

The **NASWA** Journal

VOLUME XLII NUMBER 12

DECEMBER 2002



Holiday Greetings



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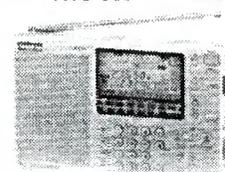
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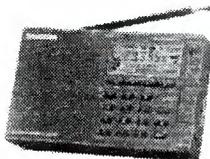


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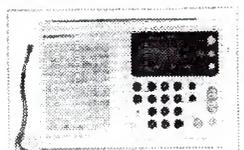
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Season's greetings to all members and their families. It's never too late to sneak a Universal Radio catalog in front of a family member with the appropriate pages folded and specific items circled as a reminder of what you want.

Nobuya Kato mentions that the Japan Short Wave Club (JSWC) will be doing another special broadcast in commemoration of its 50th anniversary over Adventist World Radio from Agat, Guam. The broadcast will feature Japanese and English segments on 15 December 2002 from 2100 UTC on 11960 and 11980 kHz and on 16 December 2002 from 1300 UTC on 11755 and 11980 kHz. The program host will be **Masaru Kawagoe** with JSWC member **Toshimichi Ohtake** as guest. A special QSL card from the JSWC will be issued for correct reception reports sent to: Japan Short Wave Club (JSWC), 50th Anniversary Committee, P. O. Box 138, Yokohama Port, 231-8691 Japan. They are looking for reports in English with 1 IRC or US\$1.00 return postage.

December wraps up another calendar year although the DX season is in full swing. I usually manage to do some extra listening this time of the year because of a backlog of unused vacation days I need to take before the New Year commences. This year appears to be no different for me. Whatever your pleasure, make it a safe and happy time.

The 2003 edition of *Passport to World Band Radio* is out. It's another terrific volume filled with useful information about the shortwave bands. The blue pages are a terrific resource while looking for an exotic station. The address section is always valuable to hobbyists writing to stations for information or QSL requests. Each year I thoroughly wear out my copy of *Passport*; it passes the test each year. Besides highly

useful and accurate information, the book holds up to daily use. Kudos to Larry Magne and the entire *Passport* gang at IBS International for another superb volume.

Adrian Peterson reports the results of the 2002 Adventist World Radio "Wavescan" DX contest that ran throughout the month of September 2002. Following an appraisal of all entries, "Wavescan" announced the World Winners for the year 2002. The First Place winner will receive the coveted Bronze Medallion, and all three will receive an autographed copy of Jerry Berg's book, *On the Shortwaves*. The three World Winners for 2002 are: First—Peter Boeck, Offenbach, Germany, Second—Nucio Ribas, Parana, Brazil, and Third—Dr. Floyd Layer, Terre Haute, Indiana USA. The additional Continental Winners will receive a copy of the 2003 edition of either *Passport to World Band Radio* or *World Radio TV Handbook*. The Continental Winners for 2002 are: Africa—David L. Gordon (South Africa), Americas—Ruben G. Margenet (Argentina), Asia—Nobuya Kato (Japan), Europe—Gunter Jacob (Germany), Pacific—Peter Grenfell (New Zealand) and North America—Matthew Weitendorf (USA). In addition, a new category was established and this is listed as "Entries of Merit" and each will receive an AWR Souvenir. There were 25 such recipients. Congratulations to all! AWR is inviting listeners to enter the 2003 contest that is scheduled to run during the month of September. Listeners will be asked to submit a list of unique QSLs (QSLs that you own that you consider no one else in the world has). Full details to follow later in 2003.

Check out this month's *Musings* for some interesting thoughts about antenna setups. I am always amazed at the number of possibilities to address specific circumstances. Once again, NASWA members show

OUR MOTTO IS - "UNITY AND FRIENDSHIP"

that they can be very creative when it comes to obtaining the best results possible to enjoy our common hobby.

Also from Adrian Peterson we learn that Adventist World Radio inaugurated a new shortwave transmitter on the island of Guam, replacing the former unit that was previously identified as KSDA3. Last year, AWR embarked on a modernization program at its flagship station KSDA, Guam. This project included the replacement of all four transmitters. Reception reports on the new KSDA3 are welcome (Adventist World Radio, 39 Brendon Street, London W1H 5HD, England) and you can ask for a special endorsement on your OSL card confirming the usage of this new transmitter.

The Rhein-Main-Radio-Club will host the 2003 European DX Council Conference in the Frankfurt, Germany area on 13-17 August 2003. The Danish Shortwave Club International will hold its Annual General Meeting and DX Camp at Vejers Beach, Denmark on 16-18 May 2003. Further details will appear in the *Calendar of Events*, as they become available.

Here's a reminder that **Bob Padula** (bobpadula@bigpond.com) of the Electronic DX Press that the 14th edition of the *Australasian Shortwave Guide* (ASWG) is now available. The guide contains 36 pages of information, covering the international shortwave transmission period that commenced on 27 October 2002, and concludes on 30 March 2003, the B02 period. ASWG provides comprehensive information about English shortwave schedules to Australia, Asia, the Far East, the Indian sub-continent, the Pacific, and for broadcasts in all languages to Australia and the Pacific. The data is arranged in two sections, by studio country and starting time. Each entry shows broadcasting organization, frequency, starting time, finishing time, language, target area, transmitter site, transmitter country, studio country, and days of operation. The ASWG costs A\$10.00 posted to Australian addresses, US\$10.00/A\$20.00/10 Euros/7 IRCs posted airmail to any other country. Payment may be in cash, bank check, personal check, postal order, mint Australian stamps,

IRCS or credit card via PayPal (NEW!). A soft copy version is now available. It will be sent via e-mail, as an unprotected ZIPped Word 7.0 document, compressed to 100 KB; the document or parts of it may then be printed (36 pages). Data in the tables may be searched and/or sorted as required. The soft version is A\$10.00 to Australian addresses and US\$5.00 or Euro 5 to any other country. Checks must be drawn on Australian banks, in Australian currency. Orders and payments should be sent to the author: Bob Padula, 404 Mont Albert Road, Surrey Hills, Victoria 3127, Australia.

Last call (yeah, I know I said that last month but this time I mean it, hi!) for contacting **Ron Hunsicker** (1238 Cleveland Avenue, Wyomissing, PA 19610-2101; e-mail: ronhunsi@ptd.net) if you are interested in forming a regional NASWA chapter in the greater Reading, PA area. Anyone that has an interest in shortwave radio is welcome to participate. Ron is willing to be the coordinator so please contact him if you are interested in meeting other club members on a periodic basis. Hopefully we will have an announcement about an upcoming meeting in the near future.

Each month more and more members sign up for the latest hot DX news, loggings, and information on the shortwave bands with the club's weekly electronic *Flashsheet*, edited by **Sheryl Paszkiewicz**, spasz@dataplusnet.com or P.O. Box 716 Manitowoc, WI 54221-0152 for non-electronic submissions. Please feel free to join your fellow club members in receiving our electronic newsletter, which 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. I have another missing person this month! **Michael Quinn**, please contact me. Thanks!

Remember to please direct all communications about subscriptions, bulletin delivery issues, etc. to **Bill Oliver** at the club's Levittown address or to his electronic address, weoliver@worldnet.att.net. The regular postal address is the familiar 45 Wild-

flower Road, Levittown, PA 19057. Inquires sent directly to me in Wyomissing only slow down the process. Thanks!

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

FRENDX: Twenty Five Years Ago (December 1977)

Gilfer Associates was seeking authors to develop potential manuscripts on topics related to shortwave listening and international broadcasting. Sam Barto will leave *Log Report B* to replace Bill Oliver as *QSL Report* editor. Steven Wisenblood will become the new *Log Report B* editor in January. In the *Shortwave Center*, Robert Fraser wrote about shortwave station WRUL in Scituate, MA while Malcolm Kaufman provided a comparison between the Panasonic RF-2200 and Sony ICF-5900W. In the *QSL Report*, Tom Gavaras reported his verification of AFAN McMurdo, Antarctica. Myron Smith's Scoreboard featured 163 reporters with James Young having the most countries heard (222) and Richard Pistek the most countries verified (208). 

Calendar Of Events

Dec 20 Meeting. Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcscckp@aol.com.

Dec 20 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) meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at radioscan@siscom.net. For additional information about MONIX, check out their web site at <http://www.siscom.net/~mmeece/monix.html>

Mar 7-8, 2003 Convention. The 16th Annual Winter SWL Festival, sponsored by NASWA, will be held at the *Best Western—The Inn at Towamencin* (Kulpsville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 7th and 8th March 2003. Richard Cuff and John Figliozzi co-chair the organizational committee. It's never too early to begin planning. See you there!

May 16-18, 2003 Annual General Meeting ("AGM") and DX Camp. The Danish Shortwave Club International will hold its **AGM and DX Camp** at Vejers Beach, Denmark on 16-18 May 2003. Further details will be published, as they become available.

Aug 13-17, 2003 Convention. The Rhein-Main-Radio-Club will host the 2003 **European DX Council Conference** in the Frankfurt, Germany area on 13-17 August 2003. Further details will be published, as they become available.

Sep 2003 Contest. 2003 Adventist World Radio "Wavescan" DX contest is scheduled to run during the month of September. Listeners will be asked to submit a list of unique QSLs (QSLs that you own that you consider no one else in the world has). Once in a lifetime frequency usage, emergency broadcasts, emergency transmitters, transmitter on wrong frequency, mistaken frequency entry, harmonic radiations, etc. etc? Full details to follow later in 2003.

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.

Errol Urbelis, 563 Meadow Road, Kings Park, NY 11754-5009

I have had no luck in receiving QSL cards from the same stations through the past 6 or 7 years. I always send return postage, many different types of enclosures (stamps, radio decals, radio bumper stickers, newspaper articles, etc.). The station are Radio Kuwait—5 reports with nothing received; All India Radio—8 reports with no luck; Voice of Armenia (Yerevan)—6 reports with nada, nothing, zilch; Radio St. Helena—still waiting for 1998 and 1999 QSL cards. I have 6 previous QSL cards. I have done follow up but still nothing.

What I don't understand is that all of these stations ask for reception reports, give their e-mail and regular addresses. What's the problem? Not to mention WWBS, WWCR, WEWN, WHRI, WHRA and KWHR (no response in 8 months).

Attention Scott Barbour

I just recently picked up several Sangean models from the local Radio Shack (now switching to Grundigs). I have the 505, 606 and 909. All I use is a 100, 125 and 600-foot long wires and the Antron 99 vertical. They all work very good in various situations. I also use a switching system so all my receivers can be easily connected with alligator clips on the rod antenna. The Antron 99 "V" works just fine above 13 mcs, it cuts out a lot of QRN from 9 mcs and above. Hope this helped you out a little bit, Scott. I see now with over 40 years experience, one antenna will not do.

I had a great time at Kulpville, this year. I hope to see you at Kulpville in 2003.

73, Errol

Angela Gibson, HC4 Box 110, Doniphan, MO 63935

Just wanted to drop you all a note on an interesting variation of a longwire shortwave antenna I have been using for several months with very good reception results. I have several different radios, which I listen to on a regular basis, and two main locations where I have my "listening posts" set up. Being in and out of the house quite a bit, I needed a good antenna to connect to on my front porch. I ran 50 foot length of #14 wire (coated) around the inside of my porch roof (ceiling), leaving about 4-5 foot hanging down to connect to my shortwave radio antenna via a metal alligator clip. The fun part is that instead of running separate wire for an indoor use antenna connection, I ran the opposite end of my wire into the house. I installed small hooks along the ceiling wall top and connected a BNC connector to this inside end so to be able to jack in my Yaesu VR-500, which I utilize extensively for shortwave listening, especially at night and during cold weather.

During warmer weather I can use the outside alligator clip connection on my Grundig YB-400 directly clipped on the telescoping whip with BNC connector. I have experimented with various connections inside and out, and this configuration gives me the best reception both

ways. Please note that I have also experimented with VHF/UHF reception with this set up and have had fairly good reception improvement in these bands as well.

Thanks for the opportunity to share my ideas with our members. Love the Journal. [Note to Emily in New York—I apologize for misplacing your address, please write!] Angela

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

Our first DXpedition of the season, and thirteenth overall, to French Creek State Park is now history. This DXpedition was a Sunday through Tuesday two-day event with the group arriving Sunday afternoon. The crew consisted of Fred Kohlbrenner, Ed Mauger, Kris Field and me. This DXpedition saw us in Cabin #10 which was the initial cabin for our first outing here a few years ago. The weather was fine making antenna installation problem free.

After the antennas were set up, we watched football; after all it was Sunday afternoon! I know this was a DXpedition but somehow our intensity level just isn't what it use to be. Besides, it was a good game, hi!

We had some interesting antenna issues with Fred's south facing short long wire ("the weenie") producing the best results. Consequently, Kris and I ran outside just before dark to erect second antennas heading south. Signals improved remarkably matching the quality of Fred's weenie. Once again, Fred's simple weenie antenna was a constant performer. Atmospheric conditions the first day produced an outstanding opening to the Indian subcontinent. The loggings from All India Radio were truly memorable. This was probably the best Indian opening we experienced in many years.

The following morning was good for Peruvians with my highlight being Reina de la Selva. Nothing heard from India although there was a brief Indonesian opening but things faded before 1200 UTC. Monday afternoon brought an exciting African opening. While Indians were good again Monday evening, they were not as prominent as the previous day. Rounding out my evening was a nice log of Radio Okapi with non-stop highlife music. It would have been nice to get a clean ID.

Later in the evening we watched Monday Night Football. Except for Fred. He managed to find the time to view a DVD. An interesting trend that highlighted our last DXpedition seems to be a regular item these days—television, DVDs and other audio/visual stimulation. Although Tuesday morning Latins were a bust, there was a nice opening to the Pacific allowing for reception of several Papua New Guinea stations.

Overall, I would say conditions were very good. Something always seems to open up and so it was this time out. Indian regional stations were as good as it gets on that Sunday evening. Peruvians were superb the following morning and Africans were excellent later that day. The "get away" morning saw a nice opening to Papua New Guinea with a number of regional stations entered into the logbook. I really can't complain about atmospherics this DXpedition.

73, Rich

NASWA

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Easy Listening

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

Keeping Notes

It's been my observation that the shortwave/public and international broadcast listening experience is enhanced by keeping track of the broadcasters' air times, frequencies, programming topics, and key Internet URLs for schedules, live programming, and on-demand programs. To that end, I am beginning work on a "clip & save" feature that will summarize radio broadcasts and Internet webcasts for individual broadcasters. My hope is, over time, to build up a reference tool that provides, in one listing, information that other publications tend to scatter over multiple sections of their reference books. Some of my regular note-taking will be used to build up these new features. Other aspects of note-taking come in handy this time of the year, when broadcasters' schedules change for seasonal programming. If you have specific stations you'd like to see profiled this way, please send me a note via postal mail, e-mail or fax (+1 707 313 2458).

Christmas and New Year's Programming

Since broadcasters often have short lead times in planning programming—after *Journal* deadlines, we can't report holiday programming plans with certainty. Instead, we can look over prior notes and predict what will air. My fellow programming enthusiast and columnist for the Ontario DX Association, Fred Waterer, and *Monitoring Times* columnist and NASWA/ODXA contributor John Figliozzi have shared their notes for holiday programming, and the collective result of our notes appears below.

HCJB, WHRI, and other Evangelical broadcasters

HCJB and WHRI began their broadcasts on Christmas Days in years past, and these two stations celebrate their anniversaries on

Christmas. Other evangelical broadcasters provide special programming, consistent with their doctrine, or the doctrines of the ministries who buy time on their stations. (via Fred Waterer/ODXA)

Paradoxically, some broadcasters such as WMLK and the "Overcomer Ministry" of Brother Stair (who has some legal troubles of his own to overcome) can be counted on to denounce the celebration of Christmas given the fact that Christmas as a special celebration originated in pagan winter solstice celebrations. (via Fred Waterer/ODXA)

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 Years' Eve and New Years Day. With one of the most powerful signals in North America, you should have no trouble locating them on the dial. (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!

Radio Australia

As is usually the case, **Radio Australia's** schedule will likely 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 **Metro-politan** 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.

Other December/January changes can be expected to include the following. The dates shown below were from last year and may be off by a day or two for 2002 and 2003:

The current affairs program **PM** is scaled back to 20 minutes on December 14th and from December 31st to January 18th. From December 17th to the 28th a series of current affairs specials replaces **PM**.

The World Today—the noontime current affairs program—is on hiatus from December 17th through January 11th.

Australia Talks Back also takes summer recess on December 17th and returns January 21st.

Correspondents' Report takes a break from December 16th and returns January 27th.

Asia Pacific is on break from December 24th and resurfaces January 14th.

Business Report is on holiday from December 22nd, returning January 19th.

Bush Telegraph leaves the scene from December 17th, and returns to air January 21st.

What isn't clear—yet—is what will replace these programs in their absence. If you're interested in the details, your best bet is to frequent one of the newsgroups or E-mailists (such as *swprograms*) where John Figliozzi posts thrice-weekly schedule updates.

Meanwhile, *Pacific Beat* continues to air, but the features take on more of a magazine format, since hard news in the Pacific islands is hard to come by over the holidays.

Cricket will continue on selected frequencies. A series of one-day meetings between Australia, New Zealand, and South Africa will likely begin in January and run through early February.

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*.

BBC World Service

Tuesday, December 24th, 1500 and 2230: **A Festival of Nine Lessons and Carols** is a long-standing World Service tradition from King's College, Cambridge. The 1500 airing is live. The Festival features traditional favorites like *Once In Royal David's City* and new music specially composed for the occasion.

Thursday, December 26th, 0105: **Her Majesty the Queen's Christmas Message** airs to the Americas.

Thursday, December 26th, 1500: A special three-hour edition of **Sportsworld** airs to all regions, though only a portion can be heard directly in the Americas. Boxing Day is a big day for Soccer in the UK, cricket, horse racing, and the annual Sydney to Hobart yacht race will be covered.

Sunday, December 29th, 1330: **In Praise Of God** airs a Christmas service from the United Reformed Church in Coventry, England.

Saturdays, December 28th and January 4th, 2330: **Pick of the World** features "the best of the best" in its final edition for 2002 and first edition of 2003. You're always welcome to nominate program segments you've particularly enjoyed; you can reach the program at pick@bbc.co.uk or by fax at 011-44-20-7557-2531.

May the Holiday season and 2002 find you in good health and spirits, cherishing family and friends. Best wishes for a happy, healthy, and prosperous New Year!

BBC World Service—70th Anniversary Programming: Many Voices, One World

The time period from December 12th through December 20th will feature special programming celebrating the 70th anniversary of the World Service—which came to life as the *Empire Service* on December 19th, 1932. Say what you will regarding the issues relating to the BBC's use of shortwave targeting North America and Australasia, there's no denying the longstanding history and continuing excellence represented by the BBC World Service and its programming.

Here are a few highlights:

Sunday, December 15th, 1700-2000 UTC: **World Service Global Party** is a live broadcast from five concerts in cities around the world.

Thursday, December 19th, 0400-1800 UTC: **Live from Table Mountain** originates from the top of Table Mountain near Cape Town, South Africa. Ben Malor and Heather Payton will recreate an event in 1933 when a field broadcast originated there for relay back to London, which then rebroadcast the program worldwide. A **Talking Point** special that day includes live on-air listener questions to Mark Byford, the current Director of the World Service. The day also will include **A Day in the Life of the World**, short segments which highlight the work of people who are in some way connected to the World Service—the engineer who looks after the Ascension Island transmitter to the stars of **Westway**.

Thursday, December 12th through Saturday, December 20th: **Listeners' Tales** is a series of five-minute stories broadcast at various points around the schedule. Stories from a mix of celebrities and other listeners whose lives have been affected by the World Service. Terry Waite, who listened during his Beirut incarceration, will be one of those with their story; rumor has it that a well-known NASWA contributor will be one of the listeners who will be telling their tale.

Monday, December 16th through Friday, December 20th, 1200-1400 UTC: **Newshour** will expand to two hours and will include a daily in-depth interview with a key cultural, international figure.

Monday through Friday 1345, 2245, repeated Tuesday through Saturday 0345 and 0445, December 16th through 21st: **This Is London** replaces **Analysis**, **Off the Shelf**,

and **From Our Own Correspondent**. **This Is London** will highlight key turning points in global events during the World Service's 70 years. The impact of the changes in the technology of conflict reporting will also be included.

Saturday, December 14th and 21st, 2330 (time tentative): On the 14th, **Pick of the World Service** is celebrating with a special one-hour version of the program highlighting the best programming of the 70-year history of the World Service. Clips from English and other language services will be included. On the 21st, **Pick** will feature highlights of the special anniversary week of programming.

Monday, December 23rd, 0206: **The World's Top Ten** is the fruition of a massive poll of World Service listeners asking them to name their favorite all-time music. That poll was ongoing as of press time at URL <http://www.bbc.co.uk/worldservice/us/features/topten/>, and will air in the time slot normally occupied by **Wright Round the World**.

Since I've filled my space for the month, I'll include additional 70th anniversary program highlights in upcoming NASWA e-mail Flashsheets and in the *swprograms* Internet-based discussion group (see <http://www.topica.com/lists/swprograms>). It would also be a good idea to check the World Service website, <http://bbcworldservice.com>.

73 DE Richard



WWW Shortwave Listening Guide

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



Shortwave Center

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Digital Broadcasting— A Broadcaster's Perspective

By Ed Evans

Since the early to mid-1990's, Broadcasters and broadcasting enthusiasts have been bombarded with claims and revelations about exciting new "digital methods" for radio and television broadcasts. The FCC made HDTV (originally High Definition Television, now considered only to be Digital Television) a priority, and there now exists a time-line and methodology for this to occur in the United States.

For radio, the process has been quite a bit more wide open, both worldwide and in the US, as various interested parties have developed "digital techniques" for radio propagation. My purpose in writing this article is to convey, from this Broadcaster's perspective, a layman's view of these differing techniques, and what they may mean for the future of radio.

The grand idea for digital radio is three-fold, in my way of considering it—first, greatly improve the signal quality of the reception, by eliminating fading, multipath, static, and finally improve the audio depth of the transmission; second, provide for spectrum efficiency; and third, provide data to the receiver for either the user or the receiver to interpret and use (here I mean information on the current signal being heard for the user, or information for the receiver to use to adjust itself to improve the transmission—i.e., adjusting bandwidth).

The first "successful" format for digital radio is the Eureka-147 system. Eureka-147 was developed primarily in the United Kingdom and Germany, and is now used in those countries as well as some parts of Canada. Eureka-147 (and in most cases the other digital systems discussed here) uses

audio and data encoding that essentially creates a "multiplex" channel that can carry high-quality audio, data, and multimedia to the user's receiver, where the receiver then "decodes" the desired information from the multiplex and plays it out through the speakers or outputs to a PC or other device. Eureka uses main and secondary transmitters to achieve a very optimal signal coverage, which eliminates multipath, fading, distortion, and other non-friendly broadcasting hurdles. It is spectrum efficient, in that it allows several audio signals to be broadcast in a single channel.

Unfortunately, Eureka-147 has not become a widely accepted format. One main hurdle was that the spectrum space utilized by Eureka in Europe is not available for use in the United States. The other problem has been receiver availability and pricing. While Germany and the UK do broadcast the Eureka-147 signal, the population of receivers in these countries has been dramatically low.

The next "successful" format for audio broadcasting that I would like to touch on is the new "digital satellite broadcasting" formats—XM Radio and Sirius Radio. XM uses two satellites positioned in geo-synchronous orbit over the eastern and western United States. Sirius is using 3 satellites in highly elliptical orbits that ensures that at least one of the birds is always positioned over the United States in the most favorable coverage position. Unfortunately, both systems also have to use ground-based "repeater" transmitters in or near large cities to overcome the shadowing of the tall buildings. While Sirius (previously CD-Radio) was the first system to get started, XM Radio beat them to the air. XM went on air in 2001, while Sirius did not get on air

until the spring of 2002. Both systems use multiplexing technology that allows for the greater number of channels and improved audio quality, and although the coding for each is different, the chip-sets used by the two systems will allow the other system to operate.

Whether or not satellite radio will succeed will depend in large part on the automobile manufacturers. Both companies have arrangements with different automobile manufacturers to offer satellite radio. If these are marketed properly, then I feel that one or both of these systems may be able to survive. However, the true advantage of the digital audio "sound" may be lost on the mobile user of this service. Current after-market "converters" for existing cars, while less expensive than the true satellite receiver, merely convert the digital audio to either FM or cassette input to the car radio. This coupled with your every day road noise seems to me to kill the argument for the "digital quality" of the sound. The quality of the programming provided might be the argument that gets around this for the user.

The next two systems will be the "real" players in the audio digital revolution, in my opinion. These are, of course, Ibiquity's In Band On Channel (IBOC) system and the Digital Radio Mondiale DRM system. IBOC now has the strong support of the powerful National Association of Broadcasters. It is a system that does not displace or threaten the current broadcasting mainstream in the United States. It will work in the current FM band (and reportedly daytime AM) without interference to adjacent IBOC or non-IBOC (regular analog) channels. The IBOC system has been widely tested on FM, but its AM performance is still being studied. The FCC has recommended that IBOC FM be accepted as a broadcasting format in the United States and is currently developing rules for its use. The Ibiquity IBOC system is proprietary and will require licensing and user fees from the broadcasters who use the system.

DRM is a consortium among mainly European and Asian broadcasters, government entities, receiver manufacturers and other parties to develop a non-proprietary

methodology that will deliver digital audio in the existing long wave, medium wave (AM) and shortwave bands. This system will be able to deliver FM-quality sound and data over the existing bands. DRM is the only system currently endorsed by the ITU for all three broadcasting bands below 30 MHz. The DRM system has been widely tested worldwide on LW, MW, and SW bands. Receiver manufacturers have been given the requirements for the chipsets these receivers will require, and production of DRM radios is anticipated in 1994. DRM is well on its way to be a world standard for broadcasting below 30 MHz.

But there soon may be a fly in the soup—and this fly may become an angel to the radio listener and broadcaster. Motorola has recently unveiled at an electronics show in Japan its "Symphony Digital Radio Chipset." Motorola's information on this development promises "existing analog radio signals to benefit from less static, fading, pops and hisses; automatic tuning to reduce adjacent station interference; extended listening range for existing signals; and overall better audio clarity and volume." Motorola says that these chip-sets will be on the market by the end of 2003, and the cost to the consumer will be comparable to existing receiver prices. The great advantage to broadcasters is that the Symphony system delivers all of its promise at the receiver—there is no investment or risk on the part of the broadcaster. As the Motorola literature states, this new Symphony system may be "a move that has significant repercussions for the digital radio industry."

In conclusion, I expect that the next three years will mark the rise of some of these systems, and the demise of others. The major players here are the US consumer market, the NAB, the DRM consortium, and last but not least, the Asian electronics manufacturers. The future of digital radio may soon be decided in a Board Room in Tokyo.

Ed Evans is the President of NASB, The National Association of Shortwave Broadcasters. Mr. Evans is also Station Manager of Shortwave Station WSHB, Cypress Creek, South Carolina. His email address is: evansc@wshb.com

Radio Broadcasting in Laos— An Overview

By Bob Padula (From The Electronic DX Press Magazine, September 10, 2002.)

I recently spent three weeks in South Asia, as part of an around-the-world trip which ultimately took me to Europe and Canada. I went on small-group tours for one week each in Cambodia, Laos, and Southern Thailand. Whilst in the region I gained an appreciation of current HF broadcasting there, which continues to show a continuing decline in favour of more efficient and effective delivery over medium-wave and VHF-FM facilities.

Introduction

Laos is a land-locked country with an area of about 237,000 sq. km. It is bordered by Myanmar, Thailand, China, and Vietnam. The capital is Vientienne and other major towns are Savannakhet, Paske, and Luang Prabang. The local time is UTC+7 hours.

The main language is Lao, with four ethnic categories of Lao-Lu, Lao-Tai, Lao-Theung, and Lao-Seung, all of which are mutually understood. Laotian vocabulary is enriched by loan words from Pali, the scriptural language of Theravada Buddhism. French, English, Chinese, and Vietnamese are also spoken in the principal urban centres.

English transliteration uses the word "Lao" across a wide spectrum of understandings, meaning the language "Lao," the country "Lao," the people "Lao," etc. The word "Laotian" is vanishing, but is still used by the outside world.

Lao languages are part of the Tai family, centered on Thailand. Those not trained in linguistics may find serious difficulty in distinguishing Lao variants from Thai. In the Thai and Vietnamese border areas, a common dialect is widespread.

I spent several days in Laos, and I was able to recognise some differences between spoken Thai and Lao. The vowel sound we know as "a" is accentuated as a "sliding vowel" in Thai, but not so extreme in Lao. The English spoken by Thai nationals is marked by the same intonations as in the parent Thai, with little variation in stress. To many English speakers from western countries, Thai and Lao often sound very "flat" and lacking in variation of intonation.

Broadcasting

Radio broadcasting in Laos is quite basic, as compared with other countries in the region. There is one national Government network, "Lao National Radio," originating from the capital Vientienne, heard on 576 kHz medium-wave, 200 kw, 2200-0330, 0400-0730, and 0930-1500. This is also carried on shortwave, using 6130 with 50 kw, intended for Laos. Content is mainly Lao variants, with Hmong and other dialects. It is understood that educational programming in English and French are carried irregularly, but these were not located.

Mediumwave

In Vientienne, only three mediumwave transmitters were heard, carrying Lao programming:

- 576 kHz: National network
- 702 kHz: Local/city network
- 810 kHz: Not identified.

In Luang Prabang, in Northern Laos, only one mediumwave station appeared to be operating in the local daytime, using the "split" frequency of 705 kHz, carrying mainly local programming, but relaying the national network from Vientienne at various

times. This channel is not compatible with ITU allocations for Region 3 (Asia/Pacific). This operation may be intended to reduce interference effects in the secondary service area for the Vientienne high-powered transmitter using the standard allocation of 702 kHz.

FM Broadcasting

Very little activity was noted, with channel separation generally of 0.25 MHz. In Vientienne, six stations were audible: 87.5, 90.55, 91.5, 93.75, 103.75 and 105.5 MHz.

In Luang Prabang, only one FM station was audible in the local daytime, using 93.0 in parallel with the mediumwave outlet on 705 kHz, with local and national network programming.

High Frequency Operations

There are two government transmitters operating in Vientienne. One of these uses 50 kw on 6130 at 2200-0330, 0400-0730, 0930-1500. The intended target zone is "Laos." Programming is in parallel with the high-powered medium wave outlet on 576 and FM on 103.75. This transmitter was installed in 1994.

A second transmitter in Vientienne is also used on 7145 kHz at 25 kw for what is announced as the "International Service." This is registered with the ITU from 0100-1800, with the target area designated as Laos, with programming in English, Thai, Vietnamese, French, and Khmer. This transmitter originally operated on 6130 and was moved to the 41 metre band when the 50 kw facility was put on line on 6130.

The exact schedule was not confirmed, but the evening broadcasts were audible in the block 1130-1400 with 30 minutes in each of the above languages. Other services listed are 2330-0030 (a "breakfast" service) in Vietnamese and Khmer, and a midday service at 0500-0630 in French, Thai, and English. I believe the Lao segments to be relays of the domestic service.

A third transmitter of 3 kw is listed in Vientienne, but unheard, on 7150 kHz, 0100-1800, also intended for "Laos." This is the transmitter which previously carried the International Service on 7112 several years ago.

A fourth transmitter is registered, with 1 kw on 3315, 0100-1800, again for "Laos," but not heard recently.

Outside of Vientienne, the number of regional transmitters has been reduced in recent years and now appears to number only one, but it is not known whether this is an official government station. The station was noted as active on 4661 kHz, 1040-1230*, *1300-1400*, *2315-0030. The station is listed in the WRTH as being at Sam Neua, in Hua Phan Province, near the extreme north east border of Laos with Vietnam. This is a very small town, and the transmitter location is questionable. Reception in Luang Prabang was excellent and I suggest that this station is actually located in Luang Prabang and not as listed. The WRTH list Luang Prabang on 6971, but no activity was observed on that channel at any time.

A mystery station was noted on 6765! This is a single-sideband suppressed carrier operation, and was heard with good strength from Northern Laos during the morning and evening. I do not suggest that it is located in Laos, but there is high probability that it is! It opens with a Western style musical tuning signal, with English and Lao announcements, announcing time and frequencies, including a message that the transmission was: "This is Radiobroadcasting for Western tourists." Transmissions were heard *0930-1030*, *1200-1300*. *0000-0100*, and *1330-1400*. The content was mainly in Lao with what appeared to be news, with national music.

From a more southerly location, in Vientienne, signal strength was much reduced. Unfortunately, my Sangean radio does not have SSB capability, so it was quite frustrating.

Vietnamese Regionals

Care is needed when monitoring the 4 and 6 MHz region for South Asian regional stations. From thousands of kilometres away, Lao can sound very similar to Vietnamese! While I was in Laos, Vietnamese regional stations were noted on:

4976 kHz Son La

6380 kHz Lai Chau

6492 kHz Cao Bang

6664 kHz Lao Cai

Summary

Broadcasting in Laos is very modest, with all broadcasting operations servicing local and regional communities. Lao National Radio is a full member of the Asia-Pacific Broadcasting Union, and HF transmissions are coordinated with other members of the Union, reporting to the ITU in Berne.

More on SE Asia HF Broadcasting

(The following notes are also by Bob Padula from the EDXP Magazine, September 13, 2002).

Malaysia

RTM continues to develop its MW and VHF networks, in Eastern and Western Malaysia. The facilities used for domestic HF broadcasting will not be replaced or repaired once their useful life has been reached, and some transmitters have already been closed down in Sarawak and Sabah.

The following frequencies were observed as being active and may also be in use at other times:

4845 Kajang 24 hrs. 100 kw. Tamil, noted with phone-in programming 0430-0500.

4895 Kuching 10 kw. *2200-0100*, *0800-1000*, *1030-1500*.

5030 Kuching 10 kw. *2200-0000*, *1230-1400*.

5965 Kajang 24 hrs. 100 kw. Radio 1-Malay.

5980 Kota Kinabalu 10 kw. *2200-1500*.

6025 Kajang 100 kw. *0500-1700*, Radio 8-Malay and indigenous languages.

6050 Sibul 10 kw. *2200-1500*.

7130 Kuching 10 kw. *0400-0600*.

7270 Kuching 10 kw. *0830-1200*, *1245-1500*.

7295 Kajang 100 kw, 24 hrs. English, relays 90.3 VHF Radio 4 from Kuala Lumpur.

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

At 1300-1310, 5030, 4895, 5980, 6050, and 7270 carry national news in Malay from Kuala Lumpur, at 1310, local programming resumes.

Upgrading work is in progress at the Kajang site with higher power being introduced for some services.

Singapore

The Singapore Broadcasting Authority abandoned all MW broadcasting some years ago in favour of VHF. A modest HF capacity survives from Kranji, operating on this general schedule:

6000 250 kw, Mandarin: *2300-0800*, *0900-1100*, *1400-1600*.

6150 250 kw, English: *2300-0800*, *0900-1100*, *1400-1600*

7170 100 kw, Tamil: *2300-1600*.

7235 250 kw, Malay: *2300-0900*, *1200-1600*.

The English service consists of relays of these VHF networks: Gold 90.5, Classical 95.0, Perfect-10 98.7, News Radio 93.8, Symphony 92.4, and Passion 99.5.

The Mandarin service comprises relays of Capital Radio 95.8, Love 97.2, Y.E.S. 93.3.

The Malay service takes relays of Warna 94.2 and RIA 89.7.

The Tamil service relays OLI 96.8.

The External Service, Radio Singapore International is intended for neighbouring countries with transmitters at Kranji, co-sited with the Merlin facility and sharing transmitters with the Domestic Service. The September 2002 schedule for RSI was:

1100-1400 6150 kHz 9600 kHz English

0900-1200 7235 kHz 9665 kHz Malay

1200-1400 7235 kHz 9665 kHz Indonesian

1100-1400 6000 kHz 9560 kHz Mandarin

Thailand

Domestic HF broadcasting is virtually extinct in Thailand, with extensive and increasing use being made of MW and VHF for local and regional services by the government broadcasting authority.

Around early 2001 HF domestic transmitters located at Bang Phun, in Pathum Thani, were closed and broadcasting ceased on 4830, 9655, 7115, 9655, and 11905. 6070 and 7115 remain in use on a very limited basis from 1100-1215, carrying relays of the External Service in Vietnamese, Khmer, Lao, Burmese, and Malay.

The 60 mb outlet of 4830 has been in intermittent operation since mid-2001, carrying relays of Radio Thailand's Network-3, in English in parallel with MW 918 kHz (Bangkok). This HF operation was set up to cater to the large influx of English-speaking tourists visiting areas outside of Bangkok, particularly the southern beaches at Phuket and nearby areas, and the northern cities of Chiang Mai and Chiang Rai. It may now have closed down as it was not audible at any time during my trip in July 2002.

Only one non-governmental station was noted—this originates from the Royal Household in Bangkok, with 10 kw on 6148 kHz. This "split frequency" channel was audible at good level during local evening hours in Thailand and in nearby countries around 0930-1100. However, severe interference is caused by the Radio Singapore domestic HF service on 6150. The 2 kHz het was very annoying.

Vietnam

The Voice of Vietnam continues to use several HF channels for relaying its Domestic Service to rural areas.

5925 Xuan Mai 50 kw, *2200-1600*

5975 Son Tai 50 kw, *2200-1600*

6020 Son Tai 20 kw, *2200-1600*

7210 Son Tai 20 kw, *2200-1600*

9530 Son Tai 50 kw, *2200-1400*

9875 Son Tai 50 kw, *0200-1000*

At 0200 UTC, these relays all carry the same news summary from Hanoi. The Hmong Service (part of Network 4) has recently extended its transmission hours to accommodate extended broadcasts to ethnic minorities. Both new frequencies gave excellent reception in the countries I visited.

5035 Xuan Mai 15 kw, *1130-1330*, *2200-0000*

6165 Xuan Mai 50 kw, *1130-1330*, *2200-0000*

9855 Xuan Mai 50 kw, (new) *0430-0600*

9650 Xuan Mai 50 kw, (new) *0430-0600*

energy-inefficient, high-maintenance, and bulky HF services. Many of the HF installations are 50 or more years old, and are being abandoned when their useful life is exceeded or major breakdowns occur. It is obvious that the various broadcasting authorities are not prepared to allocate financial or other resources to propping up "dinosaur" HF facilities, where MW and VHF systems are now the preferred technology.

Summary

HF domestic broadcasting in all of the countries mentioned is declining, with the steady replacement of such facilities by MW or VHF transmitters. Modern low-power VHF transmitters can be put on line at a fraction of the cost of the replacement of antiquated,

Ultimately, all HF domestic broadcasting will disappear from the South East Asia Region. It has already done so in other areas of the world. International broadcasters targeting those areas on HF may have to rethink their strategies. Their HF audience may not be as great as they believe!



WELCOME TO THE FOLLOWING NEW MEMBERS

PAUL A. BITTNER, Huron, TN
DON E. HEFNER, Lubbock, TX
RON REELAND, Peru, IN
TOM BENEDICT, Edgartown, MA

Well, I have finally reached the conclusion that computers were designed to either drive me insane or give me ulcers. I hope it's for the latter reason because I have a lot more room for ulcers now than I did when I was younger. In any case, I am down to two email addresses which for a while seemed to be working only when the moon was in conjunction with Saturn. I think I have everything set now. If you want to reach NASWA Headquarters by email, try <weoliver@comcast.net> or <weoliver@att.net>. Perhaps some day when my nervous tic subsides, we'll try to put up the old NASWA email address again.

Bill Oliver

Listener's Notebook

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

ANGOLA Radio Nacional de Angola

had a good signal two weeks ago on 4950 kHz, when received in Namibia. On Nov. 15 only the STP-Relay of the VoA was audible at 2000 UTC. One day later RN de Angola was on again, but with a slight hum. At 0500 a program in vernacular was heard on 7217. (That fits the frequency of RN Angola as reported in spring 2002 - Passmann) (Markus Weidner, currently in South Africa, as reported to the A-DX Mailing List via Willi Passmann, Nov 18/DX Listening Digest/Hauser-OK)

ARGENTINA Latest sked for RAE, Radiodifusion Argentina al Exterior

0000-0200	Portuguese	11710 Mo-Fr
0200-0300	English	11710 Mo-Fr
0300-0400	French	11710 Mo-Fr
1000-1200	Japanese	11710 Mo-Fr
1200-1400	Spanish	15345 Mo-Fr
1800-1900	English	9690 15345 Mo-Fr
1900-2000	Italian	9690 15345 Mo-Fr
2000-2100	French	9690 15345 Mo-Fr
2000-2200	Spanish	6060 11710 15345
2100-2200	German	9690 15345 Mo-Fr
2200-2300	Spanish	6060 11710-15345 Mo-Fr
2300-2400	Spanish	6060 11710-15345 Mo-Fr

(Barrera-ARG)

AUSTRALIA A license has been granted for a private, commercial shortwave broadcaster.

Station X - formerly streaming on internet-only, has been assigned 1 kW on 2368.5 kHz. (RNMN via Kubiak-DE/EDXP)

I note discussion concerning a licence stated as having been awarded to someone in Queensland to operate on 2368.5 kHz, with 1 kW, as a NAS. As at November 25, there is no formal record of any such licence having been issued. (Bob Padula-AUS/EDXP)

AUSTRIA ORF plans to wind up Radio Austria International and to keep only two hours of ORF programming per day on shortwave; otherwise the transmitter will be leased out. Attempts are being made to convince the ORF council to reject this plan. (Kai Ludwig, Germany, Nov 8, DX Listening Digest/Cumbre DX)

BANGLADESH Frequency Schedule B'02,

Bangladesh Betar External Services:		
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	VOI	7185 9550 15520
1815-1900	English	7185 9550 15520
1915-2000	Bangla	7185 9550 15520

Home Service:

0030-0505 4880 Dhaka A
1200-1600 4880 Dhaka A
1200-1710 15520 Dhaka A
VOI=Voice of Islam (via Rifat J. Eusufzai, DX Forum, Bangladesh, Nov 29/DX Listening Digest/Hauser-OK)

BOLIVIA 5927.02, Radiodif. Minería

(presumed) 2233-2304 Nov 21. Talk by a man in Spanish, with snippets of John Philip Sousa's "Stars and Stripes Forever" in between. Echo effect announcement (ID?) at 2237. (George Maroti-Maine DXpedition, Cumbre DX/DX Listening Digest/Hauser-OK)

CHINA Sked for all Taiwan services from China:

CNR-5 0055-0615, 0955-0005 9380, 11100, 11935, 15710 (all silent)

CNR-6 2055-0105, 0355-1805 (Wed 0605-0955 stop broadcast) [siesta] 9170, 11000, 15880 (all silent)

Voice of the Strait 2225-1700 (Wed 2230-1000 stop broadcast) Literature channel 7280, 5050.

News channel 11590, 4940

Amoy channel 6115, 4900

Note: first SW frequency transmits between 0000-1400, second SW frequency transmits between 2225-0000, 1400-1700

China Huayi Broadcasting Company

(Wed 2225-1000 stop bc) 2225-1700 6185, 4830, Note: same as Voice of the Strait

Voice of Pujian 1155-1600 3280, 4950, 5075,

Voice of Jinling 1125-1400 5860

(Miller Liu, de Taiwan, Nov 15/DX Listening Digest/Hauser-OK)

CLANDESTINE - ASIA 15715 Chan Troi

Mal been listening to this one *1330-1430* daily, heard with fair signals here. ID's at start and close and still opening with "My Country" song sung by woman. Discovered that they have an email address of ctm@radioctm.com Website isn't working right now, but seems to have been www.radioctm.com Don't confuse with New Horizon magazine and website which has nothing to do with this station. (Johnson Nov/Cumbre DX)

CLANDESTINE - MIDEAST 9505, *Voice of Palestine, Voice of Islamic Revolution* in Palestine (via VoIRI), *0330-0348+, Oct. 30, pgm in Arabic, s/on with ID "Saut Filastin, Saut-i Saurati al Islamia fi Palestina," then patriotic music. (Barrera-ARG)

CONGO - DEMOCRATIC REPUBLIC
11690 *Radio Okapi* 0602-0630. Program of talk (French) by man and Afro pops. More talk than pops. Frequent mention of "Congo" and "Congolaise" between 0616 and 0619. (Evans, TN, Nov 5/Cumbre DX) 6030, *Radio Okapi*, 2130-2150, now also hrd here in French with local pops, few announcements, sung IDs; fair signal, // 11690 (relatively strong but ruined by a ute stn on freq) and 9550 (quite weak). (Vashek Korinek-AFS/DXplorer Oct 31/Cumbre DX) Careful, French broadcast "Radio Africa International" via DTK occupies 11690 from 0600-0800. (Savolainen-FIN/Cumbre DX)

CYPRUS New station *Radio Ibrahim*, P.O.Box 56500, 3312 Limassol, Cyprus. <mail@radioibrahim.com> has this winter schedule:

0700-0715	21590 Mo-Fr
0700-0745	21590 Sa/Su
2000-2045	5935 Tu
2000-2100	5935 Su/Mo
2000-2115	5935 We-Sa
2100-2115	5935 Tu
2100-2130	12025 Th
2130-2200	12025 Sa/Su
2130-2215	12025 Mo
2145-2200	12025 Tu/We/Fr
2230-2330	9405 Fr-We
2245-2315	9405 Th

Sites:

5935 kHz - IBRA Radio, Moscow, Russia
9405 kHz - IBRA Radio, Juelich, Germany
12025 kHz - HCJB, Ascension Island
21590 kHz - Voice of Hope, Juelich, Germany
(Christian Guibaudo, Nice-France, DSWCI DXW/BCDX/ARDXC)

GEORGIA 11805 *Radio Georgia* 0635-0701. English language news by man. Frequent mention of Georgia. At end of news "This is world wide ... from Tbilisi, Republic of Georgia". (Evans, TN, Nov 11/Cumbre DX)

GUAM The special broadcast in commemoration of the 50th anniversary of Japan Short Wave Club (JSWC) will be held as follows: Station: **Adventist World Radio** from Agat, Guam. Language: Japanese and English

15 December	2100	11960	11980
16 December	1300	11755	11980

Program host: Masaru Kawagoe Guest: Toshimichi Ohtake (JSWC member) It is a special bi-lingual, an approximately 20 minutes-long program. A special QSL card from JSWC will be issued for correct reception reports sent to: Japan Short Wave Club (JSWC), 50th Anniversary Committee, P.O.Box 138, Yokohama Port, 231-8691 Japan. Please write your report in English and enclose 1 IRC or 1 U.S. dollar bill. (Toshimichi Ohtake/JSWC/DSWCI DX-Window)

GUATEMALA Per conversation with Wayne Berger at TGNA, *Radio Cultural* 3300 was taken off the air "because we haven't received any reports on it for a year. We just couldn't justify the expense of running 10 kW here with no reports. I may put it back on at 500 watts or 1 kW to occupy the frequency. We continue to run 5955 with 1 kW for DXers. We have a website in the works at www.radiocultural.com where we plan to stream our audio.

"Radio Maya 3324.8 and **Radio Buenas Nuevas** 4800 have FM and are putting in repeaters to cover the hard to reach areas. I wouldn't expect them to be on shortwave much longer.

"Radio Verdad 4052.4 is struggling, they have tried to get Radio Cultural to purchase time, but I already have the entire country covered on FM.

"Union Radio 5980v I believe this is strictly on FM now.

"Radio Naclonal 6180 has been off for years. I put it back on for them a few times, but they really don't have any interest in having it on." (all via Johnson Nov 25/Cumbre DX)

INDIA AIR National Channel (Hindi/English) has started regular transmissions at 1320-0043 UTC as follows:

9425 Bangalore 500 kW (Regular Transmission)
9470 Khampur (Delhi) (Experimental Transmission). Back in August & September this year, tests were conducted from Bangalore on 9425 and 9450 at these timings. (Jose Jacob-IND/Cumbre DX)

Radio Kashmir, Srinagar is noted with their winter schedule now. The sign on is now at 0120 UTC on 4950 (ex Summer 0025). (Jose Jacob-IND/Cumbre DX)

INDONESIA 3325.0, **RRI Palangkaraya**, Talk program at 1938 including music. SCI at 2000 then followed to Jakarta news entitled "Warta Utama". Fair. (Nov 22/Jembatan DX/Yamada-JPN)

3960.4, **RRI Palu**, 2003 talk by male, 2012 bird singing which probably means sunrise, and then reading of Holy Koran. (Nov 22/Jembatan DX/Yamada-JPN)

3976.1, **RRI Pontianak**, Heard at 2040 with talk, telephone conversations, local pops, advertisements. (Nov 16/Jembatan DX/Yamada-JPN)

4753.3, **RRI Makassar**, Telephone conversations at 1908, local pops, sometimes ID was heard. Good signal. (Nov 22/Jembatan DX/Yamada-JPN)

4925.0, **RRI Jambi**, Stronger than usual with long program of reading of Holy Koran at 1432. (Nov 6/Jembatan DX/Yamada-JPN)

6070.0v **RRI Jayapura**, Poor signal with English pops and male talks at 1315. (Nov 10/Jembatan DX/Yamada-JPN)

IVORY COAST The rebel Ivory Coast Patriotic Movement (MPCI) has begun broadcasting a station called **Voix du Mutin** (Voice of the Mutiny). Station broadcasts 12 hours from Katiola, in the north. (Clandestine Radio Watch/Schoech-DE) [no freq info given, sorry! -AQ]

KENYA The **KBC's** only remaining shortwave outlet - the Eastern Service on 4915 kHz - has extended its schedule. It's on the air Monday-Friday at 0300-0700 and 1300-1910. (Chris Greenway, Kenya, Nov BDXC-UK Communication via DXLD/Cumbre DX)

LEBANON from The Daily Star, Lebanon: The France-based Rally for Lebanon, part of the Free Patriotic Movement of former Army Commander Michel Aoun, has begun **Free Voice of Lebanon**. Announced sked: 17600-1700 on 11515. Email fmradio@yahoo.com or www.radio@tayyar.org. (Cladestine Radio Watch/Schoech-DE) Via Samara, Russia (R. Bulgaria Observer/Nedjalkov-BUL)

LITHUANIA Freq change for **Radio Barobari** in Persian effective from Nov.25: 1700-1730 NF 7470 probably via SIT, ex 7480. (R. Bulgaria Observer/Nedjalkov-BUL)

MADAGASCAR (non) **IBC Tamil Oli Radio** in Tamil via MDC 1230-1330 NF 17525, ex 17495 (R. Bulgaria Observer/Nedjalkov-BUL)

MALAWI Malawi Broadcasting Corporation is currently transmitting on 3385 instead of 3380 kHz. Even in South Africa reception is not too good. (Weidner-NAM/A-DX/Passmann/Cumbre DX)

MOROCCO Winter B-02 Schedule for **RTMorocco** in Arabic:
0000-0500 NF 5980 MOR
0900-1500 15340 NAD
1100-1500 15335 MOR
1500-2200 15345 NAD
2200-2400 NF 7135 MOR
(R. Bulgaria Observer/Nedjalkov-BUL)

NAMIBIA There is no frequency switch from 6060 to 3270 kHz at 1600 UTC. So 6060 is 24h, 3270 is inactive. The switch from 6175 to 3290 works, but there is a strong hum on 3290. Both transmitters are operated with 70 kW and the very last tubes are used to keep them on the air. (Willi Passmann/Cumbre DX)

PAKISTAN New printed schedule from Pakistan indicates home services via Islamabad as follows:

API-2 5915 0045-0215; 9645 0600-1115 [includes En nx at 0800-0803 and 1100-1104. 6065 Balti Nx 1350-1400 & Sheena Nx 1420-1428. 5965 1615-1700 [Islamabad Programme (Aaina)].

API-4 7105 Current Affairs 0200-0400 & 1300-1800
(Noel R. Green-UK, BC-DX Nov 5/Cumbre

DX)

Frequency changes for **Radio Pakistan** effective from Nov. 25: 1715-1800 Persian & 1800-1900 Urdu (Islamabad program) NF 7550, ex 7555 to avoid RTTY (Ivo and Angel! Observer, Bulgaria, Nov 29/DX Listening Digest/Hauser-OK)

PERU 4627 new here is **Radio San Isidro**, Celendin, Cajamarca, Peru. Heard Nov. 1 from 0100-0300 while Radio Cosmos was off. (Carlos Maldonado-CHILE, via Mohrmann-VT/Cumbre DX)

4904.71, **Radio La Oroya**, 1009-1022, Campo mx, some really beautiful harps. M anncr w/song anmnt, also gave at least 2 IDs. (Valko 29 Nov./Cumbre DX)

6193.48, **Radio Cusco**, 0938 LA Pop mx w/W vclist at t/in, 0941 M w/TC, ID, and short tlk, then OA campo mx at very weak lvl. 0945 M anncr again w/ment of "radio", then what sounded like deadair at 0946. M returned at 0949 w/ment of Cusco, and Peru. Deadair again at 0951, but the M returned once again at 0953. I'm wondering if the deadair is due to a faulty cart machine. The signal wasn't very strong. Another stn on 6195 that signs on around 0955 wipes them out completely. Been following this for a couple weeks but haven't been able to ID until today. (Valko 23 Oct./Cumbre DX)

Radio Willkamayu from Cusco is testing on 10354.2v kHz. Transmitter power is only 20 watts, says station manager Julio C. Tello A. The station was first logged on shortwave by Alfredo Benjamin Caote B. near Lima in Peru on October 30 and November 2 after 1100 UTC, and later already after 1000 UTC. OBX7L Radio Willkamayu also broadcasts on 940 kHz. Address: Avenida Infancia 527, Wanchaq, Cusco, Peru, tel. +51-84-246391. (DXing.info, November 3, updated November 5/Cumbre DX)

RUSSIA Voice of Russia "Sodruzhestvo" special service for CIS and Baltic States, all programs in Russian:
1400-1500 6045 6185 7105 7365
1500-1600 5995 6045 6185 7105 7170 7365
7445 12015
1600-1700 5995 6045 6185 7170 7440 7445
9470 12015
1700-1800 5995 6045 6185 7155 7170 7445
1800-1900 5995 6045 6185 7155 7170 7445
1900-2000 6045 7170 7445
(Nikolai Rudnev-RUS)

Some interesting religious and clandestine stations using Russian sites B02:

IBRA Radio
2000-2115 5935 Samara

True Light Station/IBRA Radio
1200-1330 5895 Petropavlovsk

Voice of Hope (High Adventure Ministries)
1200-1500 7485 Novosibirsk

Fang Guang Ming Radio

2100-2200 6035 9945 Samara

Voice of Khmer Krom

1400-1500 11560 Vladivostok Tuesdays only

Herald Broadcasting1200-1300 9880 Komsomolsk
1300-1400 7460 Irkutsk**IBC Tamil**

0000-0100 7460 Novosibirsk

Voice of Biafra International

1900-2000 12125 Krasnodar Saturdays only

University Network0400-1700 17765 Samara
(Nikolai Rudnev-RUS)**Some freqs changes for Voice of Russia:**

0000-0100	Portuguese	6185, ex-7310
0100-0300	Spanish	6185, ex-7310
1200-1500	Ur/Hini/Urdu	9940, ex-12025
1500-1600	Hindi/Bengali	9940, ex-12025
1500-1600	Russian	ADD 12015
1500-1700	Persian	7510, ex 9360
1500-1700	Persian	ADD 7155
1700-1900	Russian	ADD 7155
1800-1900	German	ADD 6235
1900-2200	English WS	ADD 6235
2100-2200	Russian WS	ADD 5975 6045

7370

(R. Bulgaria Observer/Nedjalkov-BUL)

SRI LANKA While checking for **SLBC** All Asia

Service on 7115 this morning, I noticed that it was absent there and on their old frequencies of 7190 and 7440. However, shortly I was able to get them with distorted audio on 7049 in the middle of the 40 Meter Amateur Band. 11905 was in parallel. Sked is 0050-0400, 0800-1530 Indian languages. (Jose Jacob-INDIA/Cumbre DX)

TANZANIA Radio Tanzania has

reactivated the use of 7280 kHz. Unfortunately, transmissions on that frequency continue to be erratic, and it seems only to be scheduled for usage at approximately 0700-1300, restricting propagation to the region. The parallel 5050 kHz continues to be used at 0200-2100. (Chris Greenway, Kenya, Nov BDXC-UK Communication/DX Listening Digest/Cumbre DX)

TATARSTAN B-02 schedule for **Radio****Tatarstan**, all via Samara:

0500-0600	15105
0700-0800	15105
0900-1000	11915

(R. Bulgaria Observer/Nedjalkov-BUL)

TOGO 5047, **Radio Togo** (p), 2121-2201,

Found this one back on w/strong signal and weak modulation, as it was when it left the air. Rapid tlk by W accompanied by M at t/in. Low-to-inaudible modulation. (Valko 9 Nov./Cumbre DX)

UKRAINE Hare Krishna station **Radio**

Krishnaloka began test transmissions on 7415v kHz shortwave on September 1. Regular broadcasts were scheduled from the beginning of October, from 0300-0500 and 1300-1500. Postal address for the station is given as ul. Avtozavodskaya, dom 6, kvartira 24a, Moscow. (DXplorer via DXing.info/ARDXC)

USA 4950.00 **WHKT** Portsmouth VA (x3) 2032

Possible 3rd harmonic of this station with Radio Disney programming. Harmonic is intermittent, but clearer than the original on 1650 when present - enough to block VOA Sao Tome. (Fine 10 Nov)

UZBEKISTAN Freq change for **Radio****Tashkent** to ME, all on 5885 (ex-6025):

1630-1700	Farsi
1700-1730	Arabic
1730-1830	Uzbek (Vatandosh)
1830-1900	Farsi
1900-1930	Arabic

(R. Bulgaria Observer/Nedjalkov-BUL)

YUGOSLAVIA Updated B-02 schedule for**Radio Yugoslavia:**

0000-0028	Spanish	9680
0030-0058	Serbian	7115 Mo-Sa
0030-0128	Serbian	7115 Su
0100-0128	English	7115 Mo-Sa
0130-0158	Serbian	7115
0200-0228	English	7130
1330-1358	English	11835 Mo-Fr
1400-1458	Serbian	11835 Mo-Fr
1500-1528	Serbian	11835 Mo-Fr
1530-1558	Arabic	11800
1600-1628	Russian	6100
1630-1643	Hungarian	6100
1645-1658	Greek	6100
1700-1728	French	6100
1730-1758	German	6100
1800-1813	Albanian	6100
1815-1828	Bulgarian	6100
1830-1858	Italian	6100
1900-1928	Russian	6100
1930-1958	English	6100
2000-2028	Spanish	7200
2030-2058	Serbian	6100 Su-Fr
2030-2128	Serbian	6100 Sa
2100-2128	German	6100 Su-Fr
2130-2158	French	6100
2200-2228	English	6100
2330-2358	Chinese	9580

(R. Bulgaria Observer/Nedjalkov-BUL)

QSL Report

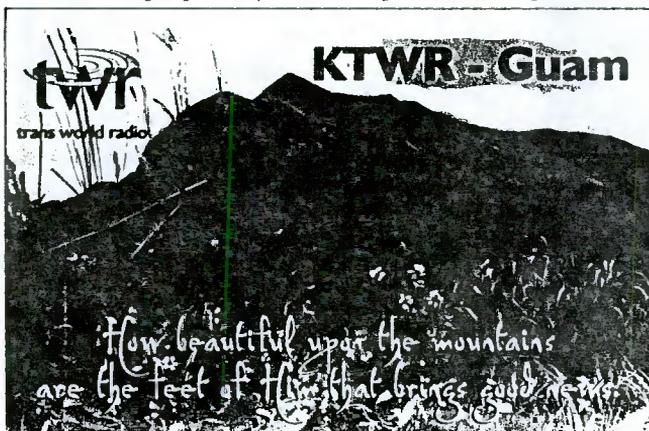
Sam Barto • 47 Prospect Place • Bristol, CT 06010



ABU DHABI: Radio Canada International 12015 via Dhabayya f/d "Sackville" cd. in 7 wks. w/ plastic pennant, sticker and schedule. (Barto-CT).
Radio+Japan 15165 via Dhabayya f/d cd. w/ newsltr., schedule and booklet in 289 ds. (Glotzbach-NM).
ARMENIA: Voice of America 11790 via Yerevan f/d cd. in 631 ds. for SASE (Glotzbach-NM). Voice of Russia 15735 f/d "Moskva River" cd. in 5 wks. (Barto-CT).
ASIATIC RUSSIA: Radio Nederlands 17570 via Khabarovsk f/d cd. in 663 ds. (Glotzbach-NM).
AUSTRALIA: Radio Australia 9580 and 11650 via Shepparton f/d "Kangaroo" cd. w/ rpt. forms, schedule and a DX tip sheet in 236 ds. for 2 IRCs. v/s Jan Johnson. (Barbour-NH).

STATION NOTES: Radio Santa Cruz 6135 v/s Maria Yolanda Marco Escobar, Secretaria de Direccion. Addr: Casilla 672, Santa Cruz, Bolivia. La Cruz del Sur 4875 v/s Reyes Balta-zar Quispe, Director. Addr: Casilla 1408, La Paz, Bolivia. Radio Educacao Rural do Tefe 3385 v/s Diacono Thomas Schwamborn, Director. Addr: Praca Santa Teresa 283, CEP-69740-000 Tefe, Amazonas, Brasil. Station plans to move to 4925 kHz. Radio Tropical 6419.2 Owner, Ernesto Laverde....via PLAY DX...Sam.

AUSTRIA: Radio Austria International 9870 f/d "Schoenbrunn Palace" cd in 28 ds. for 1 IRC. (Brouillette-IL).
BOLIVIA: La Cruz del Sur 4875.5 cd. w/ personal ltr. and an absolutely stunning station pennant in 426 ds. (Glotzbach-NM).
BOTSWANA: Radio Botswana 4820 f/d "Bull Elephant" cd. in 158 ds. v/s Ted Makgekgenene, Chief Engineer. (D'Angelo-PA).



BRASIL: Radio Can-cao Nova 4825 p/d "Logo" cd. w/ handwritten note in 38 ds. for an EG rpt. and \$2.00 via registered mail v/s Eduardo Moura. (Barbour).
CANADA: CFVP 6030 f/d ltr. in 2 mo. 100 watts v/s Lonny J. Bergen, Engineer. (Shreve-UT)
Radio Korea International 9560 via Sackville "Bussan



2002 Mask" cd. w/o site in 29 ds. for 1 IRC. Schedule and rpt. forms were rcvd. (Brouillette-IL). Radio Canada International 15325 via Sackville f/d "Sackville" cd. w/ plastic pennant, schedule and sticker in 7 wks. (Barto) CHINA, PEOPLE'S REPUBLIC OF: China Radio

International 15135 and 11955 via Kunming f/d "Confucian Grove and Residence Temple in Shandong" cd. in 2½ mo. The cd. was in Indonesian. I've QSLed the PRC over a 1,000 times and this is the first QSL I've ever seen in a language other than Chinese or English. (Barto-CT).

CLANDESTINE: Radio DAT 9775 my rpt. to * Societe Pour la Democratie en Asie in Belgium was returned "inconnu" or unknown in 62 ds. Hope a valid address shows up. (D'Angelo-PA). Que Huong Radio 9930.

RADIO SAN RAFAEL

STATION NOTES: Radio Cultura Do Amazonas 4845 v/s Jerusa Santos, Directora de Radio. Addr: Rua Barcelos 25, Praca 14 de Janeiro, CEP 69020-200, Brasilia, Brasil. Radio Congonhas 4775 Addr: Praca da Basilica 130, CEP 36404-000, Congonhas, MG, Brasil. Radio Okapi 9550 Addr: Fondation Hirondelle, 3 Rue Traversiere, CH-1018 Lausanne, Switzerland. La Voz de Tu Conciencia 6010 Addr: Libreria Colombia Para Cristo, Calle 44 No. 13-69, Bogota, D.C., Colombia. Radio Centro 3290 v/s Luis A. Gamboa Tello, General Manager. Addr: Castillo Entre 12 de Noviembre y Olmedo, Edificio Radio Centro, Ambato, Ecuador. ...via PLAY DX...Sam.



via KWHR f/d cd. w/ 2 business cds. in 12 ds. f/w: SASE (used) and ms. Report was mailed to the San Jose, CA address. v/s Nguyen Khoi, General Manager. (Barbour-NH). Radio International 9940 (Moldova?) n/d e-mail reply in 2 ds. Station said they were pleased they could be heard in the US. (Barbour).

CONGO (Democratic Republic): Radio Opaki * 11690 e-mail reply to Foundation Hirondelle (Info@hirondelle.org) in 4 minutes and 33 seconds w/ "Thank you very much for your message. We shall ask for some patience from you. The colleague who deals with the QSL requests is off for 2 weeks. v/s Dominique Jaccard, Desk Officer. (D'Angelo-PA).

CONGO (Republic): Radio Congo 5985 full * 2 page hand written ltr. in EG from Roger Olingou in 782 ds. for a FR rpt and \$1.00. The v/s is a 35 year old EG language broadcaster for the station. He said to use: B.P. 2241, Brazzaville, Congo or his home address at

Station pennants on this page are via PLAY DX... Darío Monferini

13.02. Julye 91 (2002)

Verification Card

Dear via Barbour
We thank you for your reception report and keen interest in our programmes.

We are pleased to verify that you heard Voice of Korea from 10.12 to 10.30 on 11710 kHz on Janu. 13, 2002. Your valuable opinions on our programmes will always be very much appreciated.

Yours sincerely,

The Radio-Television Broadcasting Committee of the DPRK, Pyongyang

B.P. 5754 Queuze, Brazzaville, Congo. The v/s needs a mobile phone. Anyone got one laying around? (D'Angelo-PA).

CZECH REPUBLIC: Radio Prague 15545 f/d "Prague Historic Center" cd in 24 ds. for 1 IRC. Sticker & schedule was rcvd. along w/ a brochure for Staropramen beer. (Brouillette). 2 f/d cds. of "Saint John Nepomuk Church" and "Litomysl Castle" in 13 ds. for 1 IRC. (Brouillette). 11600 and 13580 f/d "UNESCO World Heritage Site" cd. in 2 mo. (Barto).

ENGLAND: Bible Voice Broadcasting Network 11640 f/d

* "The Beach" cd. in 22 ds. v/s Liz Thompson. Addr P.O. Box 2801, Eastbourne BN21 2EQ, England. (D'Angelo-PA). Our NH reporter Barbour reports a QSL from **GB50 Queen's Golden Jubilee** on 18139 ham radio but interesting... Sam.

EUROPEAN RUSSIA: Voice of Russia 5940 via Krasnodar

MEMBERS NOTES: Jerry Klinck says he has had some surprisingly good Asian DX in East Aurora, NY. Jerry has plenty of time since he just had angioplasty with stent. He says he feels better. Good to hear... Sam. John Sgrulletta says that Radio Paucartambo is his 20th QSL from Peru since early 2000 with help from TIN in Japan and Carlos from Radio La Hora. John also QSLed a ham station at the Mount Athos Monastery in Greece which is one of the most sought after ham QSLs.... Sam.



f/d "Kosmos Hotel" cd. in 5 wks. (Barto-CT). **Radio Maryja 15455 via Samara (?)** f/d ltr. w/ religious materials and station stickers in 34 ds. for 1 IRC. v/s Malgorzata Zaniewska. (Barbour).

FINLAND: EDXC 2002 13720 via
* **Radio Finland** f/d "Log Periodic Antenna" cd. in 57 ds. for \$1.00. (Brouillette)
FRANCE: TDF 25775.1 e-mail reply w/ same info. as contained in replies to Kusalik and Barbour from Pierre Urcun in 6 ds. 400 watts. Transmitter is in **Rennes**. (D'Angelo-PA). p/d ltr. w/ explanation of broadcasts. Addr: TDF, Cesson-Sevigne, France. (Barbour-NH). **Radio France International 17850** form ltr., schedule, rpt. forms and stickers in 17 ds but no QSL for \$1.00. (Brouillette-IL). 11845, 15300 and 15605 p/d ltr. in 3 mo. w/ schedule. (Barto-CT). **Radio Great Jamahiriyah** 11635 and 11715 via **Issoundun** f/d cd. in 3 mo. (Barto) **GERMANY (East): Deutsche Welle** 9735 via **Nauen** f/d "DTK Nauen" cd. in 7 mo. (Barto-CT) **GERMANY (West): IBRA Radio** 9425 via **DTK Julich** f/d



SALAMA RADIO



8th February 2002.

Scott R, BARBOUR Jr
P O BOX 893
INTERVALE 03845
NH
USA

Dear Scott R

Thank you very much for listening to Salama Radio. We can confirm that you did tune in to Salama Radio broadcasting on the frequency you mentioned. We have been broadcasting at 12.025 MHz since December 2001, and until 31st March 2002, at 1900MHz UTC.

We have been on air since July 6th 2001, and we broadcast everyday in Hausa and English at present. Our programme is mainly Christian with about 30% of programs dedicated to moral issues, African folk songs and music.

Enclosed with this letter is a Salama Radio sticker with our new programme schedule. Do tell your family and friends about Salama Radio. We hope you will be able to tune into Salama Radio as often as you can. Please visit our website for more information about Salama Radio. Hopefully the new frequency change would be 15.250 MHz on the 19 MHz band from the 1st of April. Please listen on the radio for the new frequency change in March when it will be announced. We appreciate your support and we hope that you find the program interesting.

Thank you once again for tuning in to Salama Radio.

God Bless

Dr Jacob Abdalla
Chairman, Salama Radio.

"Embroidery from Hong Kong" cd. w/ site in 215 ds. for 1 IRC. Note on cd. says the transmission is targeted for Afghanistan. (Barbour). 9405 f/d "Copper Artwork from Zaire" cd. in 82 ds. for 1 IRC. (Barbour). **Radio Free Afghanistan** 12140 via **Wertachtal** f/d cd. in 9 ds. v/s John Vodenik. (Craighead-KS). 9615 via **Biblis** f/d cd. in 9 ds (Craighead-KS). **Radio Free Iraq** 12030 via **Julich** f/d cd. in 3 wks. (Craighead). 13755 via **Lampertheim** f/d cd. in 3 wks. (Craighead-KS).

GREECE: **Voice of Greece** 12110 and 9420 f/d cd. in 6 wks. (Barto-CT). 12110 f/d cd. in 2 mo. (Barto). 9420, 17705 and 15630 f/d "Lefkas Beach" cd. in 5 wks. (Barto-CT). 9420 and 15630 f/d cd. w/ schedule in 5 wks. (Barto). **Radio Free Iraq** 9730 via **Kavala** f/d cd. in 1 mo. v/s John Vodenik. (Craighead). **Radio Station Makedonias** 9935 f/d "Castle Logo" QSL folder in 20 ds. for 1 IRC (returned). v/s Tatiana Tsioli. (Barbour-NH).

STATION NOTES: **Radio Bhutan** 5025 v/s Dorji Wangchuk, Station Engineer. Addr: P.O. Box 101, Thimphu, Bhutan. **La Voz de tu Conciencia** 6060 v/s Russ Stendal, General Manager. **Radio Oriental** 4781 v/s Luis Enrique Espin Espinoza, Gerente General. Addr: Avenida Jumandy 536, Tena, Ecuador. **Radio Tacna** 9505 v/s Ing. Alfonso Caceres, Gerente. **Radio L.T.C.** 5005 v/s Leoncio Zacarias Torres. **Radio UNAMSIL** 6137 v/s Mrs. Sheila Dallas, Station Manager and Executive Producer. Addr: UNAMSIL Headquarters, c/o Hotel Mammy Yok, P.O. Box 5, Freetown, Sierra Leone...via PLAY DX...Sam.

GUINEA: Radiodif-
* fusion Tele-
vision Guinee-
nne 7125 n/d e-
mail in 6 ds. via
Issa Conde, Direc-
teur de RTG. V/C #
221. (D'Angelo-PA).

HAWAII: **Que Huong Radio**
9730 via **KWHR** f/d cd. in 2 wks. v/s
Nguyen Khoi. (Craighead)...I previous-
ly listed this under Clandestine....
at least I got it in and didn't lose
it on the floor...Sam.

HUNGARY: **Radio Budapest** 9560 f/d "Buda-
pest" cd. w/ station seal in 205 ds.
for 1 IRC. This after a f/up rpt. and
a station apology. (Barbour-NH).

MALI: **China Radio International** 13685 &
17880 I/d "Mount Lushan, Jiangxi" cd.
in 7 wks. (Barto).

MEXICO: **XEQM Radio Onda Corta** 6105 f/d
cd. w/ brochures and stickers in 3
mo. (Barto). 6105.1 station QSLed a



Radio Tirana, Tirana, Albania

Dear Scott, we are
pleased to confirm that you have
heard Radio Tirana on 6145 kHz,
date 05/05/82

Your valuable opinions on our pro-
grammes will always be appreciated.

Yours sincerely

Radio Tirana International 03845

Correspondence Section



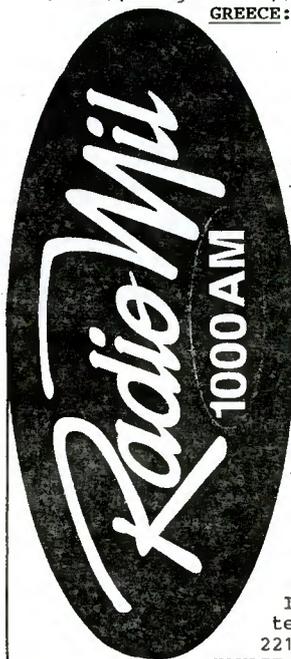
RADIO TIRANA
TIRANA - ALBANIA

Scott R. Barbour Jr

P.O. Box 893

Intervale N.H

USA



ALBANIA

via Barbour



Radio Tirana



92 reception when they used the slogan **Radio Yucatan**. v/s Ing. Bernardo Laris Rodriguez, Director General. (Barto-CT).

NEW ZEALAND: Radio New Zealand International 11675

f/d "Royal Albatross" cd. w/ verie stamp, schedule and a ton of station stickers in 301 ds. for 2 IRCs. I actually gave up on this one. (Barbour-NH).

NEWFOUNDLAND: CKZN CBC Radio One 6160 f/d "CBC Newfoundland and Labrador" folder cd. in 2 mo. w/ sticker, station info. and schedule for other area stations. v/s Keith Durnford.(Barto-CT).

PORTUGAL: Deutsche Welle 12000 cd. in 2 mo. (Barto-CT).

SEYCHELLES: Voice of Forgiveness 15535 via FEBA rcvd. e-mail reply in 1 day from Annie Hall. My rpt was sent to Webmaster@arabicradio.org

STATION NOTES: Radio Difisora Roraima 4875 Addr: Avenida

Capitao ene Garcez 860, Sao Francisco, Boa Vista

Roraima, Brasil. **Radio Clube do Para 4885**

v/s Camilo Centeno, Diretor Geral. Addr:

Avenida Almirante Barroso 2190 1 Andar,

CEP 66095-000 Belem, Para, Brasil. **Radio**

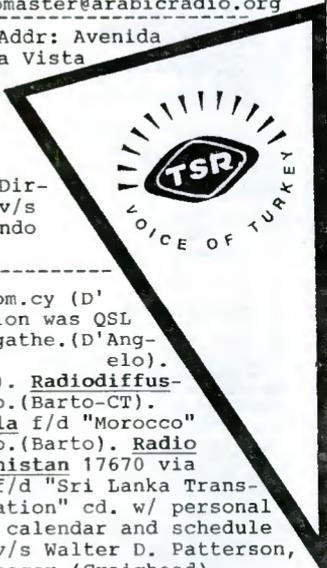
Cultura Foz de Iguacu / Radio Filadelfia

6105 v/s Pastor Isaack de Jesus, Program Director.

Radio Tupi / Radio Universo 11765 v/s

Douglas Santana. **Radio Yura 4716 v/s Rolando**

Cueto.....via **PLAY DX**.....Sam.



while the reply came from ahall@cytanet.com.cy (D' Angelo-PA). My rpt. for the VOF transmission was QSL wd by FEBA w/ cd. in 45 ds. v/s Doreen Dugathe.(D'Ang-

SPANISH MOROCCO: Radio Free Afghanistan 9865 elo).

via **Briech f/d cd. in 1 mo. (Craighead-KS). Radiodiffusion**

Televisione Marocaine 7185 cd. in 3 mo.(Barto-CT).

SRI LANKA: Voice of America 9720 via Iranawila f/d "Morocco"

cd. in 2 mo.(Barto). **Radio**

Free Afghanistan 17670 via

Iranawila f/d "Sri Lanka Trans-

mitting Station" cd. w/ personal

ltr., wall calendar and schedule

in 6 wks. v/s Walter D. Patterson,

Station Manager.(Craighead).

SYRIA: Radio Damascus 13610 f/d "Logo"

cd. w/ sticker, newspaper and sched-

ule in 259 ds. for 1 IRC.(Barbour-NH).

TAIWAN: Radio Taipei International 7445

and 11985 f/d "Bowl with Docor of Peo-

nies" cd. w/ schedule and 3 stickers

in 2 mo.(Barto). **Voice of Asia 7445**

via **Radio Taipei International QSL cd.**

w/ 2 zodiak cds. ROC flag sticker and

June schedule in 679 ds.(Glotzbach).

THAILAND: Radio Free Afghanistan 17685

via **Udorn f/d cd. in 3 wks.(Craighead)**

BBC Asia Relay Station 11955 via Nak-

hon f/d "Transmitter Site" cd. in 28

ds. v/s Miss Puangtip O. Addr: P.O.

Box 20, Muang, Nakhon Sawan 60000,

Thailand.(D'Angelo-PA).

TURKEY: Voice of Turkey 11655 f/d "Flow-

ers" cd. in 45 ds. Rcvd. a 2nd QSL cd.

3 ds. later for the same rpt. Stamps

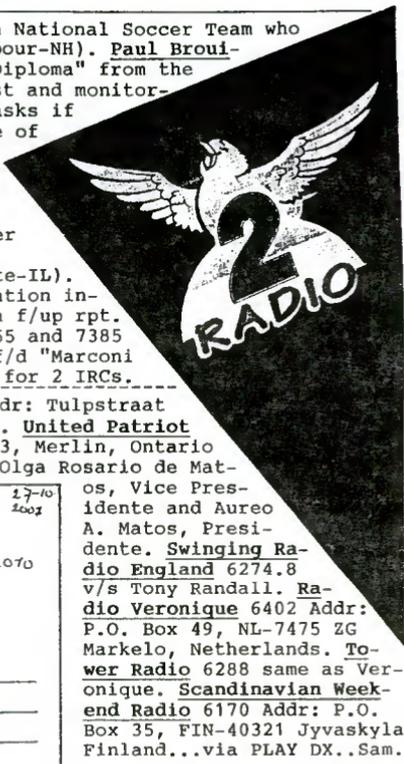


on the envelope featured the Turkish National Soccer Team who finished 3rd in the World Cup. (Barbour-NH). Paul Brouillette reports that he received a "Diploma" from the Voice of Turkey for his high interest and monitoring contributions. It was #170. He asks if any other NASWA members received one of these...Sam.

UKRAINE: Radio Ukraine International
12040 f/d "Ukrainian Scenes" cd. in 73 ds. for 1 IRC. I also received a very nice handwritten personal letter from Vira Maliy, Co-Producer of the cultural program "Roots".(Brouillette-IL).

USA: WTJC 9370 f/d oversized cd. w/ station information in 10 ds. This was after a f/up rpt. * (Bishop-FL). European DX Council 9955 and 7385 via WRMI Radio Miami International f/d "Marconi Centennial Broadcast" cd. in 3 wks. for 2 IRCs.

STATION NOTES: West Coast Radio 6400 Addr: Tulpstraat 10a, NL-2223 HS Katwijk, Netherlands. **United Patriot Militia Radio 6955** Addr: P.O. Box 293, Merlin, Ontario N09 1W0, Canada. **WGIT 1660 v/s Mrs. Olga Rosario** de Mat-



Verification QSL Mike Radio
P.O. Box 33 0093 K X - 43
0090-43 WEZEP The Netherlands

WWW.MH548.COM RAISED 17-10
2003

TO: Richard d'Angelis
PA/USA

Ingrid Rls-Shoro

Local Date: 7-10-2001

UTC Time: 05^h 06^m 02^s

TO: _____

Frequency kHz: 9290

S _____
I _____
N power/modulation
P _____
O _____

Remarks: Thanks for sending your reception report. Transmitter Rohde & Schwarz (tubes). Max output power used (MEP): 750 Watt. Antenna: Inverted V. - top 10 mtr. *Mike*

os, Vice Presidente and Aureo A. Matos, Presidente. Swinging Radio England 6274.8 v/s Tony Randall. Radio Veronique 6402 Addr: P.O. Box 49, NL-7475 ZG Markelo, Netherlands. Tower Radio 6288 same as Veronique. Scandinavian Weekend Radio 6170 Addr: P.O. Box 35, FIN-40321 Jyväskylä, Finland...via PLAY DX..Sam.

(Loudell-DE). Pirating w/ Cumbre 5745 via WHRI f/d "Pirate Ship" cd. w/ site and info. sheet in 6 ds. and \$1.00 to the Stoneham, MA address. v/s Chris Lobdell. (Barbour-NH). * WBOH 5920 Fundamental Broadcasting Network f/d QSL ltr. w/ religious material in 11 ds. for SASE (used). v/s A. Robinson who says QSL cds. will be available when the station is fully operational. (Barbour-NH). **USA (Pirates): Shadow Radio 6950** n/d e-mail reply in 2 ds. for a rpt. to theshadow6950@hotmail.com (Barbour-NH). WMOE 6955 f/d "Stooges" cd. in 22 mos. for 3 ms. (Bishop-FL). Voice of the Abnormal 6955 f/d "Computer generated Marijuana Leaves / Joint" sheet in 111 ds. for \$1.00 v/s Guy Paganus. Use the Elkhorn.

To: Samuel Barto

KJPM Official QSL #558

This is to confirm and verify your report of reception of KJPM which you received on December 30, beginning at a time of 02:52 UTC. On a frequency of 6925 kHz.

Your continued reports are of great interest. And your further comments are much appreciated!

73's
MAX!
Alan Maxwell



More Power from the Tower

LASER *Hot Hits*

Nebraska maildrop. (Wilkins-MO). Radio Azteca 6955 via WHYP (?) f/d orange cd. w/ paper pennant and a cd. for the "Knifeman", Chuck Bowen. This for \$1.00 and SASE to the Belfast, NY maildrop. (Barbour-NH).

UZBEKISTAN: Radio Nederland 12065 via Tashkent f/d cd.

in 25 ds. (Glotzbach). Radio Vatican 12065 via Tashkent p/d cd. in 2 mo. Site not listed but I listed it in my rpt. and they said "OK". (Craig-

VATICAN: Voice of Charity 11735 short ltr. from Father Fadi Tabet head). * who signed and stamped my prepared cd. in 39 ds. for \$1.00. Addr: P.O. Box 850, Juniyah, Lebanon. Radio Vatican 21850 and 15595 f/d cd. in 2 mo. (Barto-CT). same freqs w/ f/d "Satellite Disk" cd. in 5 wks. (Barto)

VIETNAM: Voice of Vietnam 5035 via Xuan Mai f/d "Map" cd. w/o site in 236 ds. Also rcvd. paper flag, schedule, frequency list and program guide. (D'Angelo-PA).

We also have the following....

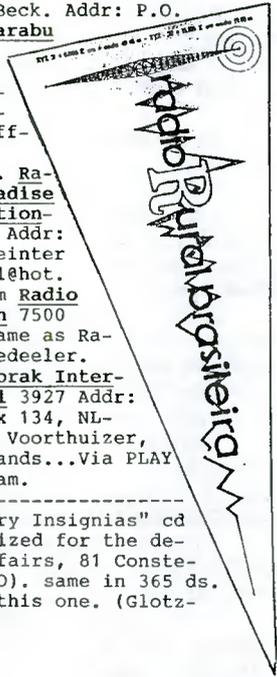
INTERNATIONAL AIRWAVES: Commando Solo II 8700 in the Afghan Theater of

STATION NOTES: Radio Likedeeler 6305 v/s Bernard Beck. Addr: P.O. Box 73, NL-7160 AB Neede, Netherlands. Radio Marabu

6210 Addr: P.O. Box 1166, DE-49187 Belm, Germany. Radio Neptune 6950 v/s Joe Mack. Addr:

P.O. Box 109, Blue Ridge, PA 17214. Radio Nord-
see International 6210 Addr: P.O. Box 2209, DE-

77612 Off-
enburg, Germany. Radio Paradise International 6305 Addr: paradisainter national@hotmail.com Radio Spaceman 7500 Addr: same as Radio Likedeeler. Radio Korak International 3927 Addr: P.O. Box 134, NL-3780 BC Voorthuizer, Netherlands...Via PLAY DX....Sam.



Radio Mil • XE01
Aduardo Postal 21-1000
64021 Tlalisco, D.F.
A.E. XICO

Estimado Willshaw

Por medio de la presente acusamos recibo de su informe de recepcion correcta del dia

... con un valor SINPO de ... correspondiente a nuestra emision de las ... a las ... horas UTC, en la frecuencia de los ... MHz, banda de ... m

Recibiremos con gran interes y agrado nuevos informes de recepcion y comentarios sobre nuestras emisiones que Ud. nos enviara mas tarde luego.

Radio Mil



M E X I C O

Operations (presumed) w/ n/d "Eagle and Military Insignias" cd in 304 ds. for 3 ms. A handwritten note apologized for the delay. Addr: 193rd SOW, Attn: Chief of Public Affairs, 81 Constellation Court, Middletown, PA 17057 (Wilkins-MO). same in 365 ds. w/ QSL cd. and station sticker. Very proud of this one. (Glotzback-NM).

MORE POWER FROM THE TOWER



This seems like a good place to end this months column. I must say that there were some great QSLs this time around. See you in 2003...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 Winter season is upon us. If you haven't already picked up your Passport to World Band Radio, do. There are a number of interesting feature articles in the 2003 edition.

Radio New Zealand International

Radio New Zealand

International has a second source of audio on the net. In addition to the widely-known audionet.co.nz, RNZI's audio-on-demand is carried on XtraMSN (yes, Microsoft's New Zealand portal). The audio quality is good. Pay attention to the extra commas and punctuation herein -- xtramsn.co.nz/musicandvideo/0,,6151,,00.html -- and there is video from TV3.

As an aside, are you interested in sailing? Unlike the stateside portals, XtraMSN also carries a section on Team New Zealand and the Americas Cup Race (xtramsn.co.nz/teamnewzealand).

Schedules

Questions have come up on sources of summary broadcast schedules available on the Internet. We've checked, and the best ones in our opinion are the following.

Mark Fine's offerings come in various flavors. I like the Java-enabled browser. Take your pick: www.fineware-swl.com/schedules.

John Figliozzi, ANARC, and NASWA have a program-oriented listing at anarc.org/naswa/swlguide.

Tomas Hood, NW7US, is expanding his amateur radio and propagation site to include shortwave at a rate faster than I can keep up with it. Fast search engines manipulate HFCC data. Check out the goodies at shortwave.hfradio.org.

All of these resources are free. We cannot recommend Bernd Friedewald's ILG service. Numerous newsgroup and mailing list complaints fall into two categories:

(1) failure to respond in a timely manner to requests for passcode access, and (2) broadcast data is very slow to be updated at the time of seasonal changes. Please research this for yourself.

FCC site access

John Neuhaus, WA2JXE, has compiled an unofficial FCC document locator Web site that purports to be easier to use than the agency's own pages. Strictly text, the site loads very quickly and may just be the answer to finding that piece of information you are looking for. Further, Neuhaus has a spectrum allocation chart and table that is a breeze to use, and numerous CFRs (Code of Federal Regulations) and links to third-party frequency charts and lists. Almost all of this is for the USA, but there are a few references for the rest of the world. It looks like this Web site should answer the incessant questions in the newsgroups of who operates on what frequency ranges. Check out www.jneuhaus.com for yourself.

Aussie's R&C bye-bye?

It's now been more than a year since I last wrote a "Baudwalking" column for the Australian Radio and Communications magazine. Chris Edmondson disappeared from sight under a mountain of debt and the business manager, Trent Sampson, attempted to get the magazine restarted. One issue was published in late summer 2002, but that's been it. I can only suggest you watch the new Web site www.radiomag.com.au for developments. Bob Padula's EDXP newsletter may also have some news from time to time.

Seasons Greetings and Happy 2003!

Pirate Radio Report

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

Hello and welcome to the December 2002 **Pirate Radio Report!** Happy Hanukkah, Merry Christmas and Happy New Year to all. Lots of stuff to bring you up to date on, so let's get right to it!

Steve Anderson, Operator of *KSMR, United Patriot Radio* apprehended!

You knew it had to happen sooner or later. Here is the info as reported in the *Courier-Journal* newspaper based in Louisville, KY.

Steve Anderson, a white supremacist who operated an illegal radio station from his home in Pulaski County, KY was arrested in the mountains of southwestern North Carolina on October 22nd, 2002 by the ATF and the North Carolina State Bureau of Investigation, acting on a tip received from the America's Most Wanted TV program. Anderson had been on the loose since October 14th, 2001 when he opened fire on a sheriff's deputy when he was stopped for a traffic violation.

Readers of this column will remember his radio station *KSMR/Kentucky State Militia Radio*, later changed to *UPR/United Patriot Radio* which operated from February until October of 2001. Is failure to OSL a federal offense?

Lots of logs, so let's get to 'em!

Many thanks to Ralph Brandi-NJ, Ross Comeau-MA, Rich D'Angelo-PA, Bill Winkins-MO and Joe Wood-TN.

Betty Boo Radio, a Halloween station was noted on October 25th at 0105 UTC on 6925 kHz, AM mode with good signals in TN. Announcer Kiel Ovrandy presenting the Halloween show. Uses the interval signal of "Boop Boop de Boop" followed by a pipe organ fanfare. Songs included "I'm The Bogeyman", "Skeleton In The Closet" and others. Uses Box 28413, Providence, RI 02908 as a maildrop. [Wood- TN]

KIPM, Alan Maxwell's "Illumati" Station was noted on October 27th at 0231 with a scary story, announcing the Elkhorn, NE maildrop. [Box 69, Elkhorn, NE 68022].

Melvin Malfunction Radio [tentative]. Heard on October 31st on 6950 kHz USB at 0318 by 0320 UTC. Just heard a possible ID and unreadable email address, then gone into the mud. [Wood-TN]

Radio Azteca, logged on October 18th at 0039 on 6952 kHz AM discussing a list of possible new names for the station. Reception was very good. [Wilkins-MO]

Radio Casanova, the Dutch Europirate, was heard from 2214-2226 in Dutch & English with IDs and pop music programming on 6260 kHz on November 15th. [Comeau-Maine DXpedition]

Radio Skyline, another Europirate was logged on November 17th at 0716 playing the instrumental "Popcorn" and other disco mx on 6298.8 kHz. [Comeau-Maine DXpedition]

ROZ/Radio Omroep Zuid, the Dutch Europirate was logged on 21890 kHz October 27th at 1420 UTC past 1510 playing pop music, giving IDs and an e-mail address. [Brandi-NJ]

Voice Of The Abnormal was noted with their Yukon Jack Halloween special On October 26th at 0042 UTC on 6952.5 kHz USB. [Wilkins-MO]

WHYP, logged on October 31st at 0238 with poor reception on 6950 kHz USB with their Halloween program. Mentions of Mt. Kisco and JTA. [Wood-TN]

WJFK, Noted here while typing this column on 6953 kHz USB at 0037 UTC on 29 November with "Abraham, Martin and John" by Dion, "Sunny" by Bobby Hebb. WJFK ID by man several times at 0046 s/off. This station only operates on or near the anniversary of JFK's assassination.

WMOE, noted on October 18th at 0005 UTC with pop music on 6955 kHz AM. Fair to good reception. [Wilkins-MO]

WMPR, noted on 6955 kHz at 0110 UTC on November 17th. Not the usual techno-pop music they usually play. Also logged on Nov. 8th at 2332 UTC. [Wood-TN]

Unidentified. 27105 kHz, noted from 0205 to 0245 s/off and from 2335-2342 UTC on November 8th. Most of the music was c&w influenced gospel type music. The transmitter seemed to switch off between songs. Does anyone have any ideas on the ID of this station? [Joe Wood, 124 Brittany Dr., Gray, TN 37615]

Until next month, Happy Pirate DX! 

Contributors' Page

Bob Montgomery • P.O. Box 1458 • Levittown, PA 19058 • RMonty3@worldnet.att.net

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER , Mechanicsburg, PA	NRD-545 AOR AR-7030 100' LW
Scott BARBOUR , Intervale, NH	ATS 818, RS antenna system
John BEATTIE , Ventura, CA	no equipment listed
Jerry BERG , Lexington, MA	R8A 165' LW
Ralph BRANDI , Tinton Falls, NJ	AOR7030, R8, 250' longwire
Paul BROUILLETTE , Geneva, IL	Drake R8, ICF2010, 60' long wire
Rich D'ANGELO , Wyomissing, PA	Drake R8B, Lowe HF-150, DX Sloper
Jill DYBKA , Kingston Springs, TN	DX-440, G5RV
Kris FIELD , Horsham, PA	Drake R8, long wire
Mark FINE , Remington, VA	Drake R8A, 150' longwire
Bob FRASER , Cohasset, MA	Sony ICF-2003 ICF-sw100s 2m LW
Joe HANLON , Phila, PA	SW8, EMF ant., ICF-sw7600G w/active ant.
Fred KOHLBRENNER , Lansdowne, PA	Drake R8
Jerry LINEBACK , Scranton, KS	Icom 746 beverage antennas
George MAROTI , Mt. Kisco, NY	R8B, 2010, 30/45 m. dipoles
William McGUIRE , Cheverly, MD	DX-380
Bob MONTGOMERY , Levittown, PA	NRD535D, R390A, RX320, HF150, SE3, active antenna
Ed NEWBURY , Kimball, NE	WJ-1000, R8, 60' sloper, 20' loop
Tim O'HARE , Spokane, WA	R8, SPR-4, 2010, 66' Windom, 25' whip
Juan V. SALINAS , San Antonio, TX	Drake SW8, built telescopic whip
Nobuo TAKENO , Kawasaki, JAPAN	NRD-535D with 10 m wire
Tom WILLIAMSON , Peterborough, ONT	HF-225, R-1000, 60 m. Delta loop, 80' inverted v
Steven WISEBLOOD , Brownsville, TX	DX160, 100' long wire
Joe WOOD , Gray, TN	DX-390, Grundig Mini 100 PE, whip antenna

Nice turn out this month. Lots of good DX catches even with such poor conditions this month. I am certain conditions will improve this month. Hard to believe but the end of another year. Not sure where it went. Merry Christmas and a very Happy New Year!

73

Bob Montgomery



Tropical Band Loggings

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

Deadline to the Distribution Editor is the 10th. Deadlines to TropLogs@zerobeat.org are December 22 and January 26.

- 2310 AUSTRALIA ABC 1207 EE pops //2325 & 2485, both very poor 10/26.(Lineback-KS)
- 3220 NEW GUINEA R.Morobe 1143 EE pops, poor 10/20.(Lineback-KS) 1130-1203* M in EE w/mx px featuring pop tunes, C&W and island music. Announcements about tomorrow's events. Off with news 1200, followed by ID and orchestra national anthem. Poor to fair 11/5. (D'Angelo/FCDX-PA)
- 3230 SOUTH AFRICA WYFR Meyerton 2054 EE tkl, mx, 2058 schedule info and ID. Fair 11/2. (Takeno-JPN)
- 3235 NEW BRITAIN R. West New Britain 1142 10/20, Vern singing, M in Vern, poor; still going with Vern pops at 1211 recheck. And 1157 10/26 M in Vern, very poor but no UTE. (Lineback-KS) 0859 ID, NBC nx, fair 11/2. (Takeno-JPN)
- 3250 HONDURAS R.Luz y Vida 0140 SS, lite pop mx, M w/comunicados, then rustic CAM style music, 10/19. (Brouillette-IL)
- 3260 NEW GUINEA R.Madang 1141 M in Vern, incls, poor 10/20. (Lineback-KS)
- 3266.5 SULAWESI RRI Gorontalo 1155 Indo pops, poor 10/26. (Lineback-KS)
- 3275 PAPUA R.Southern Highlands 1156 Vern pops, poor but still going at 1210 recheck, 10/26. (Lineback-KS) 1131-1213 island music, man w/ EE wx, TC and general chatter. Brief news 1200; back to music. Poor 11/5. (D'Angelo/FCDX-PA)
- 3279.55 ECUADOR LV del Napo 0820-0935+ tune-in to SS rel pgming. NA 0900, back to lcl rel pgming with choral mx. IDs at 0909 & into Andean mx. Good 10/12. A regular lately. Interesting they would play NA at 0900 even though they were not signing on or signing off. (Alexander-PA)
- 3290 GUYANA Vo Guyana 0322 EE; oldies w/Roy Orbison; the Platters; YL ID; wak but in the clear 10/25. (Barbour-NH) 3291.2 (TENT) EE 0200, bit of steel drum mx, other Caribbean mx; M anncr w/Caribbean accent. Very weak and noisy. Still no solid ID, but getting closer! 10/19 (Brouillette-IL) 3291.3 0155-0220 M EE, EE pops, ads, YL EE, reggae, poor 10/20; occ. fade, het. Also 0800 M EE ID, nx, followed by M speech in EE, fair 10/20. (Lineback-KS) 0200 YL with nx and SA music; very faint 10/19&23. (Wood-TN)
- 3315 ADMIRALTY IS R.Manus 1131 M in Vern, Vern pops, poor but still going at 1213 recheck, 10/20. (Lineback-KS)
- 3315 INDIA AIR Bhopal 0054-0118 f/o mix of Hindi vocals & M talk. Fair at tune in but slowly fading beginning at 0115, 11/4. (D'Angelo/FCDX-PA) (p) 0053 OM sings; poor 11/4. (Field/FCDX)
- 3325 KALIMANTAN RRI Palangkaraya 1215 M in Indo talk; over Guatamala, poor to fair 10/20. (Lineback-KS)
- 3326 NIGERIA R.Nigeria Lagos; 2047 mx & EE tkl. 2100 ID as Radio Nigeria Lagos, but Non IS of Drums. Audible-Fair 11/2. (Takeno-JPN)
- 3345 MOLUCCAS RRI Ternate 1158-1203 SCI into RRI nx a little late, poor 10/26. (Lineback-KS)
- 3345 NEW GUINEA R. Northern 1132-1202* YL in vern, vern pops, anmts and off w/GSTQ, no RRI, poor 10/20. (Lineback-KS)
- 3350 COSTA RICA REE 0223 SS pop vocals, good 10/20.(Lineback-KS) SS 0210 end of nx, ID, REE features. Solid S9+10 signal 10/19. Heard only occasionally, but can't be missed when it's there. (Brouillette-IL)
- 3360 GUATEMALA LV de Nahuala 0215 MSS t1k, TC, CAM style music. Weak and noisy 10/19. (Brouillette-IL)
- 3366 GHANA Ghana B.C. 2100 ID and EE nx. Good signal. Also heard it's spurs 3285.65kHz and 3346.35kHz, fair condx. 11/2 (Takeno-JPN)
- 3375 NEW GUINEA R. W. Highlands 1138 M in EE/Vern, Vern singing, poor 10/20.(Lineback-KS)
- 3905 NEW IRELAND RNI 1137 YL in Vern, Vern pops, poor 10/20. (Lineback-KS) 1155-1202* island music with M ancr w/ID, promo anmts and TC in English. Poor to fair after overcoming ARO QRM 11/5. (D'Angelo/FCDX-PA)
- 3955 U.K. R. Korea Int, Skelton, 2134 German talk, ID 2147, fair 11/2. (Takeno-JPN)
- 3976 KALIMANTAN RRI Pontianak 1206 RRI nx by M, poor 10/26. (Lineback-KS)
- 4000.1 SULAWESI RRI Kendari 1148 Oct 20, Indo pops, poor (Lineback-KS)

- 4388.9 **PERU R. Imperio** 1005-1025 w/live rel px M&W in responsive church service in SS, crowd noise; break for ID by M 1017, also mentions 92.1 FM in Chiclayo, then back into pgm. ann'd as "La Hora de Salvacion." 10/27. (Newman-IN) 4388.91 1006 rel sermon and vocals 1006. Fair 11/4. (Kohlbrenner FCDX/PA) 1012-1021 Nov 4, vocals, man with ID and TC. Fair to good 11/4. (D'Angelo/FCDX-PA)
- 4606.6 **IRIAN JAYA RRI Serui** 1147 Indo pops, poor rising to fair by 1227 recheck, 10/20. (Lineback-KS)
- 4753.3 **SULAWESI RRI Makassar** 1208 RRI nx by M, good 10/26. (Lineback-KS) 4753.38 2120-2130, Indo pops and chatter by M&W; 11/3. (Kohlbrenner FCDX/PA) 2130-2202 M long Indo talk till SCT, then Jakarta news. Fair level but deteriorating badly by top of the hour, 11/3. (D'Angelo/FCDX-PA)
- 4760 **LIBERIA ELWA** 2132 EE rel pxm with gospel music 11/4. (Kohlbrenner FCDX/PA) 2140 Christian hymns, W w/freqs, NA 2158; strong 11/4, (K Field FCDX 4 Nov 2002) 2104-2115 EE; M w/mx request program; ID, Ment of "Monrovia". Poor, weak 11/14. (Barbour-NH)
- 4760 **TAJIKISTAN Radio Liberty** 10/13 0124 talk in presumed Tajik, music @ 0130; // 9760 via Lampertheim, Germany, but about a half second behind; Dan Ferguson tells me this is 100 kW. (Brandi-NJ)
- 4780 **GUATEMALA Radio Cultural Coatan** 1057-1126 M hosting morning mx px w/frequent IDs and TCs. Fair with swisher QRM 11/4. (D'Angelo-PA) 4779v 1036-1058 M in SS tlk over organ mx; instl "There's no place like home"(?) 1054; then canned ID and freq anmt; more tlk over mx. Fair 10/30. (Barbour-NH) 4780.1 at 1221 rancheras, M in SS, fair fading to poor, swisher QRM 10/20. (Lineback-KS)
- 4781.36 **ECUADOR Radio Oriental** 1034 M SS ID, Andean vocals; 11/4. (Kohlbrenner FCDX/PA) 4781.38 10/31 1005 local music, a couple of IDs as "Oriental" @ 1008, more music; hit by the swooper, but not too badly (Brandi-NJ)
- 4790 **INDIA AIR Chennai** 0039-0045* caught final vocal Hindi selection prior to M ID & s/off anmts; fair to good signal 11/4. And *0000-0045* 11/5, s/on ID and anmts; then nx & mx. M w/ long talks in Tamil. (D'Angelo/FCDX-PA)
- 4800 **INDIA AIR Hyderabad** *0024-0100 flute IS; M&W singing, then M tlk in Hindi; sitar mx; M EE ID 0035: "This is All India Radio, the news."; then EE nx, return to vocals at 0040. Good signal 11/4. (D'Angelo, Field & Kohlbrenner/FCDX-PA)
- 4815 **ECUADOR R.El Buen Pastor**, good the last few mornings, carrier coming on arnd 0955, px starting at 1000 with NA, long HC instl selection, opening anmt in Quechua w/fqy and m.b., some SS after that but no SS ID as such noted; px cont with HC mx, anmts. (Berg-MA)
- 4820 **BOTSWANA Radio Botswana** 2138-2200* pop vocal program to ID and close down anmts. Fair 11/4. (D'Angelo/FCDX-PA)
- 4820 **CHINA Xizang PBS** 1143-1154 CC. M w/mx & tlk. Poor, unusable by 1154; 10/28. (Barbour-NH) 4820 CHINA (TIBET) Xizang PBS, 0005-0050 CC talk by M&W w/mx segments. Fair and clear reception until India commenced flute music IS at 0024; 11/4. (D'Angelo/FCDX-PA) 0010 OM & YL alternate in CC. Moderate signal. 0016 co-channel tx (p) from India, 11/4. (Field/FCDX-PA)
- 4820 **INDIA AIR Kolkata** *0024-0050 while listening to China surprised to hear flute IS poked through followed by group vocals and other Hindi musical selections. Generally poor with a few fair peaks but eventually faded under the Chinese station. 11/4. (D'Angelo/FCDX-PA)
- 4830 **VENEZUELA R. Tachira**, San Cristobal; 0253 - Very nice mx at tune in; Slight het from R. Litoral, 4832 but best in lsb. S10 signal level with slight fades. Continuous mx thru TOH. M ID 0302 and back to more fantastic mx. Excellent audio quality 11/9. (Montgomery-PA)
- 4832 **HONDURAS R. Lotoral**, La Ceiba; 0031 - Vy nice copy; Tent ID 0032 by W & back to mx. S7 levels with some fades but fairly clear reception of very nice mx. M SS ID again 0033. (Montgomery, PA)
- 4840 **INDIA AIR Mumbai** 0036-0043 W w/Hindi nx; ID and music program. Poor 11/5. (D'Angelo/FCDX-PA)
- 4845 **GUATEMALA R.Kekchi** 0250-0303* Rel pgming with talk in lcl lang. SS s/off anmts 0258 with call letters, R.Kekchi ID & mention of freq. s/off with NA. Fair 10/19. (Alexander-PA)
- 4845 **MAURITANIA Radio Mauritanie** 0410-0440 M non-stop AA talk complete with coughing to clear his throat when necessary. Running extended hours for Ramadan. Good 11/13. (D'Angelo-PA)
- 4860 **INDIA AIR Delhi** *0025-0038 caught flute music IS and vocals prior to EE ID & nx by M. Then female vocals selection. Fair 11/4. (D'Angelo/FCDX-PA) (p). 0023 Flute mx same as //4820; 11/4. (Field/FCDX) 1230 time pips into EE nx by YL, vy pr //4760 vy pr, and 4920 under China; 10/20. (Lineback-KS) 0056 - ID is tent. with lots of Indian style mx. Nice copy, S6 lvls with fades and some static problems. But is audible. M anc TOH with short tlks & back to mx. Fade to mostly noise at 0112 with occ fade ups. 10/12. (Montgomery, PA)
- 4885 **BRAZIL Radío Clube Do Para** 0226-0235 OM animated PP tlk. Jingles/ads w/telephone ringing, Phone #, ID & fqy 0234. More tlk. Good 11/6. (Barbour-NH)
- 4890 **PAPUA Nat R** 1144 EE pops, fair to good 10/20. (Lineback-KS)

- 4895 SARAWAK *RM* 1255 lang pops, good 10/20. (Lineback-KS)
- 4904.9 CHINA? *unid* 1235-1243 M in lang speaking over classical instrumental, lang singing //4920, fair; 1301 OM in CC w/nx; 10/20. (Lineback-KS)
- 4915 BRAZIL *R. CBN Anhanguera* in PF 0215; M anc w/phone ins, TC's, ID; many ments of Goias. 10/9. (Brouillette-IL)
- 4915 GHANA *R. Ghana* Accra; 2023-2032 EE/Vern. Alt M&W EE w/nx re \$ aid to schools. ID as "R.Ghana" and "Ghana B.C." TC and into Vern. Very Good 11/14! (Barbour-NH)
- 4925 INDONESIA *RRI Jambi* *2155-2205 s/on w/fanfare mx, W anc w/several mentions of Jambi, M w/RRI Jambi ID; into SCI 2159, 11/4. (Kohlbrenner/FCDX-PA) 2156-2223 instl mx to local ID by W; then SCI 2159; into Jakarta news. Back to local program 2215 with vocal selection. Poor but clear, 11/4. (D'Angelo/FCDX-PA) 2152 weak signal, mx, tlk, SCI 2159. 11/4. (Field/FCDX-PA) 1238 Indo pops, poor-fair, fading, 10/26. (Lineback-KS)
- 4939.65 VENEZUELA *Radio Amazonas* 0923 SS vocals, ID & TC's. Fair 11/4. (Kohlbrenner/FCDX-PA) 4939.66 presumed. I wish they would do something about their audio. Carrier at *1000 is pretty good, but audio is way, way down there, basically unuseable. Opening anmt hrd 10/26 & other days, but can't make anything of it; then mx. (Berg-MA) 4940 VENEZUELA *R.Amazonas* 0845-0904 10/23 SS, choral mx and ballads. M ID at 0903, signal dropped off at this point; antenna switch? Fair-poor 10/23. (Scott R Barbour Jr NH)
- 4950h USA *WHKT* Portsmouth VA (x3) 2032 poss 3rd harmonic w/ Radio Disney programming. Harmonic is intermittent, but clearer than the original on 1650 when present - enough to block VOA Sao Tome; 11/10. (Fine-VA)
- 4959.8 DOMINICAN REP *R. Villa / Cima Cien*, SS 0230, bachata mx, liquor ads complete w/"alcohol is bad for your health" disclaimer, ad for a local news magazine. Jingle ID's for "Radio Cima Cien." Very solid signal and punchy audio; 10/9. (Brouillette-IL) Radio Cima at 0017 with almost non-stop music, slick "Cima" IDs sung by WL 10/28. (Dybka-TN)
- 4960 ECUADOR *R.Federacion* 1033-1055 lively vocal Andean mx, really nice sig and audio, M anc in vern (Shuar?) 10/27 (Newman-IN)
- 4965 ZAMBIA *Christian Voice* 2136-2142 Afr rel vcls, M EE ID 2142. (Kohlbrenner/FCDX-PA) Voice International, 2142-2210 instl mx; W EE ID & features about friendship. Nx at 2200. Poor to fair 11/4. (D'Angelo/FCDX-PA)
- 4976 UGANDA *R.Uganda* Kampala 2033-2101* cont hi-life mx in Vern. (Swahili?) w/W tlk and IDs during mx. Presumed production credits at 2052 by M, names and "Engineer" ment. NA at s/off. Very good, clear signal 11/14! (Scott R Barbour Jr-NH)
- 4980 VENEZUELA *Ecos del Torbes* SS 0245 very old romantic songs, canned ID's as "Esta noche recuerdas. Unas predilectas de la cancion romantica de ayer por Ecos del Torbes." Strong, but bad hum; 10/9. (Brouillette-IL)
- 5005 NEPAL *Radio Nepal* 0040-0050 presumed the one here with lcl mx, W anc 0045. Poor 11/5. (Kohlbrenner FCDX/PA)
- 5009.6 PERU *Radio Altura* 0930 Andean vcls, ad string, several ID's. Poor 11/4. (Kohlbrenner FCDX/PA) 1002-1025 lot's of lively OA vcls hosted by a man with frequent TCs and IDs. Fair 11/4. (D'Angelo/FCDX-PA)
- 5010 INDIA *AIR Thiruvananthapuram* 0058-0132 long Hindi talk by M; mx & tlkw by W. ID 0130, then nx. Good 11/5. (D'Angelo/FCDX-PA) (p) 0051 YL sings, sitar & other IN instruments; excelent 11/4. (Field/FCDX-PA)
- 5015 TURKMENISTAN *R.Bakhara* presumed 0055-0110 local AA sounding vcls & instls, five "bells" at 0100 with talk in presumed Turkman but no ID heard. 11/5. (Kohlbrenner FCDX/PA)
- 5025 UZBEKISTAN *R. Tashkent* Surprised to run across this one at 2145, C.Asian female vocalizing, then EE talk about diplomatic relations, brief closing anmt at 2157 ending with "... goodbye everyone from R. Tashkent." Carrier stayed on until 2159. Not a bad signal 10/19. (Berg-MA)
- 5030 BURKINA FASO *Radio Burkina* 10/13 2135 Radio drama in French, ending with gunshots and a murder, credits, then African music from 2145, ID @ 2153 and again @ 2200 (Brandi-NJ) 2220 FF, Afro pop and reggae. Rather weak & noisy 10/15. (Brouillette-IL)
- 5035.1 BRAZIL *R. Aparecida* 2330 PP, lite orch music, "Ave Maria", We anc w/poor studio audio. Ments of Aparecida. 10/12. (Brouillette-IL)
- 5040 INDIA *AIR Jeypore* 0051-0058 nice selection of Hindi vocals w/M anc. Fair 11/4. (D'Angelo/FCDX-PA) (p) 0052 IN mx. Moderate 11/4. (Field/FCDX-PA)
- 5085 USA *WWRB* 0219 Tom Valentine stuff, ads for gold investments also //5050 (10/28 Dybka-TN)

- 5100 **LIBERIA R. Liberia Intern.** Monrovia; 2310 - S8 carrier level noted and some very weak audio. First time hrd in some time now due to war in Liberia. Carrier first noted at 2245 but no audio till 2310 or so. Modulation at less than 10% at this time but improving as time goes by. Audio improving by 2325 but still very weak. Id is tentative. 10/20. (Montgomery, PA)
- 5384.3 **PERU Radio Huarmaca** 1047-1056 fade out; group vocals px hosted by M ancr w/SS talk, TC and ID. Poor 11/4. (D'Angelo/FCDX-PA)
- 5469.96 **LIBERIA R. Veritas** from 2210 Nov 2 with Afropop & hi-life style mx, much talkover by M ancr, definite "R. Veritas, your . . ." at 2220. Building to arnd 2230, then leveled off. ID 2255, TC for 5 mins to 11, seeming rel msg (but very low audio), 2201 closing anmt and off without NA. Mx audio was better than voice, and signal was better in LSB than USB, though some ute QRM on the low side. Poor-fair overall 11/2. (Berg-MA) 2249-2302* gospel mx px w/occ comments over the music; prayer 2255, then closing anmts & ID. 11/3. (Kohlbrener/FCDX-PA) 2242-2303* vcls w/M tlk over mentioning w/ID & TC: "voice of truth, Radio Veritas. it's 5 minutes to eleven." Fair to good signal. (D'Angelo/FCDX-PA) 2123-2137+ 11/03 EE. Rel. promos with mx. IDs, "Radio Veritas, your..(?)..station" and another at 2130 ment. "VO Hope". Program, "Time for Peace" re peace in Liberia and young people. Fair-poor, choppy, fading after 2137; 11/3. (Barbour-NH) 2251 OM singing. 2253 OM with eg ID "Radio Veritas Monrovia, Liberia, then M preaching in EE. 2258 the Our Father is recited. 2301 signal disappears suddenly. 11/3. (Field/FCDX-PA)
- 5486.75 **PERU Reina de la Selva** 1018-1032 rustic vcls, crowing roosters, ID's 1027 & 1031. Poor 11/4. (Kohlbrener FCDX/PA) 1023-1047 M ancr frequent IDs and TCs ("5 y 39 minutos de la mañana . Este es Reina de la Selva.) & SS chatter hosting program of OA music. Weak but clear. Thanks to the ever alert Fred Kohlbrener for this one. 11/4 (D'Angelo/FCDX-PA)
- 5678 **PERU R. Ilucan** 0145-0245* SS talk, OA folk mx. ID. Anmts by M/W. Abrupt s/off. Weak 10/5. (Alexander-PA) 
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International Band Loggings

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

- 5930 **SLOVAKIA R Slovakia Int** in EG 0107, interviewing guest about Malta, g (Wood TN 10/19)
- 5975 **UZBEKISTAN R Tashkent** in EG 1220, Mideast style mx pgm, ID, //6025, 9715, f (Fine VA 11/9)
- 59967 **PERU R Melodia** Arequipa in SP 0850, continuous SP tlc, ID's, promos, ads, brief musical segments, poor reception (Alexander PA 10/26, Kohlbrenner FCDX/PA 10/26)
- 6005 **GERMANY Deutschland R** Berlin in GM 2350, techno mx bumpers, QRM Cuba, p (Dybka TN 10/28)
- 60109v **COLOMBIA LV de tu Conciencia** in SP 0815-1035, ID's, relig sermon, SP mx, ancmt that station now has their QSL's, difficult copy (Alexander PA, Brandi NJ, D'Angelo PA, Berg MA, Montgomery PA)
- 6040 **ROMANIA RRI Galbeni** in RM 0040, lots of great mx, long tlks, ID, fair until DW s/on in EG 0100 (Montgomery PA 11/6)
- 6050 **NIGERIA RN Ibadan** in EG 2104, nx re Nigerian Nat'l Assembly, ID (Barbour NH 10/29)
- 6085 **GERMANY Mitteldeutscher Rundfunk** Munich in GM 0100-0230, nx items, fire rptd on Paris-Munich train w/several dead, ID's, traffic rpt, current affairs, station scheduled to close down at end of year, (Montgomery PA 11/7, Brouillette IL 10/4, D'Angelo PA 10/16)
- 6150 **SINGAPORE R Singapore Int** in EG 1150, US pops, ID, poor but better on 9600 (Kohlbrenner 11/4)
- 6155 **UNITED KINGDOM R Telefis Eireann** relay in EG *0130, nx, sports, wx, traffic, xmsn started and ended at 0200 w/o any announcements, g (Wood TN 10/23)
- 6160 **CANADA CKZN** St Johns Newfoundland in EG 0826, NA, CBC ID, weekend AM pgm, nx, Air Laborador skeds, wx for Davis Inlet (Dybka TN10/20, Williamson ONT 10/23)
- 6165 **CHAD R Dif Nat** N'Djamena in FR 2159, mx sel prior to 2203 s/off, orch NA (D'Angelo FCDX 11/4)
- 6175 **CANADA V of Vietnam** relay in EG 0109, Vietnam endorses childrens' rights (Newbury NE 10/17)
- 6180 **BRAZIL RN da Amazonia** Brasilia in PT 2324, ID, lots of pgm info, lite QRM, g (Montgomery PA)
- 6185 **MEXICO R Educacion** in SP 0135, song abt Pancho Lopez sung to the tune of "Davey Crockett", ID in EG 0200, exc (O'Hare WA 11/9) in SP 0525, classical mx by Russian composer (Newbury NE 10/4)
- 61935 **PERU R Cuzco** in SP 0940, Latin American vocals, nice ID 0945 (Kohlbrenner FCDX-PA 11/4)
- 6195 **ALBANIA R Tirana** in EG 0347, nx, items re literature & Mother Teresa, ID, f (Wood TN 11/9)
- 6235 **RUSSIA VOR** St. Petersburg in EG 2105, nx to 2110, into classical mx (Berg MA 10/27)
- 6265 **ZAMBIA ZNBC** Lusaka in Vern *0243-0321, famous Fish Eagle IS, tribal vocals, drums, ID in EG, f (D'Angelo PA 10/14) in Vern 0250, IS, hymn, drums, rustic local mx (Brouillette IL 10/30)
- 6280nf **ITALY IRRS Amisnet News Agency** in FR/SP/EG *2059, pgm re European Social Forum in Florence FR ID 2101, into SP segment, EG ID 2117, E-mail addr, agenda, UN Radio nx, operatic mx, request reports, choral mx, choppy signal, s/off 2200 (Berg MA 11/9, Barbour NH 11/8)
- 6175usb **CANARY ISLANDS Full Gospel Las Palmas Church** in KR 2253, sermon, relig vocals, hymns, piano mx, RTTY QRM, xmsn aimed at KR fishermen (D'Angelo PA 11/15, Berg MA 11/1)
- 61896 **PERU LV de las Huarinas** in SP 0200, ancmts, OA folk mx, ID, promos, weak (Alexander PA 10/19)
- 68954 **PERU R San Miguel** in SP 0145-0230+, echo ancmts, ID, OA folk mx, ads, f (Alexander PA 10/6)
- 6940 **ETHIOPIA R Fana** in Amheric 0327, Horn of Africa mx, IS, tlc, nx, p. //6210 (D'Angelo FCDX 11/4)
- 6973 **ISRAEL Galei Zahal** in HB 0240-0359*, local pop mx, ID, tlks, g (Alexander PA, Brouillette IL)
- 7125 **GUINEA R Conakry** in FR 2258, Afro mx, ID, lcl nx, stinger mx (Montgomery PA, Brandi NJ 11/9)
- 7200 **RUSSIA R Sakha** Yakutsk in RS 0810, IS, R Rossii nx, upbeat ads, tlc, mx, pips, f (Berg MA 10/23)
- 7205nf **SOUTH AFRICA R Ecclesia** Angola relay via Meyerton in PT 1934-2000*, political tlc, field reports, Radio Nacional, Angola ID, classical piano mx until s/off, g (Barbour NH 11/6)
- 72103 **BENIN R Dif du Benin** Cotonou in FR 2248, western pop mx, phone requests, hilife vocals, ID 2259 and s/off ancmts prior to 2300 s/off, NA, ham QRM (D'Angelo PA 10/17, Brandi NJ 10/13)
- 7220 **GERMANY R Liberty** relay in RS 0031, nice jazz mx, IS, nx, ID, exc signal (Montgomery PA 11/11)
- 7245 **TAJIKISTAN RT** Dushanbe in Dari? *0100, tuning melody on marimba, ID, fgy, nx, occasional mx bridges, brief EG recording of Kofi Annan during nx, first time heard (Berg MA 10/22)
- 7255 **MOROCCO R Sawa** via VOA relay in AR/EG 0429, pop mx, ID's, concert promo (Barbour 10/15)
- 7290 **SÃO TOME VOA** relay in EG 0307, "Daybreak Africa", "VOA News Now" (D'Angelo PA 10/18)
- 7295 **MALAYSIA RTM Radio 4** Kuala Lumpur in EG 1057, instrum'l mx, pips, ID 1100, nx, item on terrorism in the Philippines, pop mx, promo (Kohlbrenner FCDX-PA, D'Angelo PA 11/4)

- 7300 **TURKEY V of Turkey** in TK 0210, local TK mx, ID, YL vocals, strong signal until WYFR splatter at 0229 spoiled mxsn (Montgomery PA 11/3)
- 7380 **RUSSIA R Marjja** via Samara relay in PL 2125, classical mx, tlks, g (Williamson ONT 10/23)
- 7400nf **RUSSIA R Marjja** via Armavir relay in PL 2117, YL ment Presidente and Poland several times, ID, classical piano mx, f-g (Barbour NH 11/10) ED: Apparently replacing 7380 for B02 season.
- 9435 **ISRAEL VO Israel** Tel Aviv in EG 0403, nx re Palestine and Iraq, pips, into FR 0415 (Dybka TN 10/6)
- 9515 **BRAZIL R Novas de Paz** Curitiba in PT 2350, vcls, ID's, TC's, relig preaching (D'Angelo PA 10/29, Williamson ONT 10/11)
- 95249 **INDONESIA V of Indonesia** in EG 2105*, nx, ID 2102, pgm sked, Love Ambon IS (D'Angelo 10/27)
- 9570 **ROMANIA RRI** in EG 2319, nx, tourist info, ID's, fqy ancmnt, s/off 2355, g (Wood TN 10/22)
- 9580 **BOSNIA R Yugoslavia** relay in Serbian *2330, IS, ID, fqys, pgm sked, folk mx, nx (Brouillette 10/27)
- 9580 **IRAN VOIRI** in EG 0046, nx re the IRA, dismantling and cease fire, political cmntry, Pres of Iran back home from trip to Spain, exc including audio quality (Montgomery PA 11/1)
- 9610 **IRAN VOIRI** Kamalabad in EG 0100, rpt on America's interest in Islam, //11970, g (Fraser MA 10/17)
- 9665 **MOROCCO R Sawa** via VOA relay in AR *0400, IS, ID, AR mx, tlks, song, g (McGuire MD 10/29)
- 9675 **ITALY RAI** Rome in EG 0100, tlk on dangers of tobacco use, nx, Italy's Interior Minister warns that Europe is prime target for terrorism (Wood TN 10/19, Newbury NE 10/17)
- 9705 **NIGER Le voix du Sahel** in FR 2133, nice Afro mx, nx?, clear ID 2200, g (Takeno JAPAN 11/2)
- 9750 **MALAYSIA V of Malaysia** in IN 1043, local ballad and instrum'ts, YL DJ, ID "Saura Malaysia", mentioned "Kuala Lumpur" (Barbour NH 11/13)
- 9760 **PHILIPPINES VOA** relay in EG 1540, "Education Report" in special EG on how to apply to a US university (Brouillette IL 10/31) in EG 1245, tlk on the Iraq situation (Newbury NE 10/6)
- 9770 **SRI LANKA SLBC** in EG 0032, nx, ID, pgm of old mx including the Beatles, Doris Day etc., fair reception until Deut Welle s/on at 0100 on 9765 (D'Angelo PA 11/16)
- 97796v **YEMEN Republic of Yemen Radio** in AR/EG 1803, ments of Europe and Sana'a, nx in EG re Iraq and GW Bush, Palestine govt. and RS hostage crisis, ID in EG 1841, cmntry, NA 1900, into AR, f-p (Barbour NH 10/29) US pop mx, EG nx 1841, ID, NA 1859, muddy audio (Alexander PA 11/2)
- 9840 **VIETNAM V of Vietnam** Hanoi in EG 1233, mx pgm at tune-in, by 1250 signal became inaudible, noted //12020 w/equal signal but slightly more audible, best hrd in LSB (Montgomery PA 10/13)
- 9875 **LITHUANIA R Vilnius** in EG 2342, health rpt, drugs & AIDS major problems, g (Fraser MA 10/16)
- 9925 **GERMANY V of Croatia** relay via Juelich in EG 0200, nx abt Croat armed forces, ID's in several langs, into CR 0215, vg (Wood TN 10/30) in EG 0011, kickboxing tournam't, ID (Newbury NE 10/28)
- 9965 **PALAU TBBZ Koror V of Hope** in CH 1239, continuous tlk over acoustic guitar, ballad, ID and new? call letters over upbeat instrum'l mx, f/o 1305, f-p (Barbour NH 11/14)
- 9990 **EGYPT R Cairo** in EG 2200, nx, western mx bridges, fairly clean audio but fades (Fraser MA 10/18)
- 11335 **NORTH KOREA V of Korea** Kujang in SP 2206, OM & YL w/nx, solid ID, f-g (Barbour NH 11/5)
- 11650 **AUSTRALIA RA** in EG 1533, tlk re expiration of Australian broadcasting regulations, //9580, 11660 (Brouillette IL 10/31)
- 11665 **RUSSIA V of Tatarstan** via Samara relay in Tataric 0458*, tlk, ID, ment "Tatarstan", opera-like mx at 0455 until s/off, NA? (Barbour NH 10/17)
- 11690 **JORDAN R Jordan** in EG 1700, "Jordan Weekly", nx, ID, rap mx, RTTY noise (Alexander PA 11/2) in EG 1550, call-in pgm, ID at 1600, nx, RTTY noise (O'Hare WA 10/21)
- 11690 **TURKEY V of Turkey** in SP *1730, nx, tlks, local mx, RTTY noise, s/off 1754 (Alexander PA 11/2)
- 11710 **NORTH KOREA V of Korea** Kujang in EG 1552, lite classical mx, ID, EG sked (Brouillette IL 10/31) in EG 1502, ID, NA, local nx by YL, garbled signal (Newbury NE 10/16)
- 11750 **MOLDAVIA V of Russia** relay in EG 0318, nx re ongoing theater hostage crisis (Dybka TN 10/26)
- 11770 **MEXICO R Mexico Int** in EG 2320, interview on East European folk mx, ID's, fqys in EG and SP, into DX pgm, poor modulation but strong signal (Brouillette IL 10/27)
- 11815 **BRAZIL R Brasil Central** Goiania in PT 0824, Latin American mx, jingle, ID (Takeno JAPAN 11/2)
- 11820 **PHILIPPINES R Veritas Asia** in IN *2300, ID, into Indo pgm, lite mx, relig tlks (Brouillette 10/26)
- 11830 **BRAZIL R Anhanguera** Goiania in PT 2309, nx, ID, tlks, ad string (D'Angelo PA, Brouillette IL)
- 11840 **GERMANY R Reveils** relay via Juelich in FR 1850, tlk, ballads, ID 1859, QRM splash from 11835, heard on Thursdays only (Barbour NH 11/7)
- 11845 **CYPRUS BBC** relay in RS *0200, Big Ben chimes, ID, tlks, s/off 0230 (Dybka TN 10/7)
- 11850 **GUAM KSDA Adventist World R** in EG *2128, ID, "Network 7", relig nx, g (Brouillette IL 10/26)
- 11900 **BULGARIA R Bulgaria** in EG 2105, nx, tlk of anti-inflation measures, p, QRM (Brouillette 10/26)
- 11910 **CHINA REF** Spain relay Xi'an in SP 1245, political nx, clear ID 1252, f (Barbour NH 10/24)

- 11915 **BRAZIL R Gaucha** Porto Alegre in PT 0850, tlk over mx, ID, call-ins, pips, vp (Barbour NH 11/6)
- 11920 **MOROCCO RTV Marocaine** in AR 0305, PSA w/sound of squealing tires, car crash, and emergency sirens, into fast-paced N African style mx, vg (Brouillette IL 10/22)
- 119558 **ANGOLA RN Angola** in PT 0139, long tlks, mx, fair sig w/fades, //4950 poor (Montgomery PA 11/8)
- 11960 **TURKEY V of Turkey** in EG 2200, nx, into pgm on Turkish history, s/off 2250, g (O'Hare WA 10/22)
- 11990 **FINLAND RF** in FN 0145-0157*, relig service, choral mx, ID, fqys, nx, NA, vg (Brouillette IL 10/22)
- 12005 **UNITED ARAB EMIRATES R Dubai** in EG/AR 03433, prayers, fqys in AR, ID (Dybka TN 10/6)
- 12060 **MADAGASCAR R Voice of Hope** relay in EG 0433, interview re Congo refugees, into Sudanese lang at 0456 (Dybka TN 10/6)
- 12080 **MADAGASCAR R Nederland** relay in EG *1430, nx w/items about Indonesia and China, several definite ID's, vg (Wood TN 11/8)
- 12140 **SRI LANKA VOA** relay in Dari 0045, ID, US pop mx, powerful signal w/flutter (Montgomery 10/30)
- 13630 **MALI China R Int** relay Bama^{ko} in EG 2114, nx, tlk on solar energy research, f (Muehling NH 10/26)
- 13645 **SWITZERLAND SRI** Sottens in EG 1934, "Newsnet", pgm re unusual artist (Dybka TN 10/6)
- 13655 **CANADA RCI** Sackville in EG 1500, nx re tainted lollipops, "Vinyl Cafe" pgm (Wood TN 11/8)
- 13695 **THAILAND NBS of Thailand** in EG 0030, ID, nx items, business opportunities for locals, phone no., annual book fair ancmts, sports tlk re Volvo golf tourn, wx rpt, IS, TC, NA (Montgomery PA 11/10)
- 13840 **ITALY IRRS** Milano in EG 0800-0831+, UN prgming, environmental nx re Greenpeace operations, pop mx, IRRS address, f, reduced carrier USB (Alexander PA 10/12)
- 15075 **INDIA AIR** Bangalore in HD *0314, IS, ID, ancmts, local mx, nx?, f-p audio (Montgomery PA 11/12)
- 15105 **RUSSIA V of Tatarstan** relay Samara in Tatar *0501, mx, tlks, ID's, ballads, p-f (Barbour NH 11/16)
- 15190 **ANTIGUA BBC** relay in EG 1510, rugby game-New Zealand vs UK, g (Wood TN 11/8)
- 15190 **PHILIPPINES R Pilipinas** in EG 1915, radio drama, ID, s/off amt 1928, vp (D'Angelo FCDX-PA)
- 15205 **GREECE R Sawa** via VOA relay in AR 0756, ID, into "Wind Beneath My Wings", vg (Dybka TN)
- 15265 **GERMANY R Africa Int** relay Juelich in EG 1840, tlks re food shortages and corrupt governments, ID fqys, QTH, g (Wood TN 10/13)
- 15295 **MALAYSIA V of Malaysia** Kajang in Malay/CH(t) 1007, tlk, pop ballads, ment Islam, ID 1029, into CH 1031, f-p with f/out during NH sunrise (Barbour NH 10/18)
- 15345 **MOROCCO RTV Marocaine** Nador in AR 2105, AR mx, apparent nx, vg S-9+ (Muehling NH 10/26)
- 15475v **ANTARCTICA R Nacional LRA36** in SP 2102, fading up to audible level during vocal sel, brief anmt short instrum^l mx segment, s/off w/ID 2106, o/c for 2 mins, p (D'Angelo PA 11/8)
- 15555 **IRAN VOIRI** Sirjan in JP *1300, usual fanfare at s/on, ID, into Qu'ran, nx, f-p, QRM from BBC in AR //15235 also f-p (Hanlon PA 10/13)
- 15640 **ISRAEL Kol Israel** Jerusalem in HB 2150, nice Israel pop mx w/DJ, few low key comments, pips, ID, FM fqys at TOH, into nx, vg (Brouillette IL 10/12)
- 157856 **ISRAEL Galei Zahal** Jerusalem in HB 0414, Israeli pop mx, tlks, weak signal (Alexander PA 11/2)
- 15820 **ARGENTINA R Continental** in SP 0100, tlks, mx breaks, ID's, soccer game, g (Alexander PA 10/20)
- 17510 **HAWAII KWHR** Naalehu in EG 0342, ID, QTH for sked, Bible Prophecy, p-f (D'Angelo PA 10/22)
- 17605 **FRANCE RFI** Issoudon in EG *1600, world nx, "Crosswords", pop mx, slow deep fades, //15605 (O'Hare WA 10/22, Fraser MA 10/14)
- 17630 **GABON Africa #1** Moyabi in FR 1533, futbol game Burkina Faso v. Mauritaine, xmsn terminated while match still in progress, g (Barbour NH 10/13)
- 17705 **USA Voice of Greece** relay via Delano, CA in GK 1700-2043, soccer match, GK mx, ID, website, nx Muehling NH 10/26, Dybka TN 10/6, McGuire MD 10/29)
- 17850 **FRANCE RFI** Issoudon in EG 1605, very detailed African nx pgm, ID's, p (Brouillette IL 10/31)
- 17860 **RWANDA Deut Welle** relay in GM 1900, ID, IS, rpt on hostages in Russia (McGuire MD 10/25)
- 17895 **MOROCCO VOA** relay in EG 1600, IS, ID, prgm sked, rpt on Chechnya, g (McGuire MD 10/25)
- 21455 **ECUADOR HCJB** Quito in EG 2150, "What Is Faith" series, low audio, //17660 (Fraser MA 10/18)
- 21590 **NETHERLANDS ANTILLES R Nederland** via Bonaire relay in EG 1930, pgm of African mx, 1939 version of "The Lion Sleeps Tonight", nx at 2000, strong signal (Muehling NH 10/26)
- 21630 **ASCENSION ISLAND R Telefis Eireann** relay in EG/Gaelic 1852, sports interview at t/in, insurance ads, into Gaelic 1856 (Dybka TN 10/27)
- 21660 **CHINA CNR-1** Xi'an in CH 1230-1300*, usual tlks, some pop mx, good signal strength but QRM on low side from Portugal at 21655 (Hanlon PA 10/13)
- 21700 **SPAIN REF** Noblejas in SP 1436, ezl/adult contemporary mx in SP, ID, f (Wood TN 10/26)

- 21730 **IRAN VOIRI** Sirjan in EG 1221, NA, ID, nx, tlks re Iraq, sports, fqys, postal address, love song, DJ talking re records just played, US mx from the 40's/50's, weak, poor modulation (Montgomery 10/13)
- 21790 **SRI LANKA Deut Welle** relay in GM 1202, xmsn to Asia, ment some GM cities, g (Hanton PA 11/8)
- 21840 **GERMANY Deut Welle** Wertachtel in EG 1600, nx, feature on Frankfurt book fair, discussion on Tibetan Buddhism, ID, nx, vg (Wood TN 10/21)

Clandestine, Tentative, Presumed, or Unknown

- 5935 **LATVIA(t) Laser Radio Riga(t)** in EG? 2048-2100*, Beatles mx, ancmts too weak to be understood, frequent ments of 5935 SW, postal address, URL, ment R Karolina-576, p-vp (Berg MA 10/27)
- 59699 **BRAZIL(t) R Itatiaia** in PT 2345, several ments of Itatiaia but no ID as such, tlk by 2 OM's, YL w/nx? fairly heavy QRM (Berg MA 10/10)
- 6035 **COLOMBIA(p) LV del Guaviare(p)** in SP 0030-0100, soccer match w/animated play-by-play and cmntry by 2 OM's, canned ID sounded like "Caracol", splatter from R Marti and 0100 s/on by Deut Welle swamped both of them out, p (Maroti NY 11/6)
- 6155 **INDIA(p) AIR Delhi(p)** in Urdu? 0100-0130, devotional type SC vocals for entire half-hour, brief tlk, USB+sync required, wiped out at 0130 by R Telefis Eireann s/on (Maroti NY 11/6)
- 6350 **CLANDESTINE V of Tigrey Revolution** Eritrea in Tigrigna *0357, IS, ID, anmts, nx, RTTY QRM, (D'Angelo PA 11/4)
- 6925 **UNIDENTIFIED** 0112-0119*, playing rock mx with a "devil" theme, abrupt s/off, p (D'Angelo 11/3)
- 7100 **CLANDESTINE VO Islamic Revolution** in Iraq (via Iran?) in AR? 0408-0421, end of NA?, OM tlking over mx, f-p with piercing QRM, jamming? (Barbour NH 11/5)
- 7205nf **SOUTH AFRICA(p) R Ecclesia** Angola(p) relay via SENTECH in PT 1915-1958*, political tlk, ments of Luanda and Angola but no ID, classical sel 1955, abruptly off 1958, f-g (Berg MA 10/26)
- 7245 **MAURITANIA(p) R Mauritanie** Nouakchott(p) in AR? 0820-0900, no ID hrd, AR singing, drums, few ancmts, in AR-sounding lang, male singing, g-f (Berg MA 10/26)
- 9565 **BRAZIL(p) R Tupi** Curitiba(p) in PT 0010-0032, lots of tlk and mx, "Christo" and "Maria", never any solid ID heard, g (Barbour NH 11/5)
- 11570 **CLANDESTINE IBC Tamil** via Novosibirsk, Russia relay in Tamil/EG *2356-0045, familiar xmtr test tones, instrum'l mx, ID, into EG 0045, QRM from R Marti, p (D'Angelo PA 10/25, Dybka TN 10/28)
- 11690 **CONGO(t) R Okapi** Kinshasa(p) in FR 0422-0502, continuous FR lang African vcls, possible ID over the mx, vp-f (D'Angelo FCDX-PA 11/4)
- 12070 **CLANDESTINE Hmong Lao Radio** Laos in lang 0132-0200*, pgm of traditional mx, brief tlk between selections, apparent ID and s/off ancmt 0159, IS of flute mx, p-f but in the clear (D'Angelo PA 11/15)
- 12115nf **CLANDESTINE V of Mesopotamia** relay via Samara, Russia(p) in Kurdish *1650-1735, Russian test tones until instrum'l mx opening, ID, s/on ancmts, regional vcls, f (D'Angelo PA 10/23)
- 12125 **CLANDESTINE V of Biafra Int'l** via Krasnodar, Russia relay in EG 1915-2000*, mostly tlk re Biafra and Nigeria, some mx, non-EG segment for a few mins, UTE QRM low side (Berg MA 11/2)
- 13695 **UNIDENTIFIED** Continuous mx 1709-1730 & 1847-1850 that could be Oriental or Arabic, no ancmts (Wood TN 11/10) ED: Most likely Radio Free Asia from Tinian Island relay in CH from 1500-2000.
- 13735 **UNITED ARAB EMIRATES(t) Radio UNMEE** via Al Dabbiya relay in Amheric?/EG *1857, mostly talk, occasional pop mx, hard to distinguish pgm details until 1945 when EG pgming started, improved signal by 1951, gave Asmara and Addis Ababa QTH's, discussion on the need to use care in going thru areas with mines and unexploded ordnance, good ID 1954 "That ends today's prgm from R UNMEE, the Voice of the United Nations Peacekeeping Mission in Ethiopia and Eritrea, brief lang tlk, then vocal mx to 2000* (Berg MA 10/11) ED: Great catch aired only on Fridays each week.
- 15275nf **CLANDESTINE Radio Solidarity Ethiopia** via Juelich, Germany relay *1600 in Tigrean, brief musical opening, ID, nx, flute mx, long tlk, vocal sel, off 1629* in mid-song, p-f, Wednesday and Saturdays only (D'Angelo PA 11/13)
- 15280 lsb **ARGENTINA(p) Radio La Plata(p)** in SP 2215-0005, futbol match, sports rpt, ment La Plata on few occasions, ID?, f (D'Angelo PA 11/3)
- 15670 **CLANDESTINE VO Democratic Eritrea** via DTK Juelich, Germany in Amheric 1728-1750, long tlks, with several ments "Sudan" and "Eritrea", native mx, ID 1730, vg, Mon-Thu only (Barbour NH 10/17)

English Schedules

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0000-0007		SLBS, Sierra Leone	3316.0do						
0000-0015		V. of Cambodia	11940.4as						
0000-0015		Radio Japan	6145.0na	13650.0as	17810.0as				
0000-0030		Radio Australia	9660.0pa	12080.0pa	15240.0pa	15415.0as	17580.0pa	17775.0as	
			17795.0pa	21725.0as					
0000-0030		Radio Cairo	9900.0am						
0000-0030		Sri Lanka B'casting Corp.	4940.0in						
0000-0030		Radio Thailand	9680.0af						
0000-0030		BBC World Service	3915.0as	5970.0as	5975.0ca	6195.0as	7105.0as	9410.0as	
			9825.0sa	11945.0as	11955.0as	12095.0sa	15280.0as	15310.0as	
			15360.0as	17615.0as	17790.0as				
0000-0300	twh	BBC World Service	17640.0eu						
0000-0030		VOA	7215.0as	9890.0as	11760.0as	15185.0as	15290.0as	17740.0as	
			17820.0as						
0000-0100	twhfa	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	13605.0as			
0000-0055		Radio Exterior de España	6055.0as						
0000-1000		Caribbean Beacon	6090.0am						
0000-0830		ABC Alice Springs	2310.0ir	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		R. for Peace Int'l	7445.1va	15038.7va					
0000-0200		HCBJ Quito Ecuador	9745.0na	21455.0uf					
0000-0500	a	Scandinavian Weekend R.	5980.0va	11720.0va					
0000-1000		Voice of Guyana	3291.3do	5949.4do					
0000-0130		Voice of Hope, Lebanon	6025.0as						
0000-0100		RTM Radio 4, Malaysia	7295.0do						
0000-0500		NBC Windhoek, Namibia	3270.1in	3290.1af	6060.0af				
0000-0125		Radio Netherlands	6165.0na	9845.0na					
0000-0500		Radio New Zealand Int'l	17675.0pa						
0000-0900		Nat'l BC, Papua NG	9675.0do	11880.0ir					
0000-1100		SBC Radio 1, Singapore	6150.0do						
0000-1100		SIBC Solomon Islands	5019.9do	9545.0do					
0000-1400		KAIJ Dallas TX	5755.0va						
0000-1800		KIMF Pinon NM	5835.0am						
0000-1600		KTBN Salt Lake City UT	7505.0na						
0000-0400		KWHR Naalehu HI	17510.0as						
0000-0400		University Network	9890.0as						
0000-0500		WBCQ Monticello ME	7415.0na	9335.0na					
0000-1000		WEWN Birmingham AL	5825.0na						
0000-0500		WHRA Greenbush ME	7580.0eu						
0000-1000		WHRI Noblesville IN	5745.0va	7315.0am					
0000-0200		WINB Red Lion PA	12159.9am						
0000-0300	sm	WRMI Miami FL	9955.0am						
0000-0300	twhfa	WRMI Miami FL	7385.0na						
0000-0300		WRNO New Orleans LA	7355.0va						
0000-0100		WSHB Cypress Creek SC	9430.0am	15285.0sa					
0000-0200	sm	WWBS Macon GA	11900.0uf						
0000-0500		WWCR Nashville TN	3210.0na	5070.0na	5935.0na	7465.0na			
0000-0600		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						
0005-0012		Croatian Radio, Zagreb	9925.0sa						
0015-0100		Radio Japan	6145.0na						
0030-0130		Radio Australia	9660.0pa	12080.0pa	15240.0pa	15415.0as	17580.0pa	17750.0as	
			17775.0as	17795.0pa	21725.0as				
			6015.0am	6135.0am	9580.0am				
0030-0130		VOIRI Teheran	7325.0na						
0030-0100		Radio Vilnius, Lithuania	12035.0as						
0030-0130	s	Bible Voice BC, Russia	4940.0in	6005.0as	6075.0as	9770.0as	15745.0as		
0030-0200	a	Sri Lanka B'casting Corp.	13695.0na						
0030-0100		Radio Thailand	6035.0as	6055.0as					
0030-0100		AWR Africa, UAE	9580.0as	17615.0as					
0030-0100		BBC English Teaching	5970.0as	5975.0ca	6195.0as	7105.0as	9410.0as	9825.0sa	
0030-0100		BBC World Service	11955.0as	12095.0sa	15280.0as	15310.0as	15360.0as	17790.0as	

0030-0100		VOA Special English	7215.0as 17820.0as	9890.0as	11760.0as	15185.0as	15290.0as	17740.0as
0045-0115		Radio Pakistan	11655.0as	15455.7as				
0050-0056		Int'l BC Tamil	7460.0as					
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		AWR Europe, Austria	9835.0me					
0100-0130	s	Universal Life, Germany	9435.0as					
0100-0130		Radio Slovakia Int'l	5930.0na	7230.0ca	9440.0sa			
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	
0100-0300		VOA	7200.0as	7255.0as	9850.0as	11705.0as	11820.0as	15250.0as
			15300.0as	17740.0as	17820.0as			
0100-0130	tw hfa	VOA	5995.0am	6130.0am	7405.0am	9455.0am	9775.0am	13790.0am
0100-0130		Radio Tashkent	5955.0as	5975.0as	7135.0as	7215.0as		
0100-0130	mtwhfa	Radio Yugoslavia	7115.0na					
0100-0145		Deutsche Welle	6040.0am	6145.0na	9640.0am	9700.0na	9765.0na	
0100-0156		China Radio Int'l	9580.0na	9790.0na				
0100-0156		Voice of Korea	3560.0as	6195.0as	6520.0am	7140.0as	7580.0am	9345.0as
			11735.1am					
0100-0500		Radio Havana Cuba	6000.0na	9820.0na	11705.0in			
0100-0200		Voice of Indonesia	9525.0as	11785.0as				
0100-0200		Radio Japan	11860.0as	11870.0me	11880.0me	15325.0as	17560.0me	17685.0pa
			17810.0as	17835.0sa	17845.0as			
0100-0200		Radio Ukraine Int'l	5905.0eu	9610.0eu	9810.0na			
0100-0200		WSHB Cypress Creek SC	9430.0na	15285.0sa				
0100-0200		WYFR Okeechobee FL	6065.0na	9505.0na	15060.0as			
0130-0140		Voice of Africa, Libya	15435.0ir	21695.0ir				
0130-0200		Radio Australia	9660.0pa	12080.0pa	15240.0pa	15415.0as	17580.0pa	17750.0as
			17795.0pa	21725.0as				
0130-0200		Voice Int'l, Australia	17775.0as					
0130-0230		VOIRI Teheran	6135.0na	9580.0na				
0130-0200		Radio Televis Elreann	6155.0ca					
0130-0200		Radio Sweden	9495.0as					
0130-0200	tw hfa	VOA	5995.0am	6130.0am	9455.0am			
0130-0200	tw hfa	VOA Special English	7405.0am	9775.0am	13740.0am			
0138-0150		Croatian Radio, Zagreb	9925.0sa					
0140-0200		Vatican Radio	7335.0as	9865.0as				
0200-0210		Radio Bangladesh	4882.0as					
0200-0227		Radio Prague Int'l	6200.0na	7345.0na				
0200-0230		Radio Budapest	9835.0na					
0200-0230		Voice of Hope, Lebanon	9615.0as					
0200-0300		BBC World Service	5975.0ca	9410.0me	9525.0ca	9825.0sa	11760.0as	11955.0as
			12035.0af	12095.0sa	15280.0as	15310.0as	15360.0as	17790.0as
0200-0230		Radio Yugoslavia	7130.0na					
0200-0245		Deutsche Welle	7285.0as	9765.0as	11965.0as	13605.0as		
0200-0256		Voice of Korea	4405.0as	9325.0as	11335.1as			
0200-0256		Radio Romania Int'l	9550.0na	9625.0as	11740.0as	11830.0na	11940.0au	15370.0au
0200-0257		Radio Canada Int'l	6040.0am	9755.0am	11725.0am	15150.0as	17860.0as	
0200-0300	tw hfa	RAE Buenos Aires	11710.0am					
0200-0400		Radio Australia	9660.0pa	12080.0pa	15240.0pa	15415.0as	15515.0pa	17580.0pa
			17750.0as	21725.0as				
0200-0400		HCJB Quito Ecuador	9745.0na	12040.0as	21455.0uf			
0200-0330		Radio Cairo	9475.0am					
0200-2400		RTM Radio 4, Malaysia	7295.0do					
0200-0300		Radio Myanmar	7185.0do					
0200-0330	s	a Radio Pilipinas, Manila	12015.0me	15120.0me	15270.0me			
0200-0300		Voice of Russia	6155.0na	7180.0na	9765.0na	12020.0na	13665.0na	15445.0na
0200-0300		Radio Korea	9560.0na	11810.0as	15575.0na			
0200-0430		Sri Lanka B'casting Corp.	6005.0as	6075.0as	6130.0do	9770.0as	15745.0as	
0200-0300		Radio Taipei Int'l	5950.0na	9680.0na	11740.0ca	15320.0as	15465.0as	
0200-0330		KJES Vado NM	7555.0na					
0200-0400		WINB Red Lion PA	9319.9am					
0200-0300		WSHB Cypress Creek SC	7535.0na	9430.0na				
0200-0300		WYFR Okeechobee FL	6065.0na	9505.0na				
0205-0212		Croatian Radio, Zagreb	9925.0na					
0215-0220		Radio Nepal, Katmandu	3230.0as	5005.0as	6100.0as	7164.4as		
0230-0257		Voice of Vietnam	6175.0na					
0230-0300		ORF Vienna	7325.0na					
0230-0300		Radio Iraq Int'l	9687.0in	11787.0ir				
0230-0300		Radio Sweden	9495.0na					
0245-0300		Radio Tirana, Albania	6115.0na	7160.1na				
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			
0300-0330	sm w fa	Radio Minsk, Belarus	5970.0eu	7210.0eu				
0300-0330		Channel Africa, S. Africa	9525.0af					
0300-0330		Radio Thailand	15460.0na					

0300-0330		BBC World Service	3255.0af 9410.0eu 12095.0as 17760.0as	5975.0ca 9525.0ca 15280.0as 17790.0as	6005.0af 9770.0af 15310.0as 21660.0as	6190.0af 11760.0me 15360.0as 21660.0as	6195.0eu 11765.0af 15575.0me 21660.0as	7160.0af 12035.0af 17640.0eu 21660.0as
0300-0330		a Wales Radio Int'l	9735.0na					
0300-0330		VOA	4960.0af 7415.0af	6035.0af 9575.0af	6080.0af 9885.0af	7265.0af	7290.0af	7340.0af
0300-0345		Deutsche Welle	6020.0na	6045.0na	9640.0am	9700.0na	11985.0na	
0300-0356		China Radio Int'l	9690.0na	9790.0				
0300-0356		Voice of Korea	3560.0as	6195.0as	7140.0as	9345.0as		
0300-1000		Radio Botswana	3356.0in	4820.0do	7255.0do			
0300-0400		Radio Bulgaria	7400.0na					
0300-0430		Radio Cultural, Guatemala	3300.0do	5955.0in				
0300-0400	sm	R. Luz y Vida, Honduras	3250.0ca					
0300-0400		Radio Japan	17825.0ca	21610.0pa				
0300-0600		Voice of Islam, Malaysia	6175.0as	9750.0as	15295.0au			
0300-0400		Radio Sultanate Oman	15355.0af					
0300-0400		Voice of Russia	6155.0na	7180.0na	12020.0na	13665.0na	15445.0na	
0300-0400		Radio Taipei Int'l	5950.0na	9680.0na	11875.0pa	15320.0as		
0300-0600		Radio Uganda	4976.0do	5026.0do	7196.0do			
0300-1000		WRMI Miami FL	7385.0na					
0300-1500		WRNO New Orleans LA	7395.0am					
0300-0400		WSHB Cypress Creek SC	5850.0eu	7535.0eu				
0300-0400		WYFR Okeechobee FL	5985.0sa	6065.0na	9505.0na	11855.0sa		
0300-0600		Christian Voice, Zambia	6065.0do					
0310-0330		Vatican Radio	9660.0af					
0330-0340		Voice of Africa, Libya	15435.0ir	21695.0ir				
0330-0357		Voice of Vietnam	6175.0na					
0330-0400		Radio Tirana, Albania	6115.0na	7160.1na				
0330-0400	m	La Voz Evangelica, Hond.	4819.2do					
0330-0400		Radio Budapest	9835.0na					
0330-0400		Radio Sweden	9495.0na					
0330-0400		Radio Dubai, UAE	12005.0na	13675.0na	15400.0na			
0330-0400		BBC World Service	3255.0af 9410.0eu 12095.0as 17640.0eu	5975.0ca 9525.0ca 15280.0as 17760.0as	6005.0af 9770.0af 15310.0as 17790.0as	6190.0af 11760.0me 15360.0as 21660.0as	6195.0eu 11765.0af 15420.0af 21660.0as	7160.0af 12035.0af 17640.0eu 21660.0as
0330-0400		VOA	4960.0af 9575.0af	6035.0af 9885.0af	6080.0af	7265.0af	7290.0af	7415.0af
0338-0350		Croatian Radio, Zagreb	9925.0na					
0345-0400	s	FEBA Seychelles	11885.0af					
0345-0400	hf	Radio Tajikistan	7245.0					
0400-0427		Radio Prague Int'l	7345.0na	7385.0na	9435.0na			
0400-0429		R. Vlaanderen Int'l	11985.0na					
0400-0430		Radio Australia	9660.0pa 21725.0as	12080.0pa	15240.0pa	15415.0as	15515.0pa	17580.0pa
0400-0430		Radio France Int'l	11910.0af	11995.0af				
0400-0430	s	Radio Mexico Int'l	9705.1am	11770.1am				
0400-0430	twhfa	AWR Africa, Meyerton	9650.0af					
0400-0430		Channel Africa, S. Africa	5955.0af					
0400-0500		BBC World Service	3255.0af 7160.0af 15280.0as 17760.0as	5975.0am 9410.0eu 15310.0as 17790.0as	6005.0af 9770.0af 15360.0as 21660.0as	6135.0ca 11760.0me 15420.0af 21660.0as	6190.0af 12035.0af 15575.0me 21660.0as	6195.0eu 12095.0as 17640.0eu 21660.0as
0400-0430		VOA	4960.0af 9775.0af	6080.0af 9885.0af	7170.0eu 9885.0af	7290.0af 15205.0eu	7415.0af	9575.0af
0400-0445		Deutsche Welle	6180.0af	7195.0af	9565.0af	9710.0af		
0400-0456		China Radio Int'l	9730.0na					
0400-0456		Radio Romania Int'l	9550.0na	11830.0na	15335.0as	17735.0as		
0400-2400		Cameroon Radio TV	4850.0in					
0400-0600		HCJB Quito Ecuador	9745.0na	21455.0uf				
0400-0500		Voice of Russia	7125.0na 17595.0na	7180.0na	12020.0na	13665.0na	15445.0na	15595.0na
0400-0600	mtwhfa	Voice of Russia	12010.0na					
0400-0500		Voice of Turkey	6020.0va	7240.0af				
0400-0500		Radio Ukraine Int'l	6020.0eu	7285.0eu	9810.0na			
0400-0700		KWHR Naalehu HI	17780.0as					
0400-1700		University Network	17765.0as					
0400-0900	smtwhf	WMLK Bethel PA	9465.0in					
0400-0600		WSHB Cypress Creek SC	7535.0eu	12020.0af				
0400-0500		WYFR Okeechobee FL	6065.0na	9505.0na	9715.0na	9985.0eu	11530.0eu	
0405-0412		Croatian Radio, Zagreb	9925.0na					
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 17750.0as	12080.0pa 21725.0as	15240.0pa	15415.0as	15515.0pa	17580.0pa
0430-0530		Radio Netherlands	6165.0na	9590.0na				
0430-2305		Radio Nigeria, Abuja	7275.0do					
0430-2305		Radio Nigeria, Enugu	4775.0do	6025.0do				
0430-2305		Radio Nigeria, Ibadan	6050.0do					
0430-2305		Radio Nigeria, Kaduna	4770.0do	6090.0do				
0430-1000		Radio Nigeria, Lagos	3326.0do	4990.0do				
0430-1000		Sri Lanka B'casting Corp.	6130.0do					

0430-0500		AWR Africa, Meyerton	12080.0af						
0430-0500		AWR Africa, UAE	15160.0as						
0430-0500		TWR Swaziland	4775.0af	6120.0af					
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	7235.0af				
0500-0515		Kol Israel	6280.0va	9435.0va	17600.0va				
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	15575.0as	17640.0af	17760.0as	
			17790.0as	17885.0af	21660.0as				
0500-0530		Radio Australia	9660.0pa	12080.0pa	15240.0pa	15415.0as	15515.0pa	17580.0pa	
			21725.0as						
0500-0530		Radio France Int'l	13610.0af	15155.0af					
0500-0530	s	Radio Mexico Int'l	9705.1am	11770.1am					
0500-0530		AWR Africa, Meyerton	6015.0af						
0500-0530		Channel Africa, S. Africa	11710.0af						
0500-0600		VOA	6035.0af	6080.0af	6105.0af	7170.0eu	7295.0af	9700.0eu	
			11825.0eu	11835.0af	13710.0af	15205.0eu			
0500-0530		Vatican Radio	9660.0af	11625.0af	15570.0af				
0500-0545		Deutsche Welle	5960.0na	6120.0na	9670.0na	11795.0na			
0500-0556		China Radio Int'l	9560.0na						
0500-0600	mtwhf	BBS, Bhutan	5030.0al	6035.0do					
0500-0800		R. for Peace Int'l	7445.1va	15038.7lr					
0500-0700		Radio Havana Cuba	6180.0na	9665.0ln	9820.0na				
0500-0800	a	Scandinavian Weekend R.	6170.0va	11720.0na					
0500-0600		Radio Japan	5975.0eu	6110.0na	7230.0eu	9835.0na	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					
0500-0700		Radio New Zealand Int'l	15340.0pa						
0500-0800		Voice of Nigeria	7255.0af	15120.0af					
0500-0600		Voice of Russia	7125.0na	7180.0na	12020.0na	13665.0na	15445.0na	15595.0na	
0500-0750		TWR Swaziland	6120.0af	7205.0af	9500.0af				
0500-1100		WBCQ Monticello ME	7415.0na						
0500-0600	twhfa	WBCQ Monticello ME	9335.0na						
0500-1000		WHRA Greenbush ME	7580.0af						
0500-1000		WWCR Nashville TN	3210.0na	5070.0na	5935.0na	7560.0na			
0500-0600		WYFR Okeechobee FL	5810.0eu						
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	15435.0au	17829.9au	21695.2au				
0530-0700		Radio Australia	9660.0pa	12080.0pa	15240.0pa	15415.0as	15515.0pa	17580.0pa	
			17750.0as	21725.0as					
0530-0630		AWR Africa, Meyerton	15345.0af						
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	15575.0as	17640.0af	17760.0as	17790.0as	
			21660.0as						
0530-0600	mtwhf	BBC World Service	17885.0af						
0538-0550		Croatian Radio, Zagreb	9925.0na						
0600-0615		TWR Meyerton	11640.0af						
0600-0620		Vatican Radio	4005.0eu	5890.0eu	7250.0eu				
0600-0630		Radio France Int'l	11710.0af	15155.0af	17800.0af				
0600-0630		Channel Africa, S. Africa	15215.0af						
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	
0600-0637		Radio Romania Int'l	9530.0na	11829.9na					
0600-0645		Deutsche Welle	6140.0eu	7225.0af	9565.0af	11785.0af			
0600-0700		Radio Japan	7230.0eu	9835.0na	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	9750.0as	15295.0au				
0600-0700		Voice of Russia	12010.0eu	15275.0au	17655.0au	17665.0au	21790.0au		
0600-2400		SLBS, Sierra Leone	3316.0do						
0600-1300		Radio Uganda	5026.0do	7110.0do	7196.0do				
0600-0700		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	15565.0eu	
			15575.0as	17640.0af	17760.0as	17790.0as	21660.0as		
0600-0800	s	BBC World Service	17885.0af						
0600-0800		WSHB Cypress Creek SC	7535.0af						
0600-0700		WYFR Okeechobee FL	7355.0eu	11530.0eu					
0600-1000		Radio Vanuatu	3945.0al	4960.0do					
0600-0700		Republic of Yemen Radio	9780.4me						
0600-1500		Christian Voice, Zambia	9865.0do						
0605-0612		Croatian Radio, Zagreb	9470.0pa						
0630-0645	s	BBC English Teaching	5875.0eu	9875.0eu					
0630-0700		ORF Vienna	6155.0eu	13730.0eu	17870.0me				
0630-0700		Georgian Radio, Tbilisi	11805.0eu						
0630-0730	mtwhf	Italian Radio Relay Svc	13840.0uf						

0630-0700		VOA	5995.0eu	7170.0eu	11825.0eu	11930.0eu	15205.0eu		
0630-0700	s	a VOA	6035.0af 13710.0af	6080.0af	6105.0af	7295.0af	11835.0af	11995.0af	
0630-0700		Vatican Radio	11625.0af	13765.0af	15570.0af				
0637-0700		Vatican Radio	9510.0eu 11940.0eu	9530.0na	9570.0eu	9625.0eu	11790.0eu	11829.9na	
0645-0900		Deutsche Welle	6140.0eu						
0700-0730		BBC World Service	6190.0af 11955.0as 15565.0eu	6195.0eu 12095.0eu 15575.0as	9410.0eu 11760.0me 17640.0eu	11760.0me 15360.0as 17760.0as	11765.0af 15400.0af 17790.0as	11940.0af 15485.0eu 21660.0as	
0700-0730		Radio Slovakia Int'l	13715.0au		15460.0au	17550.0au			
0700-0756		Radio Romania Int'l	17720.0af	21480.0af					
0700-0800		Radio Australia	9660.0pa 21725.0as	12080.0pa	15240.0pa	15415.0as	17580.0pa	17750.0as	
0700-0900		HCJB Quito Ecuador	5965.0eu	11755.0pa	21455.0uf				
0700-1100		Radio Africa, Eq. Guinea	15184.6af						
0700-0800		Radio France Int'l	15605.0af						
0700-0830		Radio Myanmar	9730.8do						
0700-1105		Radio New Zealand Int'l	11675.0pa						
0700-0800		Voice of Russia	11820.0eu	12010.0eu	15275.0au	17655.0au	17665.0au	21790.0au	
0700-0800		Radio Taipei Int'l	5950.0na						
0700-0800		KWHR Naalehu HI	11565.0pa	17780.0as					
0700-0800		WYFR Okeechobee FL	7355.0eu	9985.0af	11580.0af				
0705-0720		BBC English Teaching	6005.0af						
0715-0745	mtwhf	KTWR Guam	15215.0as						
0730-0745	mtwhf	Vatican Radio	4005.0eu 15595.0eu	5890.0eu	6185.0eu	7250.0eu	9645.0eu	11740.0eu	
0730-0800		Radio Bulgaria	12000.0eu	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 11955.0as 15565.0eu	6195.0eu 12095.0eu 17640.0eu	9410.0eu 15310.0as 17760.0as	11760.0me 15360.0as 17790.0as	11765.0af 15400.0af 21660.0as	11940.0af 15485.0eu	
0738-0750		Croatian Radio, Zagreb	9470.0pa						
0745-0755	s	a TWR Tirana	12070.0eu						
0745-0755	s	a TWR Monte Carlo	9870.0eu						
0745-0800	mtwhf	KTWR Guam	15215.0as	15330.0as					
0755-0850		TWR Tirana	12070.0eu						
0755-0850		TWR Monte Carlo	9870.0eu						
0800-0804		Radio Pakistan	17835.0eu	21465.0eu					
0800-0827		Radio Prague Int'l	11600.0eu	15255.0eu					
0800-0829		R. Vlaanderen Int'l	5985.0eu						
0800-0830		Radio Australia	5995.0pa 15415.0as	9580.0pa 21725.0as	9710.0pa	11880.0as	12080.0pa	15240.0as	
0800-0900	mtwhf	BBS, Bhutan	5030.0al	6035.0do					
0800-0900		R. for Peace Int'l	7445.1lr	15038.7lr					
0800-1100		a Scandinavian Weekend R.	6170.0va	11690.0va					
0800-0930	mtwhf	KTWR Guam	15330.0as						
0800-0900		Voice of Indonesia	15215.0as						
0800-0900		Voice of Russia	9525.0pa	11785.0pa					
0800-0900			11820.0eu	12010.0eu	15275.0au	17495.0au	17525.0au	17655.0au	
0800-0900	s	Amateur Radio League, SA	9750.0af	21560.0af					
0800-0900		Radio Korea	9570.0om	13670.0eu					
0800-0900		BBC World Service	6190.0af 15310.0as 17760.0as	9410.0eu 15360.0as 17830.0af	11760.0me 15400.0af 17885.0af	11940.0af 15485.0eu 21470.0af	11955.0as 15565.0eu 21660.0as	12095.0eu 17640.0eu 21830.0as	
0800-0900	s	a BBC World Service	15575.0as						
0800-0900		KNLS Anchor Point AK	9615.0as						
0800-1045		KWHR Naalehu HI	9930.0as	11565.0pa					
0800-1000		VOA	11995.0as	13605.0as	15150.0as				
0800-0900		WSHB Cypress Creek SC	7535.0eu	9845.0au					
0800-0900		WYFR Okeechobee FL	11580.0af						
0805-0812		Croatian Radio, Zagreb	13820.0au						
0830-0900		AWR Europe, Austria	9660.0eu	17820.0af					
0830-2130		ABC Alice Springs	2310.0do	4835.0lr					
0830-2130		ABC Katherine	2485.0do						
0830-2130		ABC Tennant Creek	2325.0do						
0830-0900		Radio Australia	5995.0pa 15415.0as	9580.0pa 17750.0as	9710.0pa 21725.0as	11880.0as	12080.0pa	15240.0as	
0830-0900		Georgian Radio, Tbilisi	11910.0eu						
0830-0900		Swiss Radio Int'l	21770.0af						
0840-0850		Turkmen Radio, Ashgabat	4930.0do						
0850-0920	smtwhf	TWR Tirana	12070.0eu						
0850-0920	smtwhf	TWR Monte Carlo	9870.0eu						
0900-1000		BBC World Service	6190.0af 12095.0eu 15565.0eu 17885.0af	6195.0as 15190.0as 15575.0as 21470.0af	9605.0as 9740.0as 17760.0as 21660.0as	9740.0as 11760.0me 17790.0as 21820.0as	11760.0me 15400.0af 17790.0as	11940.0af 15485.0eu 17830.0af	
0900-0930		Radio Australia	9580.0pa	11880.0as	15240.0as				
0900-0930		AWR Europe, Austria	17670.0af						

0900-0945		Deutsche Welle	6140.0eu	6160.0pa	9510.0va	9770.0as	11785.0af	15410.0af
			17800.0af	17820.0as	17845.0as	17860.0af	21560.0af	
0900-0956		China Radio Int'l	11730.0pa					
0900-1300		Voice Int'l, Australia	13685.0as					
0900-1200		R. for Peace Int'l	15038.7ir					
0900-1100		HCJB Quito Ecuador	11755.0pa	21455.0uf				
0900-1400	s	a Italian Radio Relay Svc	13840.0uf					
0900-1000	s	V. of the Mediterranean	9630.0eu					
0900-1000		Voice of Nigeria	7255.0af	15120.0af				
0900-1100		KHBN Palau	15725.0as					
0900-1400		Nat'l BC, Papua NG	4890.0do	9675.0lr				
0900-1000		Voice of Russia	11820.0eu	15275.0au	17495.0au	17525.0au	17665.0au	
0900-1000	s	R. UNMEE, UAE	21715.0af					
0900-1000		WSHB Cypress Creek SC	7535.0eu	9455.0sa				
0910-0930	s	Voice of Armenia, Yerevan	4810.0eu	15270.0eu				
0915-1200		Ghana Broadcasting Corp.	6130.0do					
0915-1200	s	a Ghana Broadcasting Corp.	4915.0do					
0930-1000		Radio Australia	9580.0pa	11880.0as	15240.0as	17750.0as	21820.0as	
0930-1000		Georgian Radio, Tbilisi	11910.0me					
0930-1000		Voice of Greece	9420.0eu	15630.0eu				
0930-1000		Radio Vilnius, Lithuania	9710.0eu					
0930-1125		Radio Netherlands	7260.0as	9790.0pa	12065.0as			
0938-0950		Croatian Radio, Zagreb	13820.0au					
0945-1100		Deutsche Welle	6140.0eu					
1000-1027		Voice of Vietnam	9840.0au	12020.0au				
1000-1029		Radio Prague Int'l	21745.0va					
1000-1030		KSDA Guam	11705.0as	11900.0as				
1000-1030		Radio Telefis Eireann	15280.0au					
1000-1030		Voice of Mongolia	12085.0as					
1000-1030		Sri Lanka B'casting Corp.	4940.0in					
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	15575.0as
			17640.0eu	17760.0as	17790.0as	17885.0af	21470.0af	21660.0as
1000-1100	s	a BBC World Service	15190.0sa	15400.0af	17830.0af			
1000-1056		China Radio Int'l	11730.0pa	15210.0pa				
1000-1056		Voice of Korea	3560.0as	9335.0am	9849.9as	11710.1am	11735.1as	
1000-2200		Caribbean Beacon	11775.0am					
1000-1100		Radio Australia	9580.0va	11880.0as	15240.0as	17750.0as	21820.0as	
1000-1130	s	a BBS, Bhutan	5030.0al	6035.0do				
1000-1730		Radio Botswana	4820.0do	7255.0do	9595.0in			
1000-2200		Voice of Guyana	5949.4do					
1000-1100		All India Radio, Delhi	13710.0as	15020.0as	15235.0as	15260.0as	17510.0au	17800.0as
			17895.0au					
1000-1100		Radio Japan	9695.0as	15590.0as	21755.0pa			
1000-1600		Radio Nigeria, Lagos	4990.0do	7285.0do				
1000-1200		Voice of Nigeria	7255.0af					
1000-1100		R. Veritas, South Africa	7240.0af					
1000-1100		VOA	5745.0am	5985.0as	7370.0am	9590.0am	11720.0as	15250.0as
			15425.0as					
1000-1300		WEWN Birmingham AL	5825.0na	15745.0eu				
1000-1300		WHRI Noblesville IN	9495.0am	9840.0na				
1000-1300		WRMI Miami FL	9955.0am					
1000-1100		WSHB Cypress Creek SC	6095.0am	9455.0sa	11780.0as			
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	3945.0al	4960.0do				
1000-1100	mt hfa	Vatican Radio	5890.0eu					
1030-1045	mtwhf	Radio Ethiopia	5990.0do	7110.0do	9704.2do			
1030-1100		KSDA Guam	11900.0as					
1030-1230		VOIRI Teheran	15215.0as	15375.0as	15480.0as	21470.0as	21730.0as	
1030-1130		Sri Lanka B'casting Corp.	4940.0in	11835.0as	15120.0as	17850.0as		
1030-1100		Radio Dubai, UAE	13675.0eu	15370.0eu	15400.0eu	21597.6eu		
1030-1130	t	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	15575.0as	17640.0eu	17760.0as
			17790.0as	17885.0af	21470.0af			
1045-2200		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	9475.0as	9580.0pa	11650.0pa	11880.0as
			12080.0pa	15240.0as	21820.0as			
1100-1130	mtwhf	BBC Caribbean Report	6195.0ca	15190.0ca				
1100-1130		BBC World Service	6190.0af	6195.0as	9740.0as	11760.0me	11940.0af	12095.0eu
			15310.0as	15400.0af	15485.0eu	15565.0eu	15575.0as	17640.0eu
			17760.0as	17790.0va	17830.0af	17885.0af	21470.0af	
1100-1130	s	a BBC World Service	6195.0ca	15190.0am				
1100-1200		VOA	5985.0as	6110.0as	9645.0as	9760.0as	11705.0as	11720.0as
			15250.0as	15425.0as				
1100-1145		Deutsche Welle	6140.0eu	15410.0af	17800.0af	21530.0af	21780.0af	25700.0af
1100-1430		HCJB Quito Ecuador	12005.0am	15115.0am	21455.0uf			

1100-1600	a	Scandinavian Weekend R.	5990.0va	11720.0va					
1100-1200		Radio Japan	6120.0na	9695.0as	15590.0as				
1100-1300		Radio Jordan	11690.0eu						
1100-1400		Radio Singapore Int'l	6150.0as	9600.0as					
1100-1400		SIBC Solomon Islands	5019.9ir	9545.0ir					
1100-1200		Radio Taipei Int'l	7445.0as	11985.0as					
1100-2400		WINB Red Lion PA	13570.0am						
1100-1200		WSHB Cypress Creek SC	6095.0am	9455.0am					
1100-1300		WVCR Nashville TN	5070.0na	5935.0na	7560.0na	15825.0na			
1100-1200		WYFR Okeechobee FL	5950.0na	11725.0sa	11830.0na				
1105-1305		Radio New Zealand Int'l	15175.0pa						
1115-1130		Kol Israel	15640.0va	17545.0va					
1115-1130		BBC English Teaching	11680.0eu	13745.0eu	15325.0eu	17625.0eu			
1115-1145		Radio Nepal, Katmandu	3230.0as	5005.0as	6100.0as	7164.4as			
1130-1140		Voice of Africa, Libya	15435.0lr	21695.0lr					
1130-1157		Radio Prague Int'l	11640.0eu	21745.0af					
1130-1159		R. Vlaanderen Int'l	7390.0as						
1130-1200		Radio Australia	5995.0pa	6020.0pa	9475.0as	9580.0pa	11650.0pa	11880.0as	
			12080.0pa	21820.0as					
1130-1325		Radio Netherlands	5965.0na	6045.0eu	9860.0eu				
1130-1230		Radio Korea	9650.0na						
1130-1230		Sri Lanka B'casting Corp.	4940.0in						
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	15575.0as	17640.0eu	
			17760.0as	17790.0as	17830.0af	17885.0af	21470.0af		
1130-1200	a	Wales Radio Int'l	17625.0au						
1130-1200	f	Vatican Radio	15595.0va	17515.0va					
1145-1155		Radio Rwanda	6055.0do						
1145-1600		Deutsche Welle	6140.0eu						
1200-1215		V. of Cambodia	11940.4as						
1200-1215		BBC English Teaching	7135.0as	11835.0as					
1200-1230		Radio France Int'l	15540.0af	25820.0af					
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			
1200-1256		China Radio Int'l	9730.0as	9760.0pa	11760.0pa	11980.0as	15415.0pa		
1200-1300		Radio Australia	5995.0pa	6020.0pa	9475.0as	9580.0pa	11650.0pa	11880.0as	
			21820.0as						
1200-2400		CBC Northern Service	9625.0do						
1200-1300		Radio Canada Int'l	9660.0as	11730.0as					
1200-1400		Voice of Hope, China	7485.0as						
1200-2100		R. for Peace Int'l	15038.7lr	21815.0uf					
1200-1700		Ghana Broadcasting Corp.	4915.0do	6130.0do					
1200-1300		Voice of Hope, Russia	13590.0as						
1200-1300		Radio Taipei Int'l	7129.9as	9610.0au					
1200-1300		Radio Ukraine Int'l	11825.0as	11840.0eu	13590.0eu	17760.0eu			
1200-1300		Overcomer Ministries	5975.0eu						
1200-1300		WSHB Cypress Creek SC	6095.0am	9455.0am	9880.0as				
1200-1300		WYFR Okeechobee FL	5950.0na	11830.0na	11970.0na	13695.0na			
1215-1330		Radio Cairo	17775.0as						
1230-1245		BBC English Teaching	15105.0af	17780.0af	21640.0af				
1230-1257		Voice of Vietnam	9840.0as	12019.9as					
1230-1300		ORF Vienna	6155.0eu	13730.0eu					
1230-1300		Radio Bangladesh	7185.0as	9550.0as					
1230-1300		Radio Bulgaria	12000.0eu	15700.0eu					
1230-1330		Voice of Hope, Lebanon	17795.0as						
1230-1600		Sri Lanka B'casting Corp.	4940.0in	6005.0as	6075.0as	9770.0as	15745.0as		
1230-1300		Radio Sweden	17505.0as	18960.0na					
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	15565.0af	15575.0me	17640.0eu	
			17760.0as	17790.0as	17830.0af	17885.0af	21470.0af		
1245-1300	hfa	FEBA Seychelles	15535.0me						
1300-1310	mtwhfa	Turkmen Radio, Asgabat	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	15565.0me	15575.0me	
			17640.0eu	17760.0as	17790.0as	17830.0af	17885.0af	21470.0af	
1300-1330		Radio Australia	5995.0pa	6020.0pa	9580.0pa	11650.0pa	11880.0as	21820.0as	
1300-1330		AWR Africa, UAE	17870.0as						
1300-1355		Radio Polonia, Warsaw	6095.0eu	9525.0eu					
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	11335.0eu	11710.0am		
1300-1630		Voice Int'l, Australia	13690.0as						
1300-1400	mtwhf	Radio Canada Int'l	9515.0am	13655.0am	17710.0am				
1300-1730		Radio Jordan	11690.0na						
1300-1500	s	a Channel Africa, S. Africa	11710.0af	17725.0af	21760.0af				
1300-1400		Radio Korea	9570.0om	13670.0om					

1300-2100		Radio Uganda	4976.0do	5026.0do	7196.0do				
1300-1400		KNLS Anchor Point AK	9615.0as						
1300-1600		Overcomer Ministries	13810.0me						
1300-1400		VOA	6110.0as	9645.0as	9760.0as	11705.0as	15425.0as		
1300-1400	mtwhf	WBCQ Monticello ME	17494.9na						
1300-1600		WEWN Birmingham AL	9955.0na	15745.0eu					
1300-1600		WHRA Greenbush ME	17560.0af						
1300-1600		WHRI Noblesville IN	9840.0na	15105.0am					
1300-2400		WRMI Miami FL	15725.0na						
1300-1400		WSHB Cypress Creek SC	7460.0as	9430.0na	9455.0na				
1300-1400		WWCR Nashville TN	5935.0as	7560.0na	12160.0na	15825.0na			
1300-1400		WYFR Okeechobee FL	11560.0as	11740.0na	11830.0na	11970.0na	17510.0sa	17575.0sa	
1305-1650		Radio New Zealand Int'l	6095.0oc						
1330-1345		BBC English Teaching	15105.0af	21640.0af					
1330-1350		Radio Dubai, UAE	13630.0eu	13675.0eu	15395.0eu	21597.5eu			
1330-1357		Voice of Vietnam	7145.0eu	9730.0eu					
1330-1400		Radio Australia	5995.0pa	6020.0pa	9580.0pa	11650.0pa	11660.0as	21820.0as	
1330-1400		ORF Vienna	17855.0au						
1330-1430		Voice of Hope, Germany	15775.0as						
1330-1400		KSDA Guam	11755.0as	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 Sweden	9430.0as	18960.0na					
1330-1430		Voice of Turkey	17690.0as	17815.0eu					
1330-1400		AWR Africa, UAE	15385.0as						
1330-1400		Radio Tashkent	5060.0as	5975.0as	6025.0as	9715.0as			
1330-1400		Radio Yugoslavia	11835.0au						
1400-1415	mtw	BBC English Teaching	11860.0af	15420.0af	21490.0af				
1400-1429		Radio Prague Int'l	21745.0va						
1400-1430		Radio Australia	5995.0pa	9580.0pa	11650.0pa	11660.0as			
1400-1430		Radio Thailand	9530.0as						
1400-1456		China Radio Int'l	7405.0na	9700.0as	11675.0as	11765.0as	13685.0af	15125.0af	
			17720.0na						
1400-1456		Radio Romania Int'l	15365.0eu	17790.0eu					
1400-1500		Radio Canada Int'l	9515.0am	13655.0am	17710.0am				
1400-1500		Radio France Int'l	7175.0as	9580.0as	17620.0as				
1400-1500		Radio Japan	7200.0as	9505.0na	9845.0as	17755.0me			
1400-1500		Radio Sultanate Oman	15140.0eu						
1400-1600		SBC Radio 1, Singapore	6150.0do						
1400-1500		Radio Taipei Int'l	15265.0as						
1400-1500		BBC World Service	6190.0af	6195.0as	7160.0as	9740.0as	11940.0af	12095.0eu	
			15190.0am	15310.0as	15485.0eu	15565.0eu	15575.0me	17640.0eu	
			17790.0as	17830.0af	21470.0af	21660.0af			
1400-2400		KALJ Dallas TX	13815.0va						
1400-1600		KJES Vado NM	11715.0na						
1400-1500		VOA	6110.0as	7125.0as	9645.0as	9760.0as	11705.0as	15205.0eu	
			15395.0as	15425.0as					
1400-2100		WBCQ Monticello ME	17494.9na						
1400-2100		WWCR Nashville TN	9475.0na	12160.0na	13845.0na	15825.0na			
1400-1500		WYFR Okeechobee FL	11560.0as	11740.0na	11830.0na	17510.0sa	17575.0sa	17760.0na	
1415-1420		Radio Nepal, Katmandu	3230.0as	5005.0as	6100.0as	7164.4as			
1430-1700		Radio Australia	5995.0pa	9475.0as	9580.0pa	11650.0pa	11660.0as		
1430-1500		ORF Vienna	6155.0eu	13730.0eu					
1430-1600		Radio Myanmar	5040.6do	5985.9do					
1430-1625		Radio Netherlands	12070.0as	12080.0as	15220.0na	15595.0as			
1430-1500		Radio Sweden	17505.0va	18960.0na					
1445-1545		KTWR Guam	15330.0as						
1445-1500	mtwhfa	BBC English Teaching	7205.0as	15245.0as					
1500-1515	whf	FEBA Seychelles	15445.0as						
1500-1530		Radio Mexico Int'l	9705.1am	11770.2am					
1500-1530		Voice of Mongolia	12015.0as						
1500-1530		Channel Africa, S. Africa	17725.0af						
1500-1530		BBC World Service	5975.0as	6190.0af	6195.0as	7160.0as	9410.0eu	9740.0as	
			11860.0af	11940.0af	12095.0eu	15190.0am	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	11995.0as	15460.0as		
1500-1556		China Radio Int'l	7405.0na	7160.0as	9785.0as	13685.0af	15125.0af	17720.0na	
1500-1556		Voice of Korea	4405.0as	7505.0eu	9335.1am	11335.2eu	11710.1am		
1500-1600		Radio Canada Int'l	9515.0am	13655.0am	15360.0as	17710.0am	17820.0as		
1500-2230	s	Reflections Europe, Ire.	3910.0eu	6295.0eu	12255.0eu				
1500-1600		Radio Japan	7200.0as	9750.0as	9845.0as				
1500-1600		Voice of Russia	6205.0as	7315.0as	7350.0as	9590.0as	9875.0as	11500.0as	
1500-1800	a	Overcomer Ministries	6110.0eu						
1500-1600		VOA	7125.0as	9575.0eu	9645.0as	15205.0eu	15395.0as		
1500-2300		WRNO New Orleans LA	7395.0am	15420.0af					
1500-1600		WYFR Okeechobee FL	6280.0as	11830.0na	15520.0as	17760.0na			
1500-2400		Christian Voice, Zambia	4965.0do						
1515-1530	mtwhf	FEBA Seychelles	11600.0as						
1530-1545		Radio Bangladesh	4882.0as	15520.0as					
1530-1545		FEBA Seychelles	11600.0as						
1530-1545		BBC English Teaching	11685.0as	15545.0as					

1530-1615		Voice of Hope, Germany	9860.0me							
1530-1630		VOIRI Teheran	7115.0as	7195.0as	9610.0as	11640.0as	11775.0as	11835.0as		
1530-1600		BBC World Service	5975.0as	6190.0af	6195.0as	7160.0as	9410.0eu	9740.0as		
			11940.0af	12095.0e	15190.0am	15310.0as	15400.0af	15485.0eu		
			15565.0eu	17790.0as	17830.0af	21470.0af	21660.0af			
1530-1600		Vatican Radio	9865.0af	13765.0af	15235.0af					
1540-1550		Turkmen Radio, Asgabat	4930.0do							
1545-1600	s h	Radio Bangladesh	4882.0as	15520.0as						
1545-1600	smt hfa	FEBA Seychelles	11600.0as							
1600-1615		Radio Pakistan	11570.0me	15070.0me	15530.0af	17725.0af				
1600-1630		BBC World Service	3915.0as	5975.0as	6190.0af	6195.0as	7160.0as	9410.0eu		
			9510.0as	11940.0af	12095.0eu	15190.0am	15310.0as	15400.0af		
			15565.0eu	17790.0as	17830.0af	21470.0af	21660.0af			
1600-1627		Voice of Vietnam	7145.0eu	9730.0eu						
1600-1630		KSDA Guam	11560.0as	15495.0as	17630.0as					
1600-1630		Voice of Hope, Lebanon	11705.0as							
1600-1630		Radio Mexico Int'l	9705.1am	11770.2am						
1600-1630		Channel Africa, S. Africa	9525.0af							
1600-1700		VOA	6035.0af	6110.0as	7125.0as	9575.0eu	9645.0as	9760.0as		
			13710.0af	15205.0eu	15240.0af	15395.0as	15485.0af	17715.0af		
			17895.0af							
1600-1635		Radio Dubai, UAE	13630.0eu	13675.0eu	15395.0eu	21597.5eu				
1600-1645		Deutsche Welle	6140.0eu	6170.0as	7225.0as	9735.0af	11695.0as	13605.0as		
			15445.0af	21840.0af						
1600-1656		China Radio Int'l	7190.0af	13650.0af						
1600-1656		Voice of Korea	3560.0as	9975.0af	11735.2af					
1600-1700		Radio Algiers	11715.0in	15160.0in						
1600-1700	s	Radio Canada Int'l	9515.0am	13655.0am	17710.0am					
1600-1700	a	Radio Ethiopia	5990.0af	7110.0af	7165.0af	9560.2af	9704.2af	11800.0af		
1600-2000	a	Scandinavian Weekend R.	6170.0va	11720.0va						
1600-1700		Radio France Int'l	11615.0af	11995.0af	12015.0af	15605.0af	17850.0af			
1600-2400		NBC Windhoek, Namibia	3270.1in	3290.1af	6060.0af					
1600-2305		Radio Nigeria, Lagos	3326.0do	4990.0do						
1600-1700		Voice of Russia	4940.0as	4965.0as	4975.0as	6005.0me	7305.0as	9590.0as		
			9830.0me							
1600-1900		R. Veritas, South Africa	3230.0af							
1600-1700		Radio Korea	5975.0om	9515.0af	9870.0af					
1600-2400		Sri Lanka B'casting Corp.	4940.0in							
1600-1800		Radio Taipei Int'l	11560.0as							
1600-2400		KTBN Salt Lake City UT	15590.0na							
1600-1700		VOA Special English	13600.0as	15445.0af	17640.0af					
1600-1700		WEWN Birmingham AL	13615.0na	15745.0eu						
1600-2300		WHRA Greenbush ME	17650.0af							
1600-1800		WHRI Noblesville IN	13760.0va	15105.0am						
1600-2100	smtwhf	WMLK Bethel PA	9465.0eu							
1600-1800		WSHB Cypress Creek SC	18910.0af							
1600-2300		WWRB Manchester TN	9320.0na	12172.0na						
1600-1700		WYFR Okeechobee FL	11830.0na	15520.0as	17760.0na	17790.0af	18980.0eu	21455.0eu		
1600-1900		SWR Africa, Zimbabwe	6145.0af							
1615-1630	s	BBC World Service	11860.0af	15420.0af	21490.0af					
1630-1900		Voice Int'l, Australia	11685.0as							
1630-1700		AWR Europe, Austria	9850.0eu							
1630-1700		ORF Vienna	17865.0na							
1630-1830		Radio Cairo	15255.0af							
1630-1700		Georgian Radio, Tbilisi	6180.0me							
1630-1700		KSDA Guam	11560.0as	11980.0as	15495.0as	17630.0as				
1630-1700		AWR Africa, UAE	9890.0as							
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	15565.0eu	17790.0as	17830.0af	21470.0af	21660.0af		
1630-1700	s	BBC World Service	11860.0af	21490.0af						
1645-1800		Deutsche Welle	6140.0eu							
1645-1700		Radio Tajikistan	7245.0							
1650-1750	mtwhf	Radio New Zealand Int'l	11980.0pa							
1700-1715		Radio Galkayo, Somalia	6985.0va							
1700-1727		Radio Prague Int'l	5930.0eu	17485.0af						
1700-1730		Radio France Int'l	11615.0af	15605.0af						
1700-1730	s wh	a Bible Voice BC, Russia	7435.0me							
1700-1730		Channel Africa, S. Africa	17870.0af							
1700-1800		VOA	6040.0eu	6110.0as	7125.0as	9645.0as	9760.0eu	13710.0af		
			15205.0eu	15240.0af	15395.0as	15445.0af	17895.0af			
			5990.0as	6045.0as	9525.0as	9795.0as	11955.0as	12005.0as		
			15255.0as							
1700-1800	mtwhf	VOA	3255.0af	3915.0as	5975.0as	6005.0af	6190.0af	6195.0eu		
			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	7150.0af	9570.0af	9695.0af	11910.0af				
1700-1756		Radio Romania Int'l	7155.0eu	9625.0eu	9690.0eu	11940.0eu				
1700-1800		Radio Australia	5995.0pa	9475.0as	9580.0pa	9815.0pa	11880.0pa			
1700-2300		Radio Africa, Eq. Guinea	7189.7af	15184.6al						
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	15725.0eu	17705.0na					

1700-1800		Radio Japan	9505.0na	11970.0eu	15355.0af				
1700-1800		Voice of Russia	9470.0me	9590.0as	9830.0me				
1700-2000		WEWN Birmingham AL	13615.0na						
1700-1800		WYFR Okeechobee FL	18980.0eu	21455.0eu	21680.0af				
1715-1730		Vatican Radio	4005.0eu	5890.0eu	7250.0eu	9645.0eu	15595.0eu		
1730-1740		Voice of Africa, Libya	15435.0lr	21695.0lr					
1730-1745		Kol Israel	11605.0va	17545.0va					
1730-1745		BBC English Teaching	3390.0af	5875.0eu	7230.0af	7295.0eu	9525.0af	9530.0eu	
1730-1745	mtwhf	United Nations Radio	7170.0af	15495.0me	17580.0af				
1730-2200		Radio Botswana	3356.0ln	4820.0do	7255.0do				
1730-1800		KSDA Guam	9385.0me						
1730-2200		ELWA Monrovia, Liberia	4760.0do						
1730-1800	mtwhfa	V. of the Mediterranean	9850.0eu						
1730-1830		Radio Netherlands	6020.0af	11655.0af					
1730-1930		Radio Pilipinas, Manila	11730.0me	11890.0me	15190.0me				
1730-1800	s	whfa Bible Voice BC, Russia	7435.0me						
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	13790.0af	15555.0af				
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	11925.0af	13605.0af	
			15075.0af	15155.0af	17670.0af				
1745-1800		BBC English Teaching	5875.0eu	7295.0eu	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				
1750-2050		Radio New Zealand Int'l	15265.0pa						
1800-1815		Bible Voice BC, Russia	7435.0me						
1800-1815	s	Bible Voice BC, Russia	5880.0me						
1800-1827		Radio Prague Int'l	5930.0eu	7315.0va					
1800-1827		Voice of Vietnam	5955.0eu	7145.0eu	9730.0eu				
1800-1830		Voice of Azerbaijan	6110.8eu	9155.0in					
1800-1830	s	Deutsche Welle	3995.0eu	6140.0eu					
1800-1830		Universal Life, Germany	11840.0af						
1800-1830		Radio Telefis Eireann	9895.0me						
1800-1830		AWR Africa, Meyerton	5960.0af	6095.0af	11985.0af				
1800-1830		Channel Africa, S. Africa	17870.0af						
1800-1830		BBC World Service	3255.0af	5975.0as	6190.0af	6195.0eu	9410.0eu	9510.0as	
			15310.0me	15400.0af	15420.0af	17830.0af	21470.0af		
1800-1900		VOA	6035.0af	6040.0eu	9760.0eu	9885.0eu	11975.0af	13710.0af	
			15240.0af	15580.0af	17895.0af				
1800-1855		Radio Polonia, Warsaw	5995.0eu	7285.0eu					
1800-1900	mtwhf	RAE Buenos Aires	9690.0eu	15345.0eu					
1800-1900		Radio Australia	6080.0pa	7240.0pa	9475.0as	9580.0pa	9815.0pa	11880.0pa	
1800-2100		Radio Kuwait	11990.0va						
1800-2200		Radio Liberia Int'l	5100.0do						
1800-2200		R. Veritas, Liberia	5470.0af						
1800-1900		Voice of Russia	7290.0eu	7335.0af	7340.0eu	9590.0as	9830.0af	11510.0af	
1800-1900	s	a Voice of Russia	5950.0eu	6175.0eu					
1800-1900	m	Amateur Radio League, SAF	3215.0af						
1800-1900	s	a Radio Lusofonia, S.Afr.	3345.0af						
1800-1900		R. Omdurman, Sudan	7200.0do	9505.0do					
1800-1900		Radio Taipei Int'l	3955.0eu						
1800-2400		KIMF Pinon NM	11885.0am						
1800-2400		University Network	9890.0as						
1800-2000		WHRI Noblesville IN	9495.0am	13760.0va					
1800-2000		WSHB Cypress Creek SC	15665.0eu	18910.0af					
1800-1900		WYFR Okeechobee FL	18980.0eu						
1800-1900		Republic of Yemen Radio	9779.6me						
1815-1830	s	Bible Voice BC, Russia	5880.0eu						
1815-1845	s	a Bible Voice BC, Russia	7435.0me						
1830-1845	m w	BBC English Teaching	6050.0eu	7105.0eu	9685.0eu				
1830-1859		R. Vlaanderen Int'l	7465.0eu	13650.0me	13685.0eu				
1830-1900		Radio Bulgaria	5800.0eu	7500.0eu					
1830-1900		Georgian Radio, Tbilisi	11910.0eu						
1830-1900		Deutsche Welle	6140.0eu						
1830-1900		Radio Telefis Eireann	13640.0na	21630.0af					
1830-2025		Radio Netherlands	6020.0af	9895.0af	11655.0af	13700.0af	17605.0af		
1830-1900		AWR Africa, Meyerton	11985.0af						
1830-1900	mtwhfa	Radio Sweden	6065.0eu						
1830-1900	s	Radio Sweden	5840.0eu						
1830-1900		BBC World Service	3255.0af	6005.0af	6190.0af	6195.0eu	9410.0eu	9630.0af	
			15310.0me	15400.0af	15420.0af	17830.0af	21470.0af		
			4765.0af	5985.0af					
1845-1915		RTVC Brazzaville, Congo	7435.0me						
1845-2000	s	Bible Voice BC, Russia	5880.0eu						
1845-1900	a	Bible Voice BC, Russia	7145.0eu	9730.0eu					
1900-1927		Voice of Vietnam	3995.0eu	11765.0af	13780.0af	15275.0af	17560.0af	17810.0af	
1900-1930		Deutsche Welle	21780.0af						
1900-1930	s	Universal Life, Germany	9470.0me						
1900-1930	s	Voice of Greece	7475.0eu	9420.0eu	17705.0na				

1900-2000		VOA	4950.0af 11870.0as 17895.0af	6035.0af 11975.0af	7415.0af 13710.0af	9525.0as 15180.0as	9690.0eu 15240.0af	9760.0eu 15580.0af
1900-2000	mtwhf	VOA	5965.0me 15410.0as	9840.0as	11720.0as	11970.0as	13725.0af	15205.0me
1900-1956		China Radio Int'l	9440.0af	9585.0af				
1900-1956		Voice of Korea	4405.0as	7505.0eu	11335.1eu			
1900-2000		Radio Australia	6080.0pa	7240.0pa	9500.0as	9580.0pa	9815.0pa	11880.0pa
1900-2100		Voice Int'l, Australia	13770.0as					
1900-2000	a	Voice of Biafra Int'l	12125.0af					
1900-2100		Voice of Nigeria	7255.0af	15120.0af				
1900-2000		R. Central, Papua NG	3290.0ir					
1900-2000		Voice of Russia	5950.0eu 7360.0eu	6175.0eu 7440.0af	6235.0eu 9875.0af	7290.0eu 11510.0af	7335.0af	7340.0eu
1900-2400		SIBC Solomon Islands	5019.9do	9545.0do				
1900-2000		Radio Korea	5975.0om	7275.0eu				
1900-2000	a	Sri Lanka B'casting Corp.	6010.0eu					
1900-2000		TWR Swaziland	3200.0af					
1900-2000		Radio Thailand	9535.0eu					
1900-2000		BBC World Service	3255.0af 12095.0af	6005.0af 15310.0me	6190.0af 15400.0af	6195.0eu 17830.0af	9410.0eu	9630.0af
1900-2000		KJES Vado NM	15385.0na					
1900-2000		VOA Special English	9785.0me	12015.0me	13640.0me			
1900-2100	s	WBCQ Monticello ME	7415.0na					
1900-2200	mtwhf	WBCQ Monticello ME	9335.0na					
1900-2000		WYFR Okeechobee FL	3230.0af	15115.0af	15565.0eu	18980.0eu		
1900-2400		Radio Vanuatu	3945.0al	7260.0do				
1915-1925		Radio Rwanda	6055.0do					
1915-1930		BBC English Teaching	15105.0af	17885.0af				
1915-2000		Salamaa Radio	13855.0af					
1930-1945		Deutsche Welle	11765.0af	13780.0af	15275.0af	17560.0af	17810.0af	21780.0af
1930-2000		ORF Vienna	5945.0eu	6155.0eu				
1930-2000		Georgian Radio, Tbilisi	11760.0eu					
1930-2000		Voice of Greece	7475.0eu					
1930-2000	s	Voice of Greece	9420.0eu	17705.0na				
1930-2030		VOIRI Teheran	6110.0eu	7215.0eu	7320.0eu	11695.0af	15140.0af	
1930-2230		Nat'l BC, Papua NG	4890.0do	9675.0ir				
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 Slovakia Int'l	5915.0eu	6055.0eu	7345.0eu			
1930-2030		Swiss Radio Int'l	9755.0af	13660.0af	15485.0af	17660.0af		
1930-2030		Voice of Turkey	9890.0eu					
1930-2000		Radio Yugoslavia	6100.0eu					
1935-1955		RAI, Rome	5970.0eu	9745.0eu				
1940-1945		Turkmen Radio, Asgabat	4930.0as					
1945-2000		Radio Tirana, Albania	7210.0eu	9510.0eu				
2000-2030		Radio Budapest	6025.0eu	7135.0eu				
2000-2030		Kol Israel	6280.0va	9435.0af	13720.0va	15640.0va		
2000-2030		Voice of Mongolia	12015.0as					
2000-2030		VOA	4950.0af 11855.0af 17895.0af	6035.0af 11975.0af	6095.0eu 13710.0af	7415.0af 15240.0af	9690.0eu 15580.0af	9760.0eu 17885.0af
2000-2030		Vatican Radio	7365.0af	9660.0af	11625.0af			
2000-2045		Deutsche Welle	6180.0eu					
2000-2045		Radio Iraq Int'l	9687.0in	11787.0ir				
2000-2056		China Radio Int'l	5965.0eu	9440.0af	9840.0eu	11640.0af	11790.0eu	13630.0af
2000-2100		Radio Algiers	11715.0in	15160.0in				
2000-2100		Radio Australia	9500.0as	9580.0pa	9815.0pa	11880.0pa	12080.0pa	
2000-2200		HCJB Quito Ecuador	11895.0eu					
2000-2100	a	Scandinavian Weekend R.	5990.0va	11720.0va				
2000-2100		KSDA Guam	7160.0as	11700.0as				
2000-2100		Voice of Indonesia	11784.9eu	15150.0in				
2000-2100	smtwh	a V. of the Mediterranean	7445.0eu					
2000-2200		R. Central, Papua NG	3290.0do					
2000-2115	s	a Bible Voice BC, Russia	7380.0eu					
2000-2100		Voice of Russia	5950.0eu 15735.0am	6175.0eu	6235.0eu	7290.0eu	7340.0eu	7390.0eu
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				
2000-2100		BBC World Service	3255.0af 12095.0af	6005.0af 15400.0af	6190.0af 17830.0af	6195.0eu	9410.0eu	9630.0af
2000-2400	mtw	BBC World Service	17640.0eu					
2000-2200		WEWN Birmingham AL	13615.0na	17595.0af				
2000-2400		WHRI Noblesville IN	5745.0va	9495.0am				
2000-2200		WSHB Cypress Creek SC	11650.0eu	15665.0eu				
2000-2100		WYFR Okeechobee FL	3230.0af	7580.0eu	15195.0af	17575.0sa		
2025-2045		RAI, Rome	6010.0af	9710.0af	11880.0af			
2030-2040		Voice of Africa, Libya	15435.0ir	21695.0ir				
2030-2045		Radio Thailand	9535.0eu					
2030-2057		Voice of Vietnam	7145.0eu	9730.0eu				

2200-2400	KWHR Naalehu HI	17510.Oas							
2200-2400	WBCQ Monticello ME	7415.Ona	9335.Ona	17494.9na					
2200-2400	WEWN Birmingham AL	9975.Ona	17595.Oaf						
2200-2400	WSHB Cypress Creek SC	7510.Oeu	15285.Osa						
2200-2300	WWCR Nashville TN	5070.Ona	7465.Ona	9475.Ona	13845.Ona				
2200-2300	WYFR Okeechobee FL	7580.Oeu	11740.Ona	15565.Oaf					
2205-2230	RAI, Rome	11895.Oas							
2230-2257	Radio Prague Int'l	7345.Ona	9435.Oaf						
2230-2259	R. Vlaanderen Int'l	13700.Ona							
2230-2300	Radio Tirana, Albania	7130.Oeu	9540.Oeu						
2230-2300	smtwhf ORF Vienna	5945.Oeu	6155.Oeu						
2230-2330	Radio Havana Cuba	6180.Oam							
2230-2400	Nat'l BC, Papua NG	9675.Odo	11880.Oir						
2230-2300	Radio Sweden	6065.Oeu							
2245-2400	All India Radio, Delhi	9705.Oas	9950.Oas	11620.Oas	13605.Oas				
2300-2330	Radio Australia	9660.Opa	12080.Opa	13620.Oas	15230.Oas	17715.Opa	17795.Opa		
		21740.Opa							
2300-2330	Radio Canada Int'l	5960.Oam	9590.Oam	11865.Oam					
2300-2356	China Radio Int'l	5990.Ona	13680.Ona						
2300-2330	mtwhf Radio Mexico Int'l	9705.1am	11770.2am						
2300-2330	BBC World Service	3915.Oas	5965.Oas	5975.Oca	6195.Ova	7105.Oas	11685.Oas		
		11945.Oas	11955.Oas	12095.Osa	15280.Oas				
2300-2330	VOA Special English	6180.Oas	7205.Oas	9780.Oas	11735.Oas	15135.Oas			
2300-2345	Deutsche Welle	9470.Oas	9815.Oas	13690.Oas	21790.Oas				
2300-2356	Radio Romania Int'l	7195.Oeu	9510.Ona	9570.Oeu	11940.Ona				
2300-2400	Radio Cairo	9900.Oam							
2300-2400	f Scandinavian Weekend R.	5980.Ova	11690.Ova						
2300-2400	SBC Radio 1, Singapore	6150.Odo							
2300-2400	Voice of Turkey	6020.Ova	9655.Ova						
2300-2400	WHRA Greenbush ME	7580.Oeu							
2300-2400	WRNO New Orleans LA	7355.Ova							
2300-2400	WWCR Nashville TN	3210.Ona	5070.Ona	7465.Ona	13845.Ona				
2300-2400	WWRB Manchester TN	5050.Ona	5085.Ona	6890.Ona					
2300-2400	WYFR Okeechobee FL	5985.Osa	11740.Ona	11855.Osa	15170.Osa	15400.Osa			
2320-2330	Kyrgyz Radio, Bishkek	4010.Oas	4795.Oas						
2330-2340	Voice of Africa, Libya	15435.Oir	21695.Oir						
2330-2357	Radio Prague Int'l	7345.Ona	9435.Ona						
2330-2357	Voice of Vietnam	9840.Oas	12019.9as						
2330-2400	Radio Australia	9660.Opa	11695.Oas	12080.Opa	13620.Oas	15230.Oas	15415.Oas		
		17715.Opa	17795.Opa	21740.Opa					
2330-2400	Radio Canada Int'l	5960.Ona	9590.Ona						
2330-2400	Voice of Hope, Lebanon	6025.Oas							
2330-2400	Radio Vilnius, Lithuania	9875.Ona							
2330-2400	Radio Netherlands	6165.Ona	9845.Ona						
2330-2400	Swiss Radio Int'l	9885.Osa	11660.Osa						
2330-2400	BBC World Service	3915.Oas	5965.Oas	5975.Oca	6035.Oas	6195.Ova	7105.Oas		
		11685.Oas	11945.Oas	11955.Oas	12095.Osa	15280.Oas			
2330-2400	VOA Special English	6180.Oas	6130.Oas	7205.Oas	9620.Oas	9780.Oas	11735.Oas		
		11805.Oas	13640.Oas	15135.Oas	15205.Oas				
24hr-	CFRX Toronto ON	6070.Odo							
24hr-	CFVP Calgary AB	6030.Odo							
24hr-	CKZN Saint John's NL	6160.Odo							
24hr-	CKZU Vancouver BC	6160.Odo							
24hr-	ZLXA New Zealand	3935.Odo							
24hr-	R. UNAMSIL, Sierra Leone	6137.8af							
24hr-	University Network	5029.1am	6150.Oam	7375.Oam	9724.9sa	11869.9am	13749.9na		
24hr-	AFRTS	3903.Ouf	4278.Suf	4319.Ouf	4993.Ouf	6350.Ouf	6458.5uf		
		10320.Ouf	12579.Ouf	12689.Suf	13362.Ouf				
24hr-	WBOH Newport NC	5920.Oam							
24hr-	WJIE Louisville KY	7490.Oam	13595.Oin						
24hr-	WTJC Newport NC	9370.Ona							

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

16th Annual Winter SWL Fest

Sponsored by **NASA**

March 7-8, 2003

Best Western—The Inn at Towamencin
(formerly Holiday Inn),
Sumneytown 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 6th.** If you choose not to participate in the meals, the hotel has a restaurant, and there are other restaurants nearby.

Early Registration (rec'd by March 2, 2003)

- Full registration: **\$43**
- Two-day Partial (no meals): **\$17**
- One-day Partial (no meals): **\$9**
- Full spouse/son/daughter: **\$28**
- Banquet only spouse/son/daughter: **\$16**
- Student (w/ valid ID, no meals): **\$5**
- Many things, like the raffle, remain the same:

Late or On-Site Registration

- Full registration: **\$50**
- Two-day Partial (no meals): **\$20**
- One-day Partial (no meals): **\$10**
- Full spouse/son/daughter: **\$35**
- Banquet only spouse/son/daughter: **\$20**
- Student (w/ valid ID, no meals): **\$5**

GRAND PRIZE To be announced

SPECIAL Register early to win a SW portable! One free entry for an early-bird registration received by February 12, 2003.

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 Holiday Inn at (215) 368-3800. For 2003, 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/naswal/>.

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 (I-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)

REGISTRATION:

- Full (\$43)
- Two-Day Partial (\$17)
- One-Day Partial (\$9)
- Spouse (\$28)
- Banquet only (Spouse) (\$16)
- 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 2/28/2003 cannot be refunded, however we will refund raffle ticket money if you have to cancel.

Company Store

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

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

Publications

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

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

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



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

MEMBERSHIP FEES:

United States (First Class Mail)\$26.00

Canada & Mexico (First Class Mail)\$27.00

Overseas (ISAL Mail):\$32.00

Overseas (Air Mail):

Central & South America and Europe\$36.00

Asia, Africa and Pacific\$42.00

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

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

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

