolidation. On the other hand, FCC Chairman Michael Powell is still smarting under severe congressional criticism of that decision and so he may be gun shy about pulling such a cavalier stunt again in the near future. Time will tell.

One conspiracy-theorist respondent even had the bold audacity to suggest that deployment of BPL on a wide commercial scale would bring the USA to the level of Joe Stalin's Soviet Union where widely dispersed jammers prevented anyone from hearing foreign shortwave broadcasts. But the USA system would be implemented at almost no expense to the taxpayer by private industry. Brilliant!

Steven Dove of Elm, PA submitted reply comments telling of his own investigation of a test site in Emmaus, PA. He described how he took his Radio Shack DX-398 into Emmaus and had no trouble finding and hearing the interference caused by the BPL test in progress.

Mr. Dove wrote, "On arrival and on the very first pass down Main St., at the intersection with Second St. (pretty much in the centre

of the town) strong interference attributable to BPL was heard. It took the form of irhythmic clicks, scratches and noise bursts, discernable between 3 MHz and 18 MHz, 'peaking' at around 6 MHz. Within those very broad constraints, it was completely broadband in character; there was no frequency checked free of the noise."

He further observed, "Reception of all but the strongest shortwave broadcast transmissions was seriously impaired. Those which were unimpaired were extremely strong (propagationally 'single-hop') signals from within North America, with intended target areas (with the exception of Radio Canada International) outside of the US."

Last night my local ham radio club had a short presentation on this subject. One of the club members with a high-speed internet connection had downloaded a video tape made by the ARRL. He copied the download to a VHS tape and brought the tape to the meeting. The video was positively frightening.

ARRL installed a communications receiver in a station wagon and drove around to several test sites scattered around the US East Coast. In one case the interference sounded like irregular sharp pulses that did not change as the operator rotated the dial of the receiver. At another test site the BPL technology was different. Here there were multiple FSK carriers all across the spectrum.

It was frightening to watch as the station wagon drove down the street for block after block. The signal levels from the BPL carriers remained steady as the vehicle proceeded down the street for many blocks. The operator tuned the radio rapidly across the multiple FSK carriers. One after another, the carriers and their sidebands stood out like a phalanx of Spartan warriors successfully warding off the intrusion of any other signals into the receiver.

The video is available for you to download complete with an audio track depicting the actual noises of what BPL may sound like

in the future. You should become familiar with this sound because if industry and the FCC have their way, this is all you may soon hear on your shortwave radio.

Now if that news isn't bad enough, I hear that the power companies have absolutely no intention to issue QSLs for reports of logging their BPL signals.

Here is the link to the video for those with slow speed dial up access:

<http://216.167.96.120/BPL_Trial-small.mpg>

The file is going to take about 20 minutes to download.

If you have broadband access, you can retrieve a better quality version at:

<http://216.167.96.120/BPL_Trial-web.mpg>

Note: There is an underscore between BPL and Trial in both of the above addresses that may not appear in the printed version. Spaces are not allowed in URLs.

These and additional samples of signals observed in other countries during BPL demonstration tests can also be accessed at the following web site:

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

Well that about does it for another exciting month in radio land. I think I'll go turn on the radio now while I can still hear something on it. I would like to extend my personal thanks to Paul Brouillette, Richard Cuff, Richard D'Angelo, John Figliozzi, and Alan Johnson for their assistance in the preparation and review of both the comments and the reply comments. This effort has extended over about 4 months and their contributions were essential to the quality of the end products.

Until next time, stay tuned.



Adrian Peterson's Diary

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The Story of Another Radio Ship—the VOA Phoenix

According to Greek mythology, the “phoenix” was a large and beautiful bird which could die in a fire and then arise as a new and young creature. Very little else is known about this mysterious bird.

Almost as mysterious is the story of the radio ship “Phoenix,” which was fitted out with a bevy of electronic equipment to serve as a mobile broadcasting station. There are just two main sources for the brief story about the “Phoenix”; one is a university dissertation on the history of the Voice of America, and the other is a brief reference in a book on the history of radio broadcasting from ships. All other references to VOA “Phoenix” seem to stem from these two earlier sources.

It is known that the “Phoenix” was not a war vessel, but rather a Greek merchant ship that was converted in the United States for use as a radio broadcasting station. Gerry Bishop, in his memorable compilation of radio ships with the title “Offshore Radio,” refers to this Greek merchant vessel as the “Doddridge,” and then he briefly refers to the later ship, the “Courier.” It is suggested that, in reality, the “Doddridge” became VOA “Phoenix,” not VOA “Courier.”

We could ask the question, What was the radio equipment on the “Phoenix”? The only information we can find is that it contained just one transmitter, rated at 85 kw. If this information is correct, then it was a mighty big transmitter for a small ship. It would seem that the only broadcast transmitter on the “Phoenix” was a mediumwave unit rather than shortwave.

The original purpose for the radio ship “Phoenix” was to act quickly as a temporary

radio broadcasting station in the Mediterranean until a permanent station could be built at a satisfactory location. However, by the time the “Phoenix” was ready to fulfil its intended role in the Mediterranean, the European conflict was almost over, and so the ship was then diverted for use in the Pacific.

The official date for the end of the European conflict is given as May 8, 1945, so it would appear then that the “Phoenix” left the United States for its journey across the Pacific around March or April, 1945.

Actually, it is stated that the United States Navy delayed giving approval for the ship to move into the Pacific, and by the time it did arrive in Far Eastern waters the war in the Pacific was over. However, it is understood that the “Phoenix” did go on the air with test broadcasts off the coast of California, and also in Far Eastern waters. The fact that there are no known DX reports of these test broadcasts would seem to confirm that these were made on mediumwave rather than on shortwave.

What happened to the “Phoenix” after the war, and what happened to all of its electronic equipment? No one seems to know. What is known is that it was a slow ship and that it did go on the air with test broadcasts in the Pacific around mid-1945, though it is officially stated that the ship was never used for regular radio broadcasting. In addition, there are no known loggings of this ship broadcasting station in any radio magazines at the time.

It would appear, then, that the radio broadcasting ship “Phoenix” was a temporary and very short lived project that never fully fulfilled its intended purposes.

Radio Broadcasting in the Islands of Sao Thome & Principe

A few weeks ago, some of the international news bulletins on radio and TV mentioned about political disturbances in the islands of Sao Thome & Principe. These events must have been quite brief, as a Google search on the internet failed to bring up any significant items of interest. Nevertheless, the mention of these islands in international news drew our attention in this direction, so we decided that we would look into the story of radio broadcasting in these exotic islands.

The independent nation of Sao Thome & Principe lies about 125 miles off the west coast of Africa. The total area of this islandic country is less than 400 square miles and it is made up of just the two main islands and a few very small islands. The total population is less than 100,000, and the capital is Sao Thome on Sao Thome island.

These African islands were discovered in the era of European exploration by the Portuguese in 1470. The Dutch and then the French subsequently took over, but the Portuguese again regained control of these islands. The islands ultimately gained their independence in 1975.

Radio broadcasting got a late start in Sao Thome & Principe and it began, as often happened in those days, with the use of utility communication transmitters carrying broadcast programming part time. In October 1950, the usage of the single shortwave transmitter on St. Thome was diverted one hour each day for the presentation of local programming. Two frequencies were used with an amateur callsign for each channel, CR5SA and CR5ST.

After the initial launching of this new medium of public communication in the islands, "Radio Club de Sao Thome," the on-air schedule began to diminish until it became quite spasmodic. However, in 1967 this station began the relay of programming

from Portugal, with the title "The Voice of the West."

Soon afterwards, plans were announced for the construction of a radio broadcasting facility made up of two transmitters, 10 kw on shortwave and 10 kw on mediumwave. They even said that they were planning on installing a very large shortwave station to act as a relay facility to the African mainland.

In 1971, "Radio Club de Sao Thome" became "Emissora Nacional" and the shortwave transmitter was soon afterwards deactivated. FM coverage became the new norm for radio coverage in these islands. Currently they are operating 20 kw on 945 kHz mediumwave and a small network of half a dozen FM transmitters.

The Voice of America installed a relay station at Pinheira in 1993. The first unit on air was a temporary 100 kw operating on mediumwave. This was later replaced by a 600 kw unit, and the four shortwave transmitters at 100 kw. This VOA facility replaced the large VOA relay station in Liberia that was destroyed in the civil war there many years ago.

In the days when Emissora Nacional was on the air shortwave they were quite reliable in issuing their quite famous QSL sheet. A QSL card direct from the VOA station at Pinheira shows an early photo of their facility with its buildings and antenna system.

The noted international radio monitor from Denmark, Anker Petersen, made a visit to Sao Thome & Principe a few months ago. He states that the VOA station is located near the ocean at the southern edge of the main island, St. Thome. He states also that the government mediumwave transmitter is colocated with the VOA facility, though the programming comes directly from the city and is produced quite independent of the VOA programming.

Scoreboard

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This month we are highlighting our members totals from Africa. This is your chance to show everyone how well you are doing. The next deadline is November 15th for the December 2003 issue of the *Journal*. The spotlight will be on South America.

Name, State	Total		Africa		Best Africa QSL
	c/H	c/V	c/H	c/V	
Marlin Field, MI	244	244	66	66	Kenya
Jerry Berg, MA	243	243	64	64	R. Clube Tenerife, Canary Is. (250w.)
Tom Williamson, ON	243	230	65	61	ZNB Mafeking, Bechuanaland
Harold Cones, VA	234	232	64	64	R. Reunion
Steven R. Lare, MI	234	214	61	50	Mauritius
Rich D'Angelo, PA	225	221	58	57	R. Mogadishu, Italian Somaliland
Jerry Klinck, NY	220	202			
Paul Buer, FL	218	207	60	54	La Voz de la Isla de la Palma (350w.)
Ron Howard, CA	212	200	57	52	R. Cidade
Jerry Johnston, KY	209	138	58	28	R. St. Helena
George Maroti, NY	203	192	53	50	R. Hargeysa
Stephen Price, VA	193	174	52	41	R. Tunisia
Ross Comeau, MA	190	167	51	38	R. Tanzania - Zanzibar
James R. Renfrew, NY	187	156	51	38	Biafra 6025
Gary W. Froemming, AZ	184	44	51	8	ZUD Time Station (S. Africa)
Andy Rugg, PQ	180	161	49	38	TWR 3200 Swaziland
George L. Glotzbach, NM	154	132	30	23	R. Lome, Togo
Scott C. Newman, IN	148	113	37	25	R. Omdurman
Jilly Dybka, TN	144	102	34	18	R. St. Helena
Paul Brouillette, IL	141	118	38	22	R. Mozambique
Scott R. Barbour, NH	136	82	36	15	ELWA Radio, Liberia
Gary R. Neal, TX	134	123	25	22	R. St. Helena
Edward G. Stroh, IL	132	102	30	17	R. Mogadishu, Somalia
John Mosman, WI	120	120	27	27	W. Nigeria Broadcasting Corp.

For Sale: Klengenfuss 2002 SW Frequency Guide, \$27.00. 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; 10th Edition, \$10.00. All items include shipping (overseas shipping extra). Cashiers check or money order, only, please. Al Drehman, 389 Laurel Heights Lane, Tryon, NC 28782-6643. E-mail aldreh@alltel.net. Phone 828 894-3398. No collect calls, please.

Listener's Notebook

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

ALGERIA [Western Sahara] 7460.31 *Polisario Radio* "El Idaha el watania l'jourmouria el arabia el sahrawia el watania." Yesterday night [Aug 18] around 2100-2130 I checked Polisario Sahara Radio on 7460.31 kHz, but thin, very weak at this time of the year. No jamming from MRC noticed so far.

(later) On past three nights [Aug 18-20] I heard the Polisario Front Radio from probably Tindouf-ALG on 7460.31 kHz, but very thin poor S=1-2. Readable only few fragments of French language phrases. Always around 2100-2130 UT.

This morning (Thur 21) the channel was empty at 0600 UT, but at 0700 UTC I noted a very weak signal, and a carrier on according measurement of my USB/LSB rx settings. (Bueschel-D, Aug 21)

Yes, it has to be the Sahara station you are hearing around 7460, but signal strength here is also very much lower than it used to be, so something has altered. Perhaps lower power—re-directed aerials—or just a different location? (Noel R. Green-UK, BC-DX Aug 21/Bueschel-D)

AUSTRALIA New is an Aboriginal-run radio service for people living in north-east Arnhem Land in the Northern Territory.

The *Aboriginal Resource and Development Services* Inc. (ARDS) has commenced shortwave transmissions from a site at Humpty Doo, near Darwin. Sked is 24 hours a day on nominal 5050 kHz using 400W into a 2-element array beamed 100 degrees from Darwin.

More information on the stn can be found on the ARDS Web site (<http://www.ards.com.au/>), reports are welcome at dale@ards.com.au or by mail to ARDS Box 1671 Nhulunbuy NT 0881, Australia.

Full story see: <http://www.rnw.nl/realradio/html/medianews.html> (Kim Elliott/DX Listening Digest/Hauser-OK & RNWMN NL Aug 7 & Johnson/Cumbre DX via ARDX/BCDX/Bueschel-D)

5049.94 at 0935 ARDS Radio, Humpty Doo, weak signal with indigenous mx and talk. (Paul Ormandy-NZ ZL4TFX, South PAC report via BC-DX Aug 9/Bueschel-D)

HCBJ via Kunnunura(KNX) eff from July 21, to SoAS

0100-0130 Urdu NF 15420 new transmission in new lang

0130-0330 English NF 15420 new additional transmission

(Roland Schulze-Mangaldan Pangasinan-PHL, BC-DX/Bueschel-D)

BANGLADESH 7185 *Radio Bangladesh* Foreign Service, 1230-1300. English program. Much improved modulation and the transmitter rumble is much less making it a bit easier to listen. However, some days modulation goes down. EE at 1230-1300 on 7185 and also 1815 on 7185. Although announcing // 9550 and 15520 only the 7185 transmitter is operational. Maybe they used the 9 MHz transmitter for parts for the 7 MHz transmitter!! 15520 was last heard at least 2 years back, not since. The tropical band 4880 has also been off for a couple of years. (Victor Goonetilleke-SLK 4S7VK, DXplorer Aug 3/BCDX/Bueschel-D)

BELARUS There is a relay of *Mayak* via Belarus operating—presumably from a military transmitter—on 5134 SSB (LSB and USB). Sked appears to be 0300-1800. (Tom—DL8AAM and Honzig-CZE, hcdx July 26-27/BCDX/Bueschel-D)

BENIN *ORTB Cotonou* on 7210.3 is coming fairly good here in Italy right now at 2140 UT. The reception is slightly clearer on USB, although 7210 is free. No T/S at TOH, but just a short ID at 2210 after a long interview over the origins and the effects of the colonial system in Africa. Then back to back both western-style mx and afropops. It was gone at recheck at 2303. (Renato Bruni-I, Cumbre July 22/BCDX/Bueschel-D)

BOLIVIA 3310 *Radio Mosoj Chaski*, Cochabamba, 2216-2221, Aug 15, Quechua, Religious program, man announcer, ID "Radio Mosoj Chaski." (Eramo, Argentina)

3390.6 *Radio Camargo*, Camargo, 2325, Aug 12, Spanish talk, ID, music. (Rogildo Aragao-BOL/DSWCI DX-Window/Petersen-DEN)

4600.3 *Radio Perla del Acre*, Cobija, Aug 13, Spanish, relay Radio Fides. (Rogildo Aragao-BOL/DSWCI DX-Window/Petersen-DEN)

4650.36 *Radio Santa Ana*, Santa Ana del Yacuma, 2208-2212, Aug 15, Spanish, comments by man announcer, ID "a esta hora Radio Santa Ana le propone..." (Eramo, Argentina)

4681.4 *Radio Pattiti*, Guayaramirim, 2234, Aug 09, romantic music with ann in Spanish. (Slaen-ARG/DSWCI DX-Window/Petersen-DEN)

4734.8 **Radio San Miguel**, presume this to be Radio San Miguel, Riberalta, ex 4930v, 0932-1005, Jul 25, a science transcription program from Radio Nederland, time check and ID at 1003. (Ormandy and Slaen via DXplorer/DSWCI DX-Window/Petersen-DEN)

4760 **Radio Constelacion**, Guanay, 0129, Aug 26, Spanish talks by man and woman (Cassio-BRZ/DSWCI DX-Window/Petersen-DEN). New ID for Radio Guanay? (Petersen-DEN)

4781.5 **Radio Tacana**, Tumupasa, Provincia Inturralde, Departamento de La Paz, 0202-0331*, Aug 20, New station, Latin American music, ann: "Sintoniza Tacana la radio...la programacion contigo hasta 11 con 30 minutos (0330 UTC)," ID: "Transmite desde Tumupasa, norte de La Paz, Radio Tacana" and "estaremos manana a las 6 (1000UTC)...." 0305 Brazilian Amazone music until 0328. Announced as their second test. (Rogildo Aragao-BOL via HCDX/DSWCI DX-Window/Petersen-DEN)

4788v **Radio Ballivian**, San Borja, 2256, Aug 12, Spanish, "Aqui en los estudios de Radio Ballivian...," program "Salud para el Beni." (Rogildo Aragao-BOL/DSWCI DX-Window/Petersen-DEN)

4905.16 **Radio San Miguel**, Riberalta, 0155-0300*, Aug 16 and 26, drift from 4930, Spanish program "Show de los Sabados" "...la multitud de Radio San Miguel," "...mes aniversario, 35 anos de Radio San Miguel..." (Rogildo Aragao-BOL/DSWCI DX-Window/Petersen-DEN)

4906 Radio San Miguel, 0915-0930 Aug 27. Noted a man in Spanish comments, IDing and presenting musical selections. It looks like the station has settled on 4906 kHz rather than the 4905.50 frequency they were using the other day. Hopefully, the station will not slowly creep up the band to their old frequency over time? Signal here was fair (Bolland-FL/DX Listening Digest/Hauser-OK)

5580.4 **Radio San Jose**, San Jose de Chiquitos, 0010, Aug 10, Spanish ID. Melodic music and religious talk. (Slaen-ARG/DSWCI DX-Window/Petersen-DEN)

5927.11 **Radiodifusora Minería**, Oruro (p), 2305, Jul 22, Andean music with Spanish ann by W. (Slaen-ARG/DSWCI DX-Window/Petersen-DEN)

6054.62 **Radio Juan XXIII**, San Ignacio de Velazco, 2245-2250, Jul 22 and 26, educative program in Spanish made by Instituto Radiofonico Fe y alegría. Then romantic songs. Identification. (Slaen-ARG/DSWCI DX-Window/Petersen-DEN)

6134.81 **Radio Santa Cruz**, Santa Cruz de la Sierra, 2239-2244, Aug 15, Spanish, News program, (enseguida retornamos con el noticiero nacional), Ads., ID "y que llega a Uds a traves de Radio Santa Cruz." (Eramo, Argentina)

6155.07 **Radio Fides**, La Paz, 2232-2237, Aug 15, Spanish, Political Program, "El Hombre Invisible," ID "Aqui Fides." (Eramo, Argentina)

6585.4 **Radio Nueva Esperanza**, El Alto, *2300, Aug 02, transmission in Aymara/Spanish, Andean religious music, religious talk, TC: "7 de la noche con 6 minutos." (Slaen-ARG/DSWCI DX-Window/Petersen-DEN)

CAMBODIA 11939.4-11940.1, **National Radio**, Phnom Penh, *1155 open carrier, *1200-1235v*, Aug 05-14, reactivated with programs in Khmer, maybe only for tests. Also heard with open carrier *2355 and progrme from *0000. They start with a national hymn, ID and pieces of an instrumental National Anthem. The progrme length varies—the longest lasted 35 minutes. There are still modulation problems and drift in frequency. Weak signal with splatters from 11945. (Roland Schulze-Mangaldan Pangasinan-PHL, direct BC-DX Aug 11; and dswci DXW/Bueschel-D)

11940.1, 0004 UT, **National Voice of Cambodia**, tent. the one signing on abruptly at this time with Asian lang, two DJs and brief mx interludes; within 4 mins had wandered down to 11940.03 and kept drifting down very slowly to 11939.96 by 0015. Audio distortion, slight at first, increased gradually. Subject to signal surges rather than QSB. Despite these technical issues, the signal was better than over recent years. (Paul Ormandy-NZ ZL4TFX, BC-DX Aug 24/Bueschel-D)

CHINA 4993.9, **Fujian PBS**, Fuzhou, Fujian reactivated after two years absence (ex4975), 1000-1030*, Jul 19, Chinese reports, Chinese pop mx, 1030 closed with local ID // 5039.9.

5039.9, **Fujian PBS**, Fuzhou, Fujian reactivated after 1 1/2 years absence (ex5040), 1000-1033*, Jul 19, Chinese // 4993.9, but continued 1030 with time ann and 3 mins short talks mentioning Beijing. (Roland Schulze-PHL, DSWCI DXW Aug 11/BCDX/Bueschel-D)

China Radio International announced the following changes in its Russian schedule: 1700-1800 addit 11960 kHz 2000-2100 replace 9860 kHz with 9730 kHz. (open_dx—Arkady Smirnov, Petrozavodsk-RUS, DXsignal Aug 22/BCDX/Bueschel-D)

CLANDESTINE—AFRICA New is **Sudan Radio Service**. Regular programming (music, ID's, news in various languages including English) began August 7. Transmitter site is Woofferton, UK. Sked:
1600-1700 17630 Mo-Fr
1700-1800 17660 Mo-Fr

Email: srs@edc.org (various reporters via Cumbré, BC-DX and DX Listening Digest)

ETHIOPIA 9561.3 *Radio Ethiopia* Jul 31 *1600-1607 English, 1600 s/on with IS. Opening announce. Music.

9704.2 *Radio Ethiopia* Aug 2 *1459-1507amharic, 1459 s/on with IS. ID. Three gong. News. (Kouji Hashimoto-JPN, JPNpremium Aug 9/BCDX/Bueschel-D)

GERMANY Deutsche Telekom sked thru October 25:

Radio Vilnius Lithuania

9855 0000-0100

Allerweltschau Koin

17555 1500-1530 Tu-Fr

17555 1500-1559 Sa/Su

Digital Radio Mondial

5975 0815-1305#

5975 1305-1500

9760 1100-1300#

15715 0900-1400#

Pan Am Broadcasting

15650 1445-1500 Su

15650 1500-1515 Su

15650 1530-1545 Su

15650 1545-1600 Su

Democratic Voice of Burma

9435 2330-0030

Evangeliums Radio Hamburg

6045 0858-1000 Su

6015 1730-1759

Christliche Wissenschaft

5985 0900-0959 Su

Sagalee Bilisummaa Oromoo

15670 1700-1759 Su/Tu/We/Fr

Radio Reveil Paroles de Vie

15750 1830-1859 Th

IBRA Radio Sweden

15715 0500-0600

15715 1400-1530

15715 1530-1630

9605 2000-2100

11610 1645-1715

15450 1730-1759

12140 1900-2000

15695 1730-1845

Universelles Leben

15265 1600-1629 Su

9435 0100-0129 Su

6015 1630-1659 Tu-Th

15750 1800-1829 Su

15565 1900-1929 Su

The Overcomer Broadcast

13810 1300-1559

13810 0700-0900*

9770 0400-0559*

6110 1200-1230

6110 1230-1659 Sa

6110 1230-1559 Mo-Sa

Radio Television Belge de la Communaute

Francaise

9490 0257-0459 Mo-Fr

9490 0427-0459 Sa/Su

17580 0500-0712 Mo-Fr

17580 0500-0959 Sa

17580 0500-0806 Su

21565 0957-1206 Mo-Fr

21565 1000-1117 Sa

21565 1057-1117 Su

17570 1457-1716 Su-Fr

17570 1557-1716 Sa

Bible Voice Broadcasting

5975 0700-0815 Sa/Su

13810 1630-1700

13810 1700-1729 Mo-Th

13725 1900-1915 Mo-Th

13725 1900-1930 Fr*

13725 1900-1930 Su/Fr*

13725 1900-2000 Sa

15750 1615-1730 Tu-Fr*

15750 1700-1759 Sa/Su*

17595 0845-1015 Fr

5970 1800-1900 Sa

5970 1800-1930 Su

13710 1900-1930 Th

13710 1900-2000 Fr-Su

13840 0500-0530 Mo-Fr

15600 0130-0200 Mo-Sa

11975 0030-0100 Sa

Gospel For Asia

15775 1430-1529

15660 1530-1629

11795 0030-0130

11905 2300-0030

High Adventure Ministries - The Voice of Hope (ex HAM)

5975 0700-0750 Mo-Fr

5975 0700-0745 Mo-Fr

17655 1530-1615 Mo-Fr

15680 1530-1700 Mo

15680 1530-1745 Tu

15680 1530-1759 We/Fr

15680 1530-1715 Th

15680 1515-1759 Sa/Su

15750 1615-1730 Mo

13845 1800-1859 Sa/Su

5970 1800-1845 Mo-Fr

6010 1800-1845 Mo-Fr

New Horizon Service
15775 1330-1430 NHS

WYFR Family Radio
13720 1700-1800
13855 2000-2100
13590 2000-2100

The United Methodist Church
13810 0400-0559
15435 0600-0800
13820 1700-1859
15715 1700-1859

Hrvatska Radio Televizija
9925 2300-0059
9925 0100-0400
9925 2300-0100
9925 0100-0259
9925 0300-0459
9925 0500-0700
9470 0400-0500
9470 0500-0659
13820 0600-0700
13820 0700-0859
13820 0900-1000

Deutsche Welle
6140 0600-1000
6140 1000-1300
6140 1300-1600
6140 1600-1900

Radio Netherlands World Service
6045 1027-1225
11655 0600-0700

Vlaamse Radio en Televisie (ex RVI)
5910 1757-1956 Sa
5985 0657-0726
13685 0457-0656
13710 1729-1856

Adventist World Radio
7125 0400-0500
15160 0600-0730
15160 0600-0730
11880 0900-1000 Sa/Su
15360 1630-1659
15235 1700-1759
15175 1900-2030

Swiss Radio International
13650 0555-0800
15445 0555-0800
13750 1625-1655
13750 1655-1815
15515 1625-1815
13645 1825-2130
11815 1825-2130
21750 0555-0800
21770 0825-1030

17870 1625-1815
13795 1825-2130
9885 2155-2400

Trans World Radio
9660 1600-1645 Sa
6045 0645-0820 Su
6045 0655-0820 Mo-Fr
6045 0645-0750 Sa
7135 1600-1645 Sa
9490 1230-1245

Voice of Russia
17670 0600-0800
17705 1400-1500
9405 1900-2100
5985 1900-2100
7260 2000-2100
7120 2200-2300

International Broadcasting Bureau
9870 1600-1630
9870 1630-1659 Mo-Fr
9740 1800-1900
9865 1700-1759
11910 0300-0400
7205 0100-0300
11930 0400-0600
11680 1400-1500
9565 1500-1659
5945 2230-0030
12140 0230-0430
15690 0630-1030
15690 1230-1430
15690 1630-1830

* changes

momentary not active

(via Chairman Michael Bethge-D, World Wide DX Club, BC-DX July 10)

Frequency changes for **Deutsche Welle** effective August 3:

Arabic 1300-1330 add 21790
Arabic 1400-1430 NF 15650, ex 15470
Arabic 1430-1500 add 13720 and 15650
Arabic 1600-1630 add 15360
German 1000-1400 del 21790
German 1200-1600 del 12090
Chinese 1030-1055 del 17770 and 17835
Chinese 1300-1350 del 15535 and 17845
Chinese 2300-2350 del 9560

(Observer-BUL)

HONDURAS Reactivated 3340.00 **Radio Misiones Internacional[es]**, Comayagela. Aug 23 2003—0400 UT. Religious by M and soft, quiet music, ID at 0400 UT (Bjorn Malm-ECU/SW Bulletin Aug 24, translated Nilsson/DX Listening Digest/Hauser-OK)

INDIA AIR Chennai noted with External Service to Sri Lanka now on 7270 (100 kW). Earlier it was Home Service. The new sked on 7270 is: 1000-1100 English, 1115-1215 Tamil, 1300-1500 Sinhala. (Jose Jacob-IND VU2JOS, DKindia July 25/BCDX/Bueschel-D)

AIR Thiruvanthapuram SW Schedule is:

0020-0215 5010
0230-0415 7290 Mo-Sa
0230-0930 or 7290 Su
1030
0630-0930 7290
1115-1735 5010 Mo-Sa
1130-1735 5010 Su

The email address is: airtvpm@md4.vsnl.net.in.
(Jacob-IND, Jul 20/DSWCI DX-Window/Petersen-DEN)

INDONESIA 3231.88 RRI Bukittinggi(p) Aug 16 1329-1403 Indonesian, Talk and music. (Hasimoto-JPN/Japan Premium)

3266.4 **RRI Gorontalo** Aug 17 1048-1058 Indonesian, Music. ID at 1052. (Hasimoto-JPN/Japan Premium)

3325 **RRI Palangkaraya** Aug 18 1152-1203 Indonesian, Mjusic. ID at 1158. 1200 Jakarta news relay. (Hasimoto-JPN/Japan Premium)

3344.85 **RRI Ternate** Jul 27 1202-1212 Indonesian, Music. ID at 1203. (Hashimoto-JPN/Japan Premium)

3516.7 **RSPK Ngada**, 1202-1305 Aug 7, relay of Dinamika INS at 1202 with 8 second delay compared to 9680. 1239 nx IS then warta berita daerah, 1252 Radiogram & Berita-berita keluarga past 1305. Still going 1410 but next day off air by 1400. Aug 9 noted past 1430 on 3516.5. Strong signal which should be heard widely. Replaces 2899. Note new ID replacing RPDT2. (David Foster-AUS, DXplorer Aug 7/BCDX/Bueschel-D)

3976.07 **RRI Pontianak** Aug 18 1341-1405 Indonesian, Music. 1402 with IS and ID. Local news. (Hasimoto-JPN/Japan Premium)

4606.4 **RRI Serui** Aug 13 1130-1141 Indonesian, 1130 ID and IS. ID. Local news. (Hasimoto-JPN/Japan Premium)

4753.24 **RRI Makassar**, 1005-1015 Noted the reciting of the Koran. At 1011, after the Koran, a woman presents mx. Haven't heard this station for about a week. I started checking for it after the hotel bombing and it was nil. I heard other Indo stns during that period however. I wonder if there is a connection? RRI Makassar was at a fair level but was being interfered with from a Het. (Chuck Bolland-FL-USA, Cumbre Aug 25/BCDX/Bueschel-D)

4790 **RRI Fak Fak** Aug 16 1000-1031 Indonesian, Music. ID at 1026. (Hasimoto-JPN/Japan Premium)

4845.22 **RRI Ambon**, 1019-1029 This was pretty good at tune in, but faded rapidly and the audio was gone by 1029. I noted steady MOR mx during the entire period. So the signal was fair to nil. (Chuck Bolland-FL-USA Cumbre Aug 18/BCDX/Bueschel-D)

4869.96 **RRI Wamena**, 1029-1110 I thought this was a local stn at first, it being so strong. Stayed with this during the period and noted steady mx. On the hour a quick ID by a man and then back to mx. No nx or other pertinent details noted. Signal was good even after 1110 (I left the recorder on while I walked the dogs). (Chuck Bolland-FL-USA Cumbre Aug 18/BCDX/Bueschel-D)

4870.9 **RRI Sorong**, 0924 Aug 15, azan magrib call to prayer started followed by 0929 lagu padang pasir (desert songs, i.e. Arabic style) then tedious information but with many mentions of Sorong from around 0935 until unceremonious 1005*. Crazy freq choice as RRI Wamena not far away on 4870 at similar strength. However, Sorong may have no choice but to use their very old 10 kW transmitter. The usual but extremely irregular 4875 xmtr (actually 4874.6) was first mentioned in WRTH in 1978 and before that 4871v was used. From 1986-88 both xmtrs were used, 4871 in local a.m.'s and 4875 in evenings but since then only 4875. (David Foster-AUS, DXplorer Aug 16/BCDX/Bueschel-D)

6067.63 **RRI Jayapura** (p), 1045-1115 Initially noted a carrier here without any audio present. At 1100, theme music followed by comments from a woman probably in Indonesian language. Signal was always threshold during period. (Bolland-FL/Cumbre DX/Johnson-WY)

9524.90 **Voice of Indonesia**, Jakarta, 1050-1105+. Program in Chinese lang, full ID at 1100 in English, then continue in Chinese. (Gabriel Ivan Barrera-ARG, BC-DX July 23/Bueschel-D)

9743.6 **RRI Sorong**, 0759* Aug 15, close down just after HCJB 9745 had s/on. Before that was weak but clear. (David Foster-AUS, DXplorer Aug 16/BCDX/Bueschel-D)

15125 **RRI Jakarta**, 0807 Aug 15, reactivated after many moons //9680 11860. Observed past 1030 but fading as band propagation collapsed. Again at tardy *2223 on the same date. (David Foster-AUS, DXplorer Aug 16/BCDX/Bueschel-D)

3344.8 **RRI Ternate** inactive since 31 July-6 Aug.

4753.8v **RRI Makassar** inactive since 30 July-6 Aug. (Roland Schulze-Mangaldan Pangasinan-PHL, BC-DX Aug 11/Bueschel-D)

Radio Republik Indonesia has moved its website to a new provider and slightly changed the address: www.rrl-online.com instead of www.rrionline.com. It is mainly a rx portal, but includes also some information about the radio services. New email address for the External Service "Voice of Indonesia" is voi@rrl-online.com. (Bernd Trutenau-LTU, DXplorer Aug 21/BCDX/Bueschel-D)

ISRAEL Updated summer *Kol Israel* English schedule:

0400-0415	9435	15640	17600
1010-1020	15640	17545	17525
1700-1705	15640	17545	
1900-1925	17545	15615	11605 15640

(DX Listening Digest/Hauser-OK)

KOREA—NORTH I notice that the *Korean Central Broadcasting Station* has now popped up on 6250.3 // 6398.9 naturally in Korean. From memory this station is a relay of the Domestic Service and is relayed to the substantial Korean diaspora in Japan. I wonder if the senders were redirected away from the former northern based clandestines that were closed at the end of July. (Robin L. Harwood-AUS, edxp Aug 18)

KURDISTAN 8170 kHz *Voice of Kurdistan*, Aug 25 1700-1714, news in Arabic and Kurdish music. (Mohamed Kallel-TUN/DX Listening Digest/Hauser-OK) Harmonic, 2x 4085 (Hauser-OK)

LAOS Sorry no more 7145 *Lao Radio* External Service. Not heard for at least 3 months. Domestic Service still heard around 1300 on 6130. (Victor Goonetilleke-SLK 4S7VK, DXplorer Aug 3/BCDX/Bueschel-D)

MEXICO *Radio Mil*, 6010, duplicates MW 1000 except for these times on weekends when Encuentro DX is aired: Fri 2200, Sat 1400, 2300, Sun 1330, 2300, Mon 0400. (Hector Garcia Bojorge/Jeff White/Radio Enlace Aug 22-24/DX Listening Digest/Hauser-OK)

6045 *XEXQ* *1200-1210. XE anthem, a few bars of march music, then W with opening anmt at 1203:40. Mentioned freqs 1460am and "Seis punto zero cuatro cinco MegaHertz [sic] de la onda corta." More chat, including program lineup, to 1209, when the first classical piece was presented. Occasional good peak, but frequent signal dropouts, as noted by others. (Wilkins Aug 18/Cumbre DX/Johnson)

MONGOLIA *Mongol Radio* (domestic service) noted on reactivated freq. of 4895 kHz (distorted audio) with opening at 2100. Around 2300, I noted // 4830 kHz. No MR-2 noted on 4850 kHz between 2100-0220 UT. (Feodor Brazhnikov-RUS, WWDXC BCDX Aug 8/BCDX/Bueschel-D)

NIGERIA *Voice of Nigeria* heard in English from 2200 to 2300* UT on NF 17800. Signal was good but the audio was low, heard female with ID, into news (Ron Trotto-IL/DX Listening Digest/Hauser-OK)

PAKISTAN *Radio Pakistan*, here are my latest observations of freq changes:

0215-0300	Hindi	9350 (ex-9340) // to 11640.
0500-0700	Urdu	11570, 15100, 17755 (ex17835, 21460).
0800-1100	Urdu	17825 (ex-7835) // to 21465.
1100-1105	English	17825 (ex-7835) // to 21465.
1200-1245	Bengali	15635 (ex-15625)
1245-1315	Nepali	15635 (ex-15625)

(Jose Jacob-IND VU2JOS, DXindia Aug 11/BCDX/Bueschel-D)

PERU 4335 *Radio Nylamp*, Lambayeque, schedule 0930-1300 and 2200-0330, Aug 23, Spanish. Good signal. This shortwave Peruvian station comes back after being off the air for a long time. Previously reported on 4177 and 4299. Today I telephoned the General Manager Dr. J.J. Grandez and he told me that Radio Nylamp verifies correct reports with a QSL Letter. Address: Radio Nylamp, Av. Andres Avelino Caceres # 800, Lambayeque, Peru. Phone/Fax: 51-074 283353 (Dioses via HCDX/DSWCI DX-Window/Petersen-DEN)

RUSSIA 17705 new "*Russian International Radio*" prog via DTK (joint venture of Voice of Russia and private Russkoye Radio), popping on at 1356, Aug 24, just before published *1400. In mid-prog, upbeat format, man talking; full ID at 1400, mentioned both "Radio Kompanya Golos Rossii" and "Russkoye Mezhdunarodnoye Radio," closed at 1500*. (Bernd Trutenau-LTU in DXplorer; dswci DXW Aug 27/BCDX/Bueschel-D)

SRI LANKA 7302.5 [ex-7300.00] *SLBC* Ekala-CLN. Roland in the PHL noted this station at 1320-1420 in Hindi, best in usb. (Roland Schulze-Mangaldan Pangasinan-PHL, BC-DX Aug 3/Bueschel-D)

TAJIKISTAN *Tajik Radio* has added an English program for the domestic audience on its 2nd National Channel (1143 & 7245 kHz) at 0800-0830 (Mon-Sat). The program includes news, English lessons and pop mx. (Monitored by Alexander Polyakov-UZB). (Bernd Trutenau-LTU, DXplorer Aug 21/BCDX/Bueschel-D)

TOGO 5046.67 *Radio Togo*, Spanish mx on Saturday-night style program at 2345, closing anmt in FR at 0000, "Bonsoir madame, bonsoir mademoiselle, bonsoir monsieur" (you don't often hear that anymore), NA 0003, 0004*. Good level but tinny audio. (Jerry Berg-MA-USA, DXplorer Aug 10/BCDX/Bueschel-D)

TURKMENISTAN 4930 10/08 *Radio Bakhara*, Asqabat. At 1920 songs with drums and M singing and W presenting a program in local lang (sounds very similar to Farsi). Breaks at 1925, 1930 and 1940 with W talking and another one talking on the phone. (Marcelo Toniolo-NZL, Cumbre Aug 11)

UKRAINE From 1 September *RUI* will change 12040 kHz to 9810 kHz for its North American transmissions 2300-0400. (Alexander Yegorov—UKR, Aug 22/Bueschel-D)

UNITED STATES OF AMERICA Freq change for *Voice of America* in Russian: 1700-1900 NF 11935, ex 11770 to avoid Voice of Nigeria in French (Observer-BUL)

AFRTS broadcasts via US Navy transmitters, all in USB:

Diego Garcia	12579D/4319N
Guam	13362D/5765N
Keflavik, Iceland	13855D&N
Key West, FL	12133.5 and 5446.5 D&N
Pearl Harbor, HI	10320D/6350N
Roosevelt Roads, PR	7507D&N

D=daytime, N=night time [probably meaning day or night in coverage area?—AQ]

(AFRTS website, July 24/BCDX/Bueschel-D)

UZBEKISTAN Foreign stations relayed via Tashkent A03

5945	1430-1530	<i>Bible Voice Broadcasting</i>
7430	1500-1530	<i>BBC</i>
9445	1115-1630	<i>TWR</i>
9445	2315-0200	<i>TWR</i>
9530	1700-1800	<i>RFI</i>
9865	1330-1445	<i>RNW</i>
11850	0100-0400	<i>Voice International</i>
12065	1330-1425	<i>RNW</i>
12065	1430-1600	<i>Vatican Radio</i>
12075	1430-1625	<i>RNW</i>
13630	0500-0800	<i>Voice International</i>
13745	0100-0130	<i>BBC</i>
17540	0100-0200	<i>Hmong Lao Radio</i> (Fri only)
17540	0200-0330	<i>Bible Voice Bcing</i>
17695	1200-1230	<i>R. Vlaanderen Int.</i>
21780	0800-0830	<i>BBC</i>

13 mb* 21560 1215-1300 *Voice Of Tibet*

25 mb* 12100 1430-1515 *Voice Of Tibet*

*various freqs changed to avoid jamming. (Nikolai Rudnev-RUS)

ALL OVER THE PLACE Bible Voice Broadcasting (former Voice Of Hope and High Adventure Ministries) consolidated sked, revised August 4:

0030-0100	Bengali	7210
0200-0230	Hindi	9610
0200-0245	English	17540 Sa
0230-0300	English	17540 Su
0230-0300	English	11805 Sa/Su
0245-0300	English/Fr	17540 Sa
0300-0330	Hindi	17540 Su
0500-0530	Arabic	13840 Mo-Fr
0845-1015	Arabic	17595 Fr
1130-1145	English/Fr	13590 Fr
1130-1200	English	13590 Th/Sa/Su
1145-1200	English	13590 Mo-Fr
1200-1215	Vietnamese	13590 Mo/Th-Su
1200-1245	Vietnamese	13590 Tu/We
1215-1230	Cantonese	13590 Th-Su
1215-1245	English	13590 Mo
1400-1430	Vietnamese	5945 Sa
1430-1500	English	5945 Sa
1515-1800	English	15680 Sa/Su
1530-1545	Hindi	17655 We
1530-1600	English	17655 Mo/Th/Fr
1530-1600	Urdu	17655 Tu
1530-1700	English	15680 Mo/Tu
1530-1715	English	15680 Th
1530-1800	English	15680 We/Fr
1545-1600	English	17655 We
1600-1615	Hindi	17655 Mo-Fr
1615-1730	Arabic	15750 Mo-Fr
1630-1700	Amharic	13810 Tu/Fr-Su
1630-1730	Amharic	13810 Mo/We/Th
1700-1715	Arabic	17660 Mo-Fr
1700-1730	Tigringa	13810 Tu
1700-1745	Russian	15680 Tu
1700-1800	English	15750 Sa/Su
1800-1815	English	5970 Mo-Fr
1800-1815	English	13845 Sa
1800-1830	English	5970 Su
1800-1900	English	5970 Sa
1800-1900	Farsi	13845 Su
1815-1830	English/Fr	5970 Tu
1815-1830	Russian	5970 Mo/We-Fr
1815-1900	Farsi	13845 Sa
1830-1845	English	5970 Tu/We-Fr
1830-1900	Russian	5970 Su
1900-1915	English	13725 Mo-Th
1900-1930	Arabic	13710 Th
1900-1930	English	13725 Fr/Su
1900-1930	English	5970 Su
1900-2000	English	13725 Sa
1900-2000	English	13710 Fr-Su

(Bible Voice Website, www.biblevoice.org, via Alokesh Gupta-IND)



Pirate Radio Report

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

Are You Hungry For Pirate Radio?

Well, NASWA Member and neighbor of Mt. Kisco's most notorious Winterfest Attendee [Bozo] was in the country of Hungary this past July and heard lot's of pirate radio from the USA. Here's what George Maroti had to report:

"My usual listening time was 0230-0330 UTC (0430-0530 local time). Before anyone thinks I'm that dedicated a DXer to be waking at dawn while on vacation, the dogs at the neighboring houses all barked at that hour when a neighbor left for work in the morning. Listening at dawn was one key to my success. In addition to some dawn enhancement of propagation, there were relatively low noise levels, probably aided by the lack of any rain or thunderstorms in Europe. Another contributing factor was the high elevation of my location, overlooking the entire city of Pécs, with a clear view to the western horizon.

6955U, Captain Ron Shortwave, June 29, 2003, 0336-0402*, SINPO 23232

6955AM, UNID, July 4, 2003, 0250-0335, 22322

6950U, Grasscutter Radio, July 5, 2003, 0314-0343, 23332 (80 watts)

6950U, Undercover Radio, July 6, 2003, 0407-0409, 14321 (100 watts)

6955.1AM, WMPR, July 8, 2003, 0136-0212*, 23332

6950U, Grasscutter Radio, July 10, 2003, 0252-0317, 24432

6950U, Sunshine Radio, July 12, 2003, 0332-0341, 14431

6925AM, WHYP, July 13, 2003, 0102-0120, 13331

6925AM, WHYP, July 14, 2003, 0222-0242, 23432

6955U, Sunshine Radio, July 14, 2003, 0244-0313, 22432

6949.9AM, Captain Morgan, July 15, 2003, 0120-0145*, 23432

6955.1AM, WMPR, July 15, 2003, 0301-0310, 13331

Thanks George. It is surprising that US stations don't get more reception reports from Europe.

Loggings

Thanks to the following fine reporters: Scott Barbour-NH, Rich D'Angelo-PA, George Maroti-NY, and Joe Wood-TN

Big Thunder Radio was noted on 6950 kHz² SSB on August 15th from 0412-0157* with a SINPO of 24211. Big Thunder Radio with live versions of Jimi Hendrix and Country Joe McDonald. IDs as "We're Big Thunder Radio." Poor Propagation and QRN made reception difficult. [Wood-TN].

Grasscutter Radio, the "Yeah Mannnn" of pirates, was logged on 6925 kHz from 0232-0248* on Aug 7th, playing lots of Jimi Hendrix material, frequent IDs and mentioned www.frn.net website. Fair. Also at 0315-0322* Aug 8th, again playing Jimi Hendrix music, IDs and mentioned www.frn.net website. Fair. [D'Angelo-PA]

KIPM The Illumati Prima Materia station was logged on 6925 kHz in the USB mode from 0416-0435 on August 2nd. Usual booming KIPM signal featuring the episode "Alan Maxwell's Talking Mushroom", Elkorn drop. QSLs for PO reports **only!** and contact info at "homepage.mac.com/KIPM" and request for listener correspondence at s/off. [Bar-

bour-NH] You might try the email address of chevyorange@mac.com as well.

KROW an apparent new station was heard on 6950 kHz SSB on August 15th from *0200-0230. This was my first log of this station. Poor propagation and static made it almost unreadable most of the broadcast. I did hear several IDs as "K-R-O-W" the IDs were repeated several times during each cycle. [Wood-TN].

Radio Cochiguaz, the South American pirate was noted on 11430 USB from 0257-0336 on July 27th I tuned in to hear El Condor Pasa on flutes before ID by man: "Este es Radio Cochiguaz." After some more Spanish talk, Jolly Roger Radio International program in English began. Frequent IDs and music. Poor to fair with deep fades. [D'Angelo-PA]

Until next month, Happy Pirate DX! 


On the Short Waves Update by Jerry Berg

<www.ontheshortwaves.com> Update, July 22, 2003—Under "Information for Collectors," we have added some new information about early editions of "How to Listen to the World," thanks to Ken Loh in California. It is incorporated in the HTL table. Does anyone out there have an HTL circa 1952-1953 marked the "4th edition"?

<www.ontheshortwaves.com> Update, July 24, 2003—Under "Articles, Research, etc.," "Pot Pourri," a 1929 article about the shortwave broadcasting stations of the world, their times and frequencies. It also included a world time chart. This is the first of several such articles that appeared in the magazine Radio Design, the house organ of the Pilot Radio and Tube Corp., Brooklyn manufacturer of the "Wasp" series of shortwave receivers. We will present more from Radio Design in the future.

<www.ontheshortwaves.com> Update, August 1, 2003—Under "CPRV," "QSL Gallery," some interesting U.S. medium wave additions: KGBU, Ketchikan, Alaska, 1933; W6XAI, Bakersfield, California, 1935; KGEK, Yuma, Colorado, 1933; WIOD, "Wonderful Isle of Dreams," Miami Beach, Florida, 1930 (they were also on shortwave as W4XB); WSUN, St. Petersburg, Florida, 1930; KMA, Shenandoah, Iowa, 1931; WKAA, Cedar Rapids, Iowa, 1924; WCFL, Downers Grove, Illinois, 1940 (also on SW as W9XAA); WEDC, Chicago, Illinois, 1932; WJJD, Chicago, Illinois; WBBZ/9WS (amateur), Indianapolis, Indiana, 1924; WIBW, Topeka, Kansas, 1940; and WEBR, Buffalo, New York, 1930. These are from the collections of Eugene Allen, John Tweedie, A. Mankoff, Bill Prater, and Warren Routzahn.

<www.ontheshortwaves.com> Update, August 10, 2003—Under "Articles, Research, etc.," "Philately," four Australian stamps issued on June 13, 1991 and commemorating the "Golden days of Radio." The stamps depict "talent quests and variety," serials, quiz shows and children's programs, and are affixed to specially designed maxi cards (stamp affixed to specially designed postcard, plus cancellation).

<www.ontheshortwaves.com> Update, August 23, 2003—Under "Articles, Research, etc.," "Pot Pourri," another review of SW logs from the Pilot Radio & Tube Corp. house organ, Radio Design, this time the Spring 1930 issue. Actually, the heart of these logs is a reprint of part of the February 10, 1930 issue of the bulletin of the International Short Wave Club of Klondyke, Ohio. There is an introductory feature about the club, including a photo of the club's founder, Arthur J. Green. For the definitive history of the ISWC, see George Zeller's article, The Founding of the International Short Wave Club in Klondyke, Ohio, the second entry (from the bottom) under "Full-Text Articles." 

QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010

RADIO IMPERIAL

ONDA CORTE



Oforgue el siguiente certificado a

SCOTT R BARBOUR JR.

In reconocimiento a su fiel sintonía de nuestras emisiones radiales que son transmitidas diariamente a nuestros hermitas en el mundo entero escuchando la palabra viva.

Porque han de decir: ¡Locuciones!

¿Dónde está tu Dios?

Nuestro Dios está en los cielos!

Ha hecho todo lo que a nosotros

Salmo 117-23

Tel. 151-5377 Fax 150-0189

ALASKA: KNLS 11765 f/d cd.
"Limited Edition #38 of 200 - Alaska Tufted Puffins" in 49 ds. Also rcvd. newsltr., pennant and a personal letter. (Weissborn-TX).

ANGOLA: Radio Nacional de Angola 4950 f/d cd. in 2 mo. for a compact disc of my reception & \$1.00. Reply was rcvd. via registered mail. (Dybka-TN)...Verie nice reply...Sam.

ARMENIA: Voice of Armenia 9960 f/d pink "Logo" cd w/ form ltr., schedule and 2 "2003 Armenakob RTV" pocket calendars in 98 ds. for 1 IRC.

The QSL cd. was different from their previous cds. This one celebrates 1400 years of Christianity. (Barbour-NH).

AUSTRIA: FEBA Radio 9465 via Moosbrunn n/d "good to know you were able * to listen" e-mail reply from Angela Brooke, Supporter Relations in the UK in 1 day. The next day I received a very nice reply from Mike

STATION NOTES: Voice of Indonesia 11785 v/s Amy Ais-
va. Addr: P.O. Box 1157, Jakarta. **Galei Zahal Is-**
real Army Radio 15785 Addr: Military Post Office
1005, Zahal, Israel. **European Music Radio 13840**
via **IRRS NEXUS** Addr: Casella Postale 10980, IT-
20110 Milano, Italy. **Radio Marabu 3985** via
IRRS Nexus Addr: Post Fach 1106, DE-49187 Be-
lm, Germany. **YLE Finland Relay Kymenlaakson**
Radio 11755 Addr: PL-192, FIN-45101 Kouvola, Finland. **YLE Finland Re-**
lay Tampereen Radio 11755 Addr: Vuolteenkatu 20, FIN-33100 Tampere,
Finland. **YLE Finland Relay Oulu Radio 11755** Addr: PL-277, FIN-90101,
Oulu, Finland.....via PLAY DX.....Sam.



Procter, Head of Specialized English in Cyprus. He provided a confirmation statement including mentioning that the broadcast was relayed

4,800 KCSTel banda de 60 metros y 102.1 FM

QSL

TGMI Radio Buenas Nuevas San Sebastián H. 13020 Huehuetenango, Guatemala C.A.

Confirma Recepción de su programación

Fecha: 27 de Diciembre 2002

Hora local: 05:50

Por: John Squiletta

De: NY ECU

Gregory David Padua



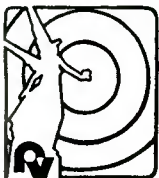
over the ORF facilities in Austria. I'm hopeful that he will become the location for QSL replies for the FEBA. (D'Angelo-PA).

MEMBERS NOTES: Wendel Craighead asks what address I used for the Radio Ecclesia QSL. It was the standard SENTECH address in Meyerton. Also the Bible Voice Broadcasting QSL came from Deutsche Telekom, I believe (I'm typing this while at work so I'm not all that sure...Sam.) Frank Pagano sent in some reports and illustrations for the Column. I haven't heard your name in years...very glad your still with us...Sam.

BRASIL: Radio Itatiaia 5970 n/d ltr. w/ stickers in 28 ds. from v/s Danielle Marques, Assessoria de Comunicacao. The station returned my \$1. (D'Angelo-PA).

BULGARIA: Radio Bulgaria 9400 f/d cd. w/ schedule in 61 ds

STATION NOTES: Radio Taipei International 12060 via Issodun, France Addr: P.O. Box 24-38, Taipei, Taiwan. NHK World Radio Japan 21730 via Moyabi, Gabon v/s Mrs. Tomoko Hanamoto, Italian Service Secretary. Bible Voice Broadcasting 13810 via DTK Julich v/s Liz Thompson, Secretary. Addr: P.O. Box 2801, East Bourne, BN21 2EQ, England. Deutsche Welle 6140 via Julich Addr: Technische Beratung, DE-50588 Colonia, Germany. Evangeliums Radio Hamburg 6015 via DTK Julich Addr: P.O. Box 920 741, D-21137 Hamburg,, via PLAY DX



RADIO VATICANA

9590 f/d cd. w/ 2 vinal pennants, 2 stickers and schedule in 18 ds. for 1 IRC and self addressed label. (Walter-VA).

CHINA, REPUBLIC OF: Radio Taipei International 5950 f/d cd. w/ schedule report forms in 32 ds. for 1 IRC and a self addressed label (not used). v/s Richard E. Woodcock. (Walter-VA)...This may of been a WYFR relay...Sam.

Certificado de Sintonía
Radio Virgen del Carmen
PERU

Estimado Sr. John Sgrulletta:

Muchas gracias por su informe de recepción. Tenemos el gusto de confirmar su control de nuestra emisión en 4885 kHz de fecha 26/02/2003 a las 5:41 horas de PERU con 3.000 vatios de potencia.



Perú, Lima, 07 Marzo 2003
firm

+ Bishop Dermott Molloy
self official



Asoc. Relig. "Radio D. Virgen del Carmen de Ylbarroca"
Plaza Bolognesi N° 142 Huancavelica - Perú
Teléfax: (067) 751257 - Teléfono: (01)96315361
jlopez_alvarado@hotmail.com
99.1 F.M.
1380 KHz A.M.
4885 KHz S.W.

Apreciado John L. Sgrulletta.

Me encanto mucho su carta, su postal y demás envíos agradezco mucho su gentileza que ha tenido con nosotros de enviarnos su informe de recepción de Radio Virgen del Carmen- desde Huancavelica Perú.

Estamos enviando su Certificado firmado por quien le escribe: José López Alvarado Director General de Radio Virgen del Carmen y por Monsenor William Molloy Mc'Dermott Obispo de la Diócesis de Huancavelica y presidente de Radio Virgen del Carmen.

Le comento que Padre Samuel no esta ya en la Gerencia de esta Emisora. Quien lo ha asumido soy yo José López desde el año 2001, y desde entonces es una Radio Católica que se dedica a la evangelización en los Andes Peruanos: Huancavelica, ubicada a unos 3680 metros sobre el nivel del mar, aquí hace mucho frío (is very cold). Es uno de los lugares de Perú mas altos y fríos. Aquí envío esta postal mostrando el tipo de gente que vive aquí, esto se muestra Huancavelica.

Asimismo le comento que nuestra actual dirección es: Plaza Bolognesi N° 142 Cercado- Huancavelica- Perú. Teléfax: 011-51-67-751257. Email: jlopez_alvarado@hotmail.com Frecuencias: ooda corta 4885 KHz: banda de 60 metros.

Un abrazo muy grande desde los riscos mas altos de Perú- y un saludo a toda su familia allí en U.S.A.

Goodbye my friend.

I pray for you.

Gentilmente,
Jose Lopez Alvarado

José López Alvarado - Director de Radio Virgen del Carmen

for an EG rpt., 1 IRC and SASE (used). (Walter-VA).
CANADA: Radio Canada International 15170 via Sackville f/d "Transmitters" cd. in 34 ds. for a SP rpt. Also rcvd. a mini-flag, sticker, schedule and a personal note asking me to do an air interview in SP w/ Beatriz Gomez's program. (Weissborn-TX). 9755 f/d "Nunavut" cd. in 18 ds w/ schedule, sticker and a station pennant. (Weissborn).

CUBA: Radio Habana Cuba 6000 f/d cd. serially marked QSL No. 1 w/ pocket calendar, ltr. w/ thanks for the IRC. Note: I tuned to RHC one night and w/in a minute I heard the announcer reading my comments about their programming! (Walter-VA).

ECUADOR: Radio EDXP 15115 via HCJB f/d "Kangaroo w/ Joey" cd. w/ site in 24 ds. for \$1.00 and a rpt. sent to the EDXP Victoria address.

v/s Bob Padula. (Barbour-NH). **HCBJ** 15115 f/d "Ulysses Butterfly" cd. in 13 ds. for a report on the "EDXP Program" v/s Bob Padula. Addr: EDXP, 404 Mont Albert Rd., Surrey Hills, VIC 3127, Australia. (Weissborn-TX). same in 23 ds. for 1 IRC. (Weissborn-TX).

ETHIOPIA: Radio Pana 6210 f/d cd. in 5 mo. for a compact disc of my reception and \$1.00. Address on the QSL said "Near Black Lion Hospital in front of the Swedish Embassy". (Dybka-TN).

GOA: All India Radio 9705 via **Panaji** f/d cd. * in 221 ds. v/s A.K. Bhatnagar, Director of Frequency Assignments. (Comeau-MA).

HOLLAND: Radio Netherlands 6165 f/d cd. in 27 ds. for 1 IRC. (Walter-VA).

JAPAN: Radio Japan 6145 f/d cd. w/ schedule and sticker in 60 ds. for 1 IRC. v/s J. Tada. (Walter-VA).

MOLDOVA: Voice of Russia 7180 via **Kishinoyov** f/d "Radio Moscow Kremlin

MEMBERS NOTES: Scott Barbour from Intervale, NH says everyone was in a state of shock when the "Old Man of the Mountain" came tumbling down.

It was a big loss for the State of NH as it's image was on everything. Scott says that he is extremely pleased with some of his recent QSLs especially those from Holy Tibet, Egypt and Gardarika. Also a few pirate QSLs have brightened up the day. He is still waiting for a reply from Nigeria, Finland and countless others... Sam-

at Night" cd. in 12 ds. after an e-mail f/up, 6 mo. after my initial rpt. (Bishop-FL).

MYANMAR: Radio Myanmar 4725 and 5040 n/d ltr. in 177 ds. for 1 IRC. v/s Ko Ko

Htway. Addr: Union of Myanmar, Ministry of Information, Myanmar Radio and Television, Pyay Rd., Yangon, Myanmar. (Comeau-MA).

PUERTO RICO: Armed Forces Radio and Television 5446.5 The station QSLed my e-mail rpt. w/ a word attachment in 1 day from April Ball, Broadcast Operations Specialist indicating "The signal originates from Naval Computer and Telecommunications Area Station, Roosevelt Roads, Puerto Rico." My report was consistent w/ published rpts. that initially put this frequency as coming from the Florida Keys so their reply is somewhat confusing. (D'Angelo-PA).

RUSSIA: Voice of Russia

9665 f/d cd. in 34 ds. for 1 IRC. v/s Ms. Olga Troshina. (Walter).


SEWDEN: Radio Sweden

17840 f/d cd. w/ schedule in 7 ds.

MEDIA CORP
Radio



Radio Singapore International



3WJ 9330 kHz
1920 kHz

Test

Romans 3:23- "For all have sinned, and come short of the glory of God."

Romans 6:23- "For the wages of sin is death; but the gift of God is eternal life through Jesus Christ our Lord."

Romans 5:8- "But God commended his love toward us, in that, while we were yet sinners, Christ died for us."

Romans 10:9,10- "That if thou shalt confess with thy mouth the Lord Jesus, and shalt believe in thine heart that God hath raised him from the dead, thou shalt be saved. For with the heart man believeth unto righteousness; and with the mouth confession is made unto salvation."

Romans 10:13- "For whosoever shall call upon the name of the Lord shall be saved."

Thanks for your reception report which was found to be correct.

Date: *7 Mar 114-1130*
9 Mar 052-0530 Time: *0414-0430* Signed: *L.F. Bendick*

RADIO FREE VIETNAM

(Washington, D.C.)

P.O. Box 29245, New Orleans, LA 70189 - USA
Tel: (504) 254-2304 * Toll free: (866) 254-2303 * Cell: (504) 258-8044 * Fax: (504) 254-2305
e-mail: rfv@aol.com or rfv@bigfoot.com

Dear Mr. Scott R. Barbour (P.O. Box 893, Intervale, NH 03845):
Thank you for your Reception Report. We are pleased to verify your reception of our station, according to the following details:

Date: Friday, January 10, 2003
Time: 1230-1300 UTC
Frequency: 9,930 kHz - 31 meter band



Official Seal

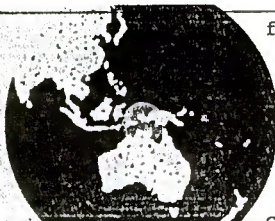
Vương Kỳ Sơn
Vương Kỳ Sơn
(Director in Chief)



radio
australia

your
asia-pacific
network

abc.net.au/ra



for a rpt. sent to the station via the internet. (Walter-VA).

SWITZERLAND: Swiss Radio International 11905 f/d cd. w/ schedule and sticker and a note that the transmission was from the **Montinsery** site in French Guiana. This was in 53 ds.

for 1 IRC and a label (not used). (Walter-VA).

THAILAND: BBC East Asia Relay Station f/d "Antenna Farm" cd. in 24 ds. for \$1.00. v/s Mr. Eakkalak K. Addr: P.O. Box 20, Muang, Nakhon Sawan 60000, Thailand. (Bishop-FL). **Voice of America** 12015 via **Udorn** f/d "Sao Tome" cd. in 154 ds. (Comeau-MA).

UNITED ARAB EMIRATES: Radio Japan 5970 via **Dhab-baya** f/d "Fireworks Display" cd. in 111 ds. for 1 IRC after a f/up rpt. v/s T. Sato. The freq. I heard was one of many additional ones added during Operation Iraqi Freedom for Japanese citizens in the Gulf Area. Very pleased with this one. (Barbour-NH).

STATION NOTES: Radio La Hora 4855.6 v/s DXer Carlos Gamarra Moscoso Director Programa Deportivo. Addr: Avenida Garcilaso 411, Wanchaq,

Cusco, Peru. Radio Huanta 2000 4746.5 v/s Ramiro Velapattino Marca, Jefe de la Programacion. Addr: Jiron Gervasio Santillana 455, Huanta, Peru. **Radio Paucartambo** 6520 v/s Roberto Castelo Melo, Director. **Radio San Antonio de Padua** 3375 v/s Padre Rolando A. Del Carpio Montalvo, Director. Addr: Apartado Postal 1817, Callalli, Caylloma, Arequipa, Peru. **Radio San Antonio** 4940 v/s Juan Lopez Encina, Director. Addr:

Calle Iquitos 499, Villa Atalaya, Ucayali, Peru. **Radio San Miguel de Pallaques** 5500.2 v/s Jose Cabanillas Luna, Journalista and Inerso Cruzado Diaz, Station Director. Addr: Jiron Alfonso Ugarte 668, San Miguel de Pallaques, Cajamarca, Peru.Via PLAY DX....Sam.

USA: WWV 15000 f/d cd. w/ serial no. 29539 in 41 ds. for label (not used). v/s John B. Milton, Engineer in Charge. (Walter-VA). **WINB World International Broadcasters** 13570 f/d cd. in 12 ds. for ms. v/s Fred W. Wise (Walter-VA). f/d "American Flag" cd. in 35 ds. (Weissborn-TX). **WYFR** 11830 f/d cd. w/ schedule and sticker in 18 ds. (Walter-VA). **WTJS** 9370 f/d cd. w/ sticker

DeutschlandRadio Berlin
Deutscher Rundfunk
1.0000 Berlin

Datum 20 JUNI 2003

DeutschlandRadio
bericht und bestätigen Ihnen gern
zwei Programme
des weltweiten Sendernetzes
von Radio Berlin
Deutschlandfunk

am 13.05.2003

um (UTC) 00:08 - 00:38

auf 6190 kHz

6190kHz = 6kW!!

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中国 国际 广播电台

Beijing, 17-1-83

Sr. Heang Weissborn
G.E.W.

De nuestra consideración:

Nos recibimos su último informe de recepción. Le agradecemos mucho su atención a nuestras transmisiones y esperamos que usted continúe mandándonos sus informes ya que ellos nos ayudan a conocer las condiciones de audición de nuestras transmisiones en su país.

Para nosotros también sería un gran placer recibir correspondencia suya informándonos sobre qué programas nuestros le gustan más, qué aspectos de China le gustaría conocer a través de nuestras transmisiones. Le quedaremos muy agradecidos.

Estamos seguros de que a través de sus informes de recepción y de sus cartas podremos reforzar la amistad que ya existe entre usted y nuestra sección.

Cordialmente

Sección de español



in 35 ds. for ms.(used). v/s A. Robinson.(Bishop-FL). **WBCO** 5100 f/d "The Planet" cd. in 13 ds. for SASE (used).(Barbour-NH). **KTBN** 15590 f/d cd. in 86 ds. for \$1.00.(Comeau-MA).

Voice of America 6130 no QSL but I rcvd. their program guide supplement in 27 ds. for ms.(Walter-VA).

USA (Pirates): The Voice of Captain Ron Shortwave 6925 e-mail QSL in 2 ds. indicating that a postal reply would be coming one day. First QSL in several wks. so I'll take it.(D'Angelo-PA). **Ragnar Radio** 6925 f/d cd. in 1 wk. for a posting on the frn.net.(Dybka-TN). **Undercover Radio** 6925 rcvd. 2 CD's and 2 f/d full color, well prepared QSLs in 20 ds. for 2 separate e-mail rpts. to undercovererradio@mail.com. (Wood-TN). **WMPR** 6955

STATION NOTES: Radio Imperial 17835.2 v/s Nubia Ericka Garcia, Directora. **All India Radio** 5010 via **Thiruvananthapuram** v/s Mr. Radha Krishna Menon, Station Engineer. **Radio Oriente** 6188 v/s Geovanni Accate Coronel, Director. Addr.



Vicariato Apostolico de Yurimaguas, Progreso 112, Yurimaguas, Distrito de Yurimaguas, Provincia de Alto Amazonas, Region Loreto, Peru. **All India Radio** 5040 via **Jeyapore** v/s A. Chantibabu, Assistant Station Engineer...via PLAY DX...Sam.

QSL
Certificado de Sintonía

Emisora RADIO ORIENTAL

Para JOHN L. SCOTT/VA

Muchas gracias por su informe de recepción. Tenemos el gusto de confirmar su control de nuestra emisión en 4780 kHz. de fecha 2 enero del 2002 a las 05.44-06.32 horas de Ecuador con 5000 vatios de potencia.



X X
firma

f/d "Dance Party Robot Monster" QSL sheet in 212 ds. for a rpt. posted on FRN or the FRW newsltr.(Barbour-NH).

VATICAN: Radio Vatican 9605 f/d cd. w/ schedule and sticker in 36 ds. for 1 IRC.(walter-VA). 7305 p/d cd. in 25 ds. w/ schedule and sticker.(Weissborn).

VIETNAM: Voice of Vietnam 6175 f/d cd. w/ schedule w/ pic of Emperor Le Thai To statue in 48 ds. for 1 IRC.(Walter-VA).

ZAMBIA: ZNBC p/d cd. in 4 mo. for a compact disc of my reception and ms. (used). (Dybka-TN).

I guess I'll end the QSL Column at this point. Besides handling a few law suits for the Town, running the office, selling my 12 room Colonial and

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and possibly buying a log cabin, cleaning and packing 300 or more boxes and my daughter giving birth to a boy, I managed to get a few pages done. Best of QSLing...Sam.

Contributors' Page

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

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Scott BARBOUR, Intervale, NH ATS 818, RS antenna system

Jerry BERG, Lexington, MA R8A 165' LW

Rich D'ANGELO, Wyomissing, PA Drake R8B, Lowe HF-150, DX Sloper

Kris FIELD, Horsham, PA Drake R8, long wire

William McGUIRE, Cheverly, MD DX-380

Bob MONTGOMERY, Levittown, PA NRD535D, R390A, HF150, SE3, active antenna

Mike PACE, Tipton, IA Drake SW2, MFJ1022

Sheryl PASZKIEWICZ, Manitowoc, WI R8, ICF2010, NRD525, 60' Eavesdropper

Chris WALTER, Pembroke, VA ATS818, 7 mtr reel up wire

Robert WILKNER, Pompano Beach, FL NRD535D, R75, Drake R7, 10 mtr ground wire

Joe WOOD, Gray, TN DX-390, Grundig Mini 100 PE, whip antenna

Also contributing were Boy Scouts from Troop 3, Cedarlands Boy Scout Camp in the Adirondacks as follows:

Kris FIELD, Scoutmaster

Corey BOYLE

Brian CROSS

Dan FIELD

Teague KELLY

Will WOJIK

This was one short summer. But time to give the antennas a check and get ready for the DX season to begin.

The number of contributors has fallen off. The *Journal* can only be as good as its contributors. I would have to think if I were paying for a years membership I would want to be counted as one of its active members. It only takes a few minutes to prepare a report, one, two logs or more would be appreciated, but be among the counted and contribute.

My hat is off to a guy that every summer, braves the bad weather, bugs and the usual hardships of tent camping to teach a few young people about shortwave radio. Hopefully Kris will spark a little interest to pass on a great hobby.

Have a great DX season

73

Bob Montgomery



Tropical Band Loggings

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

- 3172.80 **PERU R. Municipal** Panoa seemingly to OA with Andean mx 0000, 0020-0033 (Wilkner-FL)
- 3235 **BRAZIL R. Clube** Marilia 0339-0404, 8/8, PP, re-activated Brazilian presumed here with pop ballads, quick jingles b/w mx. No ID at ToH. Very noisy! (Barbour-NH)
- 3235.05 **BRAZIL R. Clube** 0058-0145 8/19 M anc mentioned Marilia in PP. Lots of station promos at top of hour. Then on to mx pgm. Recheck at 0130 and signal level the same but quality has diminished. Playing various Latin tunes. A few static crashes. (Montgomery, PA)
- 3240 **SWAZILAND TWR** *0300-0310 7/16 EE/Vern. IS, EE ID, "This is Trans World Radio", then M in Vern w/same over mx, continuous rel tlks until signal lost under slop at 0310. Poor. (Barbour-NH)
- 3240 **SWAZILAND TWR** 0346* 8/21 chorus in vernacular interrupted by M w/s/off anmts, Diff. M w/ID, IS at s/off. Fair. (Barbour-NH)
- 3240 **SWAZILAND Trans World Radio** *0257-0306 8/4, IS w/M ID: "This is Trans World Radio, Swaziland." Opened into rel pgm in unid language. Weak. (D'Angelo-PA)
- 3255 **SOUTH AFRICA BBC** Meyerton 0335-0353 8/9 M&W in heavily accented EE w/rpt on Liberia. Poor. Initially tuned //7120 (also Meyerton) thinking it may be something exotic, then checked this frequency to confirm it was "only" the BBC. Fair level. (D'Angelo-PA)
- 3255 **SOUTH AFRICA BBCWS** Meyerton 0358-0409 7/06; tlks and ID at ToH, nx headlines and nx in detail re Liberia, conjoined twins in Singapore, Blair vs. BBC and Wimbledon. Rough copy w/lots of prop. QRN. (Barbour-NH)
- 3290 **GUYANA VO Guyana** 0348-0402 8/21, EE, M w/tlk re "...returning at (0900?) GMT", positive ID, "This is the Voice of Guyana", instl mx to 0355, nx bulletin w/ments. Israel, Palestine and Islamic Jihad, pips at 0400 into BBCWS relay w/a big drop in already poor audio quality. Poor under static crashes. (Barbour-NH)
- 3291 **GUYANA** (pres) **BBCWS** relay 0512-0524 8/10, EE, Live orchestra concert, applause, M w/tlk re mx, "...conducted by...". Weak under QRN. (Barbour-NH)
- 3300 **GUATEMALA R. Cultural** 0247 7/30 SS rel mx, full ID. Very Good! (Barbour-NH) (p). 0126-0205 7/27 M w/call ins. Polka and Mariachi inspired mx. No ID at TOH or BOH. Fair with static. (Wood, TN)
- 3320 **SOUTH AFRICA R. SonderGrense** 0016-0044 8/19 very clear reception. 0015 Enya tune, Sail Away. S9 signal level with some fades. But very good reception. Then to more US pop tunes after male announcer with intros in Afrikaans language. Then to long talks at 0020. Some static crashes but fairly nice. (Montgomery, PA) 0412-0423, 7/06 M in Afrikaans, brief breaks for piano instls. Poor w/ ute QRM. (Barbour-NH)
- 3325 **NIGERIA** (pres) **R. Nigeria** Lagos 0525 8/10 Vern, Continuous tlk by M in local lang. Audible tho too much noise for any readable copy. (Barbour-NH)
- 3326 **NIGERIA R Nigeria** 0430 7/30 unfamiliar IS, W anmts (Paszkiwicz-WI)
- 3350 **COSTA RICA REE** 0450-0455 8/23 M w/MoR SS mx. ID 0055, then flamenco mx. Good. (Wood, TN)
- 3920 **UNID** // 3940 from 1048-1053 7/20; through severe local AROs. (Wilkner-FL)
- 4052.5 **GUATEMALA Radio Verdad** 0317-0341 8/9 soft instl mx w/W SS anc ID and station information 0330. This was followed by more music. Poor to fair. (D'Angelo-PA)
- 4426.84 **PERU R. Bambamarca** Bambamarca with M "...Radio Bambamarca ..dia de la..." (Wilkner-FL)
- 4760 **LIBERIA ELWA Radio** *0606-0614 7/16 EE; s/on w/choral mx and long tlk by M, more mx and (p) ID at 0613, too weak to get any readable copy. Poor. (Barbour-NH)
- 4765 **BRAZIL R Integração** 0220-0233 7/31 M long talk, IDs, sound effects (Paszkiwicz-WI)
- 4765 **CONGO (REP.) R. Congo** 0552-0603 7/16 FF. (Found this one while scanning around, waiting for Liberia s/on!) End of mx, W w/"Radio Congo" ID, tlk w/several ment's. "Congo". Mx and ID at ToH, also ID as "Radio Nacional". Poor, weak and quickly faded under static. (Barbour-NH)
- 4770 **NIGERIA R. Nigeria Kaduna** (t) 0523-0532 8/23 ments of apartheid and religion. Several ments of upper house of parliament. Vy pr read. (Wood, TN.) 0532-0545 7/16 EE. Continuous pop ballads by YL, ID over mx, "This is the English service of Radio Nigeria, Kaduna", followed by an unintelligible anmt. I think this is s/on 0530 instead of usual 0430 as I have not logged this at 0430 in over a week, can anyone else verify this? I will check tonite. (Barbour-NH)
- 4800 **LESOTHO R. Lesotho** 0419-0433 8/21, Vern, M tlking w/several diff. persons, pres. phone-in prg, several ments Botswana. Poor, battle w/ "sweeper" and data bursts. (Barbour-NH)
- 4814.9 **ECUADOR Radio Buen Pastor** Saraguro, 0055-0105 7/14 SS rel sermon at t/i; ID 0100 mixing with Brazilian (Radio Difusora?). (Van Horn)

- 4845 **MAURITANIA Radio Mauritanie** 7/23 0655-0700, prayers and/or ME mx in AA. G-VG signal. (Wood, TN)
- 4876 **BOLIVIA R. La Cruz del Sur** (p) 0933-0945 7/28 SS/PP? M&W w/mx and tlks, very noisy, gradually f/out. (Barbour-NH)
- 4890 **GABON RFI** 0415 7/30 M talk, beautiful signal (Paszkievicz-WI)
- 4910 **ZAMBIA ZNBC** 0339-0403 7/26 Vern. Afr mx, lots of drums and singing, M b/w selections going thru ToH w/no ID. Booming! (Barbour-NH) 0400-0414 7/30 EE nx, ment Zambia, tribal singing, flutes, drums, ID. Great to have this one back (Paszkievicz-WI) 0405-0417 8/21, Vern, Afropop mx at t/in, presumed PSA/ad w/phone number, ments of Commision, Zambia, 20 August and a tent web address crc.zm.com. Announcer w/local time (6:14) and back to mx. Strong, clear signal. (Barbour-NH)
- 4919 **ECUADOR R. Quito** 0305-0317 7/28 SS, ballads, ID & anmts 0314. Fair w/static, sweeper QRM. (Barbour-NH)
- 4935 **BRAZIL R. Capixaba** 0002 8/2 Tentative canned ID 0003 in a jingle format. Static crashes and weak signal at S3 level. M ancw with exciting talks. Did not sound like a sports event. Then at 0010 it sounded like a preacher ranting. Recheck at 0032 and preacher still going. (Montgomery, PA)
- 4945 **BRAZIL R. Progresso** 2331-2355 8/1 ID jingle 2330 in PP; back to mx. Had been listening for a since top of hour but was not strong enough till 2330. Now at S6 with some fades. Static crashes a problem this evening. Sounded like an interview of several females. Signal much better at 2350. Still some fades but S 8 level with some very nice mx. (Montgomery, PA)
- 4950 **ANGOLA R. Nactonal** 0343-0400 7/30 talks, flute, EZL vocals, 5 TP, ID (Paszkievicz-WI)
- 4965 **ZAMBIA RCV** 2244-2255 7/16 EE. Rel mx, M w/tlk re "Left Behind: The Radio Series will be back after the nx". No nx though, more mx and testimonials and PSA's. Fair. (Barbour-NH)
- 4976 **PERU(p) BBCWS** relay via R. del Pacifico (p), 0341-0402 7/27, EE; UK sounding M&W w/pop mx prg ending 0356, minute of silence then back w/up-beat instl mx, cut-off at ToH for brief military band mx (NA?) then barely audible M w/nx. Poor and noisy w/constant het. (Barbour-NH)
- 5010 **MADAGASCAR RTV Malagasy** 0332-0341 7/27 Vern. Apparent Sunday morning rel prg. w/choral mx, organs, church bells & M w/tlks, ID. Fair/poor, noisy at times (Barbour-NH)
- 5026 **BENIN R. Diff. Benin** 2250-2301* 7/15 FF/EE. Pop ballads in FF, Elton John "Sacrifice" in EE, cut off for NA, No ID noted. Weak but in the clear. (Barbour-NH)
- 5026 **PERU R. Quillabamba** 1030-1100 w/the local Radio Rebelde off. (Wilkner-FL)
- 5030 **BURKINA FASO R. Burkina** 2334-0000* 7/15 FF. M w/pop, rap and reggae mx, tlks b/w songs, ment's of "Ouagadougou" and "Burkina Faso", ID, YL w/s/off anmt, NA? (sounded like lounge music!). Good. (Barbour-NH)
- 5039.26 **PERU R. Libertad** Junin w/ID 1030 by M. (Wilkner-FL)
- 5046.66 **TOGO R. Togo** 2331-2400 8/18 FF tune at check in. A bit of a surprise as audio has been a problem. S9 signal level with some fades. Fairly clear however. Popular US pop tune at 2336, the name escapes me. s/offw/NA 0006. Nice copy. (Montgomery, PA) 5046.67 2345-0004* 8/9 SS mx on Saturday-night style pgm; closing anmt in FR 0000, "Bonsoir madame, bonsoir made-moiselle, bonsoir monsieur" (you don't often hear that anymore), NA 0003, 0004*. Good level but tinny audio. (Berg-MA)
- 5100 **USA WBCQ** (tests) 2302-2333 7/15, EE. Chritian Media Network programming with ads for Col-loidal silver, water filters, rel prg. ment. broadcasting on "WBCQ 9335", real "fire and brimstone". Good. (Barbour-NH)
- 5446.5 **USA AFN** 1204-1225 8/3 playing heavy metal mx in usb format Signal fairly weak with noise element with it. Tentative ID at 1220 but noise level high and audio weak at ths time frame. S4 signal level. (Montgomery, PA)
- 5678 **PERU Radio Ilucan** 0150-0205* 8/2, OA vocals to a M w/SS talk and ID 0200. Another M 0202 with canned s/off anmts. No NA. Fair. Thanks to Bob Montgomery for the computer alert on this one. (D'Angelo-PA)

International Band Loggings

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

- 5950 **USA R Taipei Int** relay Okeechobee, FL in EG 0725, feature on YL's in mx, lang lesson (Walter VA)
- 6035 **COLOMBIA LV del Guaviare** in SP 0947, non-stop Latin vcls, ID, TC, fqy, tlks, f (D'Angelo PA 7/7)
- 6060 **BRAZIL R Tupi** Curitiba in PT 0610-0855, relig sermon and mx, prayer, ID/fqy ancmt w/mx jingle, //11765, ID at toh, recheck at 0745 w/resumed relig pgm monitored until 0855 (Van Horn)
- 6070 **CANADA CFRX** Toronto in EG 2105, "News Talk", ID MW CFRB, ads, promo, p (Wood TN 7/26)
- 6090 **BRAZIL R Bandeirantes** São Paulo in PT 0202-0310, long tlks, 4 pips toh, ID, futbol promo, ads, mx, good w/no sign of Caribbean Beacon usually dominating fqy (D'Angelo PA, Montgomery PA 8/2)
- 6115 **PERU R Union** Lima in SP 0746-0817, lively LA mx, fast tlking DJ, ID's, f (D'Angelo PA 7/29)
- 61351 **BRAZIL R Aparecida** in PT 0218*, long relig tlk, choir, ID, no NA at s/off, f, //9630 (D'Angelo 8/5)
- 6185 **MEXICO XEPPM** Mexico City in SP 1025, ID, nice instrum'l mx, suddenly off at 1101, listed 1 kw. but S-9+ at tune in (Montgomery 7/20) in SP 0117, nx, ID, report, jingle, promo, TC, famfare theme tune, into ranchera mx (Van Horn)
- 6200 **CZECH REPUBLIC R Prague** in CZ 0130, IS, ID, nat'l/regional nx, p (McGuire MD 7/16)
- 6210 **ETHIOPIA R Fana** Addis Ababa in Amharic *0255, OC followed by soft instrum'l mx melody for IS, ID 0301, fanfare, nx, Horn of Africa mx, f, //6940 p (D'Angelo PA 8/1, Montgomery PA 8/2)
- 6250 **EQUATORIAL GUINEA R Nacional** Malabo in SP 2300*, mx, ID, booming NA (Barbour NH 7/16)
- 7110 **ETHIOPIA R Ethiopia** Addis Ababa in Amharic *0257-0340, OC, IS 0259, brief instrum'l to opening ancmts, nx, features w/brief mx b/w items //9704 (D'Angelo 8/6, Barbour 8/13, Paszkiewicz WI 7/31)
- 7130 **SRI LANKA Deut Welle** relay in EG 0038, tlk re seal population, reduction of oil imports, sudden off at mid-sentence 0058, exc w/slight flutter (Montgomery PA 7/25)
- 7210 **BENIN R Dif** Cotonou in FR/EG/Vern 2237-2301*, end of FR radio drama at t/in, EG mx, FR/Vern ballads, s/off ancmt and "Au Revoir", NA, g-f (Barbour NH 7/30)
- 7240 **SWAZILAND TWR** relay in SH 0325, tlk, S Afr vcls by group, Christian mx, ID, IS, "Hosanna tlks, prayers, rough copy thru ham QRM, s/off 0346 after 45 xmsn (Paszkiewicz 7/31, Barbour 7/31)
- 7275 **TUNISIA RTV Tunisienne** Sfax in AR 0506, various mx sels, //7190 (Barbour NH 7/16)
- 7385 **USA WRMI** Miami, FL in EG 0630, "Intl B/Cing Corp" prgmg, Lou Gentile Show w/ tlk re Planet X and abduction by aliens, ads, website concurrent but 50 secs behind on-air pgm, WRMI ID 0700, s/off 0858, also hrd same date approx 1500 on 15725 (Berg MA 7/20)
- 7430 **SRI LANKA R Free Afghanistan** relay in Dari 2338, ID, long tlks, solid S-9 to toh (Montgomery 7/11)
- 7507nf **PUERTO RICO AFN** relay in EG 2312, USB reception, nx/info features, "Pentagon Rpt", US Network Nx", "Entertainment Report", promos, ID's, fair w/constant hiss (Barbour NH 8/13)
- 9400 **BULGARIA R Bulgaria** in FR *0100, IS, ID, fqy, sked, ment Geo Bush, g (McGuire MD 7/3)
- 9495 **CANADA R Sweden** relay in EG 0130, "Sixty Degrees North", ID, econ nx, g (McGuire 7/11)
- 9525 **INDONESIA V of Indonesia** Jakarta in Thai/CH 1016, continuous vcls until OM spoke in Thai at close of pgm 1030, into CH with nx by YL, f (D'Angelo 8/11) in IN 1300* after SE Asian ballad, nx item, ID and NA, f (Barbour NH 8/8)
- 9545 **NO MARIANAS VOA** relay Tinian in CH 1300*, nx, ID in EG, web, EG lesson (Paszkiewicz 8/17)
- 9565 **BRAZIL R Tupi** Curitiba in PT 0405, mx bridge, relig tlk, hymn, ment Brazil (Paszkiewicz WI 8/1)
- 9580 **GABON Afrique No. 1** Moyabi in FR/EG 2218, nx, field rpts re Congo, ID, Afropop/reggae w/intro "Come join our struggle", FR version of Sinatra's "My Way", exc (Barbour NH 7/16)
- 9605 **VATICAN CITY Vatican Radio** in EG 0250, flute mx, gospel readings, relig mx, IS (Walter VA)
- 9665 **MOLDAVIA V of Russia** relay in EG 0200-0230, nx re Putin's visit to UK, Iraq, Chechnya elections, SARS disease, sports (Walter VA)
- 9680 **INDONESIA RRI** Jakarta in IN 1213-1232, nx, field rpts, solid ID, f (Barbour NH 7/3)
- 9690 **SPAIN China R Int** relay in EG 0300, IS, ID, national nx, rpt on No Korea, g (McGuire MD 7/3)
- 9720 **TUNISIA R Tunis** Sfax in AR 0253, tlks, European classical mx, //12005 (Paszkiewicz WI 7/31)
- 9725 **RUSSIA V of Russia** relay Armavir in EG *0100, IS, NA, ID, rpt on Israel, g (McGuire MD 7/1)
- 9725 **BRAZIL R Clube Paranaense** Curitiba in PT 0905, morning regional ancmts, ID, f (Van Horn)
- 9750 **SEYCHELLES BBC** relay in EG *0159, IS (bells), ID, pips, nx, The World Today, f (D'Angelo 8/7)
- 9750 **MALAYSIA V of Malaysia** Kajang in IN 1026, mx, tlks, ID "Saura Malaysia", nx re Sri Lanka, Sharon, Washington DC, fair w/underneath QRM (Barbour NH 7/28) Txn to Bernd Trutenau for tip

- 97804 **YEMEN** *Yemen RTV Corp* Sanaa in AR *0305, Mideast vcl sel, tlk, ID 0328, drama (D'Angelo 8/11)
- 9820 **CUBA** *RHC* Havana in EG 0541, Caribbean nx, Iraq war, cmntry on US meddling (Walter VA 7/15)
- 9990 **EGYPT** *R Cairo* in EG 2234, pop mx, s/off ancmts 2240, NA, wonder of wonders the audio is crystal clear, no hum, no overmodulation, booming signal (Montgomery PA 8/3)
- 10330 **INDIA** *AIR* Delhi in HD *0020-0235+, mx opening 0023, ID, ancmts, mx followed by 5+1 pips 0030, nx, pgm of mx hosted by YL ancr, good signal to 0230, then fair (D'Angelo PA 7/29)
- 11680v **NORTH KOREA** *KCBS* Kannye in KR 1320, patriotic ballads, f/o under QRN 1330 (Barbour 8/8)
- 11720 **NETHERLAND ANTILLES** *R Nederlands* relay Bonaire in SP 0004, joint R Canada/RNW program "Radio Cartas", banter, tlks re internet and Mundo Radial, mx, vg (Barbour NH 7/23)
- 11730 **RUSSIA** *V of Russia* relay via Khabarovsk in RS 1440, nx re Poland and America, mx, s/off ancmts over instrum'l mx, co-chan Tunisia audible after 1500 s/off, f (Barbour 7/23)
- 11750nf **AUSTRALIA** *HCJB Australia* Kunnunara in EG 1117, relig pgm "Truth for Life", ancmt re new sked, change to new pgm at 1130, f-p (Barbour 7/25)
- 11765 **BRAZIL** *R Tupi* Curitiba in PT 0756, OM w/talk, ID, fqy toh, YL vcl, relig tlk, QRM from BBG relay Ascension Island until 0800 (D'Angelo PA 7/29)
- 11785 **MOROCCO** *R Sawa* relay via VOA xmtrs in AR 0230-0300*, AR and US pop mx, ad, website, ID's, nx ment Colin Powell, clever that Sawa is on Baghdad's former fqy (Paszkievicz WI 8/5)
- 11920 **IRAN** *VOIRI* Sirjan in EG *0030, ID, NA, fqy, sked, Koran readings, g (McGuire MD 7/3)
- 11950 **UNITED ARAB EMIRATES** *R Dubai* in AR 1942, AR pops, listener phone-in segment w/breaks for mx continuing past toh, f, //13675 g (Barbour NH 7/23)
- 12040 **UKRAINE** *RUI* in EG *0300, IS, ID, "Ukraine Today", g (McGuire MD 7/11) in EG 0033, feature on Peace Corps activities in Ukraine, Ukraine entering NATO, cultural pgm (Walter VA)
- 12060 **RUSSIA** *V of Mediterranean* relay via Moscow in EG 1937, "VOM News" re Malta's entry into EU, OM announcer's rapid fire delivery made listening difficult, fair w/fades (Barbour NH 7/15)
- 13590 **RUSSIA** *Bible Voice Beacon* relay via Novosibirsk relay in EG/CH 1137, bible reading, YL w/CH translation, full ID 1149, pgm w/Joyce Meyers, f-p (Barbour NH 7/25)
- 13685 **AUSTRALIA** *Christian Voice Int* via Darwin in EG 1130, rap mx at t/in, ID as The Planet 30, more pop mx, S-9 signal w/deep rapid fades down to S-5 (Montgomery PA 7/13)
- 13845 **USA** *World University Network* Nashville, TN in EG 1515, sermon by Dr. Gene Scott (Pace IA 7/20)
- 13855usb **ICELAND** *AFN* relay via Keflavik in EG 1220, tlk re Nigeria, Iraq, and weapons of mass destruction, weak but audible but better by 1245 (Montgomery PA 7/13) in EG 2244-2335, interview w/Donald Rumsfeld, two PSA's, ID toh, AP Network News, CNN Radio Update, p-f (D'Angelo PA 7/13)
- 15065 **PAKISTAN** *R Pakistan* Islamabad in Urdu 1355, Mideast mx at t/in, pips, ID, nx(p) w/several ments Pakistan, gradual fade out under QRN by 1412 (Barbour NH 8/15)
- 15150 **INDONESIA** *V of Indonesia* Jakarta in FR 1904, nx re George Bush and Botswana, mx sels w/some nice "island" mx, ID 1920, f (Barbour 7/15) in EG 2028-2106*, ID, E-mail addr, pgm preview, Indo vocals, travelogue, nx 2055, close down ancmts 2103, fair and steady signal (D'Angelo PA 8/10)
- 15155 **INDIA** *AIR* Aligarh in EG 1925, Hindi mx, ID, sked for Africa, cmntry, f (Barbour NH 7/15)
- 15160 **PHILIPPINES** *VOA* relay in EG 1257, ID, "News Now", fqys, //9760, f (Montgomery PA 8/3)
- 15230 **SAUDI ARABIA** *BSKSA* Riyadh in AR 1950, Holy Qu'ran at t/in to 2011, then OM w/clear ID and items re Iraq to 2040, Qu'ran resumed thereafter, p (Van Horn)
- 15375 **CHILE** *Christian Vision Int* Santiago in SP 1205, ID's, nice mx, S-9, deep fades (Montgomery 7/13)
- 15385 **SPAIN** *REE* Noblejas in EG *0000, cultural pgm, environmental efforts, vocal mx (Walter VA)
- 15390 **AUSTRALIA** *HCJB Australia* via Darwin in EG 1325, relig tlk "The many dimensions of God", ID 1331, intro for "Bible Adventures", choppy signal w/QRN (Barbour NH 8/15)
- 15415 **AUSTRALIA** *R Australia* in EG 0705, nx re ferry accident in Northern Marianas Islands and sending Australian army to the Solomon Islands, ID, f-g (Wood TN 7/23)
- 15475 **CHILE** *Voz Cristiana* Santiago in PT 2120, vcls to 2128, then YL/OM tlks followed by a xmsn break until 2132, f (D'Angelo PA 7/22)
- 15590 **USA** *KTBN* Salt Lake City in EG 1740, relig sermon by Mormon announcer (Pace IA 7/16)
- 15605 **GABON** *RFI* relay Moyabi in EG 0716, nx re Monrovia troubles in Liberia, several ments of UNICEF and "Child Soldiers", pgm on "Today in France", f-g (Wood TN 7/23)
- 15665 **NORTHERN MARIANAS** *R Free Asia* relay Tinian Is. in CH 0324, tlks by YL/OM, mx bridges, ballad, ancmts, nx w/piano bridges (Paszkievicz WI 8/17)
- 15680 **GERMANY** *Bible Voice Beacon* relay via Juelich in EG 1636, inspirational mx, Christian message, QRM from station playing Oriental mx (China jammer?), f (Wood TN 7/26, Barbour NH 7/16)

- 17485 **CZECH REPUBLIC R Prague** in EG 1714, YL w/item on train travel along the Danube River, faint reception w/fades (Wood TN 8/9)
- 17560 **AUSTRALIA Christian Voice Int** via Darwin in CH/EG 1502, OM and YL w/banter amd web info in CH, YL in EG w/"Studio Classroom abt PC pollution and recycling PC's. g (Barbour NH 7/18)
- 17630nf **UNITED KINGDOM Sudan Radio Service** relay in EG/AR/Vern *1600-1700, Horn of Africa mx at t/in, ID "You are listening to the Sudan Radio Service on 17630 kHz", tlks re "new station for peace and development, bringing you news on health, agriculture and education from Education Development Center studios in Washington, D.C. and transmitters in the UK", sked inc daily pgms in various Sudanese dialects and E-mail. All ancmts repeated in various languages, same for ID and nx bulletin, fair signal w/some fades, shift to 17660 for 1700-1800 (Barbour 8/8, D'Angelo 8/12, Berg MA 8/15)
- 17670 **SRI LANKA R Free Afghanistan** relay in Pashto? 0246, ID , exc S-8 signal (Montgomery PA 7/14)
- 17830 **SEYCHELLES BBC** relay in EG 2203-2259* , nx, ID 2206, "World Today" featuring comprehensive rpt re death of Saddam's two sons, f (D'Angelo PA 7/22)
- 17840 **SWEDEN R Sweden** in EG 1235, international nx, national referendum on Euro, cmntry on reduced church attendance, Neo-Nazi hit list on the Internet (Walter VA 7/4)
- 17860 **RWANDA Deut Welle** relay Kigali in EG 2143, Bruce Springsteen mx, ID, nx, vg (Wood TN 7/19) in GM 1905, national and regional nx, rpt on Iraq, ID, g (McGuire MD 7/3)
- 17895 **MOROCCO VOA** relay in EG 1800, ID, TC, African svce, rpt on Nigeria, p (McGuire MD 7/2)
- 21740 **AUSTRALIA RA** in EG 2120, interview w/doctor about medical negligence issues (Wood TN 7/19)

Clandestine, Tentative, Presumed, or Unknown

- 59525 **BOLIVIA(t) Radio Pio XII** (t) in Aymara 1012, OM w/relig tlk, fair until WYFR s/on 1014 destroying the presumed Bolivian station (D'Angelo PA 8/11)
- 6055 **RWANDA(p) R Rwanda**(p) in FR? 2059* , NA by military band followed by choral style mx, cut off 2059, tried checking NA's on the Internet but re-creations inconclusive (Barbour NH 7/16)
- 6985 **CLANDESTINE(p) V of the New Sudan**(p) in AR 0330-0403, Horn of Africa mx, tlks by several announcers, fair, unknown xmtr site as well (D'Angelo PA 7/27)
- 7460 **CLANDESTINE R Sedoye Payame Doost** via Kishinev CIS relay in Farsi *0227, mx opening, ID, announcements, some vocals but mainly long tlks, s/off 0315 w/mx until gone, g (D'Angelo PA 8/11)
- 15445 **POLAND(t) R Marya** relay(t) in Vern 0705, nx by OM, partial ID as "Radio Mary...." lost in static, poor with heavy QRN (Wood TN 723)
- 15465 **TAIWAN(p) CBS Taipei**(p) in CH 1233, live competition/exhibition w/OM shouting commands, occasional applause from audience, good signal tho no ID noted (Barbour NH 7/4)
- 15615nf **RUSSIA(p) R Amani** via Armavir relay(p) in Lang? 1624, CIS test tones to 1628, 3 min silence to s/on presumed ID and Mideast type mx, tlks, very poor w/heavy QRN (Barbour NH 8/15)
- 15670 **CLANDESTINE V of Oromo Liberation** via Juelich, Germany in Oromo? 1709-1738, flute mx, long talks, ID at 1730, instrumentals, Horn of Africa mx, f (D'Angelo PA 7/22, Barbour NH 7/16)
- 15675 **UZBEKISTAN(p) V of Mesopotamia**(t) 0720-0730, continuous Mideast mx w/o ancmts, very faint but clear signal (Wood TN 7/23) ED: Xmtr site per HFCC.
- 15705 **CLANDESTINE(p) Sawt al-Islah (V of Reform)** in AR 1915-2001* , long tlks by various OM, bridge mx, heavy jamming made reception poor tho signal level was fair (D'Angelo PA 8/10)
- 15775nf **CLANDESTINE Chan Troi Moi** in VT *1327-1354, OC to 1330 s/on w/ID, tlk accompanied by mx, nx pgm? w/many ments Florida, Cuba, NY, Castro, and Hanoi, another ID 1350, p (D'Angelo PA 8/9)

Boy Scouts' Corner

Kris Field has taught the Radio Merit badge to 5 scouts from Troop 3 Hasboro, PA while they were at Cederlands Camp Long Lake, NY. They braved 5+ days of thunderstorms/downpours/mud and insects but somehow managed to get the following logs on a Lowe HF 150:

- 9580 **AUSTRALIA Radio Australia** in EG 1312 w/OM announcer, Waltzing Matilda (Corey Boyle 7/23)
- 11990 **KUWAIT R Kuwait** in EG 2015, The Pretenders sing Brass in Pocket, other pop/rock songs, OM with ID 2030 (Kris Field 7/20)
- 15041 **COSTA RICA RFPi** in EG 2258, ID, web address, tlks (Bryan Cross, Dan Field 7/21)
- 15160 **SPAIN REE Noblejas** in SP 2310, OM and YL arguing in SP, ID (Teague Kelly, Will Wojik 7/21) ED: Nice going, fellows!



**WORLD OF RADIO, CONTINENT OF MEDIA, MUNDO RADIAL
BROADCAST SCHEDULE EFFECTIVE SEPTEMBER 1, 2003**

It always pays to check all RFPI frequencies beyond their scheduled hours. Schedule shown is nominal, but it is not unusual for one transmitter to be down, and for programming to run up to an hour late. 15 MHz transmitter has been down, but when it resumes will probably not be on 15039 but perhaps 15115 which tested July 31-August 1. Daytime airings on 7445 only will not be audible beyond Central America. For logistical reasons except weekends, RFPI repeats after 0600 appear about half an hour later than +12 or +18 hours.

For latest updates see our Anomaly Alert page:
<http://www.worldofradio.com/anomaly.html>

Days and times here are strictly UT.

Wed 2200 WOR WBCQ 7415 17495-CUSB [first airing of each edition]
Thu 0130 WOR WINB 12160 [probably repeat of previous edition]
Thu 2000 COM RFPI 7445
Thu 2030 WOR WWCR 15825
Fri 0200 COM RFPI 7445
Fri 0800 COM RFPI 7445 v to 0830
Fri 1400 COM RFPI 7445 v to 1430
Fri 1930 WOR RFPI 7445
Fri 2115 MR WWCR 15825 [or as early as 2110]
Fri 2300 WOR Studio X, Momigno, Italy 1584 1566 87.35 96.55 105.55
Sat 0130 WOR RFPI 7445
Sat 0300 COM SIUE WEBRADIO <http://www.siue.edu/WEBRADIO/>
Sat 0330 WOR SIUE WEBRADIO <http://www.siue.edu/WEBRADIO/>
Sat 0730 WOR RFPI 7445 v to 0800
Sat 0800 WOR WRN1 to Eu, Au, NZ, WorldSpace AfriStar, AsiaStar, Telstar 12 San
Sat 0855 WOR WNQM Nashville TN 1300
Sat 1030 WOR WWCR 5070
Sat 1330 WOR RFPI 7445 v to 1400
Sat 1730 WOR RFPI 7445
Sat 1800 WOR WRMI 15725 v to 1810
Sat 1828 WOR WPKN Bridgeport CT 89.5 [week delay]
Sat 2130 COM RFPI 7445
Sat 2330 WOR RFPI 7445
Sun 0230 WOR WWCR 5070
Sun 0330 COM RFPI 7445
Sun 0430 WOR WRN to Europe only; webcast via <http://www.nyhedradioen24-7.dk/>
Sun 0530 WOR RFPI 7445
Sun 0630 WOR WWCR 3210
Sun 0930 COM RFPI 7445
Sun 1130 WOR RFPI 7445
Sun 1400 WOR WRN to North America, also WLIO-TV Lima OH SAP
Sun 1530 COM RFPI 7445
Sun 1800 WOR WRMI 15725 v to 1810
Sun 1830 WOR RFPI 7445
Sun 1900 WOR Studio X, Momigno, Italy 1584 1566 87.35 96.55 105.55
Mon 0030 WOR RFPI 7445
Mon 0330 WOR WSUI Iowa City IA 910 [week delay]
Mon 0415 WOR WBCQ 7415
Mon 0630 WOR RFPI 7445
Mon 1230 WOR RFPI 7445
Tue 1900 WOR RFPI 7445
Tue 2130 MR WWCR 15825
Wed 0100 WOR RFPI 7445
Wed 0300 WOR SIUE WEBRADIO <http://www.siue.edu/WEBRADIO/>
Wed 0700 WOR RFPI 7445 v to 0730
Wed 0930 WOR WWCR 9475
Wed 1300 WOR RFPI 7445 v to 1330
Wed 2100 MR WWCR 15825

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Inviting all NASWAns to tune in every week, 73, Glenn


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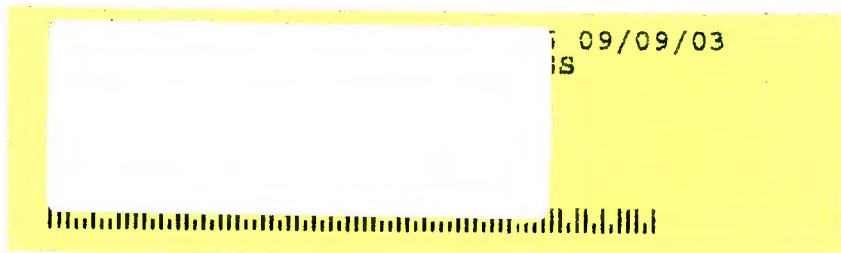
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