

The **NASWA** Journal

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DECEMBER 2003

The NASWA Journal
VOLUME XLIII NUMBER 1 JANUARY 2003

The NASWA Journal
VOLUME XLIII NUMBER 2 FEBRUARY 2003

The NASWA Journal
VOLUME XLIII NUMBER 3 MARCH 2003

The NASWA Journal
VOLUME XLIII NUMBER 4 APRIL 2003

The NASWA Journal
VOLUME XLIII NUMBER 5 MAY 2003

The NASWA Journal
VOLUME XLIII NUMBER 6 JUNE 2003

The NASWA Journal
VOLUME XLIII NUMBER 7 JULY 2003

The NASWA Journal
VOLUME XLIII NUMBER 8 AUGUST 2003

The NASWA Journal
VOLUME XLIII NUMBER 9 SEPTEMBER 2003

The NASWA Journal
VOLUME XLIII NUMBER 10 OCTOBER 2003

The NASWA Journal
VOLUME XLIII NUMBER 11 NOVEMBER 2003

The NASWA Journal
VOLUME XLIII NUMBER 12 DECEMBER 2003

Holiday Greetings

THE NORTH AMERICAN SHORTWAVE ASSOCIATION
2003 William P. Eddings Award
Winner of the Year
Wallace Treibel

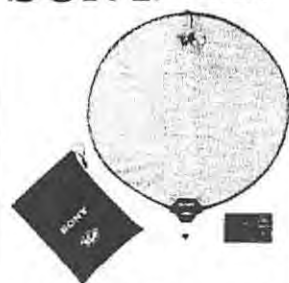
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SONY AN-LP1



The Sony AN-LP1 portable active antenna is just right for the traveller who wants maximum performance from their worldband radio. The flexible folding loop antenna is 19 inches (48 cm) when open, but folds down to a mere 7 inches (18cm) and neatly fits in the supplied soft carrying case. A mounting clip and suction cup on the end of the loop allows easy placement in a variety of situations. The suction cup is especially useful for mounting the antenna to a window where reception will often be the best. Output is to a mini plug. A preselection knob selects operation from 3.85-21.95 MHz. The AN-LP1 requires two AA cells (not supplied) for about 40 hrs of use.

Special Notes:

- The AN-LP1 derives power from the radio when connected to models ICF-SW1000T or ICF-SW7600G.
- The AN-LP1 is not recommended for use with models ICF-SW10 or ICF-SW77.

Sony AN-LP1 Order #3676 \$89.95

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ZAP TRAPPERS

The Antenna Super Market Zap Trapper T is your protection solution for twin-lead fed short-wave receiving antennas. Antenna Super Market suggests you connect a twin-lead jumper between the back of your radio and the Zap Trapper T. Then connect the Trapper T to earth ground. This device, and others we carry, do not offer protection in the event of a direct lightning strike. Not for transmitting.

Order #3841 \$22.95

The similar Zap Trapper C model is for conventional receive-only coaxial installations and features a PL-259 plug. These devices can last for thousands of cycles

Order #2993 \$21.95

USED GEAR

Visit our website for great used equipment values. It now features photographs of select items.

PAR ELECTRONICS EF-SWL



The Par EF-SWL is an end-fed short wave antenna optimally designed for 1-30 MHz reception. The radiator is 45 feet of genuine #14 gauge black polyethylene coated Flex-Weave wire (168 strands of #36 gauge woven copper). This material is very strong yet can easily be coiled like a rope for portable work. The UV resistant matchbox houses a wideband 8:1 transformer wound on a binocular core. Unlike other transformers, external stainless studs on the matchbox allow the user to configure the primary and secondary grounds for best noise reduction at their particular location. Output is via a silver/teflon SO239 UHF connector. The radiator also attaches via a stainless stud allowing it to be removed, or replaced with a different length radiator for experimental purposes.

Par EF-SWL Order #2205 \$57.95



The Gap Hear It Module is an inline filter with up to -20db of noise attenuation selectable at 8 levels. It features a Sensitivity Control knob. Audio input and output is via 3.5 mm mono mini jacks or RCA phone. There is also a headphone socket. This device requires 12 to 24 VDC at 500 ma. It is supplied with a 3.5mm-3.5mm Audio cable and fused power leads. Size: 6.75 x 3.325 x 1.375 inches, 1 pound. Made in England.

HEAR-IT Order #4048 \$194.95

GRUNDIG

Be Prepared! FR-200



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

FR-200 Order #2200 \$39.95



PASSPORT TO WORLD BAND RADIO 2004

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

Order #1000 \$22.95 Sale \$18.90



THE SHORTWAVE GUIDE - LISTEN TO THE WORLD

This guide uses color bar charts printed on smooth, matt paper to provide a simple and effective tool for the shortwave listener and DXer. It is easy to see what is being broadcast in a particular language at any time. Plus addresses for shortwave stations and clubs. New Second Edition June 2003. 224 pages. Order #1164 \$17.95



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Season's greetings! It's that time of the year when serious hints need to be left around the house. I usually make sure my wife gets her own personal copy of the Universal Radio catalog to help her along. Of course, with my acquisition of a Ten-Tec RX-340 earlier this year, maybe I should skip the reminders. Nevertheless, here is to a happy, healthy holiday season to one and all!

From our good friend in Denmark and Chairman of the Danish Shortwave Listeners Club **Anker Petersen** comes the following news and information. "Through our member in Germany, **Robert Kipp**, the Danish Shortwave Club International (DSWCI) has contact with the new station manager of Radio St. Helena, Mr. Ralph Peters, to try to get the QSL situation settled for those DXers who did report their special broadcast on SW in 1999. About 250 QSLs were sent out to DXers around the world. Radio St. Helena has, however, no knowledge as to whether the DXers have received the QSLs. They have asked the DSWCI to try to help find out whether the QSLs have arrived or not. Thus, if you did send R St. Helena a reception report in 1999 and have received their QSL, please do nothing. But if you did so and did not receive their QSL, please inform before 31st Dec. 2003 Robert Kipp at RDC-Roberts-Data@t-online.de or by letter to Robert Kipp, Hugelstrasse 25, D-63225 Langen, Germany." Thanks Anker and Robert!

The Broadband over Power Line (BPL) issue continues to simmer. A meeting sponsored by the American Radio Relay League and hosted by the National Association of Broadcasters was scheduled for Washington, DC on November 7th to discuss BPL. Our own **Joe Buch** made the trip to represent the club and its shortwave listeners. You can read all about it in Joe's *Technical Topics* column this month. There were more than 4,600 com-

ments filed in response to the Notice of Inquiry at Docket 03-103. The vast majority of comments point out the threat of interference to radio services.

Dr. Adrian Peterson provides the results of Adventist World Radio's Wavescan DX Program DX contest that ran throughout the month of September 2003. A large number of entries came in from all areas of the world. The First Place winner, **Guntur Jacob** of Germany, received the coveted Bronze Medallion, as well as an autographed copy of Jerry Berg's book, *On the Shortwaves*.

The Association of International Broadcasters (AIB) has scheduled its 2004 Conference in Prague, Czech Republic on 12-13 May 2004. The third Global Media Business Conference is the only event on the broadcasting calendar that specifically addresses the issues facing the international broadcasting industry. Over 170 delegates from over 20 countries participated in the 2003 event in London earlier this year. AIB announced that Radio Free Europe/Radio Liberty will be the official partner, hosting the conference at its central Prague offices.

Once the holidays have passed, it's time to begin getting serious about attending the 17th annual Winter SWL Festival in March. Join hosts **Richard Cuff** and **John Figliozzi** and their team of elves at this club sponsored event that brings together a lot of radio enthusiasts for a great weekend of fun. Watch for updates in Rich's *Easy Listening* column, the *Calendar of Events* and the pages of the *Journal* for the registration form. This is one event you do not want to miss. If you have never attended a Fest, be sure to mark your calendar and make plans now before you forget. Some of the regulars have been known to register about eleven months early!


OUR MOTTO IS - "UNITY AND FRIENDSHIP"

Don't forget that the Electronic DX Press is offering Edition No. 16 of the comprehensive *Australasian Shortwave Guide*. The Guide contains over 1600 entries covering the current international shortwave transmission period that concludes on March 27, 2004. It provides information of English shortwave schedules to Australia, Asia, the Far East, the Indian sub-continent, and the Pacific, and for broadcasts in all languages beamed to Australia and the Pacific. It is 36 pages, saddle stitched in handy A5 format. The Guide is available for US\$10.00 in North America from **Bob Padula**, 404 Mont Albert Road, Victoria 3127, Australia. 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).

As the snow falls and the DX heats up, the best way to stay on top of breaking shortwave news is with the club's electronic *Flashsheet*. There is no better way to stay on top of the ever-changing 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.

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 Wyoming only slow down the process. Thanks!

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

FRENDX: Twenty Five Years Ago (November 1978)

The *Roll Call* featured 48 new members including a Frederick J. Osterman from Pataskala, Ohio. Mac Leonhardt reported that Radio RSA cut its English language DX program on short notice. Program host Gerry E. Wood used the pages of *NASWA* to say a farewell. In his *Listeners Notebook* column, Glenn Hauser encouraged letters to Radio RSA urging them to bring Gerry back. In November, just over 1,700 copies of *Frendx* were mailed compared to 1,560 copies the previous November. In the *Shortwave Center*, Jerry Lineback wrote an article about "Selectivity." Based on his conversation with listeners visiting Gilfer Radio, Perry Ferrell wrote about WARC-79. David Mattis wrote about adding digital frequency readout to the DX-160 while Dave Valko wrote about antennas. In *Log Report A*, editor Dan Robinson reported that his antennas blew down after logging Radio Andorra on 6215 kHz at 2100 UTC. Donald Erickson was taking advance orders for the *WRTVH 1979* at \$12.00.

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.

Calendar Of Events

Dec 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: dcscpk@aol.com.

Dec 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/>

Jan 10 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 antennapig@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!

May 2004 Conference. AIB Global Media Business Conference. Association of International Broadcasting will hold its third global media conference 12-13 May 2004 in Prague, Czech Republic bringing together public and commercial international broadcasters. Radio Free Europe/Radio Liberty will host the conference at its Prague central offices. The 2004 Conference will build on the previous AIB conferences tackling the problems and concerns of the international broadcasting industry. Further details to follow.

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.

Aug 2004 Convention. The 10th Annual Mexican National DX Meeting for DXers and radio listeners is scheduled for Veracruz. Further details will be published as received.

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

Musings

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

Paul Brouillette, 611 Illinois Street, Geneva, IL 60134

I am curious if any NASWA members are equipped to receive DRM? With some amount of fanfare, this new digital audio mode was officially inaugurated by the cooperating broadcasters of the DRM consortium in June. The trouble is, I doubt if they have more than a very tiny handful of listeners.

The obvious problem is the lack of a DRM receiver. The only available scheme at present involves a modified traditional shortwave receiver, a PC with soundcard, and some software. I don't know about you, but I have yet to find a way to keep the unintentional RF radiated by the computer and monitor from getting into the front end of any receiver, so I am reluctant to start modifying my receiver and computer to attempt to receive DRM. Also, is it really worth it? I have heard reports that the signal drop-put rate of DRM due to propagation is pretty high. With analog signals there is no total dropout, just degradation. Your analog receiver and your brain's perceptive abilities can work around that most of the time.

Another problem I have begun to notice now that there is more DRM on the air is interference. DRM signals are currently supposed to be confined to an occupied bandwidth of 10kHz, like analog signals. The theory here is that the 10kHz-bandwidth restriction protects signals on adjacent channels. But the reality is that the spectral density (amount of energy) contained in a DRM signal is at the same constant high level throughout that 10kHz channel, while for an analog signal limited to 10kHz, the amount of energy is concentrated near the carrier, with a gradual drop-off in energy toward the edges of the channel. The practical result is that with two 10kHz-wide analog signals of equal strength next to each other, there is relatively less spectral energy overlap at the channel edges, and you get that familiar, somewhat tolerable, splatter. On the other hand, an analog signal next to a DRM of equal strength suffers from the much higher energy available at the channel edge of the DRM. The result is that even strong analog signals are often overwhelmed by the growl from a nearby DRM that is of equal, or even somewhat lesser strength. Some people have even characterized this as being as effective as jamming, and I am inclined to agree partly, although the DRM interference is not intentional.

With this interference issue in mind, I think it would be a great benefit for frequency planners to try to keep analog and DRM separate in each of the various SW broadcast bands. This would be similar to what is done in the ham DRM where areas are allocated for CW, packet, phone, etc. For example, 10 meters could be set up so that 15375 kHz and above is all DRM, while 15350 kHz and below is all analog. Maybe a different ration would be appropriate. Maybe splitting the bands would also cause too much band crowding for existing broadcasters, but here I must point out that the characteristics of DRM already make the one or two channels on either side of it essentially useless anyway, so the available space for analog is already being diminished.

Something to think about, anyway.

Hank Michalenka <hjmcpa1@msn.com>, 11 Elizabeth Ann Drive, Johnston RI 02919

While recently completing a trip to Hawaii, I visited the site at 726 South Kihei Road on Maui to see if the NASA Ionospheric Research Station (see my article in the *Journal* end of 1993) were still functioning. The NASA site was closed down and cleaned out completely around 1996, and has been replaced by the Hawaiian Islands Humpback Whale National Marine Sanctuary (NOAA affiliated).

Other than knowing the site was originally a degaussing station for minesweepers in WW II, personnel didn't know much about the history of the site or the radio connections. Younger NASWA members may not know this location was the original site for WWVH before it moved to Kauai. I filled them in on the history of the place, but they would like to put together some pictorial and anecdotal history for their visitors. So, if anyone out there has some photos and information about the location, whether from military days, WWVH days, NASA days or in-between, please forward them to Jerry at the HIHWNMS at 726 South Kihei Road in Kihei, HI 96753. They are especially interested in photos from WWVH days to see where the antennas were located, but everything would be appreciated! When the NASA people moved out, everything was cleaned to the walls...

In an unrelated matter, while in Kona for the Ironman Triathlon competition (they asked me not to compete again this year), I found that Richard Wood's produce operation was no longer there, nor was there any listing in the telephone book. Many of our members recall the linguistics professor/DXer as he moved around half the western world through the 70's and 80's before starting a white (low-acid) pineapple plantation in Hawaii. Does anyone have an address for him?

73, Hank

Steve Price <vinyltocr@aol.com>, P. O. Box 855, Bowling Green, VA 22427-0855

Here is a musing for help for me. I need some opinions. I am about to build 200 foot longwire antenna for shortwave listening and DXing at my new very-rural home. It will be the standard 30 to 50 feet above the ground with one end connected to a tree and the other connected to the house. I will have about 20 feet of coax lead in with the center conductor connected to the longwire and the braid shield going directly to a ground rod outside below where it is fastened to the house. The ground rod will only have the antenna on it. It is not sharing the home electrical system or phone line ground. (Steve has now completed the project and plans to write about it in detail in the near future. RAD)

I am wondering if anyone has had any experience with the RF Systems balun for receive only from Universal Radio. This is said to couple your antenna to the radio to help eliminate a lot of interference from the coax line and to help match impedance between the two. Can anyone share his or her experience through Musings? Is it worth the \$70? Here is a link to view this balun: http://www.universal-radio.com/catalog/sw_ant/1484.html

Thanks, Steve

NASWA

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

Edward C. Kranch, 73-600 Catalina Way, Apt. N-5, Palm Desert, CA 92260-2982

Reference page 18 of the *NASWA Journal*, Sept. 2003, the well-written and descriptive article was informative and very much appreciated to be informed about that very distant part of God's world.

As a retired Business Jet pilot/marketer, the article brought to mind other vital data about those São Tomé y Príncipe Islands locations. Perhaps many others have given personal due wonder of **where** the United Nations tail numbers register their fleet of various helicopters and fixed-wing aircraft to avoid upsetting host nations offering landing or transit/refueling permissions without seeing tail numbers and/or flags of disliked nations on their soil. The result, UN aircraft are registered "S9" ___ as I.C.A.O. assigned to São Tomé y Príncipe Islands (São Thome & Príncipe) and all is quite and acceptable.

Thank you kindly for your valued time, attention and NASWA courtesy to this surface postal communication.

Cordially, Edward

Joe Hanlon <Pwoodswl@aol.com>, 12 Robbins Way, Vincentown, NJ 08088

It was such a nice day yesterday (Nov. 1) that I took my Sony ICF-SW7600G receiver and the AN-LP1 active antenna (which was hung to a fence) to an open athletic field in Vincentown, NJ to do my loggings for the *Flashsheet*. Listening to distant stations away from those usual noises at home is worth it if you can take a few hours of your time to find a good place to get the most out of your portable (or portatop) SW rig! I hope that other NASWA members take my idea under consideration. You don't have to go to some big DXpedition far away, just find a good open area away from any power lines, PCs, etc. Take a good portable with a short wire antenna (a roll-up antenna or a short wire tied to the radio's whip will do, or if you have a Sony combo like what I use, above, it's very good to try some weak-signal daytime listening) and set it up and see what results you can hear. Of course, results depend on location, the type of receiver/antenna you have, sensitivity of the receiver, and reception conditions!

Joe

Joe Kenneth Wood <Jkwood124@aol.com>, 124 Brittany Drive, Gray TN 37615

I read with interest the letter from Mr. Fraser concerning IRCs, Aerograms, and U. S. Post Office International Money Orders.

According to the US Post Office's website, International Money Orders are only accepted in 30 countries throughout the world, with England not being one of them. Most of the countries listed were in the Caribbean, Latin America, or Africa.

IRC's are almost impossible to find in my part of the country. Only two Post Offices in my area stock them, and I have had others tell me it is impossible to special order them. I still can find and regularly use Aerograms for notes to overseas stations when too much detail is not required, but the difference in cost is getting so little that I usually just type a letter.

73, Joe

On the Short Waves by Jerry Berg

<www.ontheshortwaves.com> Update, October 26, 2003—Under "Articles, Research, etc.," "Pot Pourri," some more station postcards. (1) Two 1935 views of the facility of WCAU, Philadelphia, which housed both the 50 kw MW transmitter and 1 kw SW transmitter, callsign W3XAU. (2) Two views of PRA8, Radio Clube de Pernambuco, Recife, Brazil, which was a regular on shortwave for many years. (3) Another view of the RCA transmitting facility at Rocky Point, Long Island (see last week's postings for the first).—Regarding my question in a previous posting about a Chinese postcard of a station in Taihoku, both Adrian Peterson and Henrik Klemetz referred me to Adrian's previous *Wavescan* articles on the early radio scene in Taiwan, in particular *Wavescan*s #268 (February 13, 2000) and 342 (July 15, 2001; see the "Research" section under "Articles, Research, etc." for #342). Adrian points out that Taihoku was the name for Taipei, Taiwan, when the island was under the Japanese in the era before WW II. So the postcard is from Taiwan, and Adrian feels it probably dates from around 1940, most likely being from JFAB/JFAK, which broadcast first on shortwave and later on both SW and mediumwave. Thanks, AP and HK.—And in a late E-mail, ace DXer Tetsuya Hirahara of Japan notes as well that Taihoku is the Japanese pronunciation of Taipei, and that the station name is mentioned in Chinese characters which can be read as "Taihoku Hosokyoku" in Japanese, or "Taipei Broadcasting Station" (JFAK). Thanks, Tetsuya.

<www.ontheshortwaves.com> Update, November 9, 2003—Under "Articles, Research, etc.," "Full-Text Articles": What would be your vote for the "Ten Best Foreign Short Wave Stations"? Here are the picks of editor J. B. L. Hinds in his first article for the shortwave section of *Short Wave Radio* magazine, July 1934.

<www.ontheshortwaves.com> Update, November 22, 2003—Under "Articles, Research, etc.," "Pot Pourri," Wolfgang Bueschel in Germany sends along two pictures of station lists taken by Bernhard Weiskopf, Mannheim, Germany at an exhibition of pre-World War II radio sets held by Prof. Söll in Neu-Isenburg, near Frankfurt am Main. These LW and MW listings are from around the 1941-1944 era. Note that the Podedrad site in occupied Czechoslovakia is listed, along with various stations that are still on the air, e.g. Warsaw 224 (now 225), Luxembourg 232 (now 234), Stuttgart Muehlacker 574 (now 576), Vienna Bisamberg 592 (now ITU registered 585), Prague 638, Leipzig Wiederau 785 (now 783), and Warsaw 1384 (now Kaliningrad Bolshakovo [soon Sitkunai, Lithuania] 1386).

<www.ontheshortwaves.com> Update, November 14, 2003—Under "SW History on the Net," some new links in the following five categories:

BROADCASTING ROOTS. IEEE History Center <http://www.ieee.org/organizations/history_center/milestones_list.html> The History Center of the Institute of Electrical and Electronics Engineers at Rutgers University has a Milestones Program which thus far has identified 50 milestones honoring significant achievements in the history of electrical and electronics engineering. Although these cover a wide variety of technological events, of special interest to DXers will be those dealing with the Alexanderson alternator, code breaking at Bletchley Park, the directive shortwave antenna, shortwave transmissions from Byrd's 1934 Antarctic expedition, reception of Transatlantic radio signals, radio station KDKA, and others.

STATIONS. (1) Canadian Radio History <<http://www.odxa.on.ca/archives/timelinehome.html>> This part of the Ontario DX Association website presents three interesting aids to understanding Canadian radio history: a timeline for general Canadian broadcasting and a timeline for Canadian shortwave broadcasting (the only radio timelines I have seen going back to 1642), and a valuable list of books dealing with Canadian radio history. (2) Radio and TV Transmitters in France <<http://perso.wanadoo.fr/tvignaud/index.html>> Although this site is in French, English speakers may enjoy stumbling around it for the pictures alone. Look especially under "Allouis (F. Inter)" and "RFI-Issoudun/Allouis."

VERIFICATIONS. John Swatko's Radio Scrapbook, 1934 <http://www.radiold.com/ephemera/radio_letters/sc_swatko.htm> This website shows the scrapbook of John Swatko, who appears to have been a BCB DXer from Homestead, Pennsylvania and a member of the Newark News Radio Club in 1934. Inside the scrapbook are a number of articles, membership cards and DX stickers that relate to Mr. Swatko's DX hobby. You can click on the pictures to see larger images of a few of the pages. Most important, the scrapbook contains some 116 QSL cards and letters, some with EKKO stamps and postmarks, which Mr. Swatko collected from the early 1930s, and all have been scanned in good quality and are nicely viewable on the site. The site's author notes: "When I was looking through the letters I noticed that one from 1932 is from my hometown of Manitowoc, Wisconsin. I also noticed that the station manager and owner had a surname that is shared by some of my relatives. After contacting some of my relatives, I was surprised to find out that he was a distant relative of mine."

STATIONS AND VOICES OF WAR. Black Boomerang <<http://www.seftondelmer.co.uk/>> *Black Boomerang* is a highly regarded book by Sefton Delmer which tells the story of the World War II psychological warfare effort that Delmer headed in Britain, in particular its clandestine broadcasting efforts which included stations like Gustav Siegfried Eins, Soldatensender Calais and Atlantiksender. The book was published in 1962. Now it is available in part on line, thanks to the efforts of Sefton Delmer's son, Felix Sefton Delmer. At this URL you will find the first part of the book. The second part is expected to be posted soon. In some respects the on-line version improves upon the original in that it includes photographs (none in the book) and references to an interesting on-line database of wartime black propaganda leaflets <<http://www.psywar.org/>> Thanks to Felix Delmer for informing www.ontheshortwaves.com of this important effort.

POST-WAR SHORTWAVE. Radio jamming in Estonia <<http://www.okupatsioon.ee/english/mailbox/radio/radio.html>> This interesting website was composed by I. Hallas, who worked in an Estonian jamming station in 1955. The article details the jamming process, including frequencies, antennas, personnel, organization, and how the noise was made. One of the most interesting parts is the photos, made in 1956 and 1957. "It was strictly forbidden to talk to any acquaintance or relative about the work. Needless to say, photographing the objekt [the station] was just as strictly forbidden. Getting caught could have brought with it a 25 year prison sentence. Nevertheless, we took pictures, talked about our work, and sometimes, at night, even brought in friends to show them the jammers. No one got caught."

Easy Listening

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Holiday programming notes

With the Christmas and New Year's holidays upon us, you can expect some special programming once again, as is typical for most broadcasters. Here are some specials known to be in the works:

Voice of America

VOA News Now will be featuring a Special Christmas program called *The 12 Hours of Christmas*. It is a syndicated program from Kris Eric Stevens Productions. The show features Christmas classics from yesterday and today plus holiday features and vignettes. This program will run from 0000 UTC through 23 hours UTC on Christmas day.

Kim Elliott (formerly of *Communications World*) will be hosting *Talk to America* on January 1st. The future of international broadcasting will be Kim's subject. *Talk to America* airs after the 1700 UTC news. Hearing the VOA on shortwave at that time of day isn't easy in North America; frequencies targeting Africa may be your best bet: 13710, 15240, 15445 and 17895 kHz. A live webcast is also available at the VOA website.

BBC World Service

Wednesday, December 24th (Christmas Eve), 1306 UT, repeated Christmas Day 0006: **Outlook** will broadcast live from the courtyard of Somerset House, across from the World Service headquarters; each year this courtyard becomes a giant ice rink in December, and is one of the highlights of London over the holidays.

Wednesday, December 24th (Christmas Eve), 1502 (repeated Christmas Day 0132): It's the annual *Festival of Nine Lessons and Carols*, from King's College in Cambridge. This is a service of bible readings and beautiful choral music celebrating the birth of

Christ. Traditional music and new music specially composed for the occasion will be featured.

Thursday, December 25th (Christmas Day) 1606: It's the annual *Queen's Christmas Message to the Commonwealth*, a traditional component of the BBC's Christmas programming.

Friday, December 26th features a special Boxing Day edition of *Sportsworld* at 1506 UT. It's a day of special sporting events in many places.

Sunday, December 28th, 1332 and 2232: *In Praise of God* features a special on the Jewish festival of Hanukkah.

Friday, January 2nd, 1406, repeated Saturday, 0106: Colin Maitland looks back at the highlights of the 2003 sporting year in *Review of the Year*; you can send your thoughts on the most important sporting events of the year to sportsworld@bbc.co.uk.

Radio Australia

As is usually the case, **Radio Australia's** schedule will see significant seasonal alterations in December and January as several programs take summer breaks.

Specifically, at Christmastide, you can expect Radio Australia to link with a domestic network for most of our day—a combination of Radio National and Metropolitan networks. Expect the special programming to begin at 2100 UT on December 24 and continue until 0900 UT on December 25. Their format will be similar to previous years with religious specials, Christmas music, Christmas stories and talkback with Australians as they celebrate Christmas Day. Each Australian state will likely contribute a couple of hours to the broadcast. (courtesy of John Figliozzi)

In addition to the specific items noted above, here are some programming suggestions compiled from past years. The ODXA's Fred Waterer, who writes the programming column for the ODXA's bulletin, *Listening In*, and John Figliozzi, no stranger to NASWA members, who writes about programming for *Monitoring Times*, helped out with much of this information.

EWTN and Vatican Radio

You can expect special Midnight Catholic masses from these stations, plus more detailed accounts of the Pope's Christmas activities than you would find elsewhere. (via Fred Waterer/ODXA)

Radio Canada International / CBC

As It Happens, especially on Christmas Eve, produces a special annual program. Each year, the program contacts members of the Canadian Armed Forces serving with the UN, NATO, NORAD and those serving in the far north. Each unit has 3 or 4 people speak for those serving with the unit. They send Christmas greetings to loved ones at home and describe how they are celebrating Christmas where they are. At the conclusion of the greetings, the units are each invited to sing a verse of a Christmas carol. In past years, the units have served in such diverse locations as Canadian Forces Base Alert (Arctic), Colorado Springs (NORAD), Germany, Cyprus, Golan Heights, Bermuda (!), the Persian Gulf, Somalia, Bosnia and Croatia, and Kosovo. No doubt there will be greetings from the task force in the Gulf. It is a really nice program. It also has its moments of humor, such as the time the Canadian naval personnel stationed in Bermuda tried to claim they missed the Canadian winter real bad! (via Fred Waterer/ODXA).

In general, *As It Happens* has had its own tradition of storytelling during the week or so leading up to Christmas. (via John Figliozzi)

Deutsche Welle

Last year, a Christmas special aired on December 24th in the English language editions airing from 0900 onward, and on December 25th through the 0600 English

release. One version of the special aired December 24th at 09, 11, 16, and 19 UT; the second edition aired December 24th at 20, 21, and 23 UT and also December 25th hourly from 01 to 06 UT, including the North American releases at 01, 03, and 05 UT. Also, Deutsche Welle aired a New Year's special on December 31st and January 1st using the same approach described above.

Also, Deutsche Welle's 24 hour German language service has always programmed a wide variety of Holiday music on Christmas Eve, Christmas Day, New Year's Eve and New Year's Day. Even though Deutsche Welle has scaled back their German language shortwave service to North America, you should have no trouble locating them on the dial during local evenings. (via John Figliozzi) One doesn't need to know German to appreciate good music!

Eastern Europe (e.g. Ukraine, Russia, Bulgaria, Hungary, Czech Republic, Slovakia)

The communist regimes governing these countries for most of the 1900s officially stifled the outward expression of religion, and it is interesting to see how many of these countries' broadcasters seem to be making up for lost time by including religious celebrations more overtly than their non-communist brethren. Fred Waterer recommends the shortwave services from Bulgaria, Russia, and Ukraine as likely sources for holiday music. Remember that the Orthodox Christian church celebrates Christmas on January 6th—so you'll hear New Year's programming before you hear Christmas programming!

New Zealand

Fred Waterer noted in 1999 that **Radio New Zealand International** featured, among other things a Maori rendition of Silent Night; a special Christmas edition of *Sounds Historical*; Christmas coincides with ANZAC Day and the anniversary of the foundation of the NZ Communist party.

Other broadcasters

As Fred Waterer reminded me, expect pre-recorded programming to prevail over the holidays, with heavy emphasis on year-in-review programs along with special

extended features that were recorded in advance. Broadcasters do this to enable their staffs to spend time with their families around the holidays.

Other examples reported by the ODXA's Harold Sellers from years past:

¶ **RAI Italy** presented an extensive report on the Pope's Christmas homily.

¶ **Channel Africa**, played a traditional African hymn during a brief tune-in.

¶ **AIR India (All India Radio)** from 2052 to the news at 2100 played several Christmas carols, performed by a children's choir in Hindi. For example, Harold recognized Hark The Herald Angels Sing and O Come All Ye Faithful.

Radio Australia: *Feedback* leaves the air; other seasonal changes

Another radio and media-related program left the airwaves this past month: ***Feedback*** from **Radio Australia**. I, for one, will miss ***Feedback***. I came to enjoy the "behind the scenes" look at Radio Australia programming plans and strategies each week. Once ***Communications World*** left the air, ***Feedback*** became one of the best programs for coverage of ***Digital Radio Mondiale*** and the relationships of shortwave to other media.

This is also the time of year when Radio Australia has many seasonal changes as programs take summer holidays. This schedule isn't complete yet—more is known about the programs taking holidays, versus what will be replacing these programs. I'll pass along subsequent changes in the ***NASWA Flashsheet*** and the ***swprograms*** e-mail list.

Weekdays, 0000: ***Asia Pacific*** will finish on 24 December. Some form of current affairs will air in this slot and the 2300 UT slot, but there is no title for the program as yet. ***Asia Pacific*** will return on January 5th.

Weekdays, 0210: ***The World Today***'s final broadcast will be 19 December. The program will return on January 19th. You can expect the ***Margaret Throsby Interview*** (from 0410) to fill this slot in the interim.

Weekdays, 0320: ***Life Matters*** will finish on December 19th. Its replacement is not known at this time; the program returns January 28th.

Weekdays, 0410: With ***Margaret Throsby*** moving to 0210, repeat editions of other programs will fill this slot as follows: ***AWAYE*** (Mondays), ***Science Show*** (Tuesdays), ***The National Interest*** (Wednesdays), ***Background Briefing*** (Thursdays), ***Hindsight*** (Fridays)

Weekdays, 0810: ***PM***'s final broadcast will be December 19th. It will be replaced with an as-yet unnamed current affairs special program, followed at 0830 by ***Health Report*** (Mondays), ***Law Report*** (Tuesdays), ***Religion Report*** (Wednesdays), ***Media Report*** (Thursdays), ***Sports Factor*** (Fridays).

Weekdays 0910: ***Australia Talks Back***'s final broadcast will be December 19th; the program will return January 28th. A replacement program has not yet been identified for this time slot.

Weekdays 1005: ***Asia Pacific*** departs as of December 24th until January 5th; a current affairs special will replace it.

Weekdays 1105: ***Asia Pacific*** departs as noted above; the full 55-minute ***Life Matters*** program will take its slot. This also fills the ***Bush Telegraph*** slot; it will return January 28th.

Weekdays 1410: ***PM*** departs, as noted above; a replacement has not yet been identified.

Weekdays 1505: ***Asia Pacific*** departs, as previously noted. A replacement has not yet been identified.

Weekdays 1605: **Bush Telegraph** takes a holiday as of December 19th; a replacement hasn't yet been named. **Bush Telegraph** returns January 28th.

Weekdays 1705: **Australia Talks Back** takes a holiday from December 19th to December 28th; a replacement has not yet been named.

Saturdays, 2205, and Sundays 0105, 0705, and 1105: **Correspondent's Report** goes on holiday as of December 21st; it will return February 1st. A current affairs special program will air in its place.

Another change sees **Australia Now** ending its run; it will be replaced by a repeat airing of the 13-part series **Time to Talk**, a series about governance in the Pacific. People from around the region talk about their culture, politics and society in the 21st century. An interactive website is at URL www.abc.net.au/timetotalk. **Time to Talk** will air Wednesday 2130, Saturday 1505, Sunday 0830 UT.

I apologize in advance if this information turns out to be incorrect; I'll correct and amend this via the online information sources noted above.

BBC World Service program highlights

Tuesdays, 1506 and 2206; Wednesdays, 0206: **Go Digital** will have two special programs asking whether or not digital technology can help alleviate world poverty. Special

webcast features will be available at the World Service website; click on "Technology" to reach the **Go Digital** features. The specific dates for these programs was not available at presstime; check the online sources noted above for updates.

Wednesdays, beginning December 17th, 1545 and 2245; repeated Thursdays, 0245: **Heart and Soul** will feature a four-week series called **Modern Muslim Marriage**; the program visits Muslim communities in Britain, Malaysia and Iran to assess how Muslims are struggling to reconcile cultural expectations with their commitment to Islam.

Wednesday, December 17th, 1506 and Thursday, 0206: **Discovery** airs a special program marking the centenary of the Wright brothers' first powered flight. One week later, **Discovery** takes up the landing of the spacecraft *Beagle 2* on Mars with a special feature called *Small Dog on Mars*.

This should give you plenty of reasons to listen to the radio in December. I'm still interested in hearing your ideas for programming topics for exploration in this column. Please get in touch via e-mail or postal mail as shown at the beginning of the column.

May you and your family have a happy holiday season and the best of everything in 2004!

See you in January -

Richard



WWW Shortwave Listening Guide

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



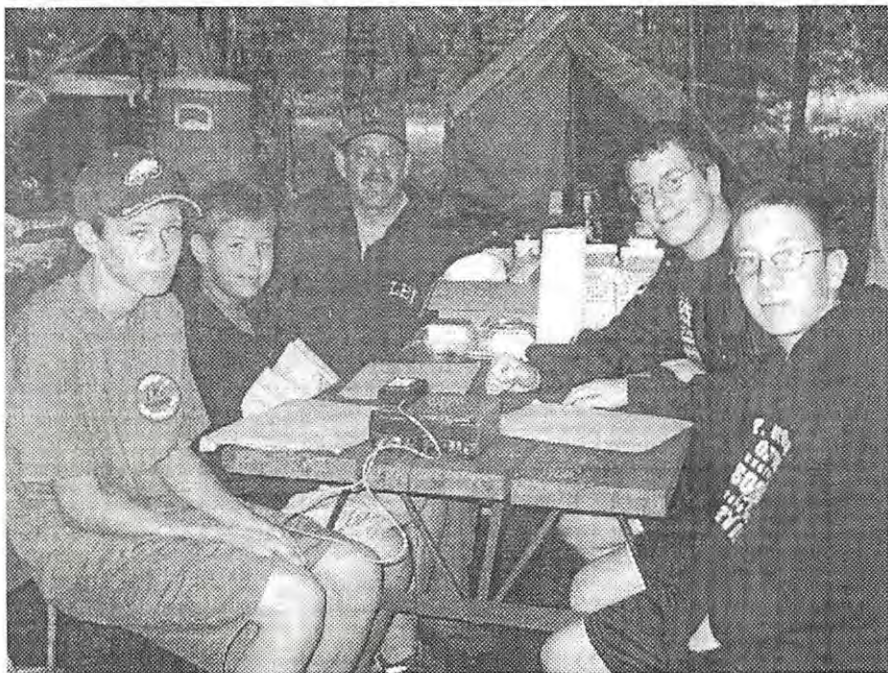
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The Radio Boy Scouts

A DXpedition of sorts to Cedarlands Boy Scout Camp July 2003

by Kris W. Field, Horsham, PA.



From left to right around the table: Corey Boyle, Brian Cross, Kris Field, Will Wojik, and Dan Field.

All of our listening was done while teaching/earning the Shortwave Listener Radio Merit Badge at Cedarlands Boy Scout Camp, Long Lake, NY in the Adirondacks; July 19-25, 2003 for scouts from Troop 3 BSA, Hatboro, PA. A relaxing week in the Adirondacks at Boy Scout Camp you say? Sounds like fun; and it was. Especially given that I was again teaching the SWL version of the Radio merit badge to Boy Scouts from Troop 3 during this week.

I brought along a Lowe HF 150 and an ample supply of batteries, a Grundig FR-200 emergency AM/FM/SW radio and a hand-held scanner. Out of the 54 scouts and 20 adults who went on this trip, 5 scouts signed up for the merit badge, Bryan Cross, Corey Boyle, Dan Field, Will Wojik, and Teague Kelly.

The week was filled with many other activities and merit badges; i.e., swimming, camping, cooking, hiking, sailboating, rock

climbing, wilderness survival, rifle shooting, archery, canoeing, First Aid, Tenderfoot, 1st Class, 2nd Class and other skills. There was also ample time to just plain goof off!

The first few days, we found it difficult to find the time to learn the theory required and then turn on the radios. The camping was in tents, but the boys needed to work as patrols to slog through the mud to the commissary (it rained 60% of the week we were there; day and night) to pick up food for each meal, cook it and clean up after themselves. Sounds relatively easy? Try cooking outdoors and boiling your water to clean up- all in an hours time. But the reward of exotic signals from the other side of the world awaiting brought the boys together each day. Remember the thrill and anticipation of music out of the Arabian nights? How about the wonder of all of the different languages; the hope of hearing secret signals from government agents? All this brought many of us to shortwave—it's still there. Ask any of these boys. Adventure awaits each time you turn on the radio. You never know what you'll hear.

To earn the radio merit badge one needs to learn about propagation and the ionosphere. The boys learned the uses of WWV to determine conditions at different times of the day and different frequency ranges. We explored the use of the different frequency bands for commercial, amateur, and public radio. We looked at a bit of electronic theory: the different types of equipment to transmit and receive; block and schematic diagrams and the uses and symbols for different components. Thank goodness for the web! I'm no expert in electronic theory, but there are good references so even I could present the basic electronic theory to the scouts.

The reward for getting through the theory was for each boy to get his hands on the dials. We found the time to sit down and have the boys tune the dials and listen to shortwave for 4 evenings and 2 mornings during our week. Like all good DXers and

SWLs, loggings needed an ID to be recorded. Each boy got a chance to show their skills and unique talents here. These young men are middle and high school age and all currently taking language classes. It was great to have a scout describe the argument the man and woman were having during one Spanish broadcast!

During our radio time, each scout kept a sheet or two of their loggings—they can look back later at their radio adventure. What I'll remember the most was the enjoyment of these young men tuning a signal from a foreign land, with hopes of an exotic logging...listening long enough to discuss what it might be...then finally hearing the station identify itself—maybe delivering that rare logging, but even when not, delivering a rare glimpse into the thrill of shortwave, the learning about other cultures, other countries, other people. Pretty much the same magic that brings me back to shortwave, time after time.

Here's just a few the loggings that we enjoyed: Loggings from Kris W. Field, Bryan Cross, Corey Boyle, Dan Field, Will Wojik, Teague Kelly:

15041 **Costa Rica** RFPI 2258 OM with EG lg bc. ID & Web address given.

15160 **Spain** Radio Exterior Espana 2310 OM & YL arguing in SP. ID @2313.

4915 **Unid** 2333 3 EG lg c&w tunes in a row. 2 stations co-channel. Ghana & Brazil—1 fades in & 1 fades out? Not enough time to hear ID. Strong signal. listened until 2343.

9580 **Australia** R Australia 1312 EG bc with OM announcer.

11990 **Kuwait** R Kuwait 2015 Strong signal. The Pretenders sing Brass in Pocket; other pop/rock songs. OM with ID @ 2030.

4845 **Mauritania** R Mauritania (p) 2349 OM in AR. Moderate signal.

Organizing the Shack

By Sheryl Paszkiewicz, Manitowoc, WI

I recently renewed my interest in DXing and QSL hunting. My reduced activity in recent years resulted in some incomplete record keeping and an incomplete picture of what stations were still out there that I needed. Therefore, I had to go through all my files and update such things as stations heard/verified, target lists, etc. What I did was not complex, but here is a synopsis which may help you in reorganizing that shack or organizing it for the first time. This is the inexpensive, bare bones version, not by any means all-inclusive. There are lots of commercially available resources and programs to help you do some of these things, but this is the homemade version of doing the "paper work" and a starting point.

Stations Heard—Go through your logbook and make a list of the stations you have heard. This should include station name, city, country, frequency, and whether you have a QSL. City and country should be that of the transmitter site. Next, enter this on the computer and sort by country. This can be done in a word processor or a data base. You may sort by frequency if you choose or make one list of each and print. This is helpful to determine whether what you have just logged is something you have or something you still need.

QSLs—I started years ago by keeping a chronological list of QSLs as I received them. Again, note the frequency and transmitter location you verified. This list can then aid you in applying for NASWA Awards.

Stations/Countries Needed—If you're country counting, take the *NASWA Country List* and make a list of the ones you don't have. Next, fill in the station name, frequency, and time where you might hear this in your area from information out of the Tropical and International Band Loggings Columns or Listener's Notebook. If it is from the

International Bands, you should also note the language it will be in. You may want to enter this list on the computer and sort by UTC time. If you're station hunting, you can again create your list from the Logging Columns, Flash Sheet, or by digging through the *WRTH*. Again, you want to jot down the UTC times through someone in your location may have a good shot of hearing the station. If you need scores of Tropical Band stations, you may be overwhelmed by just jotting down every station you don't have. I jot down the ones that were recently heard by other DXers. Then I also bandscan during prime DX hours (hours of darkness).

Awards—DX Centurion, etc.—From your by-country listing of stations heard/verified, make a list of one station per country so that you have that list ready for when you become eligible for the DX Centurion Award and its successors. You will need to plug in the dates of reception for each QSL. If you are doing this from scratch, it can be a job but it is worth it. Once you've done it, it's always at your disposal.

Award Parameters—Take the *NASWA Country List/Awards Booklet* and write down the awards you don't have. Next write down the requirements for each. For instance, the Brazilian award requires QSLs from 20 Brazilian states. What are these states? Look under Brazil in the *WRTH*. In the addresses section, the addresses are divided up by state. Write down the names of the states. Whenever you hear a new Brazilian, check what state is it from. If you QSL it, check it off of the list of Brazilian states. For all awards, keep your running list/tally up to date. That way, when you have all the requirements for that award, you can type it up and drop it in the mail instead of compiling the data at the last minute. I know when I become eligible for an award, I want to type up that application ASAP.

Transmitter Sites—Now that the Soviet Union has broken up, it is even easier to

determine which transmitter sites belong to which country. I am also thinking of Papua New Guinea and Indonesia here. You can pretty much figure these out by looking at the maps at your disposal and the addresses of the stations as shown in the *WRTH* or *Passport*. Make a list of the radio countries and which stations belong to these. This makes it easy to plug in whether what you are hearing on your radio is a new country for you.

Maps—I have a wall map with map tacks of all the station locations I've heard. I have one large pushpin in Manitowoc. Get a detailed world atlas for locating those tropical band stations. Then even if the city isn't on your wall map, you can put the map tack in the approximate place. You may also want to get individual fold-out country maps for the countries you are most interested in, such as Indonesia.

Reception Reporting—Writing your reports on the computer gives you an easy way to retain a copy for follow up if needed. Using a word processor or Microsoft Publisher, you can also make your own letterhead and add graphics to draw attention to your report once it reaches the station. For reporting to the international broadcasters, you may want to make up your own reception report form and just print blank copies to be filled in when needed. Make a list of the stations you have reports out to and the date each report and follow-up went out. Also note what enclosures or return postage you may have sent. Each week or month, go through the list and make a note to yourself of those stations which have not responded in 3-4 months and then do a follow-up. This is only for you diehard QSL hunters. Many of you may not want to put the effort into it. It sure beats years ago when we pounded out the reports on a manual typewriter.

DX Target: Radio UNAMSIL

The United Nations Mission in Sierra Leone

By Richard A. D'Angelo

Sierra Leone is a Western African country that had been locked in civil war conflict

for over a decade. The United Nations ("UN") Security Council established the United Nations Mission in Sierra Leone ("UNAMSIL") to cooperate with the Government and the other parties in implementing the Lomé Peace Agreement and to assist in the implementation of the disarmament, demobilization and reintegration plan. On 22 October 1999, the UN Security Council ("Council") authorized the establishment of UNAMSIL. Subsequently, the Council has revised UNAMSIL's mandate and expanded its size on 7 February 2000, on 19 May 2000, and on 30 March 2001. Radio UNAMSIL is the voice of the United Nations Mission in Sierra Leone. This DX Target will focus on Sierra Leone and the radio station with a mission of providing radio programming aimed at maintaining calm and cultivating trust among groups and individuals in this war torn African country.



The Country

Sierra Leone is a developing country in Western Africa, bordering the North Atlantic Ocean, between Guinea and Liberia that is emerging from a ten-year civil war. English is the official language, but Krio, an English-based dialect, is widely used.

The climate is tropical, hot and humid during the summer rainy season, which runs from May to December. The winter (December to April) is the dry season. Rainfall along the coast can reach 495 cm (195 inches) a year, making it one of the wettest places along coastal, western Africa

Sierra Leone is an extremely poor African nation with tremendous inequality in income distribution. It does have substantial mineral, agricultural, and fishery resources. However, the economic and social infrastructure is not well developed, and serious social disorders continue to hamper economic development, following a more than a decade long civil war. About two-thirds of the working-age population engages in subsistence agriculture. Manufacturing consists mainly of the processing of raw materials and of light manufacturing for the domestic market. There are plans to reopen bauxite and rutile mines shut down during the conflict. The major source of hard currency consists of the mining of diamonds. The fate of the economy depends upon the maintenance of domestic peace and the continuation of substantial aid from abroad.

Background

Beginning in March 1991, a civil war in Sierra Leone between the government and the Revolutionary United Front ("RUF") resulted in tens of thousands of deaths and the displacement of more than 2 million people (well over one-third of the population) many of whom are now refugees in neighboring countries. After several setbacks, the end to the eleven-year conflict in Sierra Leone appears to be near.

With the support of the UN peacekeeping force and contributions from the World Bank and international community, demobilization and disarmament of the RUF and Civil Defense Forces combatants has been completed. Reestablishment of government authority throughout the country is slowly proceeding and national elections took place in May 2002.

The civil war commenced when fighters of the RUF launched a war from the east of the country near the border with Liberia to overthrow the government. Sierra Leone's army tried at first to defend the government however, the following year the army itself overthrew the government. Despite the change of power, the RUF continued its attacks.

In February 1995, the United Nations appointed a Special Envoy, Mr. Berhanu Dinka (Ethiopia) to negotiate a settlement to the conflict and return the country to civilian rule. Parliamentary and presidential elections were held in February 1996, and the army relinquished power to the winner, Alhaji Dr. Ahmed Tejan Kabbah. The RUF, however, did not participate in the elections and would not recognize the results, therefore, the conflict continued. Over the ensuing years numerous peace agreements were signed and subsequently derailed for various reasons continuing a pattern of disruption that kept the country in civil war.

In June 1998, the Security Council established the for an initial period of six months. The mission monitored and advised efforts to disarm combatants and restructure the nation's security forces. Unarmed UNOMSIL teams, under the protection of the Military Observer Group of the Economic Community of Western African States, documented reports of on-going atrocities and human rights abuses committed against civilians.

In early 1999, the Government and the RUF rebels signed an agreement in Lomé to end hostilities and form a government of

national unity. The parties to the conflict also requested an expanded role for UNOMSIL. On 20 August 1999, the UN Security Council authorized an increase in the number of military observers to 210. On 22 October 1999, the Security Council authorized the establishment of UNAMSIL, a new and much larger mission with a maximum of 6,000 military personnel, including 260 military observers, to assist the Government and the parties in carrying out provisions of the Lomé peace agreement. At the same time, the Council decided to terminate UNOMSIL. On 7 February 2000, the Security Council revised the mandate of UNAMSIL to include additional tasks. It decided to expand the military component to a maximum of 11,100 military personnel. The Council also authorized increases in the civil affairs, civilian police, administrative and technical components of UNAMSIL.

The Security Council again increased the authorized strength of UNAMSIL, to 13,000 military personnel. On 30 March 2001, a further increase was authorized to 17,500 military personnel. The Council approved a revised concept of operations.

The Station

Radio UNAMSIL is the voice of the United Nations Mission in Sierra Leone. It is a Unit of the Public Information Section of the UN. The station is known as the *Voice of Peace* and broadcasts from Freetown, the country's capital city, on 103 FM and on shortwave using a nominal frequency 6,140 kHz although most reports have had them somewhat lower than that. Radio UNAMSIL utilizes a 1,000-watt Harris made transmitter, which has given it a sporadic worldwide reach. Its goal is to promote awareness, understanding, and tolerance among the peoples of Sierra Leone and help the people understand the implementation of the Lomé Peace Agreement.

UN Secretary-General Kofi Annan in establishing the station said "*Radio UNAMSIL would help the mission face the challenge of disseminating information on the peace*

process in a country whose infrastructure has been damaged by years of warfare." Consequently, the Secretary-General expected the station to play a significant role in the mission's efforts to inform the people of Sierra Leone, independent of any party or affiliation.

The broadcasting equipment arrived in Freetown on 18 May 2000. Four days later, the station commenced test transmissions on FM for 12 hours a day. Shortwave transmissions began later that year enabling the station to reach about 85% of the more than four million inhabitants in this difficult terrain country. Radio UNAMSIL carries out its activities with a workforce of approximately 12 staff members, from its location at the Mammy Yoko Hotel in the West End of Freetown along Aberdeen Beach. The two production studios are also located at the Mammy Yoko Hotel. Radio UNAMSIL is now running 24 hours a day with programs aimed at maintaining a peaceful atmosphere and cultivating trust in the country. The station broadcasts 24 hours daily, airing programming featuring peace promotion, music, local news, and features relating to United Nations activities in Sierra Leone. Radio UNAMSIL, which is fully funded by the United Nations, operates with a stated objective to promote the peace process, entertainment and education, and to encourage the Revolutionary United Front rebel forces to disarm and bring the nation's decade long war to an end.

The station broadcasts a *Current Affairs Krio Magazine Program* from 2200 hours UTC. On Thursdays through Sundays from 2300 to 0600 UTC is *Contingent's Night* where each of the UN military contingents are given a chance to run its own program on these nights. These broadcasts feature music and stories. Other evenings feature a locally produced program called *NightLine*. Most of Radio UNAMSIL's programming is produced in a live format, with the exception of the station's official statements. The station airs phone-in public participation programs and pre-recorded mini-documentaries on an infrequent basis. All broadcasts are aired in English with the exception of

greetings in the different languages of countries that have contributed soldiers to the Peacekeeping Forces. About 70% of the programming features music and entertainment. Another 15% feature press releases from the UN headquarters in New York and 15% is devoted to reporting on UN activities on the ground. About a quarter of Radio UNAMSIL's programming is externally produced.

Sheila Patricia Dallas is the General Manager of Radio UNAMSIL, a station committed to offering objective information in an environment often charged with rumors and politically driven news from all sides. The airwaves have become a critical tool for supporting the UN peacekeeping mission. Her motto is, "Misinformation is more deadly than no information at all." Radio UNAMSIL's staff is comprised primarily of international broadcast professionals and a few Sierra Leone broadcast journalists who are receiving training in equipment and performance, news writing, reporting, production, editing, and broadcast studio techniques.

According to Ms. Dallas, "Radio is cheap to produce and to receive. There is a reason that radio is the media of the masses in the poorest parts of the world. Illiteracy is rampant, therefore newspapers are ineffectual. Unlike in the United States and other wealthier countries where television is the primary means of communications, the broadcast technology here is expensive and the price of sets is out of the reach of most people. There is some TV here in Freetown, but it doesn't reach the whole country. Radio can. In most places, electricity is erratic or even nonexistent. Radios can be powered by batteries or even hand-crank." Thus, the value of radio as a superior communications tool has been validated once again in another strife filled part of the world.


Radio UNAMSIL is modeling its efforts at building a national audience on UN efforts elsewhere, like the UN station, Radio Minurca, operated by the Central African Republic ("CAR") mission. The CAR equipment was donated to the United

Nations by the Danish government for use in the organization's peacekeeping operations. With the completion of the CAR mission, the radio equipment was available for redeployment for use in Sierra Leone.

Radio UNAMSIL develops and produces energetic programs directed at all ethnic groups, including women and children's shows. The station features special programming on health, current affairs, civic education, human rights, arts, theatre, etc. Arts programs, current affairs, news and sports are prominent in the broadcast line-up. Music is driving the station's message to the youth of the country. Music continues to promote peace and harmony among the youth in Sierra Leone. All of these programs aim at maintaining calm and cultivating trust among groups and individuals. Similar to commercial radio stations throughout the world, Radio UNAMSIL uses buttons, bumper stickers, posters and tee shirts to promote the station. I was fortunate to receive one of the station's new logo tee shirts with my QSL response letter from Ms. Dallas.

The station appears that it will be a good verifier of listener reception reports, however, hearing them could be a serious hurdle these days. I have not seen any recent logs for this station. A postal report may take some time but will be answered with a full data letter from Sheila Dallas, Station Manager and Executive Producer of Radio UNAMSIL. Written reception reports with return postage can be sent to:

Radio UNAMSIL
Mammy Yoko
P. O. Box 5
Freetown
Sierra Leone

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

Technical Topics

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Anti-BPL Forces Muster For Battle

On November 7, 2003 the American Radio Relay League (ARRL) sponsored a meeting of various organizations that had previously expressed at least a cautionary posture to BPL regarding the FCC's Notice Of Inquiry 03-104. The National Association of Broadcasters in Washington, DC hosted the meeting. I represented NASWA and the interests of the entire shortwave listener community. The ARRL has published their summary of the meeting in the *ARRL Letter*, Vol. 22, No. 45, November 14, 2003. Quoted statements in this article are from that letter. You can access that letter via the ARRL web site at: <http://www.arrl.org/arrlletter/>.

Here are some observations from my personal notes.

One would think, that with the future of shortwave broadcasting in North America at stake, companies whose sales depend in large measure on shortwave radio would have been well represented. Only Yaesu, of all the receiver manufacturers and retailers, was present and ably represented by Chip Margelli. He is with the Engineering/R&D Department of Vertex Standard's Amateur Division and traveled from California to make important contributions to the discussion. However, Icom, MFJ, Sangean, Kenwood, Eton Corp. (Grundig North America), Grove Enterprises, and Passport To World Band Radio were invited to attend but for one reason or another did not show.

Many amateur radio organizations were represented at the meeting. The ARRL was there in spades including Dave Sumner, CEO; Paul Rinaldo, Manager of Technical Relations; Chris Imlay, General Counsel; and several representatives of the League's Washington lobbyist firm. In addition several representatives of the Amateur Satellite Corporation

(AMSAT) and the Amateur Radio Research and Development Corporation (AMRAD) attended.

A number of "inside the government" agencies participated as observers. They included the Department of Defense (DoD), ARINC, and The National Science Foundation (NSF). We all know what the DoD does. ARINC is a company that plans, installs and operates among other things the HF radio network used by the FAA for communications with aircraft. The NSF supports and funds radio astronomy telescopes. Some worldwide radio astronomy allocations are threatened by deployment of BPL technology.

Other represented organizations that do not fit into any of the above categories included NASWA, the National Association of Broadcasters, the Consumer Electronics Association, and APSCO International, the organization of public safety entities. George Jacobs represented The National Association of Shortwave Broadcasters (NASB). He heads George Jacobs & Associates, the engineering consulting firm representing many NASB member broadcasters to the FCC. He also has a long and distinguished background with the VOA and brought a reasoned and mature Washington-insider perspective to the BPL issue.

The primary purpose of the meeting was to share current information on where the NOI process stands and to allow each represented organization to express their specific concerns.

As you may remember from previous *Technical Topics* columns, one solution the BPL proponents have put forth is to provide protection to amateur radio by notching out certain frequencies. I expressed the

hope that all the attendees would reject that concept. Sparing amateur radio bands, for example, of interference will only mean that the energy will be diverted to frequencies used by other services like shortwave broadcast. I expressed the desire that we all work together to squash BPL rather than support a "not-in-my-back-yard" approach. I urged the attendees to avoid this trap and instead present a united front against BPL that protects all licensed spectrum users.

I also tossed out a possible argument that might be made that shortwave broadcasting and the right to freely access information should be protected under the First Amendment of the US Constitution. Those present with experience interfacing with the current FCC commissioners did not think such an argument would fall on friendly ears at the FCC. Another attendee pointed out that an argument could be made that BPL would actually expand most people's ability to access news and information by enhancing the ability to get high-speed Internet access. Instead of restricting free speech or a free press, it could be argued that BPL would actually expand these protected rights. Knowing a brick wall when I hit it, I quickly abandoned the idea.

The ARRL reported on the current status of their tests and field trials. A video presentation showed the interference on a typical amateur radio receiver at two different test locations. One site used a form of digital spread spectrum technology. The interference sounded like the antenna was loose and blowing in the wind. Rapid clicks were heard presumably in sync with packet data transfers. The other site used frequency division multiplexing. In this technique approximately 1000 separate carriers, each with FSK modulation, could be heard across the HF spectrum. As the receiver was tuned across the band, one heterodyne after another could easily be heard. The video showed the s-meter running s-9 on each carrier. The antenna for this test was a short horizontal dipole mounted a few feet above the roof of a station wagon as it drove

down the road under the power line. Signals could be detected up to one kilometer from the power line. If you have a high-speed Internet connection, you can download the video from the ARRL web site at:

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

In the November edition of the *NASWA Journal* I related the contents of a speech by FCC Commissioner Abernathy in which she projected unabashed support for BPL ignoring the thousands of comments warning of the interference potential of BPL. The ARRL CEO, Dave Sumner, related the gist of a communication he had with Commissioner Abernathy's Senior Legal Adviser, Matthew A. Brill. Brill is reported to have said, "We regret that the Commissioner's remarks may have been interpreted as suggesting an absence of concern over harmful interference." Mr. Brill is further quoted as saying Commissioner Abernathy did not intend to suggest that BPL "necessarily will emerge as a viable platform or that it does not present interference issues." Brill assured the ARRL that, "ensuring that BPL and all new technologies avoid causing harmful interference to licensed RF users is a bedrock position for Commissioner Abernathy." Attendees at the meeting interpreted that response as good news.

The city of Manassas, Virginia has decided to provide BPL connectivity for all its citizens and businesses over its municipal power system. ARRL has put the City of Manassas "...on notice that on behalf of its members who live in and use public thoroughfares of Manassas, the ARRL will ensure that there is full compliance with the FCC regulations."

AMRAD has purchased some HomePlug modems to test their susceptibility to amateur radio radiation. In one test the antenna was located about 15 meters from the modems. At a transmitted power of only 10 watts on 14 MHz, 80% of the packets were interrupted. At 100 watts all com-

munications ceased. At higher power, RF irreversibly damaged the modems. With amateur radio operators presently permitted to use output powers up to 1000 watts, it is feared that once BPL is widely deployed and enough modems damaged, the FCC will be under the gun from the BPL lobby to severely reduce authorized power levels for amateur radio.

The US Government representatives were limited in how much they could reveal about what was happening inside their agencies. They stated that they were there to learn as observers. They did leave me with a strong impression that the National Telecommunications and Information Administration (NTIA) of the US Department of Commerce is moving ahead with their own independent assessment of the interference potential of BPL technology. The NTIA is responsible for coordinating radio communications issues of the various elements of the US Government much as the FCC regulates private radio communications in the USA. The presentation by Paul Rinaldo of ARRL actually contained a photo of an NTIA truck parked in Emmaus, PA, the site of one of the BPL tests currently in progress.

The representative from ARINC told a horror story of an aeronautical HF receiving site near Half Moon Bay, California. In the adjacent community, off-the-shelf, in-home, power-line modems are widely in use. (Californians tend to be early adopters of new technology.) Some frequencies previously used at this site are no longer useful because of interference from the nearby modems. Even worse, there are so many different sources of interference that normal direction finding techniques cannot be used to locate specific homes with such devices.

Representatives of public safety organizations were opposed to any solution that involved use of the low VHF band frequencies. They pointed out that many volunteer fire departments still use those frequencies

and cannot afford to relocate to an 800 MHz trunked technology. They also pointed out that the federal government and many state police organizations use HF frequencies for long haul emergency communications.

Near the end of the discussion, George Jacobs opined that it seemed to him that the best arguments against BPL would be based upon the need for HF/VHF communications to support homeland security and safety of life. Another attendee said that hitching our arguments to homeland security could be dangerous because BPL proponents could argue that high-speed Internet access via BPL could actually enhance the ability of many to communicate via the Internet.

Dave Sumner presented some ideas for future possible actions by opponents of BPL. Presentations to FCC engineers and commissioners were mentioned. Other target government agencies were also suggested like NTIA and even the Department of State. One problem that was noted by ARRL is that the amateur radio community was overwhelmingly represented in the 5000 or more comments received by the FCC to date. A more diverse population of opponents would enhance the chances of leaving a lasting impression at any presentation. I volunteered to represent NASWA and shortwave listeners in any presentations the ARRL may schedule in the future to the FCC or other agencies.

The BPL issue is presently not on the RADAR screen of the US Congress. ARRL reported that BPL industry representatives have been talking to staff members of telecommunications subcommittees but that is as far as the process has gone to date.

A Notice of Proposed Rule making (NPRM) is expected some time in the first quarter of 2004 if the FCC decides to proceed. Once that notice is promulgated there will be another round of comments and reply comments. Stay tuned.



Listener's Notebook

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BANGLADESH Bangladesh Betar External Service winter schedule

1230-1300	English	7185 9550
1315-1345	Nepali	7185 9550
1400-1430	Urdu	7185 9550
1515-1545	Hindi	7185 9550
1600-1630	Arabic	7185 9550
1630-1730	Bangla	7185 9550
1745-1815	En-VOI	7185 15520
1815-1900	En-GOS	7185 9550 15520
1915-2000	Bangla	7185 9550 15520

En-GOS is General Overseas Service in En. En-VOI is Voice of Islam program in English (Chakroborty-IND, Nov 22/DX Listening Digest/Hauser-OK)

BHUTAN BBS increased airtime: Mo-Fr 0055-1500, Sa-Su 0100-1300. Until now the schedule on 6035 has been: MF 0100-1230 with no broadcasts on Sa and Su. Thus a better chance for DXers to catch them! (Anker Petersen, DSWC/DX Window Nov 19/DX Listening Digest/Hauser-OK)

BOLIVIA 4716.7 Radio Yura, Yura, returned frequency noted 21 November at 2310 - 0000, fair signal, have not heard this emisor is several weeks (Bob Wilkner-FL/DX Listening Digest/Hauser-OK) Absent again 26 November. (Wilkner-FL/Cumbre DX)

4761.65 **Radio Guanay**, Guanay 2310-2325 with "musica andina" with rather deep fades. 21 November (Wilkner-FL/Hard Core DX)

4902.09 **Radio San Miguel**, Riberalta 1000 - 1020, frequent ID's by M, the strongest of the Bolivians on 60 meters. (Wilkner-FL/Cumbre DX)

5952.47 **Emisora Pio XII**, Nov 25, 0948-0957, beautiful signal, announcer reading lots of names between instrumental Andean music breaks, then reception literally smashed at 0957 by the triumphal +50dB over blaring trumpets of Family Radio on 5950. The perfect metaphor for the state of the world these days. (Mohrmann-VT/Cumbre DX)

5964.82t **Radio Nacional**, Huanuni 0930-1012 M in sp, threshold signal level ... 24, 25, 26 November (Wilkner-FL/Cumbre DX)

6085.27 **Radio San Gabriel**, La Paz (Bolivia) 10/Nov/2003 - 2345. Back on this frequency after some time on 6080. Quite strong but distorted signal. (Bjorn Malm, Quito, Ecuador/SWB America Latina/Hard Core DX)

CHILE Voz Christiana schedule:

0000-0100	Portug.	11745 15475
0000-0100	Spanish	6070 17680
0100-0400	Portug.	11745
0100-1000	Spanish	6070 15375
0400-1100	Portug.	11890
1000-1100	Spanish	9635 15375
1100-1200	Spanish	9635 11935 15375
1100-2000	Portug.	21500

1200-1300	Spanish	8635 11935 17680
1300-1400	Spanish	9635 17680 21550
1400-2400	Spanish	9635 17680
2000-2100	Portug.	15355 21500
2100-2200	Portug.	15355 15475 21500
2200-2300	Portug.	11745 15355 15475
2300-2400	Portug.	11745 15475

(Observer-BUL)

CHINA China Radio International English schedule effective 26 October:

0100-0200	9580-Cuba	9790-Canada
0300-0400	9690-Spain	9790-Canada
0400-0500	9755-French	Guiana
0500-0600	9560-Canada	
0900-1100	15250	17690
1200-1300	9730 9760	11760 11980 15415
1300-1400	9570-Cuba	11760 11900 11980
	15180	
1400-1600	11675 11765 13685	15125 17720- Cuba
1500-1600	7160	9785
1600-1800	7190 9570	13685 15125
1900-2000	9440	9585
2000-2100	5965 9440	9840 11640 13630
2100-2200	5965 9840	11640 (to 2130) 13630 (to 2130)
2200-2300	7170	
2300-2400	5990-Cuba	13680-Canada

(CRI On-Line via Nov BDXC-UK Communication/DX Listening Digest/Hauser-OK)

Xingjiang PBS starts now on 4980 and 5060 at 2330 (ex 0000). No signal observed on 4500 at that time. (Karel Honzik, Czech Republic/Hard Core DX)

CHINA - TAIWAN The Radio Taiwan International B03 schedule in English:

Hour One transmissions	
0200-0300	5950W 9680W 11785 15320
0300-0400	15125
0700-0800	5950W
0800-0900	9610
1200-1300	7130
1400-1500	15265
1600-1700	11550
2200-2300	9355W

Hour Two transmissions

0200-0300	15465
0300-0400	5950W 9680W 11785 15320
1100-1200	7445
1700-1800	11550
1800-1900	3955-UK

W=via WYFR
(website/Dave Kenny, Nov 5, BDXC-UK/DX Listening Digest/Hauser-OK)

CLANDESTINE - AFRICA 5500 Voice of Tigray Revolution, 0421-0436, Nov.24, Ahmaric?, Didn't think to check for this parallel of 6350 until later! Presumed interview with W speaking briefly on a few occasions followed by an M with long talks. Vocal music at tune-out. Fair at t/in, beginning to fade-out around 0430, much better copy than 6350. (Barbour-NH/Hard Core DX)

6350 **Voice of Peace and Democracy**, 0338-0351*, Nov.24, Ahmaric?, long talk at t/in, Horn of Africa music at 0348, brief talk and more mx. Weak talks at 0350 with "echo" vocal effects (presumed ID). Fair/poor. (Barbour-NH/Hard Core DX)

6350 **Voice of Tigray Revolution**,* 0356-0410, Nov.24, Ahmaric?, Horn of Africa music until 0400, M w/ talk and musical jingles, different M w/ fast-paced talks, back to original M w/ long talk. Fair/poor. (Barbour-NH/Hard Core DX)

7380 **Voice of Biafra International**,* 2100-2113, Nov.22, English, Sign-on w/ music and familiar ID "You are listening to Voice of Biafra International coming to you from Washington, D.C. transmitting on frequency 7380 in the 41 meter band, Please stay tuned for the entire hour". This was repeated 3 times with instrumental music between IDs. A male speaker was noted with a passionate talk regarding corruption and "liberty and justice in our land". Fair/good. (Barbour-NH/Hard Core DX)

17870 **Radio Rhino International**, 1527-1558*, Nov.22, English, End of interview followed by ID, "You are listening to Radio Rhino International, short wave radio Africa" w/ a request for e-mails (no address given), phone numbers for Germany and web address www.radiorhino.org. (Barbour-NH/Hard Core DX)

COLOMBIA 10282V **HJKS LV del Llano**, Villavicencio 24/Nov/2003 - 2355. Strong signal and clear IDs this time. Last month I made a mistake reporting 10262V LV del Guaviare, San Jose de Guaviare (Colombia) with program not in // with Guaviare on 6035. I'm VERY sorry! Is giving their SW frequency 6115 but presume it's inactive. It has to be an harmonic from MW 1020. You can within 24 hours listen to a recording of the station on SWB homepage: <http://homepage.sverige.net/~a-0901/> (Bjorn Malm, Quito, Ecuador/SWB America Latina/Hard Core DX)

CONGO - DEMOCRATIC REPUBLIC Radio Okapi is currently not on shortwave; FM only (David Smith, UN, via DXplorer/DX Listening Digest/Hauser-OK) (finally I can stop trying to hear them through the RTTY that demolishes 11690 - AQ)

CONGO - THE OTHER ONE Radio Congo heard on new 6115 October 30th at 1810 with French news, fair on clear channel (Mike Barraclough, UK, World DX Club Contact/DX Listening Digest/Hauser-OK)

COSTA RICA 7445 **Radio For Peace International** was silenced November 5 by the University For Peace, which cut power to the station. (various sources). While a spate of angry activist press releases paint a picture of a noble broadcaster being persecuted for its philosophy, none seem to mention whether RFFI was paying its bills, which might make this a simple landlord foreclosure rather than a political vendetta. (aq)

DENMARK In December one of the pioneers of early European Music Radio, **World Music Radio**, originating in Holland in the 60's and 70's and broadcasting from Andorra, Milano

and Dublin in the 80's and 90's will be back on the air as the first privately owned and officially licensed shortwave station in Denmark. Stig Hartvig Nielsen, for many years a well-known DX'er, will play a leading role in the relaunch of the station.

The new WMR will also be streamed on the internet at www.wmr.dk and operating on FM in Denmark with a cheerful and truly world music format with the best in current chart hits and the classics from the past from all continents.

Yours faithfully World Music Radio c/o Hartvig Media DK-8900 Randers Denmark f. Stig Hartvig Nielsen Knud Hyllested (Slaen, Argentina/Hard Core DX)

DOMINICAN REPUBLIC 4959.86 **Radio Cima**, 0707, Oct 29, ID and jingles for Radio Cima first for 100.5 FM only, then 2d ID for the several stations in the Vargas network, incl. 4960 as "Radio Global," which I thought was just an informal reference to its reach. Then I checked their website (also mentioned on air) <http://www.cima100fm.com> and I see that 4960 is shown there as "Radio Global International" with its own distinct logo, as the others have. Fairly good signal (Jerry Berg, MA, DSWCI DX Window Nov 5/DX Listening Digest/Hauser-OK)

GUATEMALA 4052.47 **Radio Verdad** - 15 Nov. - 1110, SS, choral Guatemalan NA, M with facts about Guatemala and a patriotic talk. "Radio Verdad" ID at 1118, gave address: Apartado 5 (missed the rest), Guatemala, gave phone #, into program called "Musica de nos amigos", marimbas and lite vocals. (Chris Knight, Colorado/Hard Core DX) English ID noted: "This is educational and evangelical station, Radio Truth, on 4.05 megahertz, 75 meterband... Chiquimula, Guatemala, Central America...for you. We ask you to report our signal. Address is educational and evangelical station Radio Truth, P.O. Box 5, Chiquimula, Guatemala, Central America. And don't forget to write your name and address, and the names of our programs you listened to. And we will answer your letter and send to you our banner and QSL card. If you want to help us with ?? ministries, you can send your offering via post ?? Radio Truth, P.O. Box 5, Chiquimula, Guatemala, Central America. God bless you." (Dave Valko, PA, Cumbre DX)

Father Bernadine Ness, who lives in Coban, Guatemala, reports that **Radio Tezulutlan** has abandoned HF in favor of FM. (Mike Gorniak, Nov 15/DX Listening Digest/Hauser-OK) [Another one bites the dust, I used to love hearing their marimba music in the morning - AQ]

INDIA All India Radio external services:

0000-0045	Tamil	4790 9835 9910 11740
		11985 13795
0015-0430	Tamil	6155 9595
0045-0115	Sinhala	4790 11985
0100-0200	Sindhi	5990 7125 9635
0100-0430	Urdu	11620
0130-0230	Nepali	3945 7250 9810 11715
0215-0300	Pushtu	9835 9910 11735
0215-0300	Kannada	11985 15075
0300-0345	Dari	9835 9910 11735
0315-0415	Hindi	11840 13695 15075
		15185 17715
0400-0430	Persian	11730 13620 15770
		17845
0415-0430	Gujarati	15075 15185 17715

0430-0530	Arabic	11730 13620 15770 17845	4940	Guwahati	0015-0415, 1150- 1700/1741
0430-0530	Hindi	15075 15185 17715	4950	Srinagar	s0025/w0120-0200 1130-1736
0530-0600	Urdu	11730 13620 15770 17845	4960	Ranchi	0025-0435, 1125(Sun 1130)-1741
0700-0800	Nepali	7250 9595 11850			
0830-1130	Urdu	7250 9595 11620	4970	Shillong	0025-0400, 1056-1630
0845-0945	Indones.	15770 17510 17875	4990	Itanagar	0020-0400, 1000-1630
1000-1100	English	7270 13710 15020 15235 15260 17510 17800 17895	5010	Thiruvananthapuram	0020-0215, 1115(Sun 1130)-1735
1115-1200	Thai	13645 15235 17740	5040	Jeypore	0025-0435 (Sun 0445, Sat 0545 v), 1130(Sun 1030)-1741
1145-1315	Chinese	11840 15795 17705			
1215-1245	Telugu	13710 15770 17810	5050	Aizawl	0025-0400, 1130(Sun 1125)-1630/1700
1215-1315	Burmese	11620 11710			
1215-1330	Tibetan	9575 11775	5965	Jammu	0630-0930
1230-1500	Sindhi	6165 9620 11585	5985	Ranchi	0700-0945 (Sun 0630- 1130)
1300-1500	Sinhala	7275 9820 15050			
1315-1415	Dari	7255 74107 9910	6000	Leh	0655-0900(Sun 1130)
1330-1430	Nepali	3945 4860 6045 11775	6020	Shimla	0215-0400 (Sun 0415- 1230), 0700-0936 1130- 1230
1330-1500	English	9690 11620 13710			
1415-1530	Pushhtu	7255 74107 9910			
1430-1735	Urdu	3945 4860 6045	6030	Delhi D8	0200-0310
1500-1600	Baluchi	6165 9620 11585	6030	Delhi D7	1215-1430
1515-1600	Gujarati	11620 13645 15175	6040	Jeypore	0700-0935
1515-1615	Swahili	9950 17670	6085	Gangtok	0700-0930
1615-1715	Russian	11620 15140	6085	Delhi D8	1220-1310, 1330-1340, 1345-1420, 1430-1440, 1445- 1615/1630/1700/1730v, 1730-1740
1615-1730	Hindi	7410 9950 12025 13770 15075 17670			
1615-1730	Persian	7115 9905 11585			
1730-1830	Malay.	7115 12025			
1730-1945	Arabic	9905 13620	6110	Srinagar	0215-0453 (Sun 1115), 0600-1115
1735-1930	Urdu	4860 6045			
1745-1945	English	7410 9445 9950 11620 11935 13605 15075 15155 17670	6150 6190 7105	Itanagar Delhi Lucknow	0700-0900 0700-1030 0630(Sun 0415)-0930, 0935-0936
1945-2030	French	9905 13605 13620			
1945-2045	Hindi	7410 9950 11620	7115	Port Blair	0315-0346 (Sat 0415, Sun 0505), 0700- 0930(Sun 1015)
2045-2230	English	7410 9445 9575 9910 9950 11620 11715			
2245-0045	English	9705 9950 11620 11645 13605	7120	Jaipur	(Sun v0420-0600), 0700(Sun 0630)-0931, (Sun 1030-1120)
2300-2400	Hindi	9910 11740 13795			
Regional (<100 kW) transmitters:					
3223	Shimla	0025-0200, 1300- 1730(Sat, Sun 1741)	7130 7140	Shillong Hyderabad.	0655-0930 0225-0445(Sat, Sun 0500), 0610-0930 (Sun 0530-1130)
3315	Bhopal	0025-0215, 1130-1742	7150	Delhi D7	0030-0040
3365	Delhi D6	1220-1841	7150	Imphal	0230-0430/0530.0630- 1000
3390	Gangtok	0100-0400, 1030- 1600(Sun 1630)	7180	Chennai	0300-0400(Hol 0445, Sun 0530), 0710(Hol 0610, Sat/Sun 0630)- 0930(Sun 1130)
3945	Gorakh.	0130-0230 Nepali, 0230-0300 HS, 1330- 1430 Nepali, 1430- 1735 Urdu	7180	Bhopal	0225-0447 (Sun 1115), 0700-0931
4760	Leh	s0100/w0215-0430, 1130-1630/1700	7190 7210	Guwahati Kolkata	0630-1730 (Tests) 0230-0401 (Sat, Sun 0430), 0700-1000
4760	Port Blair	2355-0300, 1030- 1630/1700/1730			
4775	Imphal	0030-0215, 1030- 1700/1730	7220 7235	Kurseong Delhi D4	0619-1030 (Sun 1115) 0215-0320, 0330-0355
4800	Hyderabad.	0025-0215, 1130(Sun 1140)-1744	7240 7250	Mumbai Gorakhpur	0530(Sun 0415)-1035 0700-0800 Nepali, 0830- 1130 Urdu, 1130-1140 HS
4820	Kolkata	0025-0215, 1220-1744			
4830	Jammu	0025-0445, 1030- 1100, 1130-1741	7280	Guwahati	0600-0930, 0945-1145 (Sun 0530-1145)
4840	Mumbai	2355-0400, 1230-1730	7290	Thiruvananthapuram	0230-0415(Sun 1030), 0630-0930
4850	Kohima	0000-0450, 1000- 1600/1630/1700	7295	Aizawl	0700-0930
4860	Delhi D6	0025-0440			
4860	Delhi D1	1220-1330 HS, 1330- 1430 Nepali, 1430- 1930 Urdu			
4880	Lucknow	0025-0400, 1215-1741			
4895	Kurseong	0055-0400, 1130- 1700(Sat, Sun 1741)			
4910	Jaipur	0025-0415, 1130-1741			
4920	Chennai	0015-0245, 1200-1736			

4760/7115 AIR Port Blair, celebrated its 40th anniversary on June 2nd. Shortwave was introduced in 1989. Last April one of the two exciters in the NEC transmitter broke down and since then the SW transmitter has only been running at 5 kW. As NEC no longer produces

any spare parts, the AIR Research & Development Dept. has been asked to design and produce a replacement exciter, but this could take a while yet. SW is only intended for the most Northern and Southern islands in the long island chain. This is especially so since last May a new 100 kW Thales MW transmitter came on the air on 684 to replace the old 20 kW transmitter which now serves as a standby unit. The SW and MW transmitters are located at Brookshabad, 8 km (as the crow flies) South of Port Blair, and a dipole array ensures North-South SW coverage.

The station is on the air as follows: 2355-0300 on 4760, 0310-0340/(0500 Sunday) on 7115, 0730-0930/(1000 Sunday) on 7115, 1030-1700/(1900 on Sat and Sun.) on 4760. The station's main broadcasting language is Hindi and only one or two programs in English are produced locally. There is a short daily program in Sanskrit at 0125-0130. Other languages are Malayalam 0700-0730 (daily except Sunday), Bengali 1200-1230 daily and 0930-1000 Sunday, Nicobari 1030-1100, Telugu 1100-1130 & Tamil 1130-1200, all daily. The correct address of the station is: AIR, Delanipur, Haddo Post, Port Blair 744102 (Maarten Van Delft, visiting Port Blair, DSWCI DX Window Nov 5/DX Listening Digest/Hauser-OK)

3390, *AIR Gangtok*, Sikkim, heard at 0100-0400 and 1030-1600 on 3390. The station mainly broadcasts in Nepali, but has daily programs in Hindi 1030-1100, Lepcha 1100-1130, Limboo 1130-1200 and Sikkimese 1200-1230. There are programs in Hindi every Friday at 1430 and in English every Saturday at 1430. It no longer broadcasts on 6085 at 0700-0930 (Maarten Van Delft, visiting Sikkim, DSWCI DX Window Nov 5/DX Listening Digest/Hauser-OK)

IRAN Some clarification regarding *Voice of Justice/Voice of the Islamic Republic of Iran*, based on my monitoring of their satellite streams on 15th November:

The 1030-1130 English broadcast is beamed to Azerbaijan and the Indian subcontinent and identifies as "Voice of the Islamic Republic of Iran" throughout. Their website lists SW frequencies as 15480, 15550, 21470.

This is followed at 1130-1230 by a separate English broadcast for North America (unlisted on IRIB's website), announcing just two frequencies, 6035 and 9835. This is quite early for that part of the world, but the time of this broadcast is announced as 0130-0230! Identification throughout this broadcast is "the Voice of Justice broadcast, from the Islamic Republic of Iran", but the gong, signature tune, incidental music by Vangelis, etc., are as used in other VIRI broadcasts.

As for the Voice of Justice ID being heard on frequencies such as 15550, I think this can be explained by the engineers at VIRI often being very tardy in switching off or retuning their transmitters at the nominal end of transmission on a given frequency - on occasion I've heard a VIRI World Service broadcast on an apparent "new" frequency, only to find it disappearing after the first 5-10 minutes. So I would suggest that the Voice of Justice ID heard on 15550 around 1130 was in fact the start of the 1130 English transmission rather than the end of the

1030 one...

You can hear a clip of Voice of Justice on the Interval Signals Online website at <http://www.intervalsignalsonline.com> (Dave Kernick/Hard Core DX)

In recent weeks, there has been a lot of speculation about the future of shortwave broadcasting from Iran. In letters to listeners they were informing them that shortwave was being reduced in favor of the Internet. They encouraged feedback from listeners and a number of listeners, including myself, wrote in to the station about continuing shortwave broadcasting. After waiting for about a week or so, I received the following encouraging reply from the station:

"Dear Richard D'Angelo, Many thanks for your comments on the importance of short wave. We have again established frequencies for North America. I would be very pleased if you listen to it and send us a reception report. The frequencies are as follows: 9580 and 6120 at 0030 to 0230. I would also be pleased if you listen *IRIB* English radio through internet (www.inbworld.com) and let us know the quality of the voice the its speed.

We thank you in advance.

Best Regards
English Radio"
(D'Angelo-PA)

KOREA - SOUTH *Radio Korea International B-03* Schedules

0000-0100	Japanese	11810
0100-0200	Korean 2	15575
0100-0200	Spanish	11810
0200-0300	English1	9560S 11810 15575
0300-0400	Korean	11810
0700-0800	German	15210
0700-0800	Spanish	13670
0700-0800	Korean2	9535K
0800-0900	French	15210
0800-0900	English1	9570 13670
0800-0900	Japanese	5975 7275
0900-1000	Korean	15210
0900-1100	Korean1	5975 7275 9570 13670
1000-1100	Spanish	9580 9760S 15210
1100-1130	Kor. News	9650S
1100-1200	Russian	5975 6135
1100-1200	Japanese	7275 9570
1130-1230	Chinese	6065
1130-1230	English1	9650S
1200-1300	Korean1	7275
1200-1300	Japanese	5975 6135
1200-1300	Indones.	9570 13670
1300-1400	Chinese	5975 6135 7275
1300-1400	English1	9570 13670
1400-1500	Japanese	5975 7275
1400-1500	Indones.	9570 13670
1600-1700	English1	5975 7255 9870
1600-1700	Russian	9515
1600-1700	Korean1	7275
1600-1700	French	7150
1700-1800	Korean1	5975 7150 7275 9515
1800-1900	Korean1	5975 7150 9515 9870
1800-1900	Russian	7275 7235K
1800-1900	French	6150
1900-2000	Arabic	6150 7150 15365R
1900-2000	English1	5975 7275
1900-2000	French	7150
1900-2000	Korean1	9870
1900-2000	Russian	9515
2000-2100	Spanish	15575

2000-2100 Russian 7275
 2000-2100 Chinese 5975
 2000-2100 German 3955K
 2100-2200 French 6145K
 2100-2200 Chinese 6035
 2100-2300 Korean1 5975
 2200-2230 English2 3955K
 2200-2300 Indones. 7275 9755
 2300-2400 Japanese 15575
 2300-2400 Chinese 5975 7275 9755
 K=Skelton, UK
 R=Rampisham, UK
 S=Sackville, Canada
 (Bernie O'Shea, Ont., Nov 12/DX Listening Digest/Hauser-OK)

LIBYA During my stay in Malta I made the following observations on Oct 26-28 about the *Libyan Jamahiriya Broadcasting*: The Sabrata SW transmitter on 15435 and 17750 was off the air. 15435 has not been reported since Mar 2003 and 17750 not since Jun 2002. (Anker Petersen, DSWCI DX Window Nov 5/DX Listening Digest/Hauser-OK)

LITHUANIA Radio Vilnius schedule B03:
 0000-0030 Lithuan. 7325
 0030-0100 English 7325
 0900-0930 Lithuan. 9710
 0930-1000 English 9710
 2300-2330 Lithuan. 9875
 2330-2400 English 9875
 (Bernd Trutenau, Lithuania, Oct 30/DX Listening Digest/Hauser-OK)

MALAWI A recent verification from *Malawi Broadcasting Corporation* confirms that they are no longer on shortwave. (Emmanuel Ezeani, Nigeria, Oct 31/DX Listening Digest/Hauser-OK)

NETHERLANDS/MADAGASCAR The Radio Netherlands Madagascar relay station has begun relays of *WYFR* at 1900-2100 on 6020, 50 kW, bearing 255 towards southern Africa. Language I think is Portuguese but I'm not 100% sure. I only have the technical information from our side, not the programming information from their side. (Andy Sennitt, Radio Netherlands/Hard Core DX)

NIGERIA There seems to be only one *Voice of Nigeria* transmitter in use at the moment: 0500-0800 English 17800, 0800-1700 ????, 1700-2000 English 15120, 2000-2300 English to Europe 17800 VON wants to confuse us: Yesterday, Nov. 9: 7255 at 2200 change of service from French, instead of Fulfulde, to Hausa. Good signal. No English heard this morning on 15120/17800, nor yesterday evening. As the English service announced recently, Fulfulde is on from 0800 instead of 0700, English 0500-0800 and 1700-2300 only. But if French is now at 2100, there seem to be still two different services scheduled in parallel. Why then the cutback of the English service??? (Thorsten Hallmann, Germany, Nov 10 + chambers-NY/DX Listening Digest/Hauser-OK)

PAKISTAN On 24 Nov at 1620 noted a station with Quran recitation on 4955 with good signal strength. Parallels were heard on 4790 and 5080.2 while the 5027.1 transmitter carried separate programming. So this is *Radio Pakistan*. Quran continued (except one brief announcement in Urdu) and 4955 pulled the plug mid-sentence (or rather mid-verse) at sharp 1700. The other two frequencies in

parallel were still on at 1730 when I tuned out. I heard this 4955 station also on 23 Nov at 1710, but had no time to listen further then. 4955 was strong, almost the same as 5080.2, while 4790 and 5027.1 are a lot weaker. This new outlet could be one of Islamabad transmitters. (Jari Savolainen, Finland/Hard Core DX) 4955 is via Islamabad 100kW and at 1615-1700 the program is listed as ISLAMABAD PROG. (AAINA). The same transmitter and frequency are used to broadcast Balti News 1350-1400 & Sheena News at 1420-1428 all above using a Quadrant antenna. And via 270 degrees 4955 is used to carry the Dari Service at 1515-1545 // 5860, also Islamabad 100 kW 270 degrees. This same transmitter is used via the Quadrant antenna on 5050 at 0045-0215 to carry HAYA ALLAL FALAH, which includes news in Urdu at 0200-0210. (Noel Green-UK/Cumbre DX/DX Listening Digest/Hauser-OK)

Radio Pakistan for B03:

0015-0545	Urdu**	7571.05
0045-0115	English	9340 11565
0045-0215	Urdu*	15485 17895
0115-0200	Bangla	9340 11565
0215-0300	Hindi	9340 11565
0315-0345	Tamil	15625 17540
0400-0430	Gujrati	15485 17825
0500-0700	Urdu	11570 15100 17835
0800-1104	En/Urdu*	17835 21465
0945-1015	Tamil	15625 17495
1015-1045	Sinhali	15625 17495
1100-1145	Hindi	9340 11565
1200-1230	Chinese	11570 15070.02
1200-1245	Bangla	11565 15625
1245-1315	Nepali	11565 15625
1330-1400	Turki	5860 7375
1330-1530	Urdu*	11570 15065
1415-1500	Russian	7375 9387.66
1515-1545	Dari	4955 5860
1600-1615	English*	9320 11570 16725 17820
1630-1700	Turkish	7550 11540
1700-1900	Urdu*	7530 9320
1715-1800	Irani	5840 7550
1815-1900	Arabic	6220v 7550
2300-2400	Urdu**	6785

* World Service
 ** Islamabad Program
 (Radio Pakistan website/Dan Sampson/DX Listening Digest/Hauser-OK)

PAPUA NEW GUINEA 9675 *Karai National Radio*, the Voice of the Nation, Port Moresby, 0458-0615, Oct 15 and 17, English and Tok Pisin, musical request program and news, ad about "The Bible" (Roland Schulze, Philippines, DSWCI DX Window Nov 19/DX Listening Digest/Hauser-OK)

PERU 1999.26v // 1332.85v *Radio Libertad* QTH: "Region de Cajamarca" (Peru) 18/Nov/2003 - 1030. The ID says 1330 AM y QTH "Region de Cajamarca" (QTH is not on the recording). Could be new frequency for listed OCY2N Radio Libertad, Cajamarca on 890. x1.5 harmonic is very rare, at least here in Quito but I could confirm this by listening // with 1332.85 (1.5x 1332.85 = 1999.26). A week ago I heard the station with very good signal with Peruvian music nonstop but without ID. Started this morning at 1030 with a program called "Alegria en Los Andes". You can within 24 hours listen to a recording here: <http://homepage.sverige.net/~a-0901/> (Bjorn Malm, Quito, Ecuador/SWB America Latina/Hard Core DX)

2680.14 **Radio Melodia**, Provincia de Santiago de Chuco, Departamento de La Libertad 1100/2330. Must be a new station but I have not heard the DJ giving any frequency, does anyone know if there is a Radio Melodia on FM in Provincia de Santiago de Chuco? I'm hearing the station both evenings and mornings. Was talking about "Barrio San Jose" and "Barrio Santa Rosa" among others. Close down just after 0100. You can visit "Provincia de Santiago de Chuco" here:

<http://narvaez.virtualave.net/libertad/santiago/e/stadist.html>

(Bjorn Malm, Quito, Ecuador/SWB America Latina/Hard Core DX)

3234.8 **Radio Luz y Sonido**, Huanuco, with male religious harangue from 1000 UT, nasal female vocals, brief music, talk, W/M alternating, possible ad, ID, followed by a jingle sung ID, male harangue, brass band music at 1015. (Chambers-NY/DX Listening Digest/Hauser-OK)

4386.6 **Radio Imperio**, 1042-1052 Oct 26. Live religious revival program with lots of "Gloria a Jesus" announcements and faith-healing talk in Spanish. Larry Russell, who stayed up all night, said that he noted this as early as 0744. Fair (Don Moore, Brighton MI MARE DXpedition/DX Listening Digest/Hauser-OK)

4939.66 **Radio San Antonio**, Villa Atalaya, 0028+, October 30. Spanish. Music program. Catholic talk by M (Arnaldo Slaen, Argentina/Hard Core DX)

4955.00 **Radio Cultural Amauta**, Nov 25, 1017-1031, wailing Andean vocals, announcer in Vernacular, 1029 full canned ID, "Usted escucha Radio Cultural Amauta, voz de Huanta, la ciudad... 4955 kilociclos en la onda corta, y 8...estereo.", fair to good signal. (Mohrman-VT/Cumbre DX)

4990.91 **Radio Ancash**, Nov 25, 0937, ads and announcements with quick "Radio Ancash" ID in passing, followed by Andean brass band instrumental, distorted audio, fair to poor signal. (Mohrman-VT/Cumbre DX)

5009.67 **Radio Altura**, Cerro de Pasco, 0350 - 0420*, Nov 01, Spanish, musical program, Ads, ID "solo lo mejor Radio Altura", abrupt s/off without of announcement. (Eramo, Argentina/Hard Core DX)

5019.93 **Radio Horizonte**, Nov 25, *1106, open carrier from 1055, sign-on with tune and announcement including "...en Radio Horizonte..." ID, into Andean vocal, poor signal well past their sunrise. (Mohrman-VT/Cumbre DX)

5637.24 **Radio Peru** (p), San Ignacio, 2355+, October 29. Spanish. Andean music and short announcement by M. (Arnaldo Slaen, Argentina/Hard Core DX)

5460.47 **Radioemisoras Bolivar**, La Libertad, 0007+, October 30. Spanish. ID: ".....Bolivar.....", different songs (romantic, tecnocumbias) with M DJ. (Arnaldo Slaen, Argentina/Hard Core DX)

5470.57 **Radio San Nicolas**(p), San Nicolas, 0001+, October 30. Spanish. Andean music. (Arnaldo Slaen, Argentina/Hard Core DX)

5678 **Radio Ilucan**, Cutervo, 2335+, October 29. Spanish. Romantic music, ann. & ID as: "en Radio Ilucan estamos presentando linda musica romantica con sabor local." (Arnaldo Slaen, Argentina/Hard Core DX)

5906.43 **Radio Melodia**, Nov 24, 0937-1022, announcer with apparent news, many mentions of "Arequipa", 1000 "...Melodia de hoy..." ID, 1022 short canned ID "Es Melodia." slightly muffled audio, fair signal. (Mohrman-VT/Cumbre DX)

6020.36 **Radio Victoria**, Lima, 0035+, October 30. Spanish. News program. TC: "7 de la noche con 36 minutos en todo el Peru". Program: "Radioperiodico del Nuevo Mundo de Radio Victoria." Complete ID as: "una radio para todos, en.....onda media..... Radio Victoria..... tambien en 9720 khz, banda de 31 metros y 6020 khz, banda de 49 metros.... con sus potentes transmisores....cubriendo con su señal todo el territorio del Peru, transmitiendo desde Lima....Radio Victoria, la radio para todos", Ann. email: radiovictoria@r.com (Arnaldo Slaen, Argentina/Hard Core DX)

6108.31 - 6108.44v **Radio Internacional del Peru**, QTH unknown (San Pablo, Provincia San Pablo, Departamento Cajamarca????) 1 November 2003 0030-0134 UT close down. Peruvian music and with M-DJ talking with someone on telephone (or another radiotransmitter). 0108 UT W ID: "Radio Internacional del Peru.....escucha". (Bjorn Malm, Ecuador Nov 1/SWB America Latina/DX Listening Digest/Hauser-OK)

6188.10 **Radio Oriente**, Yurimaguas 1050 1040 blasting in with excellent signal, ID's, music. 26 November (Wilker-FL/Cumbre DX)

6193.38 **Radio Cusco**, Cusco, 2320+, October 29. Spanish/Quechua. Huaynos. Shorts ann. in quechua. ID by M: "Radio Cusco del Peru!!!!" (Arnaldo Slaen, Argentina/Hard Core DX)

6329.14 unID Peru. Estacion C, Moyabamba reactivated??, 23 Nov. Strong signal, nonstop Peruvian music, M-DJ just once said "Buena musica en un buen ambiente". I'm not sure but in one of the songs I think I heard the phrase "...vamos a Moyabamba...". Estacion C, Moyabamba I heard 3 years ago on 6328.83. Close down(?) at 0203 without ID. (Bjorn Malm, Quito, Ecuador/SWB America Latina/Hard Core DX)

6536.08 **Radio La Poderosa**, Huancabamba, 2340+. October 29. Spanish. Many IDs "...en Radio La Poderosa.....". Andean music. Local advs.: "...en Huancabamba." (Arnaldo Slaen, Argentina/Hard Core DX)

6819.45 **La Voz de las Huarinjas**, Nov 3, 1046, Andean vocal, announcer with lots of "...La Voz de las Huarinjas..." IDs in passing. Fair signal (Mohrman-VT/DX Listening Digest/Hauser-OK)

RUSSIA Voice of Russia B-03

0000-0100	Portug.	9965 7570 7390 7330
0100-0200	Spanish	9965 7570 7390 7330
		7180 7125 6195 5945
0200-0300	Russian	13665 12010 7330
		7260 7125 6195
0200-0300	English	15595 15445 9765
		7180 6135 5995(Jul)
0200-0300	Spanish	9965 9945 7570 7390

Listening Digest/Hauser-OK)

SOMALIA Radio Gaalkacayo has shifted back to its former frequency 6980 from 7335 which it had been using recently. A nice signal here in Nairobi, more-or-less on-channel and operating in DSB mode (Chris Greenway, Kenya, Nov 19/DX Listening Digest/Hauser-OK)

SRI LANKA SLBC Hindi Service noted today around 0215 on 7343 instead of 7300. At around 0250 they were back on 7302.5.

The English Service on 9770 meanwhile around that time is heard on lot of spurious frequencies of 9650, 9690, 9730, 9810, 9890, 9935, 9975 etc. (Jose Jacob, India/Hard Core DX)

TATARSTAN The program *Tatarstan Dulkynynda* ("Na volne Tatarstana"), formerly Voice of Tatarstan, has switched to its traditional winter schedule: 0500-0600 and 0700-0800 on 15105, 0900-1000 on 11915. (Dmitri Mezin, Kazan, DSWCI DX Window Nov 19/DX Listening Digest/Hauser-OK)

TURKEY Frequency change for TRT Voice of Turkey effective from November 10, 2003: 1800-2255 NF 9840, ex 7100 (Observer-BUL)

UNITED KINGDOM (non) Winter B-03 schedule for *Wales Radio International* in English:

0300-0330 9735 RMP Sa
1130-1200 17625 RMP Sa
2130-2200 7110 SKN Fr

Winter B-03 schedule for *Sudan Radio Service* in English/Arabic/Sudanese/Arabic/Shona/Nuer/Dinka
1500-1700 15530 WOF Mo-Fr (Observer-BUL)

UNITED STATES OF AMERICA Winter B-03 schedule of *Radio Free Europe/Radio Liberty*:

0000-0100 Russian 5985 6095 7155 7220
7175 9520
0000-0100 Serbocro. 6115 7115 9725
0000-0100 Kazakh 6135 7145 9625
0030-0300 Persian 9515 9585 9795

0100-0200 Russian 5985 6095 7155 7220
7235 9520
0100-0200 Kyrgyz 7295 9830 15590
0100-0200 Tajik 4760 6050 7275
0200-0300 Arabic 5965 7105 7175
0200-0300 Kyrgyz 5035 9830 15590
0200-0300 Kazakh 6135 7145 11795
21690
0200-0300 Turkmen 6160 7295 9680
0200-0400 Uzbek 7190 9725 21770
0200-0400 Tajik 6050 7275 11665
0230-0330 Pashto 9825 15690
0300-0400 Armenian 6170 7120
0300-0400 Kazakh 7145 11795 21690
0300-0400 Russian 5955 6105 7155 7255
9520 9635
0300-0400 Turkmen 9680 15470 17865
0300-0400 Arabic 5965 7105 7175
0300-0400 Persian 9335 9515 9585 9795
0330-0430 Dari 9825 15690
0400-0430 Romanian 6030 6130 Mo-Fr
0400-0500 Ukrainian 6170 7245 9750 Mo-Sa
0400-0500 Azeri 9605
0400-0500 Arabic 7115 9695 11970
0400-0500 Russian 5955 6105 7220 9520

0400-0500 Tatar-Bas. 9680 11980
0400-0600 Uzbek 7255 9635
0400-0600 Beloruss. 9725 17655 21770
0400-0600 Persian 6140 7190 9615
9585 9795 12015
15290
0500-0515 Ru/Ce.As 9575 11785 11815
0500-0600 Arabic 5985 7115 11970
0500-0600 Russian 5955 7220 7270 9520
9680 11980 13810
9655
0500-0600 Georgian 9575 11785 11815
0515-0530 Avari 9575 11785 11815
0530-0545 Chechen 9575 11785 11815
0545-0600 Cherkessi 9575 11785 11815
0600-0700 Ukrainian 5980 7245 9695 Mo-Fr
0600-0700 Russian 7220 9520 9680 11875
11885 13810
0600-0700 Tatar-Bas. 11730 11855
0600-0700 Arabic 11970 15255 17740
0600-0800 Persian 9585 15290 17675
0630-0730 Pashto 17595 19010
0700-0800 Russian 7220 9520 9680 11875
11885 15205 15250
0730-0830 Dari 17595 19010
0800-0830 Persian 9585 13680 15290
17675 21575
0800-0900 Russian 9520 9680 11885
15205 15250 15370
17845
0830-0900 Serbocro. 9565 11730 15215
0830-0930 Pashto 17595 19010
0830-1400 Persian 13680 21575
0900-1100 Russian 9355 9725 11930
15410
0930-1030 Dari 17595 19010
1000-1100 Azeri 15205 17670 21530
1100-1300 Russian 9805 11885 15120
15215 15370 17805
1200-1300 Kazakh 9520 15110 17680
1230-1330 Pashto 17595 19010
1300-1330 Kyrgyz 11685 15120 17750
1300-1400 Russian 9805 11725 11885
11895 15370 17730
19010
1330-1430 Dari 12030 15120 17750
1400-1430 Kyrgyz 9555 11885 13650
1400-1430 Serbocro. 9660 12010 17680
1400-1500 Kazakh 9565 15185 15345
1400-1500 Turkmen 9695 17660
1400-1500 Tajik 11795 15430 17605
1400-1500 Azeri 9435 13680 15410
1400-1700 Persian 9530 11875 15160
1500-1530 Turkmen 7220 9520 11805
1500-1600 Russian 11885 15130 15370
1500-1600 Kyrgyz 9540 11785 13865
1500-1600 Armenian 11895
1500-1600 Kazakh 4995 6055 17680
1500-1630 Tajik 9695 11705 11910
1500-1700 Arabic 6130 9685 11835
11965
1530-1600 Turkmen 9530 11875 15160
1600-1630 Romanian 7165 9725
1600-1700 Georgian 11895
1600-1700 Kyrgyz 7260 9595 9675
1600-1700 Russian 6105 7220 9520 11805
11885 15130
1600-1700 Azeri 9665
1600-1700 Tatar-Bas. 6180 9505
1600-1700 Kazakh 7105 11920
1600-1700 Turkmen 9770 11740 11875
1600-1800 Uzbek 9835 12020 17610
1600-1800 Beloruss. 7190 9615 15460
1630-1700 Tajik 4760 9695 11705
1630-1730 Pashto 11770
1700-1730 Romanian 7165 9725
1700-1800 Russian 6105 7220 9505 9520
11805 11885
1700-1800 Arabic 9845 11725 11835

1700-1800	Turkmen	9625 9770 11740
1700-1800	Serbocro.	7115 7245 9695
1700-1800	Armenian	9705 11865
1700-1900	Persian	11705 11845
1730-1800	Romanian	7165 9725 Mo-Fr
1730-1830	Dari	11770
1800-1815	Ru/Ce.As	7565 9615 9840
1800-1830	Beloruss.	6150 7205 9865
1800-1900	Ukrainian	3980 5985 9625
1800-1900	Arabic	9785 11725 11835
1815-1830	Avari	7565 9615 9840
1830-1845	Chechen	7565 9615 9840
1830-2000	Beloruss.	6150 7205 9865
1830-2000	Serbocro.	7155 9705 11750
1845-1900	Cherkessi	7565 9615 9840
1900-2000	Ukrainian	3980 7125 9625
1900-2000	Azeri	9670
1900-2000	Arabic	7235 7245 11765
1900-2000	Romanian	7170 9725 Mo-Fr
1900-2000	Persian	6140 9335 11960
2000-2030	Albanian	7180 9600 11765
2000-2100	Georgian	9505
2000-2100	Ukrainian	3980 7125 9625 Su-Fr
2000-2100	Tatar-Bas.	7245 7295
2000-2130	Persian	9335 9785 11960
2000-2200	Russian	5955 6105 7220 7265
		9520 9620 9845 9865
2000-2200	Beloruss.	6140 7165 9865
2100-2200	Serbocro.	7175 7265 9680
2100-2200	Arabic	9645 11965
2200-2300	Russian	5955 6095 6105 7220
		9520 9865
2200-2300	Arabic	6015 9645
2300-2400	Russian	5985 6105 7155 7175
		7220 7235 9520
2300-2400	Serbocro.	6115 7115

(Observer-BUL)

KNLS Alaska schedule to December 28, 2003

0800-0900	English	9795
0900-1000	Russian	7365
1000-1100	Mandarin	7365
1100-1200	Russian	7365
1200-1300	Mandarin	7365
1300-1400	English	9780
1400-1500	Mandarin	7355
1500-1600	Mandarin	7355
1600-1700	Mandarin	7355
1700-1800	Russian	7355

(website via Dan Sampson, Prime Time Shortwave, 11/22/DX Listening Digest/Hauser-OK)

WINB B03 schedule

1100-1300	9320
1300-2300	9930
2300-0600	9320

(Hans Johnson, Nov 3, Cumbredx mailing list/DX Listening Digest/Hauser-OK)

What happened to **WRNO** radio? (Charlie, USNS BOWDITCH, Nov 7 to Hauser at Monitoring Times) Transmitter has been down for years. Occasionally heard with very low power backup on 7355, perhaps a ham rig. Was sold a few years ago by the estate of Joe Costello to Good News Outreach in Dallas, but they have done little or nothing to revive the station. If and when they do, it will obviously be nothing more than yet another very unnecessary gospel huxter (Glenn Hauser/DX Listening Digest/Hauser-OK)

UZBEKISTAN Voice International via

Tashkent: Hindi to India	
0100-0400	Hindi 11850
0500-1100	Hindi 13630

(Observer-BUL)

VATICAN Vatican Radio B-03

0025	Urdu	7335 9865 Mo/Th
0030	Portug.	7305 9605
0040	Hi/T/M/En	7335 9865
0100	Spanish	7305 9605 11910
0145	Spanish	7305 9605 11910
0200	Hi/T/M/En	17665
0230	French	7305 9605 9660
0250	English	7305 9605
0300	English	9660
0310	Armenian	6185 9645
0315	Spanish	7305 9605
0330	Kiswahili	7360 9660
0330	Slovenian	4005
0330	Russian	6185 7335 9645
0345	Somali	7360 9660 Su
0350	Croatian	4005
0400	Amhc/Tig	7360 9660
0400	Ukrainian	6185 7335
0410	Czech	4005 5890
0420	Byeloruss.	6185 7335
0425	Slovak	4005 5890
0430	French	7360 9660
0440	Lithuan.	6185 7335
0440	Hungar.	4005 5890
0500	Latvian	6185 7335
0500	Arabic	9645 11715
0500	English	7360 9660 11625
0500	Arabic	9645 11715
0500	Polish	4005 5890 7250
0520	Ruman.	6185 7335
0520	German	4005 5890 7250
0530	Portug.	9660 11625 13765
0540	Bulgarian	6185 7335
0540	French	4005 5890 7250
0600	French	9660 11625 13765
0600	English	4005 5890 7250
0600	Scandin.	6185 7335
0620	Italian	4005 5890 6185 7250
0630	LatinMass	4005 5890 6185 7250
		9645 11740 15595
0630	English	9660 11625 13765
0700	It/Fr/Eng	4005 5890 6185 7250
		9645 11740 15595 Mo-Fr
0710	Rum.Mass	7250 9645 Su & holidays
0715	Ukr.Mass	9850 11740 Su & holidays
0745	Arabic	5890 7250 9645 15595 Mo-Fr
0830	Ital. Mass	7250 Su & holidays
0910	Spanish	5890 Mo-Fr
0915	Papal	5890 We
0930	Orient. Lit.	11740 15595 17515 Su & holidays
1000	Portug.	21850 Mo-Fr
1030	English	5890 Mo/Tu/Th/Fr/Sa
1100	Angelus	5890 9645 11740 15595 21850 Su & holidays
1100	Italian	5890 Mo-Fr
1130	Spanish	21850 Mo-Fr
1130	En. Mass	15595 17515 Fr
1130	Italian	5890 Su & holidays
1200	French	5890 Mo-Fr
1230	Ch. Mass	6020 15235 17515 Sa
1230	Chinese	6020 15235 17515 Su-Fr
1300	Italian	5890 9645 11740 15595 21850
1315	Vietnam.	6205 17515
1330	Russian	13645 15595 until Dec 6
1330	Russian	11805 13645 from Dec 7
1400	Spanish	9645 11740
1415	Urdu	13765 15235 We/Su

1415	Portug.	9645 11740
1430	Hi/T/M/En	9865 13765 15235
1500	Ge/Polish	5890 7250 9645
1530	Italian	5890 7250 9645 Fr
1530	Music	5890 7250 9645 Sa-Th
1530	En. Mass	9865 13765 15235 Sa
1600	Vespers	5890 7250 9645
1600	Kiswahili	15570 17515
1615	Somali	15570 17515 Sa
1630	Amh/Tig	15570 17515
1630	Arabic	11625 15595
1630	Italian	5890 7250 9645
1630	Arabic	11625 15595
1650	Armenian	9585 11715
1700	Fr/English	4005 5890 7250 9645 15595
1700	French	15570 17515
1710	Russian	6210 7365 9585 11715
1730	Slovenian	4005 5890 7250
1730	English	13765 15570 17515
1740	Ukrainian	7365 9585
1750	Croatian	4005 5890 7250
1800	Portug.	13765 15570 17515
1800	Byeloruss.	7365 9585
1810	Hungar.	4005 5890 7250
1820	Lithuan.	7365 9585
1830	Czech	4005 5890 7250
1840	Latvian	7365 9585
1845	Slovak	4005 5890 7250
1900	Spanish	9660 11625 Sa
1900	Rumanian	6185 7365
1900	Polish	4005 5890 7250
1920	German	4005 5890 7250
1920	Bulgarian	6185 7365
1940	Rosary	4005 5890 7365 9660 11625
1940	Scandin.	6185 7250
2000	Italian	4005 5890
2000	Albanian	6185 7250
2000	English	7365 9660 11625
2020	Esperanto	4005 5890 SU & holydays
2020	It/English	6185 Mo
2020	Esperanto	6185 7250 We/Th
2030	French	4005 5890 7250 7365 9660 11625
2050	English	4005 5890 7250
2110	Spanish	4005 5890 7250
2130	Portug.	4005 5890 7250
2145	Arabic	4005 5890 7250
2200	Chinese	6205 7305 9600
2200	Italian	4005 5890
2230	Italian	4005 5890
2250	Esperanto	4005 5890 Su & holydays
2315	Vietnam.	7305 9600

(via Bernie O`Shea, Ottawa/DX Listening Digest/Hauser-OK)

VIETNAM Voice of Vietnam in English

0100	6175
0230	6175
0330	6175
1000	9840 12020
1100	7285
1230	9840 12020
1330	7280 9730
1600	7280 9730
1800	5955 7280 9730
1900	7280 9730
2030	7280 9730
2330	9840 12020

(Alokesh Gupta, India/Hard Core DX)

ZAMBIA Christian Voice via Lusaka:

0300-0600	English	8065
0600-1500	English	9865
1500-0300	English	4965

(Observer-BUL)

UNIDENTIFIED 3204.99 Radio Mia, unknown QTH 7/Nov/2003 Yesterday thursday I sent information about an unID religious spanish speaking station with nonstop religious music. This night I heard the station again, now with ID: "Radio Ma....esperanza por un mundo....". The M DJ said they were going to transmit to "2300." Religious music nonstop, more than one hour with the same artist. One of the songs was presented as "bachata" so I'm wondering if it's a station from Republica Dominicana? El Caribe, Mexico or Central America? That's what I think it is. You can listen to a recording here(SWB) within 24 hours:
<http://homepage.sverige.net/~a-0901/>
(Bjorn Malm, Quito, Ecuador/SWB America Latina/Hard Core DX)

4552.74 unID LA Spanish speaking 12/Nov/2003 -0230. This evening 11th of November local time there is a LA with music non-stop on 4552.74 with fair and stable signal. More than one hour without talk, music with fast rythm. Two years ago I had an unID "Radio San Juan"(Peru) on 4552.83v. (Bjorn Malm, Quito, Ecuador/SWB America Latina/Hard Core DX)

5392 horribly distorted signal. Couldn't even get a het [carrier?], but M talk sounded like preaching in Spanish. Nothing // in 60 meters. Spur from somewhere else?? (Dave Valko, PA, 22 Nov., Cumbre DX/DX Listening Digest/Hauser-OK)

Pirate Radio Report

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

Hello and welcome to the December 2003 edition of the *Pirate Radio Report*! I hope those of you out there that were expecting a SW receiver from Santa are rewarded with same.

The 40th anniversary of the assassination of John F. Kennedy passed and there were no loggings this year of WJFK. They were active last year though. Maybe they'll be on a little later. If you hear the song "Abraham, Martin and John" by Dion it's a good chance you've got WJFK.

Keep an ear out for Moishe and *Happy Hanukkah Radio*!

Loggings

Many thanks to the following contributors: Rich D'Angelo-PA, John Fisher-MA, Fred Kohlbrenner-PA, George Maroti-NY, George Zeller-OH.

Grasscutter Radio was noted on 6925 kHz on November 10th at 2349 UTC. Songs played were by Yes, Devo and Blondie. Transmitter info was given and he challenged the FCC to find him. Email address is: grasscutterradio@yahoo.com [Kohlbrenner-PA] Yeah mannnnnnnnn!

Ozone Radio International, a Europirate was noted on 6200.44 kHz AM on November 9th. George tuned in the hear a monologue by the male DJ about changing frequency. Played mostly pop ballads and relayed Glenn Hauser's *World Of Radio*. At 0843 UTC. Signal was fading and bothered by UTE QRM. [Maroti-NY]

Ragnar Radio was noted at sign on on November 28th at 0135 kHz on 6925 kHz USB with the song "Breaking The Law", Talk about Thanksgiving, The Detroit Lions Football game and played some comedy bits including one by Adam Sandler. Still heard past 0210 but weaker in strength. [Fisher-MA]


Shadow Radio, was logged on 6950 kHz in the USB mode on November 1st from 0310-0339 sign off with and old time shadow adventure with Red Cross public service announcements. The full IDs were "Shadow Radio, WSDW 6050 Upper Side Band. Now back to the Shadow". The email noted was: the_shadow6950@hotmail.com. Poor reception. [D'Angelo-PA]

Tower Radio, another Europirate, was logged on 6301.3 kHz at 0723 UTC on November 9th. They played mostly Polka or beer hall music. Announced a hotline number and mentioned the names of other Dutch pirates like Alfa Lima and Korak. ID and email address announced at 0854 UTC. [Maroti-NY]

Undercover Radio, one of the more active pirates these days was heard on November 8th on 6925 kHz USB at 2204 UTC. This seemed to be a replay of their 4th of July broadcast. Email is undercoverradio@mail.com. [Lobdell-MA]

Voice of Captain Ron Shortwave was logged on November 24th at 0020-0047 sign off on 6925 kHz USB mode. Mostly rock music with some talks and IDs by Captain Ron. Mentions of "radio therapy". Email address of: captainron6955@hotmail.com. Weak in Ohio. [Zeller-OH] Also heard on November 4th from 0235-0258 sign off on 6925 kHz USB. Captain Ron was talking about hemorrhoids and playing songs by Rage Against The Machine. [D'Angelo-FCDX-PA]

WMPR, The techno music pirate was logged on 28 November from 0055 tune in until 0111 sign off on 6925 kHz in the AM mode. The usual fare of non-stop music with an occasional "WMPR 6925" ID mixed in. The ID at closedown was at slow speed. [Lobdell-MA]

That's all we have for this month. I'd like to wish all my readers a Happy Hanukkah, Merry Christmas and New Year. 

QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010

RADIO MARABU



Digital über die Worldspace- und Astra-Satelliten
Europaweit und Kurzwelle
Lokal auf FM und 24 Std. Stereo Stream im Internet

ton, English Dept. at RAE. (Craighead-KS).

ASCENSION: Radio Japan 21630 f/d cd. in 2 mos. v/s T. Sato. (Paszkwicz).

ASIATIC RUSSIA: Radio Netherlands 12065 via Petropavlovsk-Kamchatskiy f/d

"Winter on Lakes, Gaasperplas, Amsterdam" cd. in 5 wks. (Loudell-DE).

Radio Vlaanderen International 9865 via Petropavlovsk f/d cd. in 1 mo.

Deutsche Welle 17860 via Vladivostok f/d cd. in 3 wks. (Craighead-KS):

AUSTRALIA: Voice International 13770 f/d cd. in 1 mo. v/s Kelly Boucher.

STATION INFO: HCJB 11770 via Kununurra Addr: GPO Box 691, Melbourne, VIC 3001, Australia. Radio Bulgaria 7500 Addr: P.O. Box 900, BG 1000, Sofia, Bulgaria. Radio Xoriyo 15670 via Julich Addr: DTK, Rundfunksendestelle Julich, Merscher Höhe, D-52428 Julich, Germany. v/s Walter Brodowsky. Voice of Democratic Eritrea 5925 via Julich Addr: ELF-RC-Postfach 1946, D-65409 Russelheim, Germany. Voice of Tibet 21465 via Tashkent v/s Lobsang Tsuttrim, Editor in Chief. Addr: Narthang Building,

Gangchen, Kyishong, Dharamsala 176 215, H.P. India..via PLAY DX...Sam.

VOICE OF DEMOCRATIC ERITREA

ELF-RC.

POSTFACH 1946

65409 RUSSELSHEIM

GERMANY

DATE: 24-02-2002

QSL:reception report.

WE HEREWITH VERIFY THAT ON 17th OCT. 2002 AT 11:15 HOURS UTC

ON 15670 KHZ (prefix: 19 MHz) YOU RECEIVED A TRANSMISSION OF OUR

STATION RADIO: VOICE OF DEMOCRATIC ERITREA (DIMTSI DIMOCRASYAWIT ERITRA), VOICE.

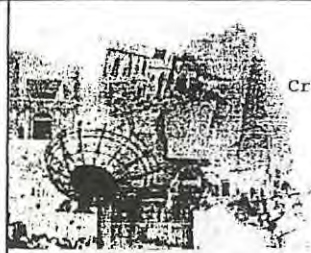
THE TRANSMITTER FED 100 KW INTO A CURTAIN ANTENNA SYSTEM.

VOICE INTERNATIONAL



(Paszkwicz).
Radio Australia
9475, 9580 and
11650 via Shep-
arton f/d "ABC
Southbank Centre"
cd. w/
bookmark in 2 1/2
mos. (Barto-CT)
HCJB Voice of
the Great South
Land 15480 f/d
paper cd. w/
schedule in 2
wks. for \$1.00
(Loudell-DE).

AUSTRIA: Adventist
World Radio
9660 via Moos-



via
Craighead

KOL ADONAI FOUNDATION

KAF: THE VOICE OF THE LORD
Frequency 15750 kHz
Date of Reception OCT. 12, 2001
Time of Reception 1700 - 1730

Thank you for your reception report.
kol@adonai.com phib@afn.qwest.com ph

brunn f/d cd.
"Yellow World
Map" w/ other
blank vintage
AWR QSLs and
radio stamps
in 1 mo. for
ms. (Loudell).
Radio Austria
International
9870 via Moos-
brunn f/d
"City of Salz-

burg" cd. w/ ltr. and a fistful of stickers in 2 wks. (Loudell-DE). FEBA
9465 via Moosbrunn f/d cd. from Cyprus in 3 wks. (Craighead-KS).

BANGLADESH: Bangladesh Betar 9550 and 7185 f/d cd. in 6 mo. w/ schedule.

BOLIVIA: Radio Mosoj Chaski 3310 f/d prepared cd. w/ personal (Barto-CT).
ltr, station pamphlets in 36 ds. for a SP rpt., tape and ms. v/s Paul
Pittman. (Klinck-NY).

BONAIRE: Radio Nederlands 6165 f/d "Lights Dances in the Meadow" cd. in 7
wks. (Loudell-DE).

BOTSWANA: Voice of America 12080 f/d "Morocco" cd. in 3 mos. w/ VOA Pro-
gram Guide. (Barto-CT).

BOSNIA-HERCEGOVINA: Radio Bosnia Hercegovina 7108.1 and
* 6890.0 p/d "Map" sheet in 20 mos. after a f/up
* rpt. (Barto-CT). Radio Television Sarajevo



STATION NOTES: Remnants Hope Mini-
stry 17495 via WBCO v/s Pastor
Tim Butler. Addr: P.O. Box 1915,
Orangeburg, SC 29116. WBCO 7415

Addr: The Planet, 274 East Rd., Mon-
ticello, ME 04760 WJCC 1700 v/s George
Butch, Chief Engineer. Addr: 8400 N.W.
52nd St., Suite 101, Miami, FL 33315.

WINB 9390 v/s W. Wise, Chief Engineer.

WRNO 7355 v/s Robert E. Mawire, Chairman
of the Board. Addr: Good News Radio, P.O.
Box 895, Fort Worth, TX 76101. LTC Radio
5005 v/s Leonico Zacarias Torres. E-mail:
radioltc@latinmail.com ...via PLAY DX....Sam.

7102.5 p/d "Map" sheet in 20 mos. The above
were for receptions in 94 and 97. (Barto-CT).

BRAZIL: Radiodifusora Roraima 4875 f/d prepared
cd. w/ postcard, ltr. and station pamphlets
via registered mail in 35 ds. for a PT rpt.,
tape and \$1.00. (Klinck-NY). Radio Caiari 4785
QSLed USPO rpt. w/ e-mail from Francisco Lemos,
Assessor de Diretor Geral da Radio Caiari. He said
a postal reply would be sent soon. (D'Angelo-PA).

* Radio

Educacao

Rural de

Tefe 4925

cd. w/ "Ma-

miraua Lake

Channel" post

card in 22 ds.

from Thomas

Schwamborn, Dire-

ctor Administrat-

ivo. (D'Angelo-PA).

Radio Pocos de Cal-

das 4945 p/d EG ltr.

in 1 mo. v/s Mauricio

Beraldo Pumah and Fab-

io Junio Marcelo. This
is my 52nd QSL from Bra-
zil. (Paszkwicz-WI).



Creation

"In the beginning God created the
heaven and the earth."
Genesis 1:1, New International
Version of the Bible

Artist: Clyde Propp
Copyright, Review and Herald
Publishing Association

AWR QSL Card #051
©1994, 1995

to Scott Barbour

We are pleased to verify your reception of our station

Date 5/5/03 Comment The RX you sta

Time 0800A - 0030 incorrect - that

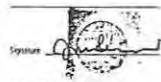
Power (W) 300 good for listening

Freq (kHz) 9810 do have programs

Method

Reception location Mexico

Diablini



www.awr.org
• Program Schedules
• Real Audio Programs
• Photos of AWR Sites

Adventist World Radio
39 Brandon Street
London W1H 5ND
England

Cover: Contributions of Hierarchy show-up-ventures.

Dear Sir/Madame,

Thank you very much for the pleasure
to verify your reception report.

Date: 16/3/2003
Frequency: 13560 kHz
Time: 1355-1459 UTC

Special transmission of the
Swedish national final
in Borås 2003.

Many thanks for your report
and look forward to hear from
again.

Yours sincerely,
Magnus Wikström
Magnus Wikström

The transmission you heard was indeed a test
Your report was indeed helpful for us.

TERACOM



Richard D' Angelo

2216 Turkey Drive

Wyomissing

PA 19610

USA

Radio Cultura Sao Paulo 9614.9 ltr. in 215 ds. via registered mail. (Glottzbach).

CANADA: Radio Sweden International 9495 via Sackville f/d "Seals" cd. in 3 wks. (Loudell-DE). Radio Korea International 9560 via Sackville f/d "Traditional Crochet" cd. w/ schedule and stickers in 1 mo. (Loudell-DE). Voice of Vietnam 6175 via Sackville f/d cd. w/ schedule in 9 wks. (Loudell-DE).

CHINA, PEOPLE'S REP. OF:

STATION NOTES: Radio Congo 4765 v/s Roger Olingou, English Service. Addr: P.O. Box 5378, Pouenze, Brazzaville, Congo. Radio Okapi 9550 Addr: Fondation Hironnelle, 3 Rue Traversiere, CH-1018 Lausanne, Switzerland. Radio Exterior de Espana 3350 via Cariari Addr: Apar-

tado 156202, ES-28080 Madrid, Spain. Radio For Peace International 15040 Addr: P.O. Box 75, Ciudad Colon, Costa Rica. Radio Habana Cuba 17750 v/s Mrs. Lourdes Lopez, Secretary. Radio Villa La Sencilla 4960 Addr: Avenida 27 de Feb-

FEBA RADIO

via Scott Barbour wishes to thank you for your recent Reception Report, and has pleasure in confirming it with this Acknowledgement Card.

We hope that you will continue to enjoy listening to FEBA Radio.

QSL Secretary

Doreen Dugdale

FEBA RADIO, P.O. BOX 234, SEYCHELLES, INDIAN OCEAN.

DATE 12th February 2003

TIME 1247-1300 UTC

FREQUENCY 15535 kHz

METRE-BAND mb

rero 265, Santo Domingo, Dominican Rep. ADDX Program 11875 via HCJB v/s Hans Werner Lange, DXer. Addr: ADDX e V., Kennworth HCJB, Post Fach 130 124, DE-40551 Duesseldorf, Germany... via PLAY DX DX.....Sam.

Xinjiang People's Broadcasting Station

7155 f/d "All in CH characters paper cut" cd. w/ ltr. in 18 wks. for * \$1.00. (Loudell-DE). China Huayi Broadcasting Station 11590 2 cds. w/ neat stamps in 1 mo. on my 3rd try. My first report was sent to CRI but they said they had no contact w/ the regional stations anymore.

CLANDESTINE: Degar Voice 7380 via Russia p/d e-mail in 7 (Field-MI).

* hours for an e-mail rpt to: degar@montagnard-foundation.org v/s Kok Ksor. Voice of the Tigray Revolution 6350 and 5500 p/d ltr. in 4 mo.

v/s Fre Tesfamichael, Director. (Barto-CT). Voice of Biafra International 12125 via Samara, Russia f/d cd. in 1 yr. from Maes. (Barto-CT). World Falun Dafa Radio 12145 f/d cd. from Maes in 1 yr. (Barto-CT). Voice of Mesopotamia 11530 via Samara, Russia f/d cd. from Maes in 1 yr. (Barto-CT). * Netsanet Radio 12110 via Samara, Russia f/d cd. from Maes in 1 yr. (Barto-CT).

I thought some of our members would like to see a ham QSL from King Hussein of Jordan.

AMATEUR RADIO STATION JY1

CONFIRMS CONTACT WITH:

RADIO	DATE	GMT	MC	RST	2 WAY
WPEICYK	12 July 72	2251	14 21 28	59 59 57	EW SSB WKG-G130BR

73

OP. HUSSEIN I
P.O. BOX 1055
AMMAN
JORDAN

PSE (QSL TNX) Sam



Radio Okapi is a FM and shortwave broadcasting network serving the whole of the Democratic Republic of the Congo. It is a joint project of the Fondation Hirondelle and the United-Nations. The radio aims to contribute to the restauration of peace in the country by broadcasting news and information programmes that are professional, credible, and reliable.

QSL for... Richard A. D'Angelo

We are pleased to verify your reception of Radio Okapi, Kinshasa, RDC

Date:

Time: 4-5/11/2002

Frequency: M 690 MHz

Fondation Hirondelle
3 Rue Traversiere

Lausanne

Sign

1018 Lausanne-Suisse
Tél. 021-847 28 05

20/11/2002



Falun Dafa Radio
12140 via (Kostinbrod, Bulgaria?) f/d cd. in 1 yr. from Maes. (Barto-CT).
* **Dejan Radio** 12110 via Samara, Russia f/d cd. via Maes in 1 yr. (Barto-CT). f/d cd. in 7 mo. from Maes. Thanks to Wendel Craighead for assistance. (Field-MI).
Fang Guang Ming Radio 9945 and 5925 f/d cd. from Maes in 1 yr. (Barto-CT).
Voice of Tigrayans 12110 via Samara, Russia

f/d cd. in 1 yr. from Maes. (Barto-CT).

STATION NOTES: **Radio Wave International** 13830 via IRRS v/s Peter Hills, Station Manager. Addr: P.O. Box 130, FR-92504 Rueil-Cedex, France.
Star Club Radio 13840 via IRRS v/s Roy Clark, Station Manager. Addr: P.O. Box 520 112, DE-44207 Dortmund, Germany.
Fundamental Broadcasting Network 9710 via Sitkunai Addr: 520 Roberts Road, Newport, NC 28570.
Radio Nord 9980 via Radio Vilnius v/s DXer Ronny Forslund, QSL Manager. Addr: P.O. Box 90 SE- 82723 Ljusdal, Sweden.
Voice of Mediterranean 9850 via RAI Prato Smeraldo Addr: P.O. Box 143, Valletta, Malta. CMR01...
...via PLAY DX...Sam.

BBC

THAILAND

This notice confirms that your reception report of

BBC Asia Relay Station on 11655K MHz,

from 0012 to 0045 GMT on 26 Aug 2002

corresponded with our station log of the same day. Thank you for your interest. Further reports are welcome.

BBC Asia Relay station is operationally managed by Merlin Communications International Ltd.
For information about our range of services:

- Facilities management
- Global transmission rental
- Comprehensive satellite services
- Project management

For more information call: +44 171 959 0000 Fax: +44 171 386 6223 or visit our website www.merlincommunications.com



From:

Miss. Puangtip O.
BBC Asia Relay Station
PO. Box 20, Muang
Nakhon Sawan 60000 Thailand

To:

Richard A. D'Angelo
2216 Burkley Drive
Wyoimissing, PA 19610
U.S.A.



COLOMBIA: **HJDH La Voz de tu Conciencia** 6060 p/d cd. in 6 mos. for a SP rpt. (Barto CT). Caracol Santa Fe my rpt. was returned by the Col. PO saying the box was closed. (Field-MI).

CZECH REPUBLIC: **Radio Praha** 7345 p/d "Motorcycle" cd. w/ schedule, booklets and stickers in 3 wks. (Loudell DE).

ECUADOR: **Japan Shortwave Club** 9745 via HCJB f/d "50th Anniversary" cd. w/ club literature and map in 14 wks. for \$1.00. (Loudell-DE). HCJB 9745 f/d "Volcano Cotopaxi" cd. w/ bookmark, schedule and a personal note from "Nancy" in 148 ds. for \$2.00. (Barbour-NH).

EGYPT: **Radio Cairo** (Yoruba / West African Service) 9675 f/d "Artifact" cd. w/ travel brochures and postcard in 3 mos. (Loudell-DE). 9988 via Abis p/d "Sphinx" cd. in 4 mos. w/ schedule. (Barto-CT).

ENGLAND: **Radio Japan** 7230 f/d cd. in 2 mos. v/s T. Sato.
* (Paszkievicz-WI). **Radio Ndeke Luka** 15565 via Woofferton "Logo" cd. in 11 ds. from Fondation Hirondelle, 3 Rue Traversiere, 1018 Lausanne, Switzerland. (Craighead-KS).
Voice of America 9530 via Woofferton f/d "Saipan" cd. in 3 mos. w/ Program Guide. (Barto-CT). f/d "Morocco" cd. in 3½ mos. (Barto-CT). **Radio Sawa** 9530 via Woofferton f/d 8x11 inch sheet in 5 wks. (Barto-CT).



Fondation Hirondelle

Media for Peace and Human Dignity

亲爱的听众朋友:

来信收到了,感谢您收听我们的节目。我们热忱希望您继续收听节目,并欢迎来信、来稿,反映您及您周围朋友对我台节目的意见和建议,使节目办得更好。

祝您万事如意。

愿我们的友谊长存!

中国 中央人民广播电台

年 月 日

Dear:

We are glad to have your reception report of our station on 17605 KHz, between 01:15 to 01:30 hours G.M.T. dated August 17 2001. Your further reception reports on our station are welcome.

Thank you.

China National Radio

EUROPEAN PIRATE: Radio Marabu

* 6210.2 f/d yellow cd. w/ station info in 4 mos. (Barto-CT).

EUROPEAN RUSSIA: Radio Chechnya

Svobodnaya 12045 via Saint Petersburg reply from Moscow in

1192 ds. (Glottzbach-NM). Fang

Guang Ming Radio 9945 via Arm-

avir f/d "Logo" cd. in 9 mos.

for \$1.00 from Maes. World Fa-

lun Dafa Radio 9945 via Arm-

avir f/d "Truthfulness, Bene-

volence, Forberance" cd. in 5

wks. for ms. from the City of

Industry, CA addr. (Loudell-DE)

GERMANY: Evangelische Missions-

*** Gemeinden in Deutschland** via

Deutsche Telekom f/d ltr. w/

signed and stamped cd. in 10

ds. Addr: JahnstraBe 9, DE-891

82 Bernstadt, Germany. (D'Ang-

elo-PA). Radio Santec / Univer-

selles Leben 11840 via DTK Jul-

ich f/d "Dove/Logo" cd. w/ veg-

etarian literature in 1 mo. for

\$1.00. (Loudell-DE). Bayerischer

Rundfunk 6085 via Munich-Ismaning f/d "Antennae and Satellite Dish" cd. w/ ltr. and stickers in 9 ds. (Loudell-DE). Voice of America 12110 via Julich f/d cd. in 5 mo. w/ presidential plastic ruler, stickers, schedule VOA magnets, etc. (Field-MI).

GREECE: Voice of America 9695 via Kavala in 95 ds. for SASE. v/s John

STATION NOTES: Voice of Jammu and Kashmir Freedom Movement 5102 Addr:

P.O. Box 102, Muzarrarabad, Azad Kashmir. Echo of Hope 6348 Addr:

18 Yoido-Dong, Young Dung Po-Gu, Seoul 150-790, Republic of Korea.

Kyrgyz Radio 4010 v/s Meerin Orozobekova. IBRA Radio 15120 Addr: SE-

141 99, Stockholm, Sweden. Sudwestrundfunk SWR3 7265 Addr: P.O. Box

10 60 40, DE-70049 Stuttgart, Germany Radio Amistad 4699 v/s Davis

Daniell. Radio Buenas Nue-

vas 4800 Addr: San Sebast-

ian de Huetuetenango, Gua-

Huetuetenango, Guatemala.

Radio Cultura 3300 v/s Mrs

Heydi Chavez, Secretary.

Addr: 4 Avenida 30-09, Zona

3, Guatemala City 01007,

via PLAY DX...Sam.

Vodenik. (Glottzbach). 7200

f/d "Morocco" cd. in 3 1/2 mo.

(Barto-CT). 15545 same in

3 mo. (Barto). 7205 f/d cd

in 3 1/2 mos. (Barto-CT). Radio

Sawa 6040 and 6060 f/d 8x11

paper QSL in 5 wks. (Barto-

CT). 9530 f/d sheet in 5 wk

(Barto). 6040 same in 5 wk

(Barto).

GUAM: Trans World Radio 12130

f/d "Pago Bay" cd. w/ per-

sonal ltr. and schedule in

1 mo. v/s George Ross, Fre-

quency Coordination Dept.

(Loudell-DE).

HAWAII: WWVH 5000 and 10000

f/d "Aloha Folder" w/

personal ltr. and brochure

in 2 wks. for ms.

(Loudell-DE).

General Board of
Global Ministries

THE UNITED METHODIST CHURCH
473 Riverside Drive, New York, NY 10116



(212) 870-3800 (toll-free: 1-800-342-2500)

May 30, 2001

Dear Listener,

Thank you so much for your interest in Radio Africa International. We will soon have QSL cards to send out, but in the meantime, please accept this message as our verification of your reception report.

This is to confirm that your reception on May 21, 2001, was broadcast by the General Board of Global Ministries of the United Methodist Church via shortwave at 18:15 hours UTC on 15885 kHz. This was a regular broadcast from a transmitter site in Jelich, Germany. The intended target area was Africa. Our programs are aired every day at the following times and frequencies:

French 0400-0600 UTC 11775 kHz
0400-0600 UTC 13810 kHz

English 1700-1900 UTC 13820 kHz
1700-1900 UTC 15485 kHz

We are pleased that you received our signal, and hope you will tune in to Radio Africa International on a regular basis. If you would like more information on the General Board of Global Ministries, please visit our website at gbgm-umc.org.

On behalf of the General Board of Global Ministries, we wish you and yours a happy and blessed New Millennium.

Sincerely,

Donna Neumann
Executive Producer
radio@gbgm-umc.org
www.gbgm-umc.org

Ronald Atkinson
Senior Producer



Radio Veritas Asia

VERIFICATION CARD

Dec. 11, 2002 (Date)

Dear Scott R. Barbour Jr.

Your reception report of our Mandarin Broadcast on 9520 mHz. in the 31 Nov. 17, 2002 from 1150 to 1150 UTC has been verified against our log and found to be correct.

Thank you for your report. Please write again. We welcome more reports, comments and suggestions from you. With best wishes and happy listening!

Sincerely yours, Cleof L. Molinda Audience Relations Officer

HONDURAS: Radio Misiones Internacionales HRMI 3340 f/d cd. in 9 ds. w/ IMF Missions brochure. v/s James F. Planck. (D' angelo-PA).

HUNGARY: Radio Budapest 9570 via Jaszbereny f/d "Magyar Radio Archives" cd. w/ schedule in

1 mo. (Loudell-DE).

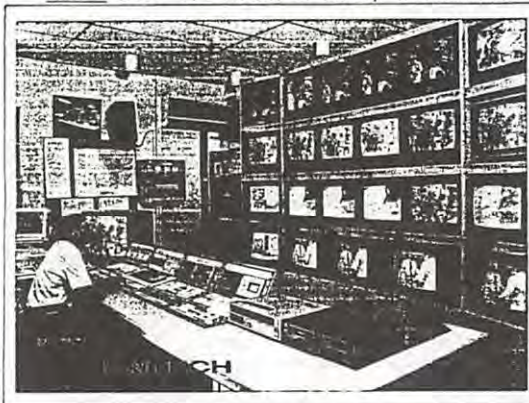
ITALY: RAI Internazionale 11800 f/d "Modernistic World Drawing" cd. w/ schedule in 2 mos. (Loudell-DE).

JAPAN: JYJ 8000 f/d cd. in 1150 ds. Addr: Broadcasting Bureau, Ministry

STATION NOTES: Radio Maya de Barillas 3325 v/s Pedro Gaspar Pedro, Gerente. Radio Veridad 4052.5 v/s Dr. Edgar Amilcar Madrid, Director and Gerente. Addr: 4 Avenida 2-24 Zona 1, Apartado 5, Chiquimula, Guatemala. Radio Conakry 7125 v/s Issa Conde. Guyana Broadcasting Corporation 3291 v/s Winston Carr, Transmitter Maintenance Engineer. KWHR

17780 v/s D.G. Griffith, Station Engineer. Addr: Shepard's Chapel, P.O. Box 416, Gravette, Arkansas 72736. HRVC La Voz Evangelica 4820 v/s Miss Dina Zuiga, Secretary to Gerente. Addr: Apartado 3252, Tegucigalpa. Honduras. Radio Litoral 4832 v/s Mario Eduardo Costillo, Gerente. Addr: Apartado 888, La Ceiba, Honduras... via PLAY DX... Sam

of Posts and Telecommunications, Tokyo, Japan. Proud of this one! (Glotzbach-NM). Radio Tampa 6055 f/d "Globe/Music"



sheet cd. in 13 ds. for a taped rpt. and 2 IRCs. (Wilkins-MO).

MALAYSIA: Voice of Malaysia 15295 f/d oversized "Kuala Lumpur Sights" cd. w/ schedule, decal and a cloth logo in 4 mos. (Loudell-DE).

MEXICO: XERMX Radio Mexico International 11770.1 and 9280.4 p/d cd. in 3 mos. (Barto-CT). 5985, 9705 and 11770 p/d cd. in 3 1/2 mos. (Barto-CT).

NORWAY: Radio Denmark 15705 via Sveio f/d "Boater" cd. in 2 wks. (Loudell).

PERU: Radio del Pacifico 4975 p/d ltr. in 1 mo. v/s Omar Larrazabal Bernal who said this was the stations 40th anniversary (Paszkievicz-WI) Radio Virgen del Carmen 4885 p/d cd. in 2 mos. v/s Jose Santos Lopez Alvarado. When I heard the station they were Radio Villa

The Caribbean BEACON

LISTENER VERIFICATION REPORT

DATE: February 6, 2002 TIME: 0119-0130 etc. COMMENTS: Thank you for your reception report. We are pleased to verify your reception on 6040 MHz from 0119-0130 etc hours with a power of 100KW on the Caribbean Beacon.

SIGNED: [Signature] beacon @ answillnet.com



TO: Scott R. Barbour Jr. P.O. Box 893 Intervale, N.H. 03345 U.S.A.

KJES

INTERNATIONAL AIRWAY RADIO STATION
The Lord's Ranch
230 High Valley Rd.
Vado, N.M. 88072
Phone (505) 233-2090
Fax (505) 233-3019

Dear Mr. Grotzbach/Glad

May God bless you for your generosity.
 Our card enclosed. Thank you

Rica. (Paszkwicz-WI).
PHILIPPINES: Voice of America
 11995 via Tinang f/d "Morocco" cd. in 2 mos. (Barto).
Far East Broadcasting Corporation 9920 via Bocau f/d "Sailing Vinta" cd. w/ personal ltr. in 1 mo. for \$1.00. v/s Jay Bayliss, Overseas Service. (Loudell).
PORTUGAL: RDP International 17745 f/d "Lisboa Hills" cd w/ personal ltr., C.D. and schedule in 1 mo. (Loudell).
SAIPAN: KPBS Far East Broadcasting Corporation 11580 f/d "Antennae Array and Rainbow" cd. w/ personal ltr. and schedule in 1 mo.

for ms. v/s Irene Gabbie, QSL Department. (Loudell-DE).

SLOVAKIA: Radio Slovakia International 9440 f/d "Philips 930A, 1931-21 Radio Set" cd. in 2 mos. (Loudell-DE).
SOUTH AFRICA: Radio Sondergrense 3320 f/d cd. in 33 ds. (Klinck-NY).
SOUTH AMERICA (Pirate): Radio Cochiquaz 11430 f/d "Map" cd. w/ ltr. in SP in 71 ds. (D'Angelo-PA).
SRI LANKA: Radio Free Iraq 15775 f/d cd. in 3 mos. (Barto-CT). **Radio Sawa** 11825 via Iranawilla 3 f/d cds. in 5

STATION NOTES: Voice of Pujiang 3280
 Addr: P.O. Box 3064, Shanghai 200 002,
 PRC. **Voice of Russia** 11500 via Xian v/s Mrs. Tanya Stukova, Listeners Department - English Service. **Falun Dafa Radio** 5925 Addr: Fang Guang Ming Inc., P.O. Box 93436, City of Industry, CA 91715. **La Voz de Camco** 9955 via WRMI v/s Jeff White. Addr: 175 Fountainblu Blvd., Suite 1N4, Miami, FL USA 33172. **Radio Fana** 6940 v/s Mr. Woldu Yemessal, General Manager. Addr: P.O. Box 30702 Addis Ababa, Ethiopia. **Radio Komala** 3930 v/s Rahman Piri Besarani, Kurdish Journalist. Addr: Postfach 800 272, DE-51002 Colonia, Germany. **Radio Rainbow** 6180 v/s T. Assefa Addr: P.O. Box 140 104, DE-53056 Bonn, Germany. via PLAY DX.....Sam.

We gratefully acknowledge your report on frequency 7115 kHz

station: Radio Jugoslavija

date: 19.01.2001

time: 00.43-0059 UTC

via Grotzbach



RADIO JUGOSLAVIJA
 P.O. Box 200, Hilendarska 2
 11000 Beograd
 YUGOSLAVIA

Fax: 381 11/ 3232-014

RADIO FREE EUROPE
RADIO LIBERTY

MEMBER, INCORPORATED
 1201 CONNELL CIRCLE AVENUE NW
 WASHINGTON, DC 20004
 TELEPHONE (202) 462-7700

LETTER OF VERIFICATION

Mr. Mark Alexander Humenyk
 26. Crestridge Heights Road
 Weston, Ont. M9P 1A4
 CANADA

26 June 2001

Dear Mr. Humenyk:

Thank you for your reception report of RFE/RL's programs, heard as follows:

22 May 2001:
 0217-0223 UTC in Russian on 9520 kHz. via Playa de Pals, Spain

Please accept this as full verification of your reception.

Yours truly,

David Walcutt

David Walcutt
 Broadcast Operations Liaison

mos. (Barto-CT).
TAIWAN: Radio Taipei International 11634.8 and 7445 p/d ltr. w/ postcard in EG/CH in 3 mos. (Barto-CT)
USA: WMLK Assemblies of Yahweh 9465 f/d form ltr. w/ religious literature in 2 wks. for ms. v/s Elder Jacob O. Meyer. (Loudell-DE)
Radio Marti 6030 f/d cd. in 1653 ds. (Grotzbach-NM)
WRNO 7355 f/d cd. in 991 ds. (Grotzbach-NM). **WBOH** 5920 cd. w/ schedule and sticker in 2 wks. v/s A.



DEPARTMENT OF INFORMATION
RADIO UGANDA
ENGINEERING DIVISION
P.O. Box 2038, KAMPALA, UGANDA

Dear Mr. Jerry Klinck,
Thank you for your Reception Report of 13/11/2000 at 04:03-04:34 UTC.

It is my pleasure to confirm that this was a broadcast of Radio Uganda originating from our Kampala transmitter on 49.76 KHz.

Thank you for your interest.

R. Naebel
Rachel Nakiwuba
for PRINCIPAL ENGINEER (B)
15/12/1999-2000

PRINCIPAL ENGINEER
REDACTED
RADIO UGANDA
P. O. BOX 2038, KAMPALA

KTBN 11590 2 f/d cds.
w/ religious material
in 5 mos. (Field-MI).
Solid Rock Radio 15725
via WRMI f/d cd. in 3
mos. (Barto-CT). Voice
of America 17740 via
Greenville "B" f/d
"Morocco" cd. in 3 1/2
mos. (Barto-CT).

USA (Pirates): Voice of
Captain Ron Shortwave
f/d plain cd. w/ hand-
written details in 113
ds. (D'angelo-PA).
Partial India Radio
rcvd. an unsolicited
"Scarfman" sheet QSL
for a non-report. The
sender said to fill
in the blanks. Actual-

ly heard them on 101098 at 1400UTC. Never sent report. (Barto-CT).
UZBEKISTAN: Radio Tashkent 15295 f/d ltr. w/ schedule in 6 wks. (Loudell-DE). 9545 n/d ltr. in 3 wks. They remembered my first report from 1984! (Paszkiewicz-WI).

STATION NOTES: Radio Revista Lux 9955

via WRMI v/s Jeff White, General
Manager. Radio Voice of Biafra In-
ternational 15610 v/s Mr. C. Osondu
Addr: 733 15th Street N.W., Suite
700, Washington DC 20005. Tigrean
International Solidarity for Justice
and Democracy 15700 v/s Walter Brod-
owsky, DTK. P.O. Box 60040, Washing-
ton DC 20039. Voice of China 7270 v/s
Lily Lu, Executive Producer. Addr: P.O.
Box 273538, Concord, CA 94527. Voice of
Democratic Eritrea 15670 Addr: P.O. Box 1946, Ruesselsheim, Germany
Voice of Iranian Kurdistan 3985 v/s Hazhir. Addr: PDKI Canada Bur-
eau, P.O. Box 29010, London, ON N6G 2V3 Canada...via PLAY DX...Sam



UNA VOZ
DE AMISTAD
QUE
RECORRE
EL MUNDO



VANUATU: Radio Vanuatu 7260 f/d "Tam-Tam" cd. w/ a long
handwritten cd., somewhat amorous, and a personal photo

in 39 mos. This arrived 3 mos
after a follow up ltr. to the
v/s with whom I did a live
New Year's interview on my
radio station WILM in Dela-
ware. This was for \$2.00.
(Loudell-DE).

RADIO COMAS TELEVISION S.C.R.L. RUC 1817 AN 12000 - G.C. 0004 FM 97.7

Av. Estados Unidos 327 Telfs. 525-0859 Fax: 525-0094 Comas - Lima Peru
E-mail: rcomas@terra.com.pe

QSL

CERTIFICADO DE SINTONÍA

Señor: SAMUEL BARTO.

RADIO COMAS TELEVISION SRL. Agradece por su
informe de recepción. Teniendo el gusto de confirmar su control
de emisión en la frecuencia de 4,880 KHz, de:

Fecha : 6 de Noviembre del 2001
Horas : 20:57 - 21:07 Utc.



Juan Rafael Salceda Paetegui
Radio Comas Televisión
E-mail: rcomas@terra.com.pe

With the holidays arriving
in short order we typed the
QSL Column a few days early.
Hope you enjoyed it. Have a
happy holiday season...Sam.

Sam

Net Notes

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

The Afghan capital Kabul has its first ever privately owned independent FM radio station. Arman FM on 98.1 broadcasts Indian, Western, Arabic and Afghan music 24 hours a day, seven days a week. Read the details at BBC News at news.bbc.co.uk/2/hi/south_asia/3283975.stm and dial into the station Web site at www.arman.fm.

Afghan ITT at www.afghanitt.com is hosting Arman FM. It might be worthwhile to periodically check this Web site to see what other Afghan companies (or broadcasters) may be hosted on the ITT servers in the future.

Joe De Capua of VOA News reported on November 7 that Liberia's Star Radio will broadcast again. Exiled Charles Taylor had closed the station in early 2000. The interim government has given permission for Star Radio to return to the air, but money is needed for operating costs and equipment. Swiss-based Hirondele estimates \$1M is needed to get things started. Sorry about this long URL, but don't blame me. Blame the VOA Web gurus: www.voanews.com/EnglishtoAfrica/article.cfm?objectID=2F820A88-DA44-4B31-8B7F88A6B0E4E2CB

The previous news story on Star Radio, dated 15 March 2001, comes from Hirondele and suffers a long URL: www.hirondele.org/hirondele.nsf/0/bdeeda0c03580ca0c12568a30072e58d?OpenDocument

Iraq

Thanks to Kim Elliott for the tip, I've been reading the US-led Coalition Provisional Authority (CPA) www.cpa-iraq.org Web site, looking for clues on media sites. The pages include speech transcripts, fact sheets on Iraqi ministries, public

service announcements, and official announcements and orders issued by the CPA.

The Iraqi State Company for Internet Services is functioning once again at www.uruklink.net. At the upper right of the home page, there are links to Radio Sawa, Radio Monte Carlo - Middle East and BBC Arabic pages and audio.

History

In poking around the news and blogs around November 22, the popular press was asking "where were you that fateful day 40 years ago?" Lou Josephs pointed us to an unedited hour-long audio tape from KLIF Dallas - riveting listening even today. And the Dallas Morning News had (in our opinion) a better-than-average section on JFK. If this history is of interest to you, we have all the links here: trsc.com/weblog/index.html/#jfk

In Conclusion...

If you using Nullsoft's WinAmp www.winamp.com for playing MP3 recordings, consider spinning up Apple's iTunes player now available for Windows at apple.com/itunes. You may prefer the tone controls and interface, not to mention the ability to offload recordings to the 40 gb iPod portable player.

Are the WRN servers too busy for you? Try the alternate page ituner.com/special/wrn.html that works very well here.

If you came in late, don't forget about the New Year Eve day challenge of tuning in the New Year Day hour-by-hour. Read the details at Lou Josephs' www.ibc.net and the MediaNetwork blog at www.myjamby.com/medianetwork site.

Happy holidays to all!

Tropical Band Loggings

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

- 2310 AUSTRALIA ABC 1240 11/16 M&W EE tlk; poor, as were 2325 and 2485. (Lineback-KS)
- 2490 UNID 1220 11/16 modern SS pops, W SS, started fair but faded out. (Lineback-KS)
- 2850 N KOREA Central BS 1218 11/16 W Kor talk, poor (Lineback-KS)
- 3200 SWAZILAND TWR (P) 0311 11/5 ID presumed, not //3240 and in different language. S2 sig in unknown Afr lang. Both 3240 & 3200 clearly are African languages. 0313 w/what sounded much like C&W mx; back to long talks in Afr language. (FCDX) (Montgomery-PA)
- 3220 PNG R. Morobe 1152 10/19 vern pops very faint on an exc PNG morning. (Lineback-KS)
- 3235 BRAZIL R. Guaruj Paulista 2326-2340 11/3 vcl, M PP ancw/tlk, IDs, jingles and TCs. P-F; //5045 was booming in. (D'Angelo/FCDX-PA)
- 3235 N. BRITAIN RNWB 1102-1119 10/19 Island mx w/ M tlks b/w selections, poor, f/out by 1119. (Barbour-NH) 1251 11/15 vern pops, poor (Lineback-KS)
- 3240 SWAZILAND TWR 0305 11/5 M in unknown Afr lang w/long tlks; app nx. (FCDX). (Montgomery-PA)
- 3255 S. AFRICA BBC relay 0318 11/5 M EE nx, TC; best in LSB (FCDX) (Montgomery-PA)
- 3260 PNG R. Madang 1150 10/31 Vern pops, vy poor (Lineback-KS)
- 3266.4 INDONESIA RRI Gorontalo 1159 10/31 SCI, vy poor (Lineback-KS)
- 3290 PNG R. Central 1151 10/31 Vern pops, poor (Lineback-KS)
- 3291 GUYANA VOG 0343 11/3 W EE nx & rel tlk; repeated mentions of Nigeria (Radcliff-IN) 3291.25 2322-0002 11/3 Hindi mx, ID ToH; fair (Kohlbrener/FCDX-PA)
- 3310 BOLIVIA R. Mosoj Chaski 2253-2301 11/3 rustic vcls, W tlk over sounds of childrens voices. Mentions of Cochabamba 2258. Poor (Kohlbrener/FCDX-PA) 0935-0955 11/4 M w/long talk in Quechua; vcls 0952; ID & anmts; fair. (D'Angelo/FCDX-PA)
- 3315 ADMIRALTY IS R. Manus 1206 11/11 M EE nx, poor, //4890. (Lineback-KS)
- 3315 INDIA AIR Bhopal *0020-0041 11/3 OC until flute IS 0023; brief vcl 0025, Hindi anmts; pips 0030, Hindi nx; //4820, 4860. (D'Angelo & Field/FCDX-PA) 0036-0054 11/2 M w/tlks, weak under QRN, mx poking through at 0040, ballads. Signal improved slightly enough to hear definitive Hindi mx at 0049, brief tlk 0054; then lost. V.poor. (Barbour-NH)
- 3320 S. AFRICA R. Sonder Grense 0318 11/3 M Afrikaans tlk, pop song 'Walking in Sunshine'. Again 11/4 2150. (Field- FCDX, PA)
- 3325 INDONESIA RRI Palangkaraya 11/3 2157-2214 singing, SCI, Indo nx; regional mx (Field-FCDX, PA) 1158 10/31 Indo pops, M Indo, SCI 1159, fair (Lineback-KS) 1258 11/8 Indo pops, F-G (Lineback-KS) 2156-2209 f/o 11/3 W Indo tlk hosting vocals. SCI 2159, Jakarta news. Fair during very short peak but mainly poor. (D'Angelo/FCDX-PA)
- 3325 N.BRITAIN R. Bougainville, 1120 11/15, M&W EE // 4890, poor. (Lineback-KS)
- 3325.25 NIGERIA R. Nigeria 2135-2158* 10/21 W EE, US pop mx; Phil Collins, PM Dawn, PSA re "education" and "love one another". Off mid-song w/o ID or NA. (Barbour-NH)
- 3335 PNG R. E. Sepik 1207 11/11 M EE nx, //4890, poor (Lineback-KS)
- 3340 HONDURAS R. Misiones Internacionales, HRMI 0310-0336 11/14; mix of SS tlks & relaxing mx selections; 0422 M EE ID, freq anmt & San Bernardino postal address for reception reports. Anmt repeated before SS ID & freq anmt; back to continuous vocals; poor. (D'Angelo-PA)
- 3345 INDONESIA RRI Ternate (P) 2153-2200* 11/3 group singing until plug pulled at top of the hour. Very poor in narrow listening window. (D'Angelo/FCDX-PA) 1257 11/8 Indo pops, P-F (Lineback-KS)
- 3345 S. AFRICA Channel Africa 0300-0325 11/14 open w/choral NA, M EE ID, freqs, nx, sports; poor but //9770 was good. (D'Angelo-PA) 0322 11/5 M EE nx (FCDX) (Montgomery-PA) 0309 11/3 M EE sports scores, ment Africa; also 11/4 2150 (Field-FCDX).
- 3355 PNG R. Simbu 1155 10/31 Vern pops, very poor (Lineback)
- 3365 BRAZIL R. Cultura Araraquara 2340-2348 11/3 M PP tlk over movie theme music, jingle & ID; M romantic vocal; fair. (D'Angelo/FCDX-PA)
- 3365 PNG R. Milne Bay 1252 11/15 EE pops, P-F, //4890. (Lineback-KS)
- 3375 BRAZIL R. Clube 0240-0301* 11/5 EE/PP, US pop mx; Richard Marx, Elton John, w/occ M tlk over. S/off anmts over Phil Collins, "One more night". Fair, QRN. (Barbour-NH)
- 3375 PNG R. W. Highlands 1124 11/15 vern pops, vy poor (Lineback-KS)
- 3976 KALIMANTAN RRI Pontianak 1149 11/1 Indo pops; poor but fair by 1243. (Lineback-KS)
- 4000 INDONESIA RRI Kendari 1159 11/8 SCI into RRI nx, P-F (Lineback-KS)

- 4000 **IRAN VOIRI**(p) 0036-0050 11/6 Tajik? M w/tlks between Arabic-style singing/chants; poor w/DW splatter from 3995. Unusable at t/out. I have a listing, courtesy EDXP, for VOIRI, 4000, 0100-0230 in Tajik. Haven't seen a current schedule lately, perhaps they are signing on earlier? (Barbour-NH)
- 4052.5 **GUATEMALA R. Verdad** 0518 SS, mx, ID, 11/3 (Radcliff-IN)
- 4386.6 **PERU R. Imperio** 1043-1053 11/3 M SS preaching, flute, M ID, mx; poor. (D'Angelo/FCDX-PA) 11/8 1015-1045 talk, ID, live prayers (Paszkiwicz-WI) 0948-1020 11/16 M&W rel tlks to live audience. Returned to studio 1004 for M ID, more tlks; 1011 returned to M preaching before crowd with Hallelujah's galore. P-F w/deep fades. (D'Angelo-PA)
- 4480 **CHINA CNR** 2145-2156 11/3 M&W CC tk; poor, but //5030 poor & 7935 fair. (D'Angelo/FCDX-PA)
- 4605 **UNID** 1159-1202 10/27 SS s/on anmts & talk, poor (Lineback-KS)
- 4606.4 **PAPUA RRI Serui** 1313 11/15 M&W INDO tlks, poor. (Lineback-KS)
- 4635 **TAJIKISTAN Radio of Tadjikistan**(p) 0127-0155 11/11; ME style mx w/M&W ancrs. Mention of Tajik & Dushanbe 0130, but never got a clear ID; lost in the noise ard 0150. Poor to Fair on fade-ups. (Beattie, Ca.)
- 4753.3 **INDONESIA RRI Makassar** 1154-1220 11/2 M&W Indo tk to SCI & Jakarta nx 1200; fair & //4870 at 1200. Noted again 2135 w/vy good sig. (D'Angelo/FCDX-PA) 2137-2155 11/3 W over light instl mx. Fair signal at tune-in, went downhill fast. (Kohlbrenner/FCDX-PA) 1205 11/8 M&W RRI nx; F-G (Lineback-KS) 1156 11/15 Indo pops M Indo, good. (Lineback-KS) 1117-1130 11/2 Indo mx & ballads, tk (presumed ID) at 1129 and back to mx. Poor. (Barbour-NH)
- 4754.3 **BRAZIL R. Educação Rural** 0002-0028 11/4 M ancr w/mx show, PP, TCs & song intros; F-G. (D'Angelo/FCDX-PA)
- 4760 **INDIA AIR Leh**(?) 1231 11/15 M soccer ancr, EE & lang, India vs. ??, many ads/PSAs, poor. (Lineback-KS)
- 4760 **LIBERIA ELWA** 0557-0610+ t/i to vibraharp IS; opening EE anmts 0558; EE rel px 0600 w/traditional rel mx. Very weak. (Alexander PA 10-19)
- 4765 **BRAZIL R. Rural** 0113-0122 11/7 M PP tlks & covers of classic US pops, including a bouncy version of "Ghost Riders in the Sky" (Yippee-I-A, Yippee-I-O), W full ID 0115. (Barbour-NH)
- 4775 **BRAZIL R. Congonhas** 2345-0005 11/3 mix of pop vocals & M w/PP tlks, ID 2357; fair with swisher QRM. (D'Angelo/FCDX-PA)
- 4781.37 **ECUADOR R. Oriental** 1020-1100+ 10/19 SS tk, HC mx; time pips 1030; ads, jingles, ID; poor in noise. (Alexander PA) 4781.4 1008-1016 11/3 M ID, ad string, TC and Latin vocals; fair with swisher QRM. (D'Angelo/FCDX-PA)
- 4790 **INDIA AIR Chennai** 0002-0045* 11/3 mix of Hindi vocals & M w/Tamil language talk. s/off 0044 w/anmts over flute music; P-F but awful swisher QRM. Next night noted at *0000 w/flutes but conditions were vy poor. (D'Angelo/FCDX-PA)
- 4790 **INDONESIA RRI Fak-Fak** 1148 11/15, Islamic px, fair. (Lineback-KS) 1132-1148 11/4 Indo/Hindi sounding mx, hammered by "sweeper" QRM, gone by 1148. Poor. (Barbour-NH) 1152 11/1, Islamic px, fair (Lineback-KS)
- 4800 **INDIA AIR Hyderabad** 1306 11/8 SC mx, poor under China (Lineback-KS)
- 4815 **ECUADOR R. El Buen Pastor** 1025-1050+ 10/19 HC mx, SS anmts, ID 1043; tk in Quechua. Strong-very good. (Alexander PA) 1040-1054 11/4, long talk by man in Quichua and Spanish. Instl mx and female vocal. (D'Angelo/FCDX-PA) 1038-1055 11/3 Childrens vocals, M&W in presumed Quechua with rel talk. (Kohlbrenner/FCDX-PA)
- 4815 **MEXICO R. Transcontinental de America - XERTA** (T) 0229-0258* 11/3 M SS fqy anmt, px of continuous romantic ballads. Off suddenly w/no anmts. Not sure what other choices there are for this one. Fair to good signal. (D'Angelo/FCDX-PA)
- 4820 **INDIA AIR Kolkata** *0026-0034 11/3 M Hindi anmts, vcls, time pips 0030, M Hindi nx, //3315 and 4860 at s/on; poor. (D'Angelo/FCDX-PA) 1304 11/8 M in lang, subcont mx, fair-good, Tibet heard under. (Lineback-KS)
- 4824.4 **PERU La Voz de la Selva** 1026-1040 11/4 M&W w/SS tk, OA vcls, ID, TC, ad string. P-F (D'Angelo/FCDX-PA) 1014-1022 11/3 M tk & vcls, ID at 1015. (Kohlbrenner/FCDX-PA)
- 4830 **VENEZUELA R. Tachira** 0343 11/3 M&W SS tk, laughter, instl mx. (Radcliff-IN) 0007-0040 11/3 Latin music hosted by a man w/"Radio Tachira" ID 0008; then Whitney Houston song. F-G (D'Angelo/FCDX-PA) 1050-1110+ 10/19 lively LA mx, IDs, SS anmts, ads, jingles; vy good at tune-in but quickly deteriorating. (Alexander PA) 1107 11/9 fast talking M in SS, ID, Ranchera, blasting in just like the old days. (Lineback-KS) 2354-0015 11/2 M w/ mx, SS/EE tlks, US pops by Foreigner and Whitney Houston. Full ID ToH, then singing "Radio Tachira" jingle. In the clear, tho weak w/fades. (Barbour-NH)

- 4832 **HONDURAS R. Litoral** 1045 11/4 carrier already there, opened 1055 w/full ID, mx in backgd; IDed as "HRLW, R.Litoral," gave fqy as 4830, location as La Ceiba, also the departamento. Contd. with religious vocals past 1100. Audio a little low, and echoey, mx better. (Berg-MA) 4832.03 1100-1130+ 10/19 SS ID, tlk; SS rel mx; vy good. (Alexander PA)
- 4845 **MAURITANIA RM** 0211+ 11/3 M AA tlk (Field- FCDX, PA) 0652-0700* 11/13 Koranic chanting, W w/s/off & ID; good. (Beattie-CA) 0210-0305 10/27 M w/seemingly never ending AA tlk; vcls 0245, ID near ToH; then recitations; good sig w/Ramadan sked. (D'Angelo-PA)
- 4855.7 **PERU R. La Hora** 1010-1017 10/22 M SS mx and tlks, "canned" ID 1014, poor. (Barbour-NH)
- 4860 **INDIA AIR Delhi** 0027 10/15 typical Indian mx, 6 pips, M w/comments; mx Flutter with S8 signal level with poor audio; ID tentative; long periods of no audio but carrier still there; then what sounded like a radio play of sorts; then mx in Hindi lang 0033. (Montgomery-PA) 0026-0035 11/3 M Hindi anmts 0026, vcls, pips, M Hindi nx; //3315/4820 at s/on; poor. (D'Angelo/FCDX-PA) 1230 11/16 TP and W w/EE nx, poor, //4920, 4895, 5010 (Lineback-KS)
- 4869.9 **IRIAN JAYA RRI Wamena** 1141 11/15, EE C&W, Indo pops, fair. (Lineback-KS) Wamema?/Sorong?, 1047-1103, Nov.4, Continuus Indo mx w/ a bad het that slowly drifted upwards only to return at ToH. Poor. (Barbour-NH)
- 4870 **INDONESIA RRI Wamena** 1144-1223 11/3 M w/mx px, lcl ID 1159, SCI; Jakarta nx 1200; P-F, //4753.4 (D'Angelo/FCDX-PA) 4869.97 11/4 1154 ID presumed as fairly weak but audible in local Indo language. Nice mx at t/i; M 1156. Fanfare noted at 1202.(FCDX) (Montgomery-PA)
- 4885 **BRAZIL R. Clube do Para** (t) 0205 11/3 M PP pops (Field- FCDX, PA)
- 4890 **GABON RFI** 0435-0457* 10/27 men in FF, no ID hrd. (Marlin Field-MI)
- 4890 **PNG Nat. Radio** 1200 10/31 EE ID and nx, fair-good (Lineback-KS)
- 4895 **SARAWAK RM Kuching** 1247 11/1 Islamic px, fair (Lineback-KS)
- 4902 **BOLIVIA R. San Miguel** 0210-0248* 11/16 M w/px of rustic vocals, SS anmts, TCs, occ IDs; 2 IDs during 0247 s/off anmts; no NA (D'Angelo-PA) 4902.6 - here when opened 0958 11/9 w/brief tlk by W, ID 1000. Usually opens c.0900, but this was a Sunday. Drifts a lot; usually arnd 4902.8 when carrier comes on, then moves downward, wobbling as it goes. Makes ECSS difficult. (Berg-MA) 0210-0248* 11/16. program of rustic vocals hosted by man w/SS anmts, TCs and occ IDs. Two IDs during 0247 s/off anmts; off w/no NA. P-F (D'Angelo-PA) Vy nice sig *0910 11/12, two minute introductory oration by woman, incl. ID, then greeting and start of prgm by man; mostly light pop vocals, many UTC-4 TCs, W ID 0930 ment. onda corta. This is apparently the same stn that used to be on 3310 in the mid 80s. Unusually strong rcpn from Andean stns this morning. (Berg-MA)
- 4905 **TIBET Xizang BC** 1119-1130 11/9 W in EE/Lang, lang rap-style vocals and other decadent western- style pops in lang, fair. (Lineback)
- 4910 **INDIA AIR Jaipur** 1311 11/8 M&W in Hindi, poor (Lineback-KS)
- 4910 **ZAMBIA ZNBC** 0249-0310 11/4 IS at t/i; then NA 0250; ID & local vocals. (Kohlbrener/FCDX-PA)
- 4915 **BRAZIL R. Difusora** (t) 0205 11/3 W PP pops; CODAR sig sweeping 0206 M w/R.Difusora ID. Into mx with piano & M sings (Field- FCDX, PA).
- 4920 **SUMATRA RRI Jambi** 1159 11/15 SCI into RRI nx, poor. (Lineback-KS)
- 4920h **USA WHRI** 1209 10/27 EE Gospel mx px, ID 1230, poor, best on 70 egree bev, 1/2 harmonic of 9840 hrd in //, interfering with my rx of hennai hrd under.(Lineback-KS)
- 4925 **BRAZIL R. Educacao Rural de Tef** 0045 11/3 PP, vocal pop mx (several songs running all with female vocals), brief M talking, jingles. (Radcliff-IN)
- 4949.98 **ANGOLA R Nacional Luanda** 0340 11/11 all-nite px of EZL mx, 0400 4 tp's, W "bom dia," RN ID, two mins of brief local nx stories, then morning magazine-type program. Best at t/i, steadily losing ground, but still solid and in the clear at 0420. (Quaglieri-NY) 0105-0135 W ancw w/Afr & PP vcls, "Radio Nacional" ID. Poor (Kohlbrener-PA)
- 4955 **PERU R. Cultural Amuata** 2257-2312 10/21 M&W SS mx & tlks, "echo" FX ID over mx 2307, good signal! (Barbour-NH)
- 4959.86 **DOM REP R. Cima** 0707 10/29 ID & jingles, first for 100.5 FM only, then 2d ID for the several stns in the Vargas network, incl. 4960 as "radio global," which I thought was just an informal reference to its reach. Then I checked their website (also mentioned on air) www.cima100fm.com, and I see that 4960 is shown there as "Radio Global International" with its own distinct logo, as the others have. Fairly good signal. (Berg-MA) 4959.87 0225-0550+ 11/2 lively LA mx; many canned IDs; good; slight QRM from VGA at their 0300 s/on. (Alexander PA) 0110 11/3 SS, blasting, excited male ancw, rhythmic mx, canned ids (Radcliff-IN)
- 4965 **PERU R. Santa Monica** 0951-1020 11/3 MSS w/px of OA vcls, TCs, IDs; poor w/ slightly muffled audio. (D'Angelo/FCDX-PA)

- 4965 **ZAMBIA Christian Voice** 0133-0145 11/12 rel vcls, W EE ID, address 0140; fair (Kohlbrener-PA) 0113 10/15 M&W EE talks about marriage counseling; exc. Mostly religious programing. (Montgomery-PA)
- 4985 **BRAZIL R. Brasil Central** 0132-0205 10/18 Brz pops hosted by W w/PP tlks, ad string, discussion with a man. ID 0147 & 0200 w/freq anmt; fair. (D'Angelo-PA)
- 4991.7 **PERU R. Ancash** (P) 1014-1030 10/18 W SS tlks, sounds religious, M 1028 w/(p)ID/anmts; vy wk, poor. (Barbour-NH)
- 5000 **VENEZUELA YVTO Observatorio Cagigal** 0057 11/3 M SS w/ time tones under WWW. (Radcliff-IN)
- 5005 **NEPAL R. Nepal** 1237 11/11 Nepalese mx and talk, very poor. (Lineback-KS)
- 5005 **PERU Juliaca R. LTC** 1002 11/4 W SS ancr w/poss nx; weak, fades, ID presumed. (FCDX) (Montgomery-PA)
- 5009.79 **DOM REP R. Cristal** 0000-0101* 10/11 SS rel px, phone talk, IDs, abruptly off 0101; strong. Really booming in but with slight distortion. (Alexander PA) 1138 11/9 Rudolph in SS, ID, poor. (Lineback-KS)
- 5010 **INDIA AIR Thiruvanyhapuram** 1235 10/28 S-C mx, EE nx, Hindi tlk about Ramadan, poor-fair (Lineback-KS)
- 5010 **MADAGASCAR R. Madagascar** 0255 11/7 IS repetitions, weak (Berg-MA)
- 5015 **TURKMENISTAN Turkmen R.** 1240 11/11 lang talk & lcl vcls; vy poor (Lineback-KS)
- 5020 **PERU R. Horizonte** 10/29 0016 OA mx, M SS, IDs, TC (Montgomery-PA)
- 5020 **SOLOMON IS SIBC** 1201 11/15 BBC WS EE nx, poor. (Lineback-KS) BBCWS 1152-1202 11/4 M EE nx, promos, pips, ID; poor. (Barbour-NH)
- 5026 **UGANDA R. Uganda** 2110-2124* 11/3 M lcl lang, ments Uganda, Afro-pops, off mid-song 2124*. Fair (Kohlbrener/FCDX-PA)
- 5030 **BURKINA FASO RTV Burkina** 2218-2228 11/2; presume them here w/mix of Afr vocals and rap music. (Kohlbrener/FCDX-PA) 2140 FF W talking at length, FF pops, weak but clear 11/03 (Radcliff-IN) 2225-2338 10/19 FF tlks, highlife and tribal music; ID 2300 and numerous mentions of Burkina Faso; P-F, noisy. (D'Angelo-PA)
- 5035 **BRAZIL R. Aparecida** 2352 10/15 after V.Vietnam shut down; slow romantic tunes, PP ID 2359; M&W ancrs, mx, ID 0002. (Montgomery-PA)
- 5035 **VIETNAM VoV3** 2341 10/15 M long tlk in unknown Asian lang; M&W 2345 w/jingle; off suddenly 2352 w/no NA. (Montgomery-PA) 1248 11/11 Hmong trad-style vocals, lang talk by W, fair. (Lineback-KS)
- 5040.1 **ECUADOR La Voz del Upano** 0932-0952 11/4 cont Latin vcls, W ID, SS tlk; P-F. (D'Angelo/FCDX-PA)
- 5040.6 **BURMA R. Myanmar** 1110-1155 11/4 loang talks, vocals, male pop ballads, fanfares, talks. (Field, D'Angelo, Montgomery-FCDX, PA)
- 5045t **BRAZIL R. Guarjua Paulista** 2230 11/3 just audible, latin mx, M PP tlk. (Radcliff-IN)
- 5054.6 **COSTA RICA Faro Del Caribe** 0415 11/3 SS, W talking, pop mx, sudden s/off in middle of song 0458* (Radcliff-IN) 5055 0125-0136 11/2 SS ballads at t/in; ID/anmt at BoH, prg intro followed by M w/long tlk. Weak/poor. (Barbour-NH)
- 5240 **TIBET Xizang PBS** 2203-2220 11/3 classical music incl. "Blue Danube". // 6130 and 7385. (Kohlbrener/FCDX-PA)
- 5500 **ETHIOPIA V. Tigrey Revolution** *0355-0415 10/29 opening music, M ID 0400, Amharic nx; flute mx, more tlk. P-F & //6350 weak but in the clear in usb. (D'Angelo-PA)
- 5678 **PERU R. Ilucan** 0204-0221* 11/3 Andean vocals, M SS ID. (Kohlbrener, Field/FCDX-PA)
- 5775 **ITALY European Music Radio** (P) 2153-2200* 10/24 pop mx px w/snatches of EE tlk by M ancr. No ID, but catch IRRS ID at 2159 closedown. Poor. (D'Angelo-PA)
- 5775.1 **ITALY AMIS (Europaena Social Forum)** px via IRRS, coming on with good level signal at 2130 11/13, FF to 2200, then three EE features on water conservation, AIDS in Uganda, and an Arab-Israeli hip-hop group. No AMIS or ESF IDs noted, but IRRS ID at 2230 promising numbered QSL, then mx to 2233*. There was a weaker stn in EE on 5775.0 when this one came on, probably the IRRS 20 kw. xmtr. (Berg-MA)
- 5952.45 **BOLIVIA R. Pio XII** 0941-0952 11/3 M&W chatter w/brief flutes between items; poor (Kohlbrener/FCDX-PA)

International Band Loggings

5901-30000 kHz

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- 5905 **UKRAINE RUI** Simferopol in UK/EG 0341, tlks w/mx, classical mx, ID, IS, f-p, muddy (Barbour NH 10/29)
- 59525 **BOLIVIA R Pío XII** in SP0941, M/W chatter w/brief flutes between items, p (Kohlbrener FCDX-PA 11/3)
- 6020nf **TURKEY V of Turkey** in EG 0403, nx, ID, local mx, strong sig w/slight fades (Montgomery PA 11/1)
- 60202 **PERU R Victoria** Lima in SP0422, canned relig pgm, "Voz de la Liberacion", poor until 0450 when Turkey goes off on 6020, NA at 0500 followed by OM with relig sermon (Quaglieri NY 11/11, Kohlbrener PA 11/12)
- 6030 **GERMANY Sudestrundfunk** Muehlacker in GM 0710, pop/rock mx, w/DJ, ads, morning pgm format, ID 0730, jingle and into YL w/nx, more pop mx, f-p (D'Angelo PA 11/10)
- 6045 **MEXICO R Universidad XEXQ** San Luis Potosi in SP 2215, non-stop classical mx, ID 2300 (Paszkiewicz WI 11/15)
- 6050v **NIGERIA R Nigeria** Ibadan in EG 2106-2133*, tlk re Ramadan and Nigerian customs, ID 2118, tlk on democracy in Nigeria, group singing, NA?, p (D'Angelo, Kohlbrener PA FCDX-PA 11/3, Berg MA 10/20)
- 6060v **BRAZIL R Tupi** Curitiba in PT 0650, relig pgm, full ID, fqys 0700, fair w/fqy shifting (Berg MA 11/12)
- 6060 **NAMIBIA NBC** Windhoek in EG 2250-0040, lite jazz instrum'tls, non-top vocals, //6175, f (Kohlbrener PA 11/11)
- 6090 **NIGERIA R Nigeria** Kaduna in EG 2050, Afro/pop vocals, drums and ID 2059 (Kohlbrener FCDX-PA 11/3)
- 6095 **NEW ZEALAND R NZI** in EG 1307, nx, brief island mx, "Dateline Pacific", tourism tlk, f (Barbour NH 10/30)
- 6100 **BOSNIA Int'l Svc of Serbia/Montenegro Radio** relay in EG 2203, nx re Milosevic and UN court, still using "Radio Yugoslavia" ID followed by new ID, very weak (Barbour NH 11/3)
- 61055 **BOLIVIA R PanAmericana** La Paz in SP 1008, flutes, ID, poor signal (Kohlbrener PA 11/12)
- 6135 **BRAZIL R Aparecida** in PT 2255, YL talking, melodramatic vocal mx, p, //9630 (Radcliff IN 11/7)
- 6140 **COLOMBIA R Melodia** in SP 2343, nice mix of SP mx w/DJ, ID, PSA, good sig until R Japan s/on 6145 at 0000 (Barbour NH 11/3) in SP 0402-0440, opera vcls, ID's, f-g (D'Angelo, Kohlbrener FCDX-PA 11/3) reactivated stn?
- 6145 **CANADA R Japan** relay Sackville in EG 0000, ID, TC, rpt on PM, ment summit meeting, g (McGuire MD 10/18)
- 6150 **BRAZIL R Record** São Paulo in PT 2320, canned annm'ts, ID, mx, buried in QRN (Radcliff IN 11/6)
- 6155 **BOLIVIA R Fides** La Paz in SP 2221, long tlk thru 2230, mx, field rpts?, ment Bolivia, f (Barbour NH 10/21)
- 6165 **VIETNAM V of Vietnam** Hanoi in VT 1242, tlk, vocals, lots of flutes, ment Vietnam 1300 (Paszkiewicz WI 10/26)
- 6185 **GREECE R Sawa** relay via VOA xmtr in AR0142, hrd under XEPPM Mexico, //7185 (Montgomery PA 10/29)
- 6188 **PERU R Oriente** Yurimaguas in SP 1024, lively pgm of OA vocals, TC and ID 1031, ad string (D'Angelo FCDX-PA Kohlbrener FCDX-PA 11/3)
- 61935 **PERU R Cosco** in SP 2319, SP mx, w/OM tlk b/w selections, long relig? tlk, poor sig (Barbour NH 10/21)
- 6350 **ETHIOPIA V of Tigray Revolution** in Tigrinya 0357, IS, positive ID, rtty QRM, //5500 (Montgomery FCDX 11/5)
- 6536 **PERU R Dif La Poderosa** Huancabamba in SP 0025-0108*, OA folk mx, TC's, ancmts, tlk, ID's, abrupt sign off (Alexander PA 10/10) ED: Xmtr power only 1.5 kw.
- 69581 **PERU L Voz de Campesino** Huarmaca in SP 0048, Andean vcls, some tlk, ID, poor (Kohlbrener FCDX-PA 11/3)
- 7125 **GUINEA R Conakry** in FR 2302, OM tlks w/flute backing, band w/hi-life mx, group vcls w/reggae backbeat, Afro jazz, ID, fqy, NA at 2002 then dead air (Field FCDX-PA 11/2)
- 7135 **MOROCCO RTV Marocainne** in AR 2216, discussion re Iraq, AR chants/chorus, fair w/QRN (Barbour NH 10/28)
- 7210 **VIETNAM VOV-1** Hanoi in VT 1011, tlks, local ballads, //9530, both fqys poor (Barbour NH 10/19)
- 72103 **BENIN R Dif du Benin** Cotonou in FR0609, hi-life mx, interviews, nx, tribal mx, tlk, fair (Beattie CA 11/12)
- 7235 **SINGAPORE R Singapore** in Malaysian 1219, nx, several sound bites, field rpts, f (Barbour NH 10/24)
- 7260 **RUSSIA R Netherlands** relay Petropavlovsk in EG 1046, tlks re education in Europe and about space shuttle, S-6 level w/flutter, web site given at 1056 before 1057 s/off (Montgomery PA 11/8)
- 7270 **INDIA AIR** Chennai in Tamil 1215*, singing w/local mx, tabla & sitar, tlks prior to s/off (Field FCDX-PA 11/4)
- 7285 **UZBEKISTAN R Tashkent Int** in EG *1200, IS, ID's, cmntry, lcl folk mx, //9715 (Alexander PA 10/19)

- 7285 GERMANY *Croatian R* via Juelich relay in EG 2322, nx items, ID 2323, sports nx re basketball & skiing, mentions of internet streaming, s/off 2330, S-6 signal competing w/Vietnam on same fqy (Montgomery PA 11/10)
- 7325nf AUSTRIA *R Austria Int* in EG 0106, feature "Insight Central Europe" (Brouillette IL 10/27)
- 7450 GREECE *R Makedonias* in GK 2155, nice mx at tune in, ID, high pitched tone as time pip at 2200, nx, more mx, very good signal w/only slight fades (Montgomery PA 11/8)
- 7460 ALGERIA *R Nac de la RASD* (Western Sahara) via Rabuni relay in AR 2024, tlk, lots of "Shariah" & "Arabiyah's" instrum'l mx, more tlks, occasional brief mx jingles sounding like RASD, weak but clear (Barbour NH 10/31)
- 7475 GREECE *V of Greece* in GK 2235, old Latin American mx w/YL annrc, blues mx, ID (Brouillette IL 11/2)
- 7500nf BULGARIA *R Bulgaria* in EG 2230, ID, feature "Keyword Bulgaria" (Brouillette IL 11/2)
- 9525 SWAZILAND *TWR* in EG/Vern 1902, IS/ID loop in EG, "This is Trans World Radio, Swaziland", ID in Vernacular mx intro to relig tlks, gospel style mx, f (Barbour NH 10/31)
- 9535 THAILAND *R Thailand* in EG 1925, tlks, SE Asian instrum'l, sound bites, econ figures, poor (Barbour NH 10/31)
- 9590 NETHERLANDS ANTILLES *R Nederlands* relay in EG 0400. fqy, sked, chimes, ID, TC, pips, rpt on terrorist attach in Saudi Arabia, g (McGuire MD 11/4)
- 9620 SPAIN *REE* Noblejas in SP 2300, IS, ID, regional & national nx, weak signal (McGuire MD 11/5)
- 9635 CHILE *Voz Cristiana* Santiago in SP 2355, tlk re radio production seminar in Mexico, ID (Brouillette IL 10/27)
- 9785 FINLAND *YLE* in FN/SW0240, churchsvce, comntry, nx in SW, ID, repetitive IS0200, f (Hanlon NJ 10/30)
- 9810 THAILAND *R Thailand* in EG *1230, domestic nx items, bubble jamming on low side, g (Hanlon NJ 11/1) 1/2 hr xmsn
- 9965 PALAUKHBN *V of Hope* in CH1239, relig tlks over mx, choral ballad, ID, upbeat mx, f-p (Barbour NH 10/24)
- 11730nf NETHERLANDS ANTILLES *R Vlaanderen* Int relay in EG *2000, "Music from Flanders" (Brouillette IL 11/1)
- 117341v TANZANIA *V of Tanzania Zanzibar* in SH 2014-2100*, short tlks, nx mentioning neighboring countries between mx selections, OM w/prayer/Ko'ran, NA at s/off, fair with audio fades (Barbour NH 11/5, Field FCXD 11/2)
- 11735 THAILAND *VOA* relay in Spec EG 2335-0000*, ID, nx, "American Stories" feature, f (D'Angelo PA 11/7)
- 11760 CUBA *RHC* Havana in EG 2100, nx, "DX'ers Unlimited" w/tlk on solar activity and dipole antennas (Walter VA 11/8)
- 11785nf UNITED KINGDOM *R Ndeke Luka* via Merlin relay *1900, s/on one hr xmsn in FR/Vern, not very good at s/on and worse at 1959 s/off, not as good as old 15545 fqy (Berg MA 11/7) ED: Station began as R Minurca a few years ago as outlet of the UN Peacekeeping Mission in the Central African Republic.
- 118052v GEORGIA *R Georgia* Tbilisi in GM 0657, choral mx, IS, ID, fqys, tlk w/many numbers given, into EG? 0630 but not sure of lang due to deteriorated signal, fqy drift during xmsn, fluttery reception (Berg MA 11/4)
- 11815 BRAZIL *R Brasil Central* Goiana in PT 2340, relig tlk, vocals, ID & fqy 2355, mx pgm hosted by YL, nice mix of Bras, Euro, and American pop & rock classics, //4985 (D'Angelo PA 10/28, Brouillette IL 10/13)
- 11820 SAUDI ARABIA *BSKSA* Riyadh in AR 2220, OM w/tlk, mailing address, vg (Brouillette IL 10/12)
- 11830 BRAZIL *R Anhanguera* Goiania in PT 2330, soccer match w/jingles, ID's, f (D'Angelo PA 11/6)
- 11865 SOUTH AFRICA *BBC* relay in SH 0315, group discussion w/some ments Tanzania (Brouillette IL 10/12)
- 11875 CUBA *RHC* Havana in SP 2230, IS, ID, history & resurgence of Cuban troubadors (Brouillette IL 10/11)
- 11885 TURKEY *V of Turkey* in TK 2235, continuous pop mx and ID at 2300, vg (Brouillette IL 10/11)
- 12035nf RUSSIA *Deut Welle* relay via Irkutsk in CH 2344, xmsn to SE Asia, pop mx show, g (Hanlon NJ)
- 13685 AUSTRALIA *Voice Int* Darwin in EG 1255, travel info re summer destinations, gospel info, exc (Hanlon NJ 11/1)
- 13710 INDIA *AIR* Bangalore in EG 1334, nx, comm'try, UN nx w/Asian items, good but muffled audio (Hanlon NJ 11/1)
- 13790 AUSTRALIA *Voice Int* Darwin in CH/EG 1432, language lesson, preaching, vg (Hanlon NJ 11/1)
- 15130 USAR *Taiwan* Int relay via Okeechobee in FR *2000, ID, NA, national and regional nx, g (McGuire MD 11/6)
- 151498v INDONESIA *V of Indonesia* Jakarta in EG 2000, nx, cmntry, local mx, poor w/QRN (Alexander PA 11/1) in FR/EG. 1928-2015, FRYLw/mix of mx, into EG 2001 w/ID, regional nx, back to mx, p (Kohlbrener PA 11/2)
- 15150nf TURKEY *V of Turkey* in EG *1330, ID, pgm preview, mostly local nx, ex-17690 (Hanlon NJ 11/1)
- 15190 PHILIPPINES *R Pilipinas* in Tagalog/EG 1912, continuous soft vcls, ID & s/off ancmts in EG 1930, p (D'Angelo 11/3)
- 15225 GERMANY *Stimme de Evangeliums* via DTK relay Wehrtachtel in GM *1100, fanfare at s/on, ID, choral mx, relig tlks and mx, ancmts, fanfare at 1130s/off, fair but slowly fading under QRN (Barbour NH 11/8)

- 15265 **NEW ZEALAND RNZI** in EG 1935-2015+, nx, local mx, ID's, instrum'l, weak but in the clear (Alexander PA 11/1)
- 15275 **GERMANY Deut Welle Wertachtel** carrying R. Multikulti prgming in Romany 1127, DW IS, ID for R Multikulti and DW at 1130, nx in Romany, tlks w/interludes of mx, QTH info, website, s/off at 1200, bcst Suns only (Berg MA)
- 15345 **ARGENTINA RAE/R Nacional** in SP 2327-2344, ID's as both "RAE" and "Radio Nacional", long tlks w/ occasional interludes of mx, contact info, pips at 2330, f-g (Montgomery PA 10/19, Barbour NH 10/30)
- 15410 **RWANDA Deut Welle relay Kigali** in EG 2105, ID, African nx, ment fires in California, g (McGuire MD 10/27)
- 15650 **GERMANY Pan American Broadcasting** relay via Juelich in EG 1455-1532, bcst Suns only, various brokered relig pgms including Waymarks and World Bible Mission for 15 min segments, p-f (D'Angelo PA 10/19)
- 17680 **CHILE Voz Cristiana** Santiago in SP 2333-0045+, ID's, pop mx and long relig tlks, many station promos, jingles, vg (Montgomery PA 10/19, Alexander PA 11/2)
- 17800 **NIGERIA Vof Nigeria** korodu in EG 2220, cultural pgm, feature on home ownership (Brouillette IL 10/25)
- 17815 **MADAGASCAR R Nederlands** relay in DT 1307, nx, sports rpt, beamed to SE Asia, g (Hanlon NJ 11/1)
- 178349v **EL SALVADOR R Imperial** in SP 1750-2330, heavy duty preaching, ballads, ID's, campo mx, mixing with R Canada Japan relay from 2200-2330 (Alexander PA 10/22, Berg MA 10/23, D'Angelo PA 10/24, Paskiewicz WI 11/15)
- 17855nf **AUSTRIA RAI Moosbrunn** in EG 1310, "Insight Central Europe", rpt on abortion rights in Poland (Hanlon NJ 11/1)
- 21610 **SPAIN REENoblejasin** SP 1405, new Sun pgm for SP soldiers in Iraq, nx, messages, interviews and tlks with a few pop vocals, comedy skit before big audience, ID 1440, pips 1500, fair sig w/fades (Berg MA 11/16)
- 21745 **CZECH REPUBLIC R Prague** in EG 1407, xmsn to N Amer, rpt on female referee in top men's soccer league in Czech Republic, exc reception (Hanlon NJ 11/1)
- 21760 **SOUTH AFRICA Channel Africa** in EG 1430, excellent reception for higher fqy, nx items at t/in (Montgomery 10/11)

Clandestine, Tentative, Presumed, or Unknown

- 59648 **UNIDENTIFIED** in SP 2026-2100*, YL w/relig sounding tlks, mx, instrum'l piano, pips (3+1) and sign off at 2100, fair (Barbour NH 10/2) ED: Possibly R Huanuni, Bolivia which has 2100 s/off. Station is non-govt & financed by mining union
- 6005 **GERMANY Deutschland Radio** Berlin(p) in GM 0520, OM t/king just audible under BBC (Radcliff IN 10/10)
- 6045 **CHINA Nei Menggu Hohhot**(p) in CH/EG 2226, EG to CH translation in nx, ancmts, p (Paskiewicz WI 11/15)
- 6140 **URUGUAY R Monte Carlo** Montevideo(p) in SP 2335, soft vcls, tlks, partial ID "radio monte...", weak (Radcliff IN 11/6)
- 6150 **CYPRUS R Bayrak**(p) in AR? 0252, OM reciting Koran under co-chan Dr. Scott, f (Field FCDX-PA 11/5) ED: Could be VOIRI Iran which is also on this channel from 0230-0330.
- 6150 **IRAN VOIRI Zahedan**(p) in Farsi(p) 0306-0330*, Koran recitations, s/off ancmts (D'Angelo PA 11/10)
- 6150 **TAIWAN? CBSTaipei**(p) in CH? * 2230, PWBR showsthisoneas * 2230, adstring?, ID?, tlks, g (Berg MA 11/8)
- 6480 **PERU R Altura Huarmaca**(p) in SP 0345, Andean mx, marimbas (Radcliff IN 11/2) ED: xmts w/only 1 kw.
- 69581 **PERU Voz del Campesino** Huarmaca(p) in SP 0108, lots of great Peruvian tunes, ID?, S-7 signal (Montgomery PA 10/15)
- 7100 **ERITREA R Asmara 1**(p) in Tigrinya? 0348, mx at t/in, cmntry by OM, ment Africa, YL anncr w/fancy fanfares for tune heard next, fairly good copy at S-4 and best in LCB, some splatter from 7105 (Montgomery PA 11/5)
- 7280 **CHINA V of the Strait** Fuzhou(p) in CH dialect? 1023, OM w/tlks and mx, chine at 1029, echo effects ID?, fair signal but some splatter from Thailand on 7285 (Barbour NH 11/4)
- 7380 **CLANDESTINE V of Biafra Int** via Meyerton, South Africa in Igbo?/EG 2132-2159*, vocals followed by ID "You are listening to the Voice of Biafra International coming to you from Washington, DC on 7380 frequency equivalent to 41 meter band. There is more to come so please stay tuned for our entire hour long broadcast" (D'Angelo PA 11/15) Sats only
- 7385 **TIBET Xizang PBS** Lhasa(p) in Tibetan(p) 2220-2300, CH mx selections, tlks, drums, ID? 2230, chants/shouts?, poor (Barbour NH 11/3, D'Angelo PA 11/4)
- 7560 **RUSSIA TDP Radio** relay via Armavir in EG 1956-2032, CIS tones at t/in, drums at 2000, OM w/distorted voice, continuous techno/dance mx until t/out, f (Barbour NH 11/8) ED: Transmit on Sats only
- 9665 **SINGAPORE R Singapore Int'l**(p) in EG 1108, pop vocals in EG including "King of Pain" (Kohl-brenner FCDX-PA 11/3)

Contributors' Page

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DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA	NRD-545 AOR AR-7030 100' LW
Scott BARBOUR, Intervale, NH	ATS 818, RS antenna system
John BEATTIE, Ventura, CA	Drake R8B, Eavesdropper dipole, MFJ1026
Jerry BERG, Lexington, MA	R8A 165' LW
Paul BROUILLETTE, Geneva, IL	Drake R8, ICF2010, 60' long wire
Rich D'ANGELO, Wyomissing, PA	Drake R8B, Lowe HF-150, DX Sloper
Marlin FIELD, Hillsdale, MI	NRD535D, Eavesdropper ant
Kris FIELD, Horsham, PA	Drake R8, long wire
Joe HANLON, Vincentown/Mays Landing, NJ	SW8, ICF-SW7600G, EWF and ANL P1 ant.
Fred KOHLBRENNER, Philadelphia, PA	Drake R8, NRD-525, Datong FL3
Jerry LINEBACK, Scranton, KS	Icom 746 beverage antennas
William McGUIRE, Cheverly, MD	DX-380
Bob MONTGOMERY, Levittown, PA	NRD535D, R390A, RX320, HF150, SE3, T2FD
Sheryl PASZKIEWICZ, Manitowoc, WI	R8, ICF2010, NRD525, 60' Eavesdropper
Al QUAGLIERI, Albany, NY	R8A, 120' Zepp
Benjamin RADCLIFF, Notre Dame, IN	R75, 150' long wire
Chris WALTER, Pembroke, VA	ATS818, 7 mtr reel up wire

The sun has been causing a few problems this past month. In hopes this might calm down a bit in the coming weeks as we reach the winter equinox.

Hope you all had a great Thanksgiving. Happy Holidays and a super New Year to you all. Geez, another year gone. Where does the time go?

73

Bob Montgomery



FOR SALE: Klingenfuss 2002 SW Frequency Guide, \$22.00. WRTH 1997, \$9.00; 2000, \$14.00; 2001, \$15.00. Perry Ferrell's Guides: RTTY Frequencies, 2nd Edition, \$5.00; Confidential Frequency Lists, 6th Edition, \$8.00; 7th Edition, \$10.00. All items include shipping (overseas shipping extra). Cashiers check or money order only, please. Al Drehman, 389 Laurel Heights Lane, Tryon, NC 28782-6643. E-mail aldreh@alltel.net. Phone 828/894-3398. No collect calls, please.

English Schedules

Mark J. Fine • 11252 Cardinal Drive • Remington, VA 22734-2032 • mark.fine@fineware-swl.com
<http://www.fineware-swl.com>

Prepared 21 November 2003.

0000-0015		V. of Cambodia	11940.4as						
0000-0015		Radio Japan	6145.0na	13650.0as	17810.0as				
0000-0030		Radio Australia	9660.0pa	12080.0va	13630.0pa	15240.0pa	17775.0va	17795.0va	
			21725.0as						
0000-0030		Radio Cairo	11725.0na						
0000-0030		Radio Thailand	9680.0af						
0000-0030		BBC World Service	3915.0as	5970.0as	5975.0ca	6010.0dr	6195.0as	9410.0as	
			9740.0as	9825.0sa	11945.0as	11955.0as	12095.0sa	15280.0as	
			15310.0as	15360.0as	17615.0as	17790.0as			
0000-0030		VOA	7215.0as	9890.0as	11760.0as	15185.0as	15290.0as	17740.0as	
			17820.0as						
0000-0100	tw hfa	VOA	5995.0am	6130.0am	7405.0am	9455.0am	9775.0am	11695.0am	
			13790.0am						
0000-0045		All India Radio, Delhi	9705.0as	9950.0as	11620.0as	11645.0as	13605.0as		
0000-0055		Radio Netherlands	9845.0na						
0000-1000		Caribbean Beacon	6090.0am						
0000-0830		ABC Alice Springs	4835.0do						
0000-0830		ABC Katherine	5025.0do						
0000-0830		ABC Tennant Creek	4910.0do						
0000-0100		Radio Bulgaria	7400.0na	9400.0na					
0000-0600		CBC Northern Service	9625.0do						
0000-0100		Radio Canada Int'l	5960.0na	9590.0na	9755.0as	11895.0as			
0000-0500	a	Scandinavian Weekend R.	5980.0va	11720.0va					
0000-0100		Deutsche Welle	7290.0as	9880.0as					
0000-1000		Voice of Guyana	3291.3do	5949.4do					
0000-0500		NBC Windhoek, Namibia	3270.1in	3290.1af	6060.0af				
0000-0400		Radio New Zealand Int'l	17675.0pa						
0000-0700		Nat'l BC, Papua NG	9675.0do	11880.0lr					
0000-1100		SBC Radio 1, Singapore	6150.0do						
0000-1400		SIBC Solomon Islands	5019.9do	9545.0do					
0000-0100		Radio Exterior de Espana	6055.0na						
0000-0700		KALJ Dallas TX	5755.0va						
0000-1600		KTBN Salt Lake City UT	7505.0na						
0000-0400		KWHR Naalehu HI	17510.0as						
0000-0400		University Network	9890.0as						
0000-0100		WBCQ Monticello ME	7415.0na	9329.7na					
0000-0100	mtwhfa	WBCQ Monticello ME	5105.2na						
0000-0500		WEWN Birmingham AL	5825.0va						
0000-0500		WHRA Greenbush ME	7580.0eu						
0000-1000		WHRI Noblesville IN	5745.0va	7315.0am					
0000-0600		WINB Red Lion PA	9320.0am						
0000-0300	sm	WRMI Miami FL	9955.0am						
0000-0300	tw hfa	WRMI Miami FL	7385.0na						
0000-0300		WRNO New Orleans LA	7355.0va						
0000-0100	sm w fa	WSHB Cypress Creek SC	7535.0am						
0000-0100	m w	WSHB Cypress Creek SC	9430.0sa						
0000-0200	sm	WWBS Macon GA	11900.0uf						
0000-0500		WWCR Nashville TN	3210.0na	5070.0na	5935.0na	7465.0na			
0000-0700		WWRB Manchester TN	5050.0na	5085.0na	6890.0na				
0000-0100		WYFR Okeechobee FL	6085.0na	9505.0na	11720.0sa				
0000-0600		Radio Vanuatu	3945.0al	7260.0do					
0000-0300		Christian Voice, Zambia	4965.0do						
0015-0030	tw hfa	ORF Vienna	13730.0sa						
0015-0100		Radio Japan	6145.0na						
0030-0130		Radio Australia	9660.0pa	12080.0va	13630.0pa	15240.0pa	15415.0as	17750.0as	
			17775.0va	17795.0va	21725.0as				
0030-0100		Radio Vilnius, Lithuania	6120.0al	7325.0na					
0030-0430		Sri Lanka B'casting Corp.	6005.0as	9770.0as	15745.0as				
0030-0100		Radio Thailand	13695.0na						
0030-0100		BBC English Teaching	9580.0as	17615.0as					
0030-0100		BBC World Service	5970.0as	5975.0ca	6010.0dr	6195.0as	9410.0as	9740.0as	
			9825.0sa	11955.0as	12095.0sa	15280.0as	15310.0as	15360.0as	
			17790.0as						
0030-0100	mtwhf	Bible Voice Broadcasting	7210.0as						
0030-0100		VOA Special English	7215.0as	9890.0as	11760.0as	15185.0as	15290.0as	17740.0as	
			17820.0as						
0045-0100	tw hfa	ORF Vienna	13730.0sa						
0055-0115		RAI, Rome	9675.0na	11800.0na					
0100-0120		Kyrgyz Radio, Bishkek	4010.0as	4795.0as					
0100-0127		Radio Prague Int'l	6200.0na	7345.0na					
0100-0127		Voice of Vietnam	6175.0na						
0100-0130	s	Universal Life, Germany	9435.0as						
0100-0130	mtwhfa	Radio Serbia & Montenegro	7115.0na						

0100-0130		Radio Slovakia Int'l	5930.0na	7230.0ca	9440.0sa				
0100-0300		VOA	7200.0as	7255.0as	9850.0as	11705.0as	11820.0as	15250.0as	
			15290.0as	17740.0as	17820.0as				
0100-0130	twhfa	VOA	5995.0am	6130.0am	7405.0am	9455.0am	9775.0am	13790.0am	
0100-0130		Radio Tashkent	5975.0as	6165.0as	7160.0as				
0100-0155		Radio Netherlands	6165.0na						
0100-0156		China Radio Int'l	6140.0dr	9580.0na	9790.0na				
0100-0156		Voice of Korea	3560.0as	6195.0as	6520.0am	7140.0as	9345.0as	11735.1am	
0100-0156		Radio Romania Int'l	6040.0na	9510.0na	9530.0na	11740.0na			
0100-0330		HCJB Australia	15555.0as						
0100-0500		Radio Havana Cuba	6000.0na	9820.0na					
0100-0200		Radio Japan	11860.0as	11880.0me	15325.0as	17560.0me	17685.0pa	17810.0as	
			17825.0am	17835.0sa	17845.0as				
0100-0200		Radio Ukraine Int'l	5905.0na						
0100-0200		BBC World Service	5975.0ca	6195.0as	9410.0as	9525.0ca	9825.0sa	11955.0as	
			12095.0sa	15280.0as	15310.0as	15360.0as	17790.0as		
0100-0200		WBCQ Monticello ME	5105.2na	7415.0na	9329.7na				
0100-0200		WSHB Cypress Creek SC	7535.0na						
0100-0200	m	WSHB Cypress Creek SC	9430.0sa						
0100-0200		WYFR Okeechobee FL	6065.0na	9505.0na	15060.0as				
0105-0115	sm	ORF Vienna	7325.0am	9870.0am					
0115-0130		ORF Vienna	7325.0am	9870.0am					
0130-0200		Radio Australia	9660.0pa	12080.0va	13630.0pa	15240.0pa	15415.0as	17750.0as	
			17795.0va	21725.0as					
0130-0230		VOIRI Teheran	6010.0na	6120.0na					
0130-0200		Radio Telefis Eireann	6155.0ca						
0130-0200		Radio Sweden	9435.0as						
0130-0200	twhfa	VOA	5995.0am	6130.0am	9455.0am				
0130-0200	twhfa	VOA Special English	7405.0am	9775.0as	13740.0am				
0135-0145	sm	ORF Vienna	7325.0am	9870.0am					
0140-0200		Vatican Radio	7335.0as	9865.0as					
0145-0200		ORF Vienna	7325.0am	9870.0am					
0200-0227		Radio Prague Int'l	6200.0na	7345.0na					
0200-0228		Radio Budapest	9835.0na						
0200-0230		AWR Europe, Austria	7230.0as						
0200-0230		Radio Serbia & Montenegro	7130.0na						
0200-0300		BBC World Service	5975.0ca	6195.0eu	9410.0me	9525.0ca	9750.0af	9825.0sa	
			11955.0as	12095.0sa	15280.0as	15310.0as	15360.0as	17790.0as	
0200-0230	a	Bible Voice Broadcasting	17540.0as						
0200-0256		Voice of Korea	4405.0as	9325.0as	11335.0as				
0200-0300	twhfa	RAE Buenos Aires	11710.0am						
0200-0400		Radio Australia	9660.0pa	12080.0va	13630.0pa	15240.0pa	15415.0as	15515.0va	
			17750.0as	21725.0as					
0200-0300		Radio Canada Int'l	6040.0am	9755.0am	11725.0am	15150.0as	17860.0as		
0200-0330		Radio Cairo	11780.0na						
0200-0300		Voice of Indonesia	9525.0as	15150.0as					
0200-0300		Radio Myanmar	7185.0do						
0200-0330	s	a Radio Pilipinas, Manila	12015.0me	15120.0me	15270.0me				
0200-0300		Voice of Russia	5995.0me	6155.0na	7180.0na	9765.0na	15445.0na	15595.0na	
0200-0300		Radio Korea	9560.0na	11810.0sa	15575.0na				
0200-0300		Radio Taiwan Int'l	5950.0na	9680.0na	11875.0as	15320.0as			
0200-0330		KJES Vado NM	7555.0na						
0200-0400		WBCQ Monticello ME	7415.0na	9329.7na					
0200-0500	mtwhfa	WBCQ Monticello ME	5105.2na						
0200-0300	sm	WSHB Cypress Creek SC	7535.0na						
0200-0300	m h	WSHB Cypress Creek SC	9430.0na						
0200-0300		WYFR Okeechobee FL	5985.0sa	6065.0na	9505.0na	9985.0sa	11855.0sa		
0215-0220		Radio Nepal, Katmandu	3230.0as	5005.3as	6100.0as	7164.4as			
0230-0257		Voice of Vietnam	6175.0na						
0230-0300		Radio Sweden	9495.0na						
0230-0300	s	a Bible Voice Broadcasting	17540.0as						
0245-0300		Radio Tirana, Albania	6115.0na	7160.0na					
0245-0300		BBC English Teaching	9610.0af						
0250-0300		Vatican Radio	7305.0am	9605.0am					
0300-0310		Vatican Radio	7305.0am	9605.0am	9660.0af	17665.0as			
0300-0315		Croatian Radio, Zagreb	7285.0na						
0300-0300	sm w fa	Radio Minsk, Belarus	5970.0eu	7210.0eu					
0300-0330		Radio Thailand	15460.0na						
0300-0330		BBC World Service	3255.0af	5975.0ca	6005.0af	6190.0af	6195.0eu	7160.0af	
			9410.0eu	9525.0ca	9750.0af	11760.0me	11765.0af	12035.0af	
			15280.0as	15310.0as	15360.0as	15575.0me	17760.0as	17790.0as	
			21660.0as						
0300-0330	a	Wales Radio Int'l	9735.0na						
0300-0330		VOA	4960.0af	6035.0af	6080.0af	7265.0af	7290.0af	7340.0af	
			7415.0af	9575.0af	9885.0af				
0300-0356		China Radio Int'l	9690.0na	9790.0na					
0300-0356		Voice of Korea	3560.0as	6195.0as	7140.0as	9345.0as			
0300-0356		Radio Romania Int'l	6040.0na	9515.0na					
0300-1000		Radio Botswana	3356.0ln	4820.0do	7255.0do				
0300-0400		Radio Bulgaria	7400.0na	9400.0na					
0300-0430		Radio Cultural, Guatemala	3300.0in	5955.0in					
0300-0400	sm	R. Luz y Vida, Honduras	3249.5ca						
0300-0400		Radio Japan	21610.0pa						
0300-0600		Voice of Islam, Malaysia	6175.0as	9665.0as	9750.0as	15295.0au			

0300-0400		Radio Sultanate Oman	15355.0af						
0300-0400		Voice of Russia	6155.0na	7180.0na	7350.0na	15445.0na	15595.0na		
0300-0400		Channel Africa, S. Africa	3345.0af	9770.0af					
0300-0400		Radio Taiwan Int'l	5950.0na	9680.0na	11875.0as	15125.0sa	15320.0as		
0300-0600		Radio Uganda	4976.0do	5026.0do	7196.0do				
0300-1000		WRMI Miami FL	7385.0na						
0300-1600		WRNO New Orleans LA	7395.0am						
0300-0400	m	WSHB Cypress Creek SC	5850.0eu	7535.0eu					
0300-0400		WYFR Okeechobee FL	6065.0na	9505.0na	11740.0sa				
0300-0600		Christian Voice, Zambia	6065.0do						
0310-0320		Vatican Radio	9660.0af	17665.0as					
0320-0330		Vatican Radio	9660.0af						
0330-0357		Voice of Vietnam	6175.0na						
0330-0358		Radio Budapest	9835.0na						
0330-0400		Radio Tirana, Albania	6115.0na	7160.0na					
0330-0400	m	La Voz Evangelica, Hond.	4819.2in						
0330-0400		Radio Sweden	9495.0na						
0330-0400		Radio Dubai, UAE	12005.0na	13675.0na	15400.0na	17890.0na			
0330-0400		BBC World Service	3255.0af	5975.0ca	6005.0af	6190.0af	6195.0eu	7160.0af	
			9410.0eu	9525.0ca	9750.0af	11760.0me	11765.0af	12035.0af	
			15280.0as	15310.0as	15360.0as	15420.0af	15575.0me	17760.0as	
			17790.0as	21660.0as					
0330-0430	s	BBC World Service	5875.0eu	6065.0eu	7130.0eu	7265.0eu	9670.0eu		
0330-0400		VOA	4960.0af	6035.0af	6080.0af	7265.0af	7290.0af	7415.0af	
			9575.0af	9885.0af					
0345-0400		Radio Tajikistan	7245.0						
0400-0427		Radio Prague Int'l	6200.0na	7345.0na					
0400-0430		Radio Australia	9660.0pa	12080.0va	13630.0pa	15240.0pa	15515.0va	17750.0va	
			21725.0as						
0400-0430		Radio France Int'l	9805.0af	11995.0af					
0400-0500		BBC World Service	3255.0af	5975.0am	6005.0af	6010.0dr	6135.0ca	6190.0af	
			6195.0eu	7160.0af	9410.0eu	11760.0me	11765.0af	12035.0af	
			15280.0as	15310.0as	15360.0as	15420.0af	15575.0me	17760.0as	
			17790.0as	21660.0as					
0400-0430		VOA	4960.0af	6080.0af	7170.0eu	7290.0af	7415.0af	9575.0af	
			9775.0af	9885.0af	15205.0eu				
0400-0450		Voice of Turkey	6020.0na	7240.0na					
0400-0455		Radio Netherlands	6165.0na	9590.0na					
0400-0456		China Radio Int'l	6190.0na	9755.0na					
0400-2400		Cameroon Radio TV	4850.0in						
0400-0500		Deutsche Welle	6180.0af	9545.0af	9710.0af				
0400-0800		Radio New Zealand Int'l	15340.0pa						
0400-0500		Voice of Russia	7125.0na	7180.0na	7240.0na	7350.0na	12010.0na	15445.0na	
			15595.0na						
0400-0500		Channel Africa, S. Africa	3345.0af						
0400-0500		Radio Ukraine Int'l	5905.0na						
0400-0700		KWHR Naalehu HI	17780.0as						
0400-0500		Overcomer Ministries	9770.0au						
0400-0800		WBCQ Monticello ME	7415.0na						
0400 0500	s	twhta	9329.7na						
0400-0900	mtwhf	WMLK Bethel PA	9465.0in						
0400-0500	t	WSHB Cypress Creek SC	12020.0af						
0400-0500		WYFR Okeechobee FL	6065.0na	6855.0va	7355.0va	9505.0na	9715.0na		
0427-0500	smt	a	Radio Voice of Hope	12060.0af	15320.0af				
0430-0457		Radio Prague Int'l	9865.0as	11600.0as					
0430-0500		Radio Australia	9660.0pa	12080.0va	13630.0pa	15240.0pa	15415.0as	15515.0va	
			17750.0as	21725.0as					
0430-0500	s	AWR Europe, Austria	9875.0me						
0430-2300		Radio Nigeria, Enugu	6025.0do						
0430-2300		Radio Nigeria, Ibadana	6050.0do						
0430-2300		Radio Nigeria, Kaduna	4770.0do	6090.0do					
0430-1000		Radio Nigeria, Lagos	3326.0do	4990.0do					
0430-0500		TWR Swaziland	4775.0af	6120.0af					
0430-0500	s	a	BBC World Service	5875.0eu	6065.0eu	7130.0eu	9670.0eu		
0430-0500		VOA	4960.0af	6080.0af	7170.0eu	7290.0af	7415.0af	9575.0af	
			9775.0af	15205.0eu					
0445-0500		RAI, Rome	5965.0af	6100.0af	7230.0af				
0500-0515		Kol Israel	9435.0va	11605.0va	17600.0va				
0500-0529		R. Vlaanderen Int'l	9590.0na						
0500-0530		Radio France Int'l	11850.0af	13610.0af					
0500-0530		AWR Africa, Meyerpton	5960.0af	6015.0af					
0500-0530		BBC World Service	6005.0af	6135.0ca	6190.0af	6195.0eu	7160.0af	9410.0eu	
			11760.0me	11765.0af	11940.0af	11955.0as	15280.0as	15310.0as	
			15360.0as	15420.0af	15565.0eu	15575.0me	17640.0af	17760.0as	
			17790.0as	17885.0af	21660.0as				
0500-0530	s	a	BBC World Service	7295.0eu	9670.0eu	11845.0eu			
0500-0600		VOA	6035.0af	6080.0af	6080.0af	7170.0eu	7295.0af	9700.0eu	
			11825.0eu	11835.0af	13710.0af	15205.0eu			
0500-0530		Vatican Radio	7360.0af	9660.0af	11625.0af				
0500-0556		China Radio Int'l	6190.0na	9560.0na					
0500-0600		Radio Australia	9660.0pa	12080.0va	13630.0pa	15160.0as	15240.0pa	15515.0va	
			17750.0as						
0500-0600	mtwhf	BBS, Bhutan	5030.0al	6035.0do					
0500-0700		Radio Havana Cuba	9550.0na	9820.0na	11760.0na				
0500-1000	a	Scandinavian Weekend R.	6170.0va	11690.0va					

0500-0600		Deutsche Welle	9565.0af	11805.0af	12045.0af	15410.0af			
0500-0600		Radio Japan	5975.0eu	6110.0na	7230.0eu	11715.0as	11760.0as	15195.0as	
			17810.0as	21755.0pa					
0500-0800		Radio Kuwait	15110.0as						
0500-1600		NBC Windhoek, Namibia	6060.0af	6175.0af					
0500-0600	s	a	Radio Netherlands	15255.0dr					
0500-1100		Voice of Nigeria	17800.0af						
0500-0600		Voice of Russia	7125.0na	7180.0na	7240.0na	12010.0na	15445.0na	15595.0na	
0500-0600		Channel Africa, S. Africa	9525.0af	11710.0af					
0500-0630		TWR Swaziland	6120.0af	7205.0af	9500.0af				
0500-0700	twfha	WBCQ Monticello ME	9329.7na						
0500-0800		WEWN Birmingham AL	5825.0na	7570.0eu					
0500-1000		WHRA Greenbush ME	7580.0af						
0500-0600		WSHB Cypress Creek SC	12020.0af						
0500-0600	m	WSHB Cypress Creek SC	7535.0eu						
0500-1000		WWCR Nashville TN	3210.0na	5070.0na	5935.0na	7560.0na			
0500-0600		WYFR Okeechobee FL	6855.0na	7520.0eu					
0515-0525		Radio Rwanda	6055.0do						
0525-0915		Ghana Broadcasting Corp.	3366.0do	4915.0do					
0530-0545		BBC English Teaching	6010.0eu	9865.0eu					
0530-0550		Radio Dubai, UAE	13675.0au	15435.0au	17830.0au	21700.0au			
0530-0630		AWR Africa, Meyerton	15345.0af						
0530-0600	s	AWR Europe, Austria	11905.0me						
0530-0600		Radio Thailand	13780.0eu						
0530-0600		BBC World Service	6005.0af	6135.0ca	6190.0af	6195.0eu	7160.0af	9410.0eu	
			11760.0me	11765.0af	11940.0af	11955.0as	15310.0as	15360.0as	
			15420.0af	15565.0eu	15575.0me	17640.0af	17760.0as	17790.0as	
			21660.0as						
0530-0600	mtwhf	BBC World Service	17885.0af						
0600-0615		TWR Meyerton	11640.0af						
0600-0620		Vatican Radio	4005.0eu	5890.0eu	7250.0eu				
0600-0630		Radio France Int'l	11725.0af	15155.0af	17800.0af				
0600-0630		BBC World Service	6005.0af	6190.0af	6195.0eu	7160.0af	9410.0eu	11765.0af	
			11940.0af	11955.0as	12095.0eu	15310.0as	15360.0as	15565.0eu	
			15575.0me	17640.0af	17760.0as	17790.0as	21660.0as		
0600-0730	s	a	BBC World Service	17885.0af					
0600-0630		VOA	5995.0eu	6035.0af	6080.0af	6105.0af	7170.0eu	7295.0af	
			11825.0eu	11835.0af	11930.0eu	11995.0af	13710.0af	15205.0eu	
0600-0700		Radio Australia	9660.0pa	11880.0pa	12080.0va	15160.0as	15240.0pa	15515.0va	
			17750.0as						
0600-0700		Georgian Radio, Tbilisi	11805.0eu						
0600-0700		Deutsche Welle	6140.0eu	7225.0af	11785.0af	15410.0af	21675.0dr		
0600-0700		Radio Japan	7230.0eu	11690.0am	11740.0as	15195.0as	17870.0pa	21755.0pa	
0600-1300		ELWA Monrovia, Liberia	4760.0do						
0600-1800		Radio Liberia Int'l	6100.0do						
0600-1000		R. Veritas, Liberia	5470.0af						
0600-0825		Voice of Malaysia	6175.0as	9665.0as	9750.0as	15295.0au			
0600-0800		Voice of Russia	21790.0au						
0600-2400		SLBS, Sierra Leone	3316.0do						
0600-0700		Channel Africa, S. Africa	9525.0af	15215.0af					
0600-1300		Radio Uganda	5026.0do	7110.0do	7196.0do				
0600-0700	m w fa	WSHB Cypress Creek SC	7535.0af						
0600-0700		WYFR Okeechobee FL	7355.0eu	11530.0eu	11580.0af				
0600-1000		Radio Vanuatu	3945.0al	4960.0do	7260.0lr				
0600-0700		Republic of Yemen Radio	9780.4me						
0600-1500		Christian Voice, Zambia	9865.0do						
0605-0630	s	ORF Vienna	17870.0me						
0630-0645	s	a	BBC English Teaching	9875.0eu					
0630-0700	mtwh	a	AWR Europe, Germany	9840.0af					
0630-0900		TWR Swaziland	7205.0af	9500.0af					
0630-0700		BBC World Service	6005.0af	6190.0af	6195.0eu	7160.0af	9410.0eu	11765.0af	
			11940.0af	11955.0as	12095.0eu	15310.0as	15360.0as	15400.0af	
			15565.0eu	15575.0me	17640.0af	17760.0as	17790.0as	21660.0as	
0630-0700		VOA	5995.0eu	7170.0eu	11825.0eu	11930.0eu	15205.0eu		
0630-0700	s	a	VOA	6035.0af	6080.0af	6105.0af	7295.0af	11835.0af	11995.0af
			13710.0af						
0630-0700		Vatican Radio	9660.0af	11625.0af	13765.0af				
0635-0700	s	ORF Vienna	17870.0me						
0700-0715		Croatian Radio, Zagreb	9470.0pa						
0700-0730		BBC World Service	6190.0af	6195.0eu	9410.0eu	11760.0me	11765.0af	11940.0af	
			11955.0as	12095.0eu	15310.0as	15360.0as	15400.0af	15485.0eu	
			15565.0eu	15575.0me	17640.0eu	17760.0as	17790.0as	21660.0as	
0700-0726		Radio Romania Int'l	11775.0eu	15105.0eu					
0700-0730		Radio Slovakia Int'l	13715.0au	15460.0au	17550.0au				
0700-0800		Radio Australia	9660.0pa	11880.0pa	12080.0va	13630.0pa	15160.0as	15240.0va	
			17750.0as						
0700-1100		Radio Africa, Eq. Guinea	15184.6ln						
0700-0800		Radio France Int'l	15605.0af						
0700-0800		Deutsche Welle	6140.0eu	21675.0dr					
0700-0830		Radio Myanmar	9730.8do						
0700-1400		Nat'l BC, Papua NG	4890.0do	9675.0lr					
0700-0800		Channel Africa, S. Africa	9525.0af						
0700-0800		Radio Taiwan Int'l	5950.0na						
0700-0800		KWHR Naalehu HI	11565.0pa	17780.0as					
0700-0800		WSHB Cypress Creek SC	7535.0af						

0700-0800	smtwh	a	WSHB Cypress Creek SC	9845.0as						
0700-0800			WYFR Okeechobee FL	7355.0eu	9985.0af					
0705-0720			BBC English Teaching	6005.0af						
0730-0745	s	a	KTWR Guam	15205.0as						
0730-0745	mtwhf		Vatican Radio	4005.0eu	5890.0eu	6185.0eu	7250.0eu	9645.0va	11740.0eu	
				15595.0va						
0730-0800			Radio Bulgaria	11600.0eu	13600.0eu					
0730-1400			R. E. Highlands, Papua NG	3395.0do						
0730-1400			R. Milne Bay, Papua NG	3365.0do						
0730-1400			R. S. Highlands, Papua NG	3275.0do						
0730-0800			Swiss Radio Int'l	9885.0af	13790.0af	17665.0af				
0730-0800			BBC World Service	6190.0af	6195.0eu	9410.0eu	11760.0me	11765.0af	11940.0af	
				11955.0as	12095.0eu	15310.0as	15360.0as	15400.0af	15485.0eu	
				15565.0eu	17640.0eu	17760.0as	17790.0as	21660.0as		
				15575.0me	17885.0af					
0730-0800	s	a	BBC World Service	12070.0eu						
0745-0755	s	a	TWR Tirana	9870.0eu						
0745-0755	s	a	TWR Monte Carlo	15205.0as						
0745-0815			KTWR Guam	15330.0as						
0745-0815	mtwhf		KTWR Guam	12070.0eu						
0755-0850			TWR Tirana	9870.0eu						
0755-0850			TWR Monte Carlo	17835.0eu	21465.0eu					
0800-0804			Radio Pakistan	7345.0eu	9880.0eu					
0800-0827			Radio Prague Int'l	5965.0eu						
0800-0829			R. Vlaanderen Int'l	5995.0pa	9580.0va	9590.0as	9710.0pa	12080.0va	13630.0as	
0800-0830			Radio Australia	15240.0va	17750.0as					
				5975.0eu						
0800-0845			Bible Voice Broadcasting	11750.0pa						
0800-1100			HCJB Australia	5030.0al	6035.0do					
0800-0900	mtwhf		BBS, Bhutan	6140.0eu	15440.0dr	21675.0dr				
0800-1000			Deutsche Welle	9525.0pa						
0800-0900			Voice of Indonesia	11675.0pa						
0800-1100			Radio New Zealand Int'l	17495.0au	17525.0au	17665.0au	21790.0au			
0800-0900			Voice of Russia	9750.0af	17780.0af					
0800-0900	s	a	Amateur Radio League, SA	9570.0as	13670.0eu					
0800-0900			Radio Korea	9610.0au						
0800-0900			Radio Taiwan Int'l	6190.0af	9410.0eu	11760.0me	11940.0af	11955.0as	12095.0eu	
0800-0900			BBC World Service	15310.0as	15360.0as	15400.0af	15485.0eu	15565.0eu	17640.0eu	
				17760.0as	17790.0as	17830.0af	17885.0af	21470.0af	21660.0as	
0800-0900	s	a	BBC World Service	9795.0as						
0800-0900			KNLS Anchor Point AK	9930.0as	11565.0pa					
0800-1045			KWHR Naalehu HI	5825.0na						
0800-1300			WEWN Birmingham AL	7535.0eu	9845.0au					
0800-0900	s	a	WSHB Cypress Creek SC	9985.0af						
0800-0900			WYFR Okeechobee FL	15205.0as	15330.0as					
0815-0900			KTWR Guam	9660.0eu	17670.0af					
0830-0900			AWR Europe, Austria	2310.0do						
0830-2130			ABC Alice Springs	2485.0do						
0830-2130			ABC Katherine	2325.0do						
0830-2130			ABC Tennant Creek	5995.0pa	9580.0va	9590.0as	9710.0pa	12080.0va	13630.0as	
0830-0900			Radio Australia	15240.0va	15415.0as	17750.0as				
				11910.0eu						
0830-0900			Georgian Radio, Tbilisi	21770.0af						
0840-0850			Swiss Radio Int'l	4930.0do						
0840-0850			Turkmen Radio, Ashgabat	5975.0eu						
0845-0915	s	a	Bible Voice Broadcasting	12070.0eu						
0850-0920	smtwhf		TWR Tirana	9870.0eu						
0850-0920	smtwhf		TWR Monte Carlo	6190.0af	6195.0as	9605.0as	9740.0as	11760.0me	11940.0af	
0900-1000	smtwhf		BBC World Service	12095.0eu	15190.0sa	15310.0as	15360.0as	15400.0af	15485.0eu	
				15565.0eu	15575.0me	17640.0eu	17760.0as	17790.0as	17830.0af	
				17885.0af	21470.0af	21660.0as				
0900-0930			Radio Australia	9580.0va	9590.0as	11880.0as	15240.0va			
0900-0930			AWR Europe, Austria	17670.0af						
0900-0930			KTWR Guam	15330.0as						
0900-0956			China Radio Int'l	15250.0pa	17690.0pa					
0900-1000			Voice Int'l, Australia	11955.0as						
0900-1100	mtwhf		Deutsche Welle	17700.0dr						
0900-1400	s	a	Italian Radio Relay Svc	13840.0va						
0900-1000	s	a	V. of the Mediterranean	9630.0eu						
0900-1100			KHBN Palau	15725.0as						
0900-1000			Voice of Russia	17495.0au	17525.0au	17665.0au				
0900-1000	s	a	R. UNMEE, UAE	21460.0af						
0910-0930	s	a	Voice of Armenia, Yerevan	4810.0eu	15270.0eu					
0915-1200			Ghana Broadcasting Corp.	6130.0do						
0915-1200	s	a	Ghana Broadcasting Corp.	4915.0do						
0930-1100			Radio Australia	9580.0va	9590.0as	11880.0as	15240.0va	15415.0as		
0930-1000			Georgian Radio, Tbilisi	11910.0me						
0930-1000			Voice of Greece	9420.0eu	12105.0eu	15630.0eu				
0930-1000			Radio Vilnius, Lithuania	9710.0eu						
1000-1027			Voice of Vietnam	9840.0au	12019.9au					
1000-1029			Radio Prague Int'l	21745.0va						
1000-1030			Deutsche Welle	6140.0dr	6205.0as	15190.0as	15440.0dr	17820.0as		
1000-1030			KSDA Guam	11705.0as	11900.0as					

1000-1030		Radio Telefis Eireann	15280.0au						
1000-1030		Voice of Mongolia	12015.0as						
1000-1030		BBC World Service	6190.0af	6195.0va	9605.0as	9740.0as	11760.0me	11940.0af	
			12095.0eu	15310.0as	15360.0as	15485.0eu	15565.0eu	15575.0me	
			17640.0eu	17760.0as	17790.0as	17885.0af	21470.0af	21660.0as	
1000-1030	s	a BBC World Service	15190.0sa	15400.0af	17830.0af				
1000-1055		Radio Netherlands	7260.0as	9785.0au	9850.0dr	12065.0as	12070.0pa	12080.0pa	
			13820.0as	15595.0pa					
1000-1056		China Radio Int'l	15250.0pa	17690.0pa					
1000-1056		Voice of Korea	3560.0as	9335.0am	9850.0as	11709.9am	11735.1as		
1000-2200		Caribbean Beacon	11775.0am						
1000-1100		Voice Int'l, Australia	11955.0as	13685.0as					
1000-1130	s	a BBS, Bhutan	5030.0af	6035.0do					
1000-1730		Radio Botswana	4820.0do	7255.0do	9595.0in				
1000-1500		a Scandinavian Weekend R.	6170.0va	11720.0va					
1000-2200		Voice of Guyana	5949.4do						
1000-1100		All India Radio, Delhi	7270.0as	13710.0as	15020.0as	15235.0as	15260.0as	17510.0au	
			17800.0as	17895.0au					
1000-1100		Radio Japan	6120.0na	9695.0as	11730.0as	17585.0eu	21755.0pa		
1000-1600		Radio Nigeria, Lagos	4990.0do	7285.0do					
1000-1400		R. Veritas, South Africa	7240.0af						
1000-1300		WHRI Noblesville IN	9495.0am	9840.0na					
1000-1300		WRMI Miami FL	9955.0am						
1000-1100	s	fa WSHB Cypress Creek SC	11780.0as						
1000-1100	s	WSHB Cypress Creek SC	9455.0sa						
1000-1100		WWCR Nashville TN	5070.0na	5935.0na	7560.0na	9475.0na			
1000-1100		WYFR Okeechobee FL	5950.0na						
1000-1115	mtwhfa	Radio Vanuatu	3945.0af	4960.0do	7260.0lr				
1030-1045	mtwhfa	Radio Ethiopia	5990.0do	7110.0do	9704.2do				
1030-1100		Deutsche Welle	6140.0dr	15440.0dr					
1030-1100		KSDA Guam	11900.0as						
1030-1130		VOIRI Teheran	15550.0as	15480.0as	21470.0as				
1030-1100		Radio Dubai, UAE	13675.0eu	15435.0eu	17865.0eu	21605.0eu			
1030-1130		R. UNMEE, UAE	21550.0af						
1030-1100		BBC English Teaching	9605.0as	11945.0as	15285.0as	21660.0as			
1030-1100		BBC World Service	6190.0af	6195.0va	9740.0as	11760.0me	11940.0af	12095.0eu	
			15310.0as	15485.0eu	15565.0eu	15575.0me	17640.0eu	17760.0as	
			17790.0as	17885.0af	21470.0af	15190.0sa			
1030-1100	s	a BBC World Service	15400.0af	17830.0af					
1030-1100	mt hfa	Vatican Radio	5890.0eu						
1045-1700		KWHR Naalehu HI	9930.0as						
1045-1300	s	a KWHR Naalehu HI	11565.0pa						
1100-1104		Radio Pakistan	17835.0eu	21465.0eu					
1100-1127		Voice of Vietnam	7285.0as						
1100-1130		Radio Australia	5995.0pa	6020.0pa	6035.0va	9475.0as	9580.0va	9590.0as	
			11880.0as	15240.0va					
1100-1130	mtwhf	BBC Caribbean Report	6195.0ca	15190.0ca					
1100-1130		BBC World Service	6190.0af	6195.0va	9740.0as	11760.0me	11940.0af	12095.0eu	
			15310.0as	15400.0af	15485.0eu	15565.0eu	15575.0me	17640.0eu	
			17760.0as	17790.0va	17830.0af	17885.0af	21470.0af		
1100-1130	s	a BBC World Service	6195.0ca	15190.0am					
1100-1155		Radio Netherlands	9850.0dr	21780.0dr					
1100-1400		Voice Int'l, Australia	13685.0as						
1100-1300		HCJB Quito Ecuador	15115.0am	21454.9uf					
1100-1200		Deutsche Welle	6140.0dr	15440.0dr	17670.0as	21650.0as			
1100-1200	mtwhf	Deutsche Welle	17710.0dr						
1100-1200		Radio Japan	6120.0na	9695.0as	11730.0as				
1100-1300		Radio New Zealand Int'l	15530.0pa						
1100-2000		Voice of Nigeria	15120.0af						
1100-1400		Radio Singapore Int'l	6150.0as	9600.0as					
1100-1300		Channel Africa, S. Africa	9525.0af						
1100-1200		Radio Taiwan Int'l	7445.0as						
1100-1200	s	Overcomer Ministries	6110.0eu						
1100-1300		WINB Red Lion PA	9320.0am						
1100-1200	s	fa WSHB Cypress Creek SC	6095.0am						
1100-1300		WWCR Nashville TN	5070.0na	5935.0na	7560.0na	15825.0na			
1100-1200		WYFR Okeechobee FL	5950.0na	7355.0na	9555.0sa	11725.0sa	11830.0na		
1110-1120		Kol Israel	15640.0va	17545.0va					
1115-1145		Radio Nepal, Katmandu	3230.0as	5005.3as	6100.0as	7164.4as			
1130-1145		BBC English Teaching	7135.0as	11920.0as					
1130-1145	s	hfa Bible Voice Broadcasting	13590.0as						
1130-1157		Radio Prague Int'l	11640.0eu	21745.0af					
1130-1159		R. Vlaanderen Int'l	9945.0as						
1130-1300		Radio Australia	5995.0pa	6020.0pa	6035.0va	9475.0as	9580.0va	9590.0as	
			11880.0as						
1130-1230		VOIRI Teheran	6035.0na	9835.0na					
1130-1230		Radio Korea	9650.0na						
1130-1200		BBC World Service	6190.0af	6195.0va	9740.0as	11760.0me	11940.0af	12095.0eu	
			15190.0am	15310.0as	15485.0eu	15565.0eu	15575.0me	17640.0eu	
			17760.0as	17790.0as	17830.0af	17885.0af	21470.0af		
1130-1200		a Wales Radio Int'l	17625.0pa						
1130-1200	f	Vatican Radio	15595.0va	17515.0va					
1145-1155		Radio Rwanda	6055.0do						
1145-1200		Bible Voice Broadcasting	13590.0as						

1200-1215		V. of Cambodia	11940.4as										
1200-1230		Radio France Int'l	17815.0af	25820.0af									
1200-1230		AWR Africa, UAE	15135.0as										
1200-1230	mtwhf	BBC Caribbean Report	6195.0ca	15190.0ca									
1200-1230		BBC World Service	6190.0af	6195.0as	9740.0as	11760.0me	11940.0af	12095.0eu					
			15310.0as	15485.0eu	15565.0eu	15575.0me	17640.0eu	17760.0as					
			17790.0as	17830.0af	17885.0af	21470.0af							
1200-1230	s	a	BBC World Service	6195.0ca	15190.0am								
1200-1300			VOA	6110.0as	9645.0as	9760.0as	11705.0as	11715.0as	15250.0as				
				15425.0as									
1200-1230		Radio Tashkent	5060.0as	5975.0as	6025.0as	9715.0as							
1200-1255		Radio Netherlands	5965.0na	21780.0dr									
1200-1256		China Radio Int'l	9730.0as	9760.0pa	11760.0pa	11980.0as	15415.0pa						
1200-2400		CBC Northern Service	9625.0do										
1200-1300		Radio Canada Int'l	9795.0as	11730.0as									
1200-1300		Deutsche Welle	9655.0dr	15440.0dr									
1200-1700		Ghana Broadcasting Corp.	4915.0do	6130.0do									
1200-1300		Radio Taiwan Int'l	7129.9as										
1200-1300		Radio Ukraine Int'l	15520.0eu										
1200-1300		Overcomer Ministries	6110.0eu										
1200-1300		WSHB Cypress Creek SC	9585.0as										
1200-1300		a	WSHB Cypress Creek SC	9455.0am									
1200-1300		WYFR Okeechobee FL	5950.0na	7355.0na	11830.0na	11970.0na	13695.0na						
1215-1245	m	Bible Voice Broadcasting	13590.0as										
1215-1330		Radio Cairo	15445.0al	17670.0as									
1230-1245		BBC English Teaching	15425.0af	17780.0af	21640.0af								
1230-1257		Voice of Vietnam	9840.0as	12019.9as									
1230-1700		HCJB Australia	15390.0as										
1230-1300		Radio Bangladesh	7185.0as	9550.0as									
1230-1300		Radio Bulgaria	11700.0eu	15700.0eu									
1230-1630		Sri Lanka B'casting Corp.	6005.0as	9770.0as	15745.0as								
1230-1300		Radio Thailand	9810.0as										
1230-1300		BBC World Service	6190.0af	6195.0va	9740.0as	11760.0me	11940.0af	12095.0eu					
			15190.0am	15310.0as	15485.0eu	15565.0eu	15575.0me	17640.0eu					
			17760.0as	17790.0as	17830.0af	17885.0af	21470.0af						
1300-1310	mtwhfa	Turkmen Radio, Ashgabat	5015.0do										
1300-1400		BBC World Service	6190.0af	6195.0va	9740.0as	11760.0me	11940.0af	12095.0eu					
			15190.0am	15310.0as	15420.0af	15485.0eu	15565.0eu	15575.0me	17640.0eu				
			17640.0eu	17760.0as	17790.0as	17830.0af	17885.0af	21470.0af					
1300-1355		Radio Polonia, Warsaw	9525.0eu	11820.0eu									
1300-1356		China Radio Int'l	9570.0na	11760.0pa	11900.0pa	11980.0as	15180.0as						
1300-1356		Voice of Korea	4405.0as	7505.0eu	9335.1na	11335.1eu	11710.0am						
1300-1356		Radio Romania Int'l	15105.0eu	17745.0eu									
1300-1400		Radio Australia	5995.0pa	6020.0pa	6035.0va	9580.0va	9590.0as						
1300-1400	mtwhf	Radio Canada Int'l	9515.0na	13655.0na	17820.0na								
1300-1400		Deutsche Welle	6140.0eu	9655.0dr	15440.0dr								
1300-1730		Radio Jordan	11690.0na										
1300-1800		Radio New Zealand Int'l	6095.0pa										
1300-1400		Radio Korea	9570.0as	13670.0as									
1300-2100		Radio Uganda	4976.0do	5026.0do	7196.0do								
1300-1400		KNLS Anchor Point AK	9780.0as										
1300-1400		Overcomer Ministries	6110.0eu	13810.0me									
1300-1400		VOA	6110.0as	9645.0as	9760.0as	11705.0as	15425.0as						
1300-1700	mtwhf	WBCQ Monticello ME	17494.8na										
1300-1600		WEWN Birmingham AL	9955.0na										
1300-1600		WHRA Greenbush ME	17560.0af										
1300-1600		WHRI Noblesville IN	9840.0na	15105.0am									
1300-2300		WINB Red Lion PA	9929.9am										
1300-2400		WRMI Miami FL	15725.0na										
1300-1400		WSHB Cypress Creek SC	7340.0as										
1300-1400	s	a	WSHB Cypress Creek SC	9430.0na									
1300-1400		f	WSHB Cypress Creek SC	9455.0na									
1300-1400		WWCR Nashville TN	5935.0na	7560.0na	12160.0na	15825.0na							
1300-1400		WYFR Okeechobee FL	7355.0na	11560.0as	11740.0na	11830.0na	11970.0na	13695.0na					
1305-1330	s	a	ORF Vienna	6155.0eu	13730.0eu								
1315-1330	mtwhf	ORF Vienna	17855.0as										
1330-1345		BBC English Teaching	15105.0af	21640.0af									
1330-1350		Radio Dubai, UAE	13630.0eu	13675.0eu	15435.0eu	17865.0eu	21605.0eu						
1330-1357		Voice of Vietnam	7280.0eu	9730.0eu									
1330-1400		KSDA Guam	11755.0as										
1330-1400	mt h a	KSDA Guam	15660.0as										
1330-1500		All India Radio, Delhi	9690.0as	11620.0as	13710.0as								
1330-1400		Lao Nat'l Radio	7145.0do										
1330-1400		Radio Serbia & Montenegro	11835.0au										
1330-1400		Radio Sweden	9430.0as	9815.0dr	17505.0as	18960.0na							
1330-1420		Voice of Turkey	15155.0as	15195.0eu									
1330-1400		AWR Africa, UAE	9860.0as	15235.0as									
1330-1400		Radio Tashkent	5060.0as	5975.0as	6025.0as	9715.0as							
1335-1345	s	a	ORF Vienna	6155.0eu	13730.0eu								
1345-1400		ORF Vienna	6155.0eu	13730.0eu									
1345-1400	mtwhf	ORF Vienna	17855.0as										
1400-1415		FEBa	9445.0as										
1400-1415	mtw	BBC English Teaching	11860.0af	15420.0af	21490.0af								
1400-1415	fa	Bible Voice Broadcasting	7485.0as										

1400-1429		Radio Prague Int'l	21745.0va						
1400-1430		Radio Australia	5995.0va	6080.0pa	7240.0va	9590.0va	11750.0as		
1400-1430		Radio Netherlands	12070.0as	12080.0as	15595.0as				
1400-1430		Radio Thailand	9560.0as						
1400-1456		China Radio Int'l	11675.0as	11765.0as	13685.0af	15125.0af	17720.0na		
1400-1800		Voice Int'l, Australia	13635.0as						
1400-1500		Radio Canada Int'l	9515.0na	9815.0dr	13655.0na	17820.0na			
1400-1500		Radio France Int'l	7175.0as	11610.0as	17515.0as	17620.0as			
1400-1600		Deutsche Welle	6140.0eu						
1400-1500		Radio Japan	7200.0as	9845.0as	11840.0pa	17755.0me			
1400-1500		Radio Sultanate Oman	15140.0eu						
1400-1600		SBC Radio 1, Singapore	6150.0do						
1400-1500		Channel Africa, S. Africa	9525.0af						
1400-1500		Radio Taiwan Int'l	15265.0as						
1400-1500		BBC World Service	6190.0af	6195.0as	7160.0as	9740.0as	11940.0af	12095.0eu	
			15190.0arm	15310.0as	15485.0eu	15565.0eu	15575.0me	17640.0eu	
			17790.0as	17830.0af	21470.0af	21660.0af			
			11715.0na						
1400-1600		KJES Vado NM	6110.0eu	13810.0eu	21590.0sa				
1400-1600		Overcomer Ministries	6110.0as	7125.0as	9645.0as	9760.0as	11705.0as	15205.0eu	
1400-1500		VOA	15425.0as						
1400-2100		WWCR Nashville TN	9475.0na	12160.0na	13845.0na	15825.0na			
1400-1700	mtwhf	WWRB Manchester TN	9320.0na	12172.0na					
1400-1500		WYFR Okeechobee FL	11560.0as	11740.0na	11830.0na	17760.0na			
1415-1420		Radio Nepal, Katmandu	3230.0as	5005.3as	6100.0as	7164.4as			
1415-1430	h a	Bible Voice Broadcasting	7485.0as						
1430-1500	a	Bible Voice Broadcasting	5945.0as						
1430-1445	s h a	Bible Voice Broadcasting	7485.0as						
1430-1500		Radio Australia	5995.0va	6080.0pa	7240.0va	9475.0as	9590.0va	11750.0as	
1430-1500	s	Pan American BC, Germany	13605.0me						
1430-1600		Radio Myanmar	5040.6do	5985.9do					
1430-1500		Radio Netherlands	9815.0dr	12070.0as	12080.0as	15595.0as			
1430-1500		Radio Sweden	17505.0as	18960.0na					
1445-1545		KTWR Guam	15330.0as						
1445-1500	mtwhfa	BBC English Teaching	6140.0as	7205.0as	15245.0as				
1445-1500	s a	Bible Voice Broadcasting	7485.0as						
1500-1530	s twhfa	Radio Rhino Int'l	17870.0af						
1500-1530		Voice of Mongolia	9720.0as						
1500-1530		BBC World Service	5975.0as	6190.0af	6195.0as	7160.0as	9410.0eu	9740.0as	
			11860.0af	11940.0af	12095.0eu	15190.0arm	15310.0as	15400.0af	
			15420.0af	15485.0eu	15565.0eu	17790.0as	17830.0af	21470.0af	
			21490.0af	21660.0af					
1500-1600		VOA Special English	6110.0as	9760.0as	9795.0as	9825.0as	15460.0as		
1500-1555		Radio Netherlands	12070.0as	12080.0as	15595.0as				
1500-1556		China Radio Int'l	7160.0as	9785.0as	11675.0as	11765.0as	13685.0af	15125.0af	
			17720.0na						
1500-1556		Voice of Korea	4405.0as	7505.0eu	9335.1am	11335.1eu	11710.1am		
1500-1600		Radio Australia	5995.0va	6080.0pa	7240.0as	9475.0as	9590.0as	11750.0as	
1500-1600		Radio Canada Int'l	9515.0na	9635.0as	11935.0as	13655.0na	17820.0na		
1500-1700	a	Scandinavian Weekend R.	5990.0va	11720.0va					
1500-1600	s	Pan American BC, Germany	12015.0me						
1500-1600		Radio Japan	7200.0as	9505.0am	9750.0as	9845.0as			
1500-1600		FEBA	7340.0as						
1500-1600		Voice of Russia	6205.0as	7260.0as	7315.0as	7350.0as	11500.0as		
1500-1600		Channel Africa, S. Africa	9525.0af	17770.0af					
1500-1700	mtwhf	Sudan Radio Service	15530.0af						
1500-1600		VOA	7125.0as	9575.0eu	9645.0as	15205.0eu	15395.0as		
1500-1600		WYFR Okeechobee FL	6280.0as	11830.0na	15520.0as	17760.0na			
1500-2400		Christian Voice, Zambia	4965.0do						
1515-1530	s a	Bible Voice Broadcasting	9860.0me						
1515-1530		Vatican Radio	9865.0as	13765.0as	15235.0as				
1530-1545		BBC English Teaching	11685.0as	15540.0as					
1530-1600	s a	Radio Rhino Int'l	17870.0af						
1530-1630		VOIRI Teheran	7190.0as	9610.0as					
1530-1600		AWR Africa, UAE	15225.0as						
1530-1600		BBC World Service	5975.0as	6190.0af	6195.0as	7160.0as	9410.0eu	9740.0as	
			11940.0af	12095.0eu	15190.0arm	15310.0as	15400.0af	15485.0eu	
			15565.0eu	17790.0as	17830.0af	21470.0af	21660.0af		
1530-1700		Bible Voice Broadcasting	9860.0me						
1530-1600	m whfa	Bible Voice Broadcasting	9705.0as						
1530-1600	a	Vatican Radio	9865.0af	13765.0af	15235.0af				
1540-1550		Turkmen Radio, Asgabat	4930.0do						
1600-1615		Radio Pakistan	9320.0me	11570.0me	11640.0af	15725.0af	17820.0af		
1600-1630		BBC World Service	3915.0as	5975.0as	6190.0af	6195.0as	7160.0as	9410.0eu	
			9510.0as	11940.0af	12095.0eu	15190.0arm	15310.0as	15400.0af	
			15485.0eu	15565.0eu	17790.0as	17830.0af	21470.0af	21660.0af	
1600-1627		Voice of Vietnam	7280.0va	9730.0va					
1600-1628	s	Radio Budapest	6025.0eu	9585.0eu					
1600-1630		KSDA Guam	15495.0as						
1600-1700		VOA	6035.0af	6110.0as	7125.0as	9575.0eu	9645.0as	9760.0as	
			13710.0af	15205.0eu	15225.0af	15240.0af	15395.0as	17715.0af	
			17895.0af						
1600-1635		Radio Dubai, UAE	13630.0eu	13675.0eu	15435.0eu	17865.0eu	21605.0eu		
1600-1656		China Radio Int'l	7190.0af	9570.0af	13685.0af	15125.0af			
1600-1656		Voice of Korea	3560.0as	9975.0af	11735.1af				

1600-1700		Radio Australia	5995.0va	6080.0pa	7240.0as	9475.0as			
1600-1700	s	a Radio Canada Int'l	9515.0na	13655.0na	17820.0na				
1600-1700		Radio Ethiopia	5990.0af	7110.0af	7165.0af	9560.2af	9704.2af	11800.0af	
1600-1700		Radio France Int'l	9730.0af	11615.0af	15160.0af	15605.0af	17605.0af	17850.0af	
1600-1700		Deutsche Welle	6140.0dr	6170.0as	7225.0as	11695.0as			
1600-2400		NBC Windhoek, Namibia	3270.1in	3290.1af	6060.0af				
1600-2300		Radio Nigeria, Lagos	3326.0do	4990.0do					
1600-1700		Voice of Russia	4940.0as	4965.0as	4975.0as	6005.0me	7260.0as	9830.0me	
1600-1700		Radio Korea	5975.0om	7255.0af	9870.0af				
1600-1800		Radio Taiwan Int'l	11550.0as						
1600-2400		KTBN Salt Lake City UT	15590.0na						
1600-1700		a Overcomer Ministries	6110.0eu						
1600-1700		VDA Special English	13600.0af	15445.0af	17640.0af				
1600-2000		WEWN Birmingham AL	13615.0na	17840.0af					
1600-2300		WHRA Greenbush ME	17650.0af						
1600-1800		WHRI Noblesville IN	13760.0va	15105.0am					
1600-2100	mtwhf	WMLK Bethel PA	9465.0eu						
1600-2300		WRNO New Orleans LA	7395.0am	15420.0af					
1600-1700		a WSHB Cypress Creek SC	17765.0af						
1600-1700		WYFR Okeechobee FL	11830.0na	11865.0na	15520.0as	17760.0na	17790.0af	18980.0eu	
			21455.0eu						
1600-1900		SWR Africa, Zimbabwe	6145.0af						
1605-1610	s	a ORF Vienna	17865.0na						
1610-1625		ORF Vienna	17865.0na						
1615-1630	s	a BBC World Service	15420.0af	21490.0af					
1625-1630	s	a ORF Vienna	17865.0na						
1630-1830		Radio Cairo	9855.0af						
1630-1700		Georgian Radio, Tbilisi	6180.0me						
1630-1700		KSDA Guam	11980.0as	15495.0as					
1630-2230	s	Reflections Europe, Ire.	3910.0eu	6295.0eu	12255.0eu				
1630-1700		BBC World Service	3915.0as	5975.0as	6190.0af	6195.0as	7160.0as	9410.0eu	
			9510.0as	11940.0af	12095.0eu	15190.0am	15310.0as	15400.0af	
			15420.0af	15485.0eu	15565.0eu	17790.0af	17830.0af	21470.0af	
			21660.0af						
1630-1700	s	a BBC World Service	11860.0af	21490.0af					
1635-1640	s	a ORF Vienna	17865.0na						
1640-1655		ORF Vienna	17865.0na						
1645-1700		Radio Tajikistan	7245.0						
1655-1700	s	a ORF Vienna	17865.0na						
1700-1715		Radio Galkayo, Somalia	6985.0va	9615.0va					
1700-1727		Radio Prague Int'l	5930.0eu	17485.0af					
1700-1730		Voice of Azerbaijan	6110.8eu	9155.0in					
1700-1730		Radio France Int'l	11615.0af	15605.0af					
1700-1730		KSDA Guam	11560.0me						
1700-1730	mtwhf	R. Pridnestrovye, Moldova	5960.0eu						
1700-1730		VDA	6040.0eu	6110.0as	7125.0as	9645.0as	9760.0eu	13710.0af	
			15205.0eu	15240.0af	15395.0as	15445.0af	17895.0af		
1700-1730	mtwhf		5990.0as	6045.0as	9525.0as	9795.0as	11955.0as	12005.0as	
			15255.0as						
1700-1745		BBC World Service	3255.0af	3915.0as	5975.0as	6005.0af	6190.0af	6195.0as	
			7160.0as	9410.0eu	9510.0as	9630.0af	12095.0eu	15310.0as	
			15400.0af	15420.0af	15565.0eu	17830.0af	21470.0af		
1700-1756		China Radio Int'l	7190.0af	9570.0af	13685.0af	15125.0af			
1700-1800		Radio Australia	5995.0va	6080.0pa	7240.0as	9475.0as	9710.0va	11880.0va	
1700-2300		Radio Africa, Eq. Guinea	7189.7in	15184.6in					
1700-1900		a Scandinavian Weekend R.	6170.0va	11720.0va					
1700-1800		Deutsche Welle	6140.0dr						
1700-1900		Radio Africa Int'l	11735.0af	13820.0af					
1700-2400		Ghana Broadcasting Corp.	3366.0do	4915.0do					
1700-1800		a Voice of Greece	9420.0eu	15630.0eu	17705.0na				
1700-1800		Radio Japan	9535.0am	11970.0eu	15355.0af				
1700-1800		Voice of Russia	5910.0as	5945.0as	9830.0af				
1700-1800	s	w fa Bible Voice Broadcasting	9860.0me						
1700-1800	s	a Bible Voice Broadcasting	11650.0me						
1700-2045	mtwhf	WBCQ Monticello ME	9329.7na						
1700-2045	mtwhfa	WBCQ Monticello ME	17494.8na						
1700-1800		a WSHB Cypress Creek SC	17505.0af						
1700-2300	smtwhf	WWRB Manchester TN	9320.0na	12172.0na					
1700-1800		WYFR Okeechobee FL	18980.0eu	21455.0eu	21680.0af				
1715-1730		TWR Swaziland	3200.0af						
1715-1730		Vatican Radio	4005.0eu	5890.0eu	7250.0eu	9645.0eu	15595.0va		
1730-1740		Voice of Africa, Libya	15220.0ir	15615.0ir	15660.0ir	17880.0ir			
1730-1745		BBC English Teaching	3390.0af	5875.0eu	7105.0eu	7230.0af	9530.0eu	9685.0af	
1730-1745	mtwhf	United Nations Radio	7170.0af	15495.0me	17810.0af				
1730-1756		Radio Romania Int'l	9570.0eu	11940.0eu					
1730-1800	s	AWR Europe, Austria	15385.0me						
1730-2200		Radio Botswana	3356.0in	4820.0do	7255.0do				
1730-1800		KSDA Guam	9385.0me						
1730-2230		ELWA Monrovia, Liberia	4760.0do						
1730-1800	mtwhfa	V. of the Mediterranean	6185.0eu						
1730-1930		Radio Pilipinas, Manila	11730.0me	11890.0me	15190.0me				
1730-1800		Radio Slovakia Int'l	5915.0eu	6055.0eu	7345.0eu				
1730-1900		TWR Swaziland	3200.0af	9500.0af					
1730-1800		Swiss Radio Int'l	9755.0af	11810.0af	15555.0af				

1730-1800		VOA	6040.0eu	6110.0as	7125.0as	9645.0as	9760.0eu	13710.0af
			15205.0eu	15240.0af	15395.0as	15445.0af		
1730-1800	mtwhf	VOA	5990.0as	6045.0as	9525.0as	9795.0as	11955.0as	12005.0as
			13600.0af	15255.0as	17895.0af			
1730-1800		Vatican Radio	13765.0af	15570.0af	17515.0af			
1745-1900		Radio Bangladesh	7185.0eu	9550.0eu	15520.0eu			
1745-1945		All India Radio, Delhi	7410.0eu	9445.0af	9950.0eu	11620.0eu	11935.0af	13605.0af
			15075.0af	15155.0af	17670.0af			
1745-1800		BBC English Teaching	5875.0eu	7105.0eu	9530.0eu			
1745-1800		BBC World Service	3255.0af	3915.0as	5975.0as	6190.0af	6195.0eu	7160.0as
			9410.0eu	9510.0as	12095.0eu	15310.0as	15400.0af	15420.0af
			15565.0eu	17830.0af	21470.0af			
1800-1815		Kol Israel	11605.0eu	17545.0va				
1800-1815	a	Bible Voice Broadcasting	13845.0me					
1800-1827		Radio Prague Int'l	5930.0eu	9415.0as				
1800-1827		Voice of Vietnam	5955.0eu	7280.0eu	9725.0eu	9730.0eu		
1800-1830	s	Universal Life, Germany	11840.0af					
1800-1830		Radio Telefís Eireann	9850.0me					
1800-1830		AWR Africa, Meyerton	5960.0af	7265.0af	11985.0af			
1800-1830		BBC World Service	3255.0af	5975.0as	6190.0af	6195.0eu	9410.0eu	9510.0as
			12095.0eu	15310.0me	15400.0af	15420.0af	17830.0af	21470.0af
1800-1855		Radio Polonia, Warsaw	5995.0eu	7150.0eu				
1800-1900	mtwhf	RAE Buenos Aires	9690.0eu	15345.0eu				
1800-1900		Radio Australia	6080.0pa	7240.0va	9475.0as	9580.0va	9710.0pa	11880.0va
1800-2100		Voice Int'l, Australia	11685.0as					
1800-2100		Radio Kuwait	11990.0va					
1800-2200		Radio Liberia Int'l	5100.0do					
1800-2200		R. Veritas, Liberia	5470.0af					
1800-1900		Radio New Zealand Int'l	11980.0pa					
1800-1900		Radio Netherlands	6020.0af	9895.0af	11655.0af			
1800-1900		Voice of Russia	5910.0as	7290.0eu	9830.0af	11510.0af		
1800-1900	s	a	Voice of Russia	5950.0eu	6175.0eu			
1800-1900		Channel Africa, S. Africa	15265.0af					
1800-1900		R. Omdurman, Sudan	7200.0do	9505.0do				
1800-1900		Radio Taiwan Int'l	3955.0eu					
1800-1900		University Network	9890.0as					
1800-2400		VOA	6035.0af	6040.0eu	9760.0eu	9885.0eu	11975.0af	13710.0af
1800-1900			15240.0af	15580.0af	17895.0af			
1800-2000		WHRI Noblesville IN	9495.0am	13760.0va				
1800-1900	s	WSHB Cypress Creek SC	15665.0eu					
1800-1900	s	W	WSHB Cypress Creek SC	17505.0af				
1800-1900		WYFR Okeechobee FL	18980.0eu					
1800-1900		Republic of Yemen Radio	9780.0me					
1820-1830		Voice of Africa, Libya	11635.0ir	11715.0ir	11860.0ir	15615.0ir		
1830-1845	m	W	IBRA Radio, Germany	9520.0af				
1830-1845		BBC English Teaching	6050.0eu	7105.0eu	9685.0eu			
1830-1859		R. Vlaanderen Int'l	5910.0eu	7330.0eu				
1830-1900	s	AWR Europe, Austria	11865.0me					
1830-1900		Radio Bulgaria	5800.0eu	7500.0eu				
1830-1900		Radio Telefís Eireann	13640.0na	21630.0af				
1830-1900		Georgian Radio, Tbilisi	11910.0eu					
1830-1900		AWR Africa, Meyerton	11985.0af					
1830-1900	mtwhfa	Radio Sweden	6065.0va					
1830-1900		BBC World Service	3255.0af	6005.0af	6190.0af	6195.0eu	9410.0eu	9630.0af
			12095.0eu	15310.0me	15400.0af	15420.0af	17830.0af	21470.0af
1845-1915		RTVC Brazzaville, Congo	4765.0af	5985.0af				
1900-1915		Bible Voice Broadcasting	7295.0af					
1900-1915	smtwhf	Bible Voice Broadcasting	6015.0eu					
1900-1915	s	f	Bible Voice Broadcasting	9470.0me				
1900-1927		Voice of Vietnam	7280.0eu	9730.0eu				
1900-1930	s	Universal Life, Germany	7105.0me					
1900-2000	s	Voice of Greece	7475.0eu	9420.0eu	15630.0eu	17705.0na		
1900-2000		VOA	4950.0af	6035.0af	7415.0af	9525.0as	9690.0eu	9760.0eu
			11870.0as	11975.0af	13710.0af	15180.0as	15240.0af	15580.0af
			17895.0af					
1900-1956		China Radio Int'l	9440.0af	9585.0af				
1900-1956		Voice of Korea	4405.0as	7505.0eu	11335.0eu	11710.0eu		
1900-2000		Radio Australia	6080.0pa	7240.0va	9500.0as	9580.0va	9710.0pa	11880.0va
1900-2100	a	Scandinavian Weekend R.	5990.0va	11690.0va				
1900-2000		Deutsche Welle	6180.0af	11865.0af	13590.0af	13780.0af		
1900-2055		Radio Netherlands	7120.0af	9895.0af	11655.0af	17810.0af		
1900-2055	s	a	Radio Netherlands	15315.0na	17725.0na	17875.0na		
1900-2240		Radio New Zealand Int'l	15265.0pa					
1900-2000		R. Central, Papua NG	3290.0ir					
1900-2000		Voice of Russia	6175.0eu	6235.0eu	7290.0eu	7335.0af	7360.0eu	11510.0af
1900-2400		SIBC Solomon Islands	5019.0do	9545.0do				
1900-2000	m	Amateur Radio League, SAF	3215.0af					
1900-2200		Channel Africa, S. Africa	3345.0af					
1900-2000		Radio Korea	5975.0om	7275.0eu				
1900-2000	a	Sri Lanka B'casting Corp.	6010.0eu					
1900-2045		TWR Swaziland	3200.0af					
1900-2000		Radio Thailand	9535.0eu					
1900-2000		BBC World Service	3255.0af	6005.0af	6190.0af	6195.0eu	9410.0eu	9630.0af
			12095.0af	15310.0me	15400.0af	17830.0af		

1900-2400		KAIJ Dallas TX	13815.0va						
1900-2000		KJES Vado NM	15385.0na						
1900-2000		VOA Special English	9785.0me	12015.0me	13640.0me				
1900-2000	mtwhf	VOA Special English	5965.0me	9840.0as	11720.0as	11970.0as	11985.0me	15205.0me	
			15410.0as						
1900-2045	s	WBCQ Monticello ME	7415.0na						
1900-2000		WSHB Cypress Creek SC	17505.0af						
1900-2000	s t h	WSHB Cypress Creek SC	15665.0eu						
1900-2000		WYFR Okeechobee FL	3230.0af	15115.0af	15565.0eu	18980.0eu			
1900-2400		Radio Vanuatu	3945.0af	7260.0do					
1915-1925		Radio Rwanda	6055.0do						
1915-1930		BBC English Teaching	15105.0af	17885.0af					
1915-1930	s t	Bible Voice Broadcasting	6015.0eu						
1915-1930	s fa	Bible Voice Broadcasting	7295.0af	9470.0me					
1930-1945	mtwhf	Bible Voice Broadcasting	6015.0eu						
1930-1945	a	Bible Voice Broadcasting	7295.0af						
1930-2000	s fa	Bible Voice Broadcasting	9470.0me						
1930-2000		Georgian Radlo, Tbilisi	11760.0eu						
1930-2000	mtwh a	AWR Europe, Germany	11845.0af						
1930-2000		Voice of Greece	12105.0eu						
1930-2030		VOIRI Teheran	6110.0eu	7320.0eu					
1930-2230		Nat'l BC, Papua NG	4890.0do	9675.0lr					
1930-2230		R. E. Highlands, Papua NG	3395.0do						
1930-2230		R. Milne Bay, Papua NG	3365.0do						
1930-2230		R. S. Highlands, Papua NG	3275.0do						
1930-2000		Radio Serbia & Montenegro	6100.0eu						
1930-2000		Radio Slovakia Int'l	5915.0eu	6055.0eu	7345.0eu				
1930-2030		Swiss Radio Int'l	9820.0af	11920.0af	13660.0af	17660.0af			
1930-2020		Voice of Turkey	5980.0eu						
1935-1955		RAI, Rome	5965.0eu	9755.0eu					
1940-1945		Turkmen Radio, Asgabat	4930.0as						
1945-2000		Radio Tirana, Albania	7210.0eu	9510.0eu					
1945-2000	a	Bible Voice Broadcasting	6015.0eu	7295.0af					
2000-2030	s	Bible Voice Broadcasting	6015.0eu						
2000-2015	s a	Bible Voice Broadcasting	9470.0me						
2000-2028		Radio Budapest	3975.0eu	6025.0eu					
2000-2030		Kol Israel	9435.0va	11605.0va	13720.0va	15640.0af			
2000-2030		Voice of Mongolia	9720.0as						
2000-2100		BBC World Service	3255.0af	6005.0af	6190.0af	6195.0eu	9410.0eu	9630.0af	
			12095.0af	15400.0af	17830.0af				
2000-2030	s	BBC World Service	5990.0eu	9825.0eu					
2000-2030		VOA	4950.0af	6035.0af	6095.0eu	7415.0af	9690.0eu	9760.0eu	
			11855.0af	11975.0af	13710.0af	15240.0af	15580.0af	17885.0af	
			17895.0af						
2000-2030		Vatican Radio	7365.0af	9660.0af	11625.0af				
2000-2056		China Radio Int'l	5965.0eu	9440.0af	9840.0eu	11640.0af	13630.0af		
2000-2100		Radio Australia	9500.0as	9580.0va	11650.0va	11880.0va	12080.0va		
2000-2100	s a	Radio Australia	6080.0pa						
2000-2100	s	Voice of Ethiopia	7520.0va						
2000-2100		Deutsche Welle	13590.0af	13780.0af	15205.0af	15410.0af			
2000-2100		Voice of Indonesia	15150.0eu						
2000-2130		Italian Radio Relay Svc	5775.0va						
2000-2100	smtwh a	V. of the Mediterranean	7440.0eu						
2000-2300		Voice of Nigeria	17800.0af						
2000-2200		R. Central, Papua NG	3290.0do						
2000-2100		Voice of Russia	6145.0eu	6235.0eu	7290.0eu	7360.0eu			
2000-2100		AWR Africa, Meyerton	15295.0af						
2000-2100	mtwhf	Radio Exterior de Espana	9595.0af	9680.0eu					
2000-2100		Radio Damascus	12085.0eu	13610.0eu					
2000-2200		WEWN Birmingham AL	13615.0na	17595.0af					
2000-2400		WHRI Noblesville IN	5745.0va	9495.0am					
2000-2100	sm w f	WSHB Cypress Creek SC	15665.0af						
2000-2100		WYFR Okeechobee FL	3230.0af	5810.0eu	7580.0eu	15195.0af	15565.0af	17575.0sa	
2025-2045		RAI, Rome	5985.0af	9515.0af	11880.0af				
2030-2045		Radio Thailand	9535.0eu						
2030-2056		Radio Romania Int'l	6110.0eu	7105.0eu					
2030-2057		Voice of Vietnam	7280.0eu	9730.0eu					
2030-2059		R. Vlaanderen Int'l	7330.0eu						
2030-2100	t h	Radio Minsk, Belarus	7105.0eu	7210.0eu					
2030-2130		Radio Havana Cuba	9505.0eu	11760.0eu					
2030-2115		Radio Cairo	15375.0af						
2030-2100		Radio Sweden	6065.0va	9400.0va					
2030-2100		VOA	6035.0af	6095.0af	7415.0af	9690.0eu	9760.0eu	11975.0af	
			13710.0af	15240.0af	15580.0af	17885.0af	17895.0af		
2030-2100	s a	VOA	4950.0af						
2030-2100		Radio Tashkent	5025.0eu	7185.0eu	11905.0eu				
2040-2100	mtwhfa	Voice of Armenia, Yerevan	4810.0eu	9960.0eu					
2045-2230		All India Radio, Delhi	7410.0eu	9445.0eu	9575.0au	9910.0au	9950.0eu	11620.0va	
			11715.0au						
2045-2400		WBCQ Monticello ME	7415.0na						
2045-2130	mtwhf	WBCQ Monticello ME	5105.2na						
2045-2130	mtwhfa	WBCQ Monticello ME	9329.7na	17494.8na					
2050-2110		Vatican Radio	4005.0eu	5890.0eu	7250.0eu	9800.0dr			
2100-2115	mtwhf	BBC Caribbean Report	5975.0ca						

2100-2127		Radio Prague Int'l	5930.0eu	9430.0as						
2100-2130		Radio Australia	9500.0as 21740.0va	9660.0pa	11650.0va	11880.0va	12080.0va	13630.0va		
2100-2130		China Radio Int'l	5965.0eu	9840.0eu	11640.0af	13630.0af				
2100-2130		Radio Netherlands	11730.0dr							
2100-2130	mtwhf	Jakada Radio Int'l	7380.0af							
2100-2130		BBC World Service	3255.0af 6195.0va	3915.0as 9410.0eu	5965.0as 9605.0af	6005.0af 12095.0sa	6110.0as 15400.0af	6190.0af		
2100-2130	s	a BBC World Service	5975.0ca							
2100-2156		Voice of Korea	4405.0as	7505.2eu	11335.1eu					
2100-2200		R. Nacional de Angola	3374.9va	7216.8va						
2100-2300		Voice Int'l, Australia	9795.0as							
2100-2200		AWR Europe, Austria	9660.0af							
2100-2200		Radio Canada Int'l	5850.0va 13650.0va	7235.0va	7425.0va	9770.0va	9805.0va	11835.0va		
2100-2200		f Scandinavian Weekend R.	5990.0va	11720.0va						
2100-2200		Deutsche Welle	9615.0af	13780.0af	15410.0af					
2100-2200		Radio Japan	6090.0eu	6180.0eu	11855.0af	11920.0pa	17825.0na	21670.0pa		
2100-2200		a Voice of Russia Int'l	7380.0af							
2100-2200		Voice of Russia	6235.0eu	7290.0eu	7360.0eu					
2100-2200		Radio Damascus	12085.0na	13610.0na						
2100-2200		VOA	6035.0af 9760.0eu 15580.0af	6040.0eu 11870.0as 17735.0as	6095.0eu 11975.0af 17820.0as	7415.0af 13710.0af 17895.0af	9595.0eu 15185.0as	9670.0as 15240.0af		
2100-2200	sm w	a WSHB Cypress Creek SC	11650.0eu							
2100-2200		f WSHB Cypress Creek SC	15665.0af							
2100-2200		WWCR Nashville TN	7465.0na	9475.0na	12160.0na	13845.0na				
2100-2200		WYFR Okeechobee FL	5810.0eu	7580.0eu	15565.0af	17575.0sa				
2115-2130	mtwhf	BBC Caribbean Report	5975.0ca	11675.0ca	15390.0ca					
2115-2200		Radio Cairo	9989.9eu	15375.0af						
2130-2145	t	f BBC Calling Falklands	11680.0sa							
2130-2155		Radio Netherlands	9800.0dr	11730.0dr						
2130-2156		China Radio Int'l	5965.0eu	9840.0eu						
2130-2400		ABC Alice Springs	4835.0do							
2130-2400		ABC Katherine	5025.0do							
2130-2400		ABC Tennant Creek	4910.0do							
2130-2200		Radio Australia	9660.0pa	11650.0va	11880.0va	12080.0va	13630.0va	21740.0va		
2130-2200	t	h Radio Minsk, Belarus	7105.0eu	7210.0eu						
2130-2200		KSDA Guam	11980.0as							
2130-2200	smt	h a KSDA Guam	12010.0as							
2130-2300		f Italian Radio Relay Svc	5775.0va							
2130-2220		Voice of Turkey	9525.0as							
2130-2200		BBC World Service	3255.0af 6190.0af	3915.0as 6195.0va	5965.0as 9410.0eu	5975.0ca 9605.0af	6005.0af 12095.0sa	6110.0as 15400.0af		
2130-2200		f Wales Radio Int'l	7110.0eu							
2130-2200	mtwhf	WBCQ Monticello ME	17494.8na	5105.2na						
2130-2400	mtwhfa	WBCQ Monticello ME	9329.7na							
2130-2200		Radio Tashkent	5025.0eu	7185.0eu	11905.0eu					
2200-2228		Radio Budapest	6025.0eu	11965.0af						
2200-2229		R. Vlaanderen Int'l	11730.0na							
2200-2230		Radio Canada Int'l	5850.0va	6045.0va	9770.0va	9800.0dr	12005.0va			
2200-2230		Radio Korea	3955.0eu							
2200-2300		BBC World Service	5965.0as 11955.0as	5975.0ca 12095.0sa	6195.0va 15400.0af	7105.0as	9605.0af	9740.0as		
2200-2400		VOA	7215.0as 15305.0as	9770.0as 17735.0as	9870.0as 17820.0as	11760.0as	15185.0as	15290.0as		
2200-2230	mtwhf	VOA	6035.0af	7415.0af	11655.0af	11975.0af	13710.0af			
2200-2230		Radio Serbia & Montenegro	6100.0eu							
2200-2245		Radio Cairo	9989.9eu							
2200-2256		China Radio Int'l	7170.0eu							
2200-2256		Radio Romania Int'l	5975.0eu	7250.0eu	9550.0na	11830.0na				
2200-2400		Caribbean Beacon	6090.0am							
2200-2300		Radio Australia	9660.0va 21740.0va	11880.0va	12080.0va	13620.0va	13630.0va	15230.0as		
2200-2300		Radio Bulgaria	5800.0eu	7500.0eu						
2200-2300		f Scandinavian Weekend R.	5980.0va	11720.0va						
2200-2300		Deutsche Welle	6180.0as	6225.0as						
2200-2400		Voice of Guyana	3291.3do	5949.4do						
2200-2300		Radio Netherlands	15530.0dr							
2200-2300	s	a Radio Exterior de Espana	9595.0af	9680.0eu						
2200-2300		Radio Taiwan Int'l	9355.0eu							
2200-2300		Radio Ukraine Int'l	5840.0eu							
2200-2400		KWHR Naalehu HI	17510.0as							
2200-2400	smtwhf	WBCQ Monticello ME	5105.2na							
2200-2300	mtwhf	WBCQ Monticello ME	17494.8na							
2200-2400		WEWN Birmingham AL	9975.0na	17595.0af						
2200-2300	s	h WSHB Cypress Creek SC	7510.0eu							
2200-2300	s	w WSHB Cypress Creek SC	15285.0sa							
2200-2300		WWCR Nashville TN	5070.0na	7465.0na	9475.0na	13845.0na				
2200-2300		WYFR Okeechobee FL	7580.0eu	11740.0na	21525.0af					
2205-2230		RAI, Rome	11895.0as							
2230-2257		Radio Prague Int'l	7345.0na	9435.0af						
2230-2300		Radio Tirana, Albania	7130.0eu	9540.0eu						
2230-2300		Radio Canada Int'l	9800.0dr							

2230-2400	Nat'l BC, Papua NG	9675.0do	11880.0ir				
2230-2300	Radio Sweden	6065.0va					
2240-2400	Radio New Zealand Int'l	17675.0pa					
2245-2400	All India Radio, Delhi	9705.0as	9950.0as	11620.0as	11645.0as	13605.0as	
2300-2330	Radio Australia	9660.0pa	12080.0va	13620.0va	13630.0va	15230.0as	17795.0va
		21740.0va					
2300-2330	Radio Canada Int'l	5960.0am	9590.0am				
2300-2330	BBC World Service	3915.0as	5965.0as	5975.0ca	6195.0va	9740.0as	11945.0as
		11955.0as	12095.0sa	15280.0as			
2300-2330	VOA Special English	6180.0as	7205.0as	9780.0as	11735.0as	15110.0as	
2300-2330	WBCQ Monticello ME	17494.8na					
2300-2350	Voice of Turkey	6015.0va	9655.0va				
2300-2356	China Radio Int'l	5990.0ca	6040.0na	13680.0na			
2300-2356	Radio Romania Int'l	11840.0au	11940.0au	15145.0au	15370.0au		
2300-2400	Radio Havana Cuba	9550.0am					
2300-2400	Radio Cairo	11725.0na					
2300-2400	f Scandinavian Weekend R.	5980.0va	11690.0va				
2300-2400	Deutsche Welle	7250.0as	9800.0dr	9815.0as	12035.0as		
2300-2400	SBC Radio 1, Singapore	6150.0do					
2300-2400	WHRA Greenbush ME	7580.0eu					
2300-2400	WINB Red Lion PA	9320.0am					
2300-2400	WRNO New Orleans LA	7355.0va					
2300-2400	s W WSHB Cypress Creek SC	7510.0eu					
2300-2400	s WSHB Cypress Creek SC	15285.0sa					
2300-2400	WWCR Nashville TN	3210.0na	5070.0na	7465.0na	13845.0na		
2300-2400	WWRB Manchester TN	5050.0na	5085.0na	6890.0na			
2300-2400	WYFR Okeechobee FL	5985.0sa	11740.0na	11855.0sa	15170.0sa	15400.0sa	
2315-2330	Croatian Radio, Zagreb	7285.0sa					
2320-2330	Kyrgyz Radio, Bishkek	4010.0as	4795.0as				
2330-2357	Radio Prague Int'l	5915.0na	7345.0na				
2330-2357	Voice of Vietnam	9840.0eu	12019.9eu				
2330-2400	Radio Australia	9660.0pa	11695.0as	12080.0va	13620.0va	13630.0as	15230.0as
		17750.0as	17795.0va	21740.0va			
2330-2400	Radio Vilnius, Lithuania	9875.0na					
2330-2400	Radio Canada Int'l	5960.0na	9590.0na				
2330-2400	Swiss Radio Int'l	9885.0sa	11660.0sa				
2330-2400	BBC World Service	3915.0as	5965.0as	5975.0ca	6035.0as	6195.0va	9740.0as
		11945.0as	11955.0as	12095.0sa	15280.0as		
2330-2400	VOA Special English	6180.0as	7130.0as	7205.0as	9620.0as	9780.0as	11735.0as
		11805.0as	13640.0as	15110.0as	15205.0as		
24hr-	CFRX Toronto ON	6070.0do					
24hr-	CFVP Calgary AB	6030.0do					
24hr-	CKZN Saint John's NL	6160.0do					
24hr-	CKZU Vancouver BC	6160.0do					
24hr-	R. for Peace Int'l	7445.0in	15038.9in				
24hr-	RTM Radio 4, Malaysia	7295.0do					
24hr-	ZLXA New Zealand	3935.0do					
24hr-	University Network	5029.1am	6150.0am	7374.9am	9724.9sa	11868.8am	13750.3na
24hr-	AFRTS	4319.0uf	5446.5uf	5765.0uf	6350.0uf	7507.0uf	10320.0uf
		12133.5uf	12579.0uf	13362.0uf	13855.0uf		
24hr-	WBOH Newport NC	5920.0am					
24hr-	WJIE Louisville KY	7490.0in	11515.0in	13595.1am			
24hr-	WTJC Newport NC	9370.0na					

Key:

Days:

s - Sunday
m - Monday
t - Tuesday
w - Wednesday
h - Thursday
f - Friday
a - Saturday

Target Areas:

na - North America
ca - Central America
sa - South America
am - Americas
eu - Europe
af - Africa
me - Middle East
as - Asia
pa - Pacific

Other Notes:

va - Various
do - Domestic
om - Omnidirectional
in - Inactive
ir - Irregular
oc - Occasional
al - Alternate
lf - Lower Sideband
uf - Upper Sideband
dr - Digital Radio Mondiale

17th Annual Winter SWL Fest

Sponsored by **NASWA**

March 12-13, 2004

Best Western—The Inn at Towamencin

(formerly Holiday Inn),

Summeytown Pike, Kulpsville, Penna.

Plan to attend your favorite forums Friday and Saturday. Enjoy meeting with your friends in the Hospitality Room. Bring radio related items for the swap meet or to donate for the Silent Auction. Check out your friends' receivers, bring one of your own for others to try!

No frills; just shortwave, longwave, mediumwave, pirates, and scanning. Once again you will enjoy the camaraderie of your hobby friends.

Please note, there is an incentive for you to pre-register, as prices are more expensive for those who wait. Registration options are also more flexible than in the past, with new one-day and student registrations. **If you wish to participate in the meals, you must register and inform us that you will be attending by Thursday morning, March 11th.** If you choose not to participate in the meals, the hotel has a restaurant, and there are other restaurants nearby.

Your registration must be received by March 1, 2004 (note the earlier date) for the best prices; registrations received after that date are priced higher. See the registration form below.

Many things, like the raffle, remain the same:

GRAND PRIZE To be announced

SPECIAL Register early to win a sw portable! One free entry for an early-bird registration received by February 15, 2004.

Please bring items for the Silent Auction. Proceeds are donated to charity.

Checks should be made payable to WINTER SWL FEST. Register directly with the hotel for your rooms by calling the Best Western at (215) 368-3800. For 2004, one special rate \$75 single or double! Tell the hotel staff you're with the WINTER SWL FEST to receive this special room rate. *You must make your reservation directly with the hotel to receive this rate; reservations via the Best Western 800 number or web site are not eligible for this rate.* Up to the minute info. can be found on the Winter SWL Fest Web Page at <http://www.swlfest.com/> or from <http://www.anarc.org/naswa/>.

The Best Western—The Inn at Towamencin is located at Exit 31 of the PA Turnpike Northeast Extension-Lansdale Interchange. Improved access from the south with the Blue Route (1-476)—ask for details. Limo service is available from Phila. Intl Airport directly to the hotel.

Please submit the following form with your registration amount or send for more information to:

SWL WINTERFEST
P.O. Box 4153
Clifton Park, NY 12065

NAME: _____ (SPOUSE'S NAME) _____

ADDRESS: _____

CITY: _____ E-MAIL: _____ (REQ. FOR REG. CONFIRMATION)

CHECK ONE OR MORE

REGISTRATION RECEIVED BY
MARCH 1, 2004:

- Full (\$47)
 Two-Day Partial (\$17)
 One-Day Partial (\$9)
 New! Lunch-only Saturday (\$23)
 New! Spouse Lunch-only Sat (\$13)
 Full Spouse / etc. (\$32)
 Banquet only (Spouse) (\$19)
 Student (\$5)

LATE OR ON-SITE REGISTRATION
RECEIVED AFTER MARCH 1, 2004:

- Full (\$55)
 Two-Day Partial (\$20)
 One-Day Partial (\$10)
 One-Day Partial w/Lunch (\$25)
 Full Spouse/son/daughter (\$40)
 Banquet only (Spouse) (\$25)
 Spouse etc. Lunch-only (\$15)
 Student (\$5)

BANQUET:

- Roast Beef
 Chicken

RAFFLE TICKETS:

- raffle tickets, please
 (\$1 ea./ 6 for \$5/ 13 for \$10)
 Registration Fee Enclosed \$ _____
 Raffle Tickets Fee Enclosed \$ _____
 Total Check/Money Order \$ _____

Registration cancellations after 2/28/2004 cannot be refunded, however we will refund raffle ticket money if you have to cancel.


Company Store

Mike Wolfson KB8TYT • 1842 Mifflin Ave. • Ashland, OH 44805 • mwolfson@bright.net

The following items are available through the Company Store. Shipping is extra as noted.

Publications

Shortwave Listening Guidebook by Harry Helms. A beginners guide to shortwave listening covering equipment, antennas, propagation, station profiles, utility stations, clandestines and QSLing. 315 pages.	\$19.95 +2.00 s/h US/CA +3.00 s/h world
Underground Frequency Guide by Donald Schimmel. An in-depth look at illegal radio communications, pirates, spies and more. Extensive frequency list. A must have for pirate and clanny fans.	\$11.00 +2.00 s/h NAM +3.00 s/h world
Joe Carr's Receiving Antenna Handbook A complete guide to high performance receiving antennas from long-wave to the upper end of the HF band by one of the acknowledged experts in antenna theory and design.	\$19.95 +2.00 s/h US/CA +3.00 s/h world
Joe Carr's Loop Antenna Handbook Comprehensive but readable guide to understanding and building loop antennas for LW, MW, SW, and VHF. Includes many diagrams.	\$16.50 +2.00 s/h US/CA +3.00 s/h world
Shortwave Receivers, Past & Present by Fred Osterman. A very comprehensive must have book for anyone interested in buying or collecting shortwave radios covering over 770 different models. Includes amateur and commercial receiver produced in the last 55 years. Over 800 photos. 473 pages.	\$21.00 +2.00 s/h US/CA +3.00 s/h world
Communications Receivers: The Vacuum Tube Era 1932-1981 (4th Edition) by Ray Moore. Covers the golden age of vacuum tube receivers. If you think "real radios glow in the dark" you'll enjoy this book. 141 pages.	\$17.00 +2.00 s/h US/CA +3.00 s/h world
Farrell's Confidential Frequency List (12th Edition) Compiled by Kevin Nice. A definitive source of information about frequencies, callsigns and related information for the dedicated ute listener interested in signals from 2-30 MHz. 512 pages!!	\$24.50 +4.00 s/h NAM +8.00 air world
Passport to Worldband Radio 2003 Considered by many to be a great source of information about shortwave stations for new or experienced listeners, frequencies in use and schedules. 592 pages.	\$18.00 +4.00 s/h NAM +8.00 air world
World Radio and TV Handbook 2003 Long considered to be the bible for shortwave listeners. Newly revised and updated for 2003. Includes contributions by Anker Peterson, Paul Ormandy, Victor Goonetilleke, Jose Jacob, Dario Monferini and many others. 680 pages.	\$22.00 +4.00 s/h NAM +8.00 air world
NASWA Country List and Awards Program Booklet	\$3.00 PP US/CA \$5.25 elsewhere

Please make all checks payable in U.S. funds to "The NASWA Company Store". If you want to place an order, I'll be able to fill it for you. That's it for now. Have a good month. 

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NAS46b: <http://www.anarc.org/naswa/>

