

The **NASA** Journal

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Radio Exterior de España

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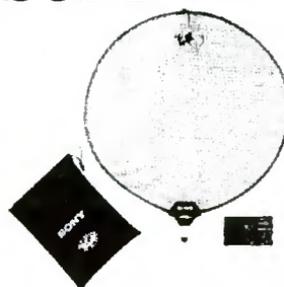
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North American Shortwave Association — America's Shortwave Broadcast Club

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

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- The AN-LP1 is not recommended for use with models ICF-SW10 or ICF-SW77.

Sony AN-LP1 Order #3676 \$89.95

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

Order #3841 \$22.95

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

Order #2993 \$21.95

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The Par EF-SWL is an end-fed short wave antenna optimally designed for 1-30 MHz reception. The radiator is 45 feet of genuine #14 gauge black polyethylene coated Flex-Weave wire (168 strands of #36 gauge woven copper). This material is very strong yet can easily be coiled like a rope for portable work. The UV resistant matchbox houses a wideband 9:1 transformer wound on a binocular core. Unlike other transformers, external stainless studs on the matchbox allow the user to configure the primary and secondary grounds for best noise reduction at their particular location. Output is via a silver/tellurium SO239 UHF connector. The radiator also attaches via a stainless stud allowing it to be removed, or replaced with a different length radiator for experimental purposes.

Par EF-SWL Order #2205 \$57.95



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

HEAR-IT Order #4048 \$194.95

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

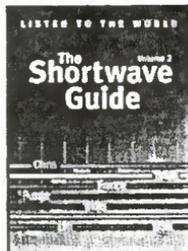
FR-200 Order #2200 \$39.95



PASSPORT TO WORLD BAND RADIO 2004

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

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THE SHORTWAVE GUIDE - LISTEN TO THE WORLD

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



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Time is running out for the special "prepublication" offer that **Mike Wolfson** is running at the Company Store (1842 Mifflin Avenue, Ashland, OH 44805). For orders postmarked by 15 November, the Company Store is taking orders for the 2004 *Passport to World Band Radio* for US\$18.90 plus shipping of US\$2.00 in North America and US\$4.00 elsewhere. Don't miss out on this excellent opportunity to purchase this superb hobby reference resource. Remember that all orders and checks payable in US funds to "The NASWA Company Store." Order today!

Bruce MacGibbon sends along sad information about the passing of **Bob Bodell**, who was a member of NASWA, SPEEDX and CIDX. He died on September 30, 2003. Bruce noted, "I am sure there are a lot of NASWA people that remember him. He was quite the DXer. Had it not been for Bob, I would never enjoyed the radio hobby as much as I have. He taught me everything he knew about tuning a radio." Just as I was closing the column for the month, I learned of the sudden passing of Canadian DXer **Andy Rugg**, a long time enthusiast of shortwave, medium wave, FM and ARO. Andy was at the Winter SWL Festival earlier this year.

Recently, **Mr. Karman Ng**, on behalf of Eton Corporation, the North American manufacturer and distributor of Grundig brand shortwave radios, contacted the club about the FCC BPL proposal. Karman "thought that it would be smart to get in touch and share ideas and thoughts about this issue, and perhaps strategize ways we can work together to fight BPL." Our project leader on this matter, **Joe Buch**, has initiated discussions with Karman about this subject.

Jeff White, President, National Association of Shortwave Broadcasters (NASB), informs us that on October 26, 2003, the NASB in the

United States began a 23-week series of special joint broadcasts produced by the organization's member and associate member stations. This is the first time in the NASB's history that it has produced joint broadcasts by its members. This series of broadcasts are being transmitted in the DRM (Digital Radio Mondiale) mode, as well as in traditional analog form. The broadcasts, titled "Voice of the NASB," are transmitted in the DRM mode each Sunday at 1330-1400 UTC on 9785 kHz, beamed primarily to Europe from the facilities of VT Merlin Communications in Rampisham, England. Each program is also broadcast on UTC Sunday at 0330-0400 on 7385 kHz, primarily to North America via WRMI in Miami, Florida. The broadcasts run from October 26, 2003 through March 28, 2004. A special NASB QSL card will be issued for reception reports on these transmissions, both digital and analog. Reports should be sent to the Voice of the NASB, P.O. Box 526852, Miami, Florida 33152 USA. There are 25 privately owned shortwave stations licensed by the Federal Communications Commission (FCC) in the United States and its territories. Eighteen of the 25 stations are members of NASB. Listeners in North America will be able to tune the analog broadcast of the Voice of the NASB which will be on local Saturday nights, although it is 0330 UTC Sunday. This transmission on 7385 kHz will preempt WRMI's regular program "Viva Miami" during the B03 transmission period through the end of March, 2004.

From member **Toshimichi Ohtake** we learn that the Japan Short Wave Club (JSWC) has begun programs offering DX-related information on transmissions of overseas broadcasters. Several minutes is allocated to the JSWC during the first Sunday edition of Wavescan, the DX program of AWR. Also, several minutes are given to the club during the fourth Saturday edition of the DX Partyline

program over HCJB. The DX segments are usually called "Far Eastern DX Report" or "Asian DX News." The JSWC is interested in receiving reception reports. They will issue QSL verification cards for correct reception reports provided either 1 International Reply Coupon or US\$1.00 is enclosed. Reception reports should be sent to: Japan Short Wave Club, P.O. Box 29, Sendai Central 980-8691 Japan.

Edition No. 16 of the comprehensive *Australasian Shortwave Guide* is slated for publication in November by the Electronic DX Press. The Guide contains over 1600 entries covering the international shortwave transmission period commencing October 26, 2003 and concluding on March 27, 2003. It provides information of English shortwave schedules to Australia, Asia, the Far East, the Indian sub-continent, and the Pacific, and for broadcasts in all languages beamed to Australia and the Pacific. 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. Schedules of Digital Radio Mondiale transmissions are included. It is 36 pages, saddle stitched in handy A5 format. The Guide is available for US\$10.00 in North America from **Bob Padula**, 404 Mont Albert Road, Victoria 3127, Australia. Payment should be by check (Australian dollars and payable at Australian banks), cash (Australian dollars, US dollars, Euros, British pounds, NZ dollars), money order, or international bank draft. Payment may also be made via Credit Card, using the PayPal service (if using this method, please nominate this E-mail address: bobpadula@bigpond.com).

From our member in San Francisco, **George Poppin**, the club has learned that **Daniel Bochert**, TDF's transmitter manager (all over the world) and for whom George has monitored TDF, retired on 1 October 2003. George has been a monitor for TDF since August 1985 and plans to continue in that capacity under new leadership. Congratulations to Daniel for many years of distinguished service in the radio field and best wishes for a happy, health and fun filled retirement.

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

How do you make a good thing even better? You issue timely updates! The first update for the electronic *Domestic Broadcasting Survey 5* (DBS-5), edited by well-known DXer **Anker Petersen** and published by the Danish Shortwave Club International (DSWCI), has been released. The latest information brings the e-mail pdf-format DBS-5 up-to-date. The latest offering of the DBS is highly accurate and has proved to be a valuable resource while DXing. See June's *Shortwave Center* for a comprehensive review of the excellent DBS-5. Copies can be obtained for US\$5.00, Euro 5 or 7 International Reply Coupons from DSWCI, c/o Bent Nielsen, Egekrogen 14, DK 3500 Vaerloese, Denmark.

Remember to stay on top of breaking shortwave developments with the club's electronic *Flashsheet*. This is the best way to stay on top of the ever-changing DX situa-

tion. You can participate by sending your latest logs to the electronic *Flashsheet* edited by **Sheryl Paskiewicz**, spasz@dataplusnet.com or P.O. Box 716 Manitowoc, WI 54221-0152. Each week the electronic *Flashsheet* brings a lot of exciting DX to members. Our electronic newsletter is an excellent supplement to the monthly *Journal* for the timely dissemination of DX loggings and breaking news. This is a service that is only available to members. Deadlines are posted in the *NASWA Flashsheet* each week. If you are a current member of the club and want to receive the electronic *NASWA Flashsheet* just drop Rich D'Angelo (rdangelo3@aol.com) a note with your e-

mail address, location and membership expiration date from your mailing label.

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

Calendar Of Events

Nov 21 Meeting. Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcsckp@aol.com.

Nov 21 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/>

Dec 13 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX) meets at the Lebanon Citizens' National Bank (LCNB), 425 West Central Avenue (Ohio 73), Springboro, Ohio at 7:00 PM. For more information contact Mark Meece at 937-743-8089 or e-mail at <antennapig@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>

Mar 12-13, 2004 Convention. The 17th Annual Winter SWL Festival, sponsored by NASWA, will be held at the *Best Western—The Inn at Towamencin* (Kulpsville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 12th and 13th March 2004. Richard Cuff and John Figliozzi co-chair the organizational committee. It's never too early to begin planning. See you there!

May 2004 Conference. AIB Global Media Business Conference. Association of International Broadcasting will held its third global media conference the second week of May in southern England bringing together public and commercial international broadcasters. Further details to follow.

Jun 4-6, 2004 AGM and DX Camp. The Danish Shortwave Club International will hold its **Annual General Meeting (AGM) and DX Camp** at Vejers Brach on 4-6 June 2004. Further details will follow.

Aug 2004 Get-together. The 11th annual **Madison Get-together for DXers and Radio Enthusiasts** will be held on a Saturday in August 2004 beginning at 1:00 PM CDT in Milwaukee, WI. This is an all-band event. Further information will be provided as we get closer to the event.

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

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

Musings

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

George J. Poppin <GPoppin@aol.com>, 2654 Seventeenth Avenue, San Francisco, CA 94116-0003

Perhaps some of our "old timer DXers" can benefit from my experience in our rose garden. This is a letter that I wrote to my children and will be published in the 20 September issue of the Home & Garden Section of the San Francisco Chronicle newspaper.

Am still a technical monitor for nine world shortwave radio broadcasters—Australia, BBC-WS, CRI, RFI, ISR, RAI, VOR, VOT and Radio Ukraine International—They receive my weekly reports every Saturday.

Best regards. George J. Poppin, Technical Monitor

My dear "chillin",

You're going to reach my stage in life one of these days so I might just as well pass on a few tips on living with older age. I'm 84 and will be 85 in about eighteen days or so. The one thing that you will notice at this stage of life is the overwhelming urge **not** to do things today that you can do tomorrow. Now that bothers me a bit because I have always been a "go gettumm" type of a guy. I have talked this over with Dottie but we cannot resolve that mode of operation except **forcing** ourselves to do those things.

I looked at the garden, made plans to weed the garden "tomorrow". Come tomorrow and there is a hang-up on that plan. So you postpone that to another "tomorrow". On and on it goes until you sit down and change into your gardening shoes at door to the basement, go downstairs, pick up the rug on which you will rest your knees, pick up the long handled, two pronged claw, a five gallon white bucket for the weeds that you're going to pull and head for the first spot that you intend to "weed". It happens to be in front, by the "Playboy" rose bush and to the left of the birdbath.

Now I venture in to do battle...I throw the rug down on terra firma, reach down and balance the weight of my body onto the two pronged garden claw and slowly bend my body down to the rug mat...oh, my aching back...the knees pop and crackle ...and I get down to my knees and reach over to loosen the long weeds with my garden claw.

As I pull up a clump of weeds with the right hand I see the soil trickles down from the handful of weeds onto to the left hand and I think... "My goodness, mother earth feels good to the touch...the nice, soft earth gripped in a clump of soil...brings an inner glow to my body. So this is what it is all about..."ashes to ashes...DUST TO DUST" ...my body will one day return to the soil whence it originally came from."

I further think...our bodies are never too far from the ground as we trod the ground in our daily lives. It's as if the soil beckons us to be near it...like "gardening" in the garden. Most of our lives are centered around the soil.

So why be hesitant about meeting our Maker...we are halfway there already.

Once the body assumes "the all fours" position, the body doesn't feel bad at all.... kinda feels good...could go on for a long time. BUT getting up is another situation. Here is the way I perform that task...I bend back on my knees.....put my right hand onto the gardening claw and bear down on the claw as a pivot to bring me up and into a bent forward standing position.....straighten out...keep my balance and I am in business ...of moving forward from an upright standing position.

I knock off about eleven o'clock...change to my daily shoes and come in the computer room for a good rest and view what I have done in the garden as the hummingbird peers at me through the window of the back room window. 'Alo der...my dear beauty of a bird.

I shall return (as General MacArthur said) let's see how I do tomorrow. Whaddya think?

Love, Dad

Bob Fraser, Box 174, Cohasset, MA 02025-0174

Recently, I sent off an international postal money order to renew my *BBC On Air* magazine. I was surprised and puzzled to receive it back. I have for years sent off international postal money orders for one thing or another and this is the first one ever refused.

One of the first things I learned once I got into international radio listening was that domestic money orders from US banks are worthless overseas. I have also found that to transfer US money from a local bank to overseas is quite expensive.

Has anyone else complained about this? I have not yet written to them to obtain a detailed explanation. They only sent a form letter reply checking the "other" box and handwriting, "US dollar cheques must be drawn on a US bank."

This is the first time I've had an international postal money order refused. I have been getting historical information for over 40years from England using this method with no trouble at all. Banks can transfer money overseas but it costs, more than what I can pay, and it is usually for big amounts anyway.

You would be interested to know that IRCs are rare at post offices here and aerogrammes seem to be a thing of the past. Too much e-mail they claim.

Sincerely, Bob

Bruce MacGibbon <bmacgibbon@hotmail.com>, Gresham, OR

Bob Bodell looked me up after seeing my name in Glenn Hauser's "Review of International Broadcasting." I do not remember the year Bob taught me how to listen to shortwave radio, the technical aspects. I think it was around 1985. Had it not been for Bob Bodell, I never would have enjoyed shortwave radio as much as I do now. I never would have been the editor of the *SPEEDXGRAM*, *Listener's Notebook*, the *DX SPREAD*, nor would I have won a trip to China in 1991. Bob spent a lot of time with me making sure I knew what I was doing. It was great having him as a mentor. He is going to be missed by me and the others that gathered at his house once a year and talked about shortwave radio and checked out the new equipment people had purchased.

If everyone had a Bob Bodell, we would not have to worry about a decreased listening of shortwave radio.

Bruce

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

By the time this month's bulletin makes it through the postal system, our first DXpedition to French Creek for this DX season will be history. I am looking forward to getting my new Ten-Tec RX-340 some DXercise. I have been looking forward to field testing the rx-340 since I purchased it from Universal Radio in August.

Bob Fraser's comments in his Musing reminds me of the "old days" when I used quite a few aerogrammes for sending letters overseas. Aerogrammes significantly cut the cost of writing to stations and were a staple of my early days in shortwave radio. Although I have not used them in years, I still receive letters from overseas using aerogrammes so in some countries they still exist.

73, Rich

FRENDX: Twenty Five Years Ago (November 1978)

Jerry Lineback's *Shortwave Center* was packed with features. Dan Robinson wrote about "Washington Connections: DX Experiences in the Nation's Capital" while Herman Speece wrote about his DXpedition in Alaska. A letter from Larry Magne, on behalf of NASWA and ANARC, to the head of the US delegation to WARC'79 was printed. Bill Whitacre wrote about the Racal RA-17 communications receiver. Dan Henderson reported that Chris Lobdell earned the following awards: African Continental DXpert, European Continental DXer, South American Continental DXer, North American Continental DXer, and Asian Continental DXer. John Kapinos, who later served as Awards Program Manager, earned the Ecclesiastic DXer award. Sam Barto noted that an even 100 countries were reported to the *QSL Report*. In Update, Tom Alleman noted "another distressingly small turnout but some fine catches." In his *Log Report* A column, editor Dan Robinson provided information about the first Washington Area DXers Association gathering attended by some 23 local radio enthusiasts.

Contribute!

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

N4S46b

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

On the Short Waves by Jerry Berg

<www.ontheshortwaves.com> Update, October 4, 2003—Under “Articles, Research, etc.,” “Full-Text Articles,” a copy of The Scott News, a newsletter published by the E. H. Scott Radio Lab during the 1930s to promote its line of high-end radio receivers. This issue, from March 1933, features highlights of reception by Scott while on the way to New Zealand, plus comments from satisfied customers the world over. Finally, there is a review of the Scott All-Wave Super receiver.

<www.ontheshortwaves.com> Update, October 9, 2003—Under “Articles, Research, etc.,” “Full-Text Articles,” an article by Dr. Frank Glen of New Zealand, “A Passion With A Purpose—The Prisoner of War Message Service, 1951-1952.” The POW message services of World War II are now fairly well known. This article, which appears in the September 2003 edition of the New Zealand Radio DX League’s *New Zealand DX Times*, chronicles a similar but little known effort during the Korean war wherein SWLs monitored POW broadcasts over Radio Peking and passed their contents along to loved ones and the government. Thanks to Frank Glen and the NZRDXL for permission to reproduce this excellent article. By the way, Frank would very much like to locate Mrs. D. Millspaugh who is mentioned on page 5 of the article. If anyone has any information about her, please contact me at jsberg@rcn.com.—Also: We have added a photo of ISWC founder Arthur J. Green on page 5 of George Zeller’s article, The Founding of the International Short Wave Club in Klondyke, Ohio.

<www.ontheshortwaves.com> Update, October 19, 2003—Under “Articles, Research, etc.,” “Pot Pourri,” some postcard views of stations. (1) An undated view of WLW, which also transmitted on shortwave as WLWO, and subsequently became the VOA Mason, Ohio transmitter site. (2) Broadcasting House in Oslo, Norway, 1949. (3) An undated view of a radio station in Motala, Sweden. World Radio Handbooks of the late 1940s and early 1950s indicate that Radio Sweden transmitted from Motala with 12 kw in those days. (4) A 1942 view of the RCA “Radio Central” at Rocky Point, Long Island, New York, a major utility transmitting plant of the day. (5) An undated view of the broadcast house in Berlin (note swastikas on the flags). (6) An undated postcard of a station in China. On the back of the card is printed: “The Radio Station. In Taihoku, not only for the Island people, but broadcasts to the South in English, Dutch and Chinese.” For help on this one, both Adrian Peterson and Henrik Klemetz referred me to Adrian’s previous *Wavescan* articles on the early radio scene in Taiwan, in particular *Wavescans* #268 (February 13, 2000) and 342 (July 15, 2001; see the *Wavescan* articles under “Articles, Research, etc.,” “Research,” for #342). Adrian points out that Taihoku was the name for Taipei, Taiwan, when the island was under the Japanese in the era before WW II. So the postcard is from Taiwan, and Adrian feels it probably dates from around 1940, most likely being from JFAB/JFAK, which broadcast first on shortwave, and later on both SW and mediumwave. Thanks, AP and HK.

Easy Listening

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

Radio Netherlands Overhauls Schedule

For as long as I can remember, **Radio Netherlands** had one quaint characteristic versus its international broadcasting peers: its English broadcasts began on the half hour—2330 UT, for example. Well, with the autumnal time change just past, Radio Netherlands changed its schedule to a top-of-hour start. Broadcasts targeting North America are reduced by three hours per day, with three of the four morning hours disappearing. The alternate-day repeat airings of programs are also eliminated. However, a new two-hour block airs weekends at 1900. The new schedule for shortwave is the following:

0000 UT: *News* (Sundays, Mondays), *Wide Angle* (Sundays, Mondays), *Insight* (Sundays), *The Week Ahead* (Mondays), *Newsline* (Tuesdays–Saturdays), 9845 kHz

0030 UT: *Amsterdam Forum* (Sundays), *Vox Humana* (Mondays), *Research File* (Tuesdays), *EuroQuest* (Wednesdays), *Documentary* (Thursdays), *Dutch Horizons* (Fridays), *A Good Life* (Saturdays), 9845 kHz

0100 UT: *News* (Sundays, Mondays), *Europe Unzipped* (Sundays), *Insight* (Sundays), *Wide Angle* (Mondays), *The Week Ahead* (Mondays), *Newsline* (Tuesdays–Saturdays), 6165 kHz

0130 UT: Same as 0030, 6165 kHz

0400 UT: Same as 0100, 6165 and 9590 kHz

0430 UT: Same as 0030 and 0130, 6165 and 9590 kHz

1200 UT: *News, Wide Angle* (Sundays), *Week Ahead* (Sundays), *Newsline* (Mondays–Fridays), *Europe Unzipped* (Saturdays), *Insight* (Saturdays), 5965 kHz

1230 UT: *Vox Humana* (Sundays), *Research File* (Mondays), *EuroQuest* (Tuesdays), *Documentary* (Wednesdays), *Dutch Horizons* (Thursdays), *A Good Life* (Fridays), *Amsterdam Forum* (Saturdays), 5965 kHz

1900 UT: *Documentary* (Sundays), *Vox Humana* (Saturdays), 15315, 17725, 17875 kHz

1930 UT: *News, Wide Angle* (Sundays), *The Week Ahead* (Sundays), *Europe Unzipped* (Saturdays), *Insight* (Saturdays), 15315, 17725, 17875 kHz

2000 UT: *Vox Humana* (Sundays), *Amsterdam Forum* (Saturdays), 15315, 17725, 17875 kHz

2030 UT: *News, Wide Angle* (Sundays), *Europe Unzipped* (Saturdays), 15315, 17725, 17875 kHz

Vox Humana replaces *Aural Tapestry*, which has recently been alternating seasonally with *Sound Fountain*. This new program features the combined talents of both teams: Michele Ernsting, Dheera Sujana and David Swatling. According to Radio Netherlands' *On Target* brochure, *Vox Humana* is a "...celebration of the Human Voice. Stories, dreams, songs, poetry—the human voice embraces them all."

The weekly *Documentary* series will feature a periodic series called *Under Foreign Skies*, featuring the personal stories of Dutch people abroad who are having a quiet impact in their field.

The biggest loss from the Radio Netherlands schedule will be *Sincerely Yours*, the listener contact program. At this time there will be no direct replacement for the series.

The time changes will probably be the most disruptive aspect of the new schedule, since many listeners for years have ordered their listening patterns to incorporate their favorite Radio Netherlands programs. Conversely, since most listeners tend to think of broadcaster schedules beginning at the top of an hour, it's conceivable that new listeners might find Radio Netherlands more easily this way. One subtle change in the schedule is that the early evening broadcast, previously a contiguous two-hour block, is now technically two separate hours—on two different frequencies.

In recent months, Radio Netherlands has reorganized its Internet audio archive so that each program is available on-demand for a week, until a new version goes to air; this is one way that you can listen to your favorite programs without specific regard for schedule effects. Most, if not all, Radio Netherlands programs will be available for on-demand listening; I, for one, having two elementary school-age children, am grateful for this feature!

Speaking of websites, a companion website to the *Dutch Horizons* program will provide more in-depth information about all aspects of life in the Netherlands.

Radio New Zealand International's transmitter problems are resolved...we think

Radio New Zealand's transmitter was off the air since late August until recently; the problem was attributed to a major lightning strike. Its 24-hour shortwave schedule is now in effect, and with darkness extending later here in North America, we might be able to hear Radio New Zealand International for a bit longer in the USA mornings. However, recent sunspot activity has disrupted shortwave propagation, so, as usual, your mileage may vary.

RNZI's frequency schedule changed as of 26th October; the new schedule is as follows:

0400-0759 15340 kHz
0800-1059 11675 kHz
1100-1259 15530 kHz
1300-1750 6095 kHz
1751-1850 11980 kHz
1851-2239 15265 kHz
2240-0359 17675 kHz

Deutsche Welle introduces "Europe in CAPITALS"

I don't have many details yet, but I heard a promotional announcement for a new weekly series entitled *Europe in CAPITALS*, consisting of a series of documentaries on the capital cities of the existing European Union countries, plus those countries scheduled to join the EU as of 2004. The promotional announcement stated the new program would air on Wednesdays and Thursdays (I think); it would appear that the program would air every other hour from 1630 Wednesdays to 0830 Thursdays, then from 1130 Thursdays every other hour through 1530 Thursdays. Not all hours air via shortwave (surprise!); watch the *swprograms* group, the *NASWA Flashsheet*, and other electronic media for updates on usable Deutsche Welle frequencies after the seasonal changes.

Voice of Russia new programs

Wednesdays, 0440: *Ladies of Character* will tell you of smashing careers and charismatic personalities and will throw a light-hearted glance on what makes a successful personality. Is it worthwhile chasing a career at the expense of a family or should there be a golden mean, and, if so, where to look for it? How does personality influence the choice of profession and is there a reverse impact? How do different people handle similar problems? Sharing your life philosophy will save you hours of tiring consultations and analytical reading. (from the VOR website and Maryanne Kehoe)

Tuesdays, Thursdays, Saturdays, 0430: **The River of Time**. Your guess is as good as mine; probably a history program.

Look for the **Voice of Russia** on the following frequencies, via Maryanne Kehoe:

02:00-03:00, 15595, 15445, 9765, 7180, 6155;

03:00-04:00, 15595, 15445, 7350, 7180, 6155;

04:00-05:00, 15595, 15445, 12010, 7240, 7350, 7180, 7125

05:00-06:00, 15595, 15445, 12010, 7240, 7180, 7125

Radio Canada International: No new programs, but...

RCI will do its usual schedule shuffle, though no changes in the programs themselves will occur. CBC's Northern Quebec shortwave service will advance one hour UTC with the return to Standard Time. Speaking of the Northern Quebec service, most of the Saturday and Sunday hours are in English, offering you a chance to catch some domestic gems that don't make their way onto RCI. One such gem is a radio satire feature, **What A Week**, airing Saturdays 1630. **What A Week** looks at recent domestic and international news events; while I am not up enough on domestic politics to follow all of the laughs, a piece on postwar Iraq was a hoot. This might be a repeat from earlier this year, as the program's webpage only mentions a 12-week schedule of programs airing from April to June of 2003.

BBC World Service changes and new features

Initial inspection of the new **BBC World Service** schedule continues the recent trend of shifting the local evening service (2300-0600) forward one hour (to 0000-0700). However, the morning service stays generally the same from 1100 to 1700, though

the current 1100 features shift to 0900, the current 1000 features move to 1100, and **World Update** shifts from 0900 to 1000. Following are some programming specifics:

Saturdays, 1032 and 2332, plus Sundays, 0332: **The Interview** is the new name for the weekly program formerly called **Agenda**; the program continues to interview the world's prominent personalities.

Mondays, 0032, beginning October 27th, with repeats Mondays 1532 and Tuesdays 0232: **Quote, Unquote** returns for a six-week run. This panel game show focuses on anecdotes and quotations, and also answers listeners' questions (presumably on the origins of quotations and aphorisms).

Sundays, beginning November 2nd, 0106: **Top of the Pops** expands to 55 minutes. Emma B counts down the UK Top 20 singles, and there's also a look at the latest album chart. Interviews and listener competitions will also be a part of the program.

Tuesdays, beginning November 4th, 1432, repeated Wednesdays, 0132: **White Label** is a brand new 25-minute weekly program presented by Mark Goodier that aims to sift through the most exciting forthcoming pop releases from some of the world's most prominent musical artists.

Wednesdays, beginning November 5th, 1406; repeated Thursdays 0106 and Sundays 1306: **Paradise Lost?** is a new four-part 25-minute documentary series looking at the contemporary Caribbean region and Mexico, more than 500 years after Columbus' initial visits describing the region as paradise. Current developments are juxtaposed against the stories of the explorers and *conquistadores* of the 15th and 16th centuries.

Sunday, November 9th, 1030: The annual **Service of Remembrance from The Cenotaph** airs to all regions. This service is held annually on the Sunday closest to Armistice Day (Veterans' Day in the USA). The Cenotaph

taph is Britain's War Memorial; its name is derived from the Greek words for "empty tomb", as this memorial does not incorporate any tomb (unlike Arlington Cemetery's *Tomb of the Unknown Soldiers*)

Mondays, beginning November 10th, 1406, repeated Tuesdays, 0106 and Mondays, 0006: *Auto Motive* is the other new documentary for November. This six-part series is presented by Peter Day (one of my favorite World Service personalities, who also presents *Global Business*) and looks at the enormous impact the automobile has had on our lives over the decades.

Fridays, beginning November 14th, 1406, plus Saturdays, 0106 and 0606: *Sport and the Nation* is a three-part 25-minute series on the relationships sports have with national pride; the capabilities of sports to bring nations together, as well as divide them, are reviewed by Alex Capstick.

Fridays, beginning November 14th, 2332, repeated Sundays 0432: *Omnibus* features a three-week series on Afro-Colombians, descendants of runaway slaves who live on the relatively remote Pacific coast of Colombia. Afro-Colombians have developed their own culture and music, derived from their African roots.

Mondays through Fridays 0445 and 1345, plus Tuesdays through Saturdays, 0045: *Off The Shelf* features a ten-part serialization of Ian Fleming's *Casino Royale*, the first book in Fleming's *James Bond* series. *Casino Royale* was written in 1953; it airs in *Off The Shelf* editions beginning November 24th.

Wednesdays, beginning November 26th, repeated Wednesdays 2245 and Thursdays 0245: *Aids and Faith* is a three-part series in the *Heart and Soul* series; this program looks at how people's experience with AIDS has changed their relationships with God. From rejection to alternative spirituality to compassion, various religions responses to AIDS are explored.

Wednesdays, beginning November 5th, 1506, repeated Thursdays 0206: *Discovery* carries the AIDS theme forward with a special four-part series on the history of AIDS diagnosis and current research to develop vaccines. The initial cancers that were later attributed to AIDS were first discovered in New York in 1981.

What are you listening to these days?

I tend to write about the subjects and stations I'm interested in, which might have little to do with your favorite broadcasters and programs. So—what programs do you seek out? Which programs would you recommend to others that they might not have heard before? I'd love to pass along your winners and losers to others...but I can't unless you send them to me. Whether you invest 5 minutes in an e-mail or 23 cents in a post card, please drop me a note. Your fellow members will thank you—and so will I!

See you in December.

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/>.



Technical Topics

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FCC's Cheerleader Does BPL Cartwheels

FCC Commissioner Kathleen Q. Abernathy spoke before the United PowerLine Council Annual Conference on September 23, 2003. If you get the impression the FCC considers BPL a done deal, you are correct. Ignoring the thousands of comments filed by opponents to BPL, she gushed the following speech in support:

"Thank you very much for inviting me to speak with you. I am very excited about broadband-over-powerline technology. I have seen it in action, and I believe it has a very bright future. It is a real honor to be your keynote speaker at this important juncture for BPL.

"As a regulator, I am keenly interested in BPL technology for a number of reasons. One of my central objectives as an FCC commissioner is to facilitate the deployment of broadband services to all Americans. I also fundamentally believe that the FCC can best promote consumer welfare by relying on market forces, rather than heavy-handed regulation. The development of BPL networks will serve both of these key goals. It will not only bring broadband to previously unserved communities, but the introduction of a new broadband pipeline into the home will foster the kind of competitive marketplace that will eventually enable the Commission to let go of the regulatory reins. I want consumers to have a choice of multiple, facilities-based providers, including not only cable and DSL, but also powerline, wireless, and satellite services. Such a robustly competitive and diversified marketplace is something I would call broadband Nirvana. We will not get there overnight, but the continuing development of BPL technology is a major step forward.

"While the long-term objective is a robustly competitive marketplace that is free of regulatory distortions, a more immediate question is: What should the FCC do to help foster such an environment? Sticking with my Nirvana metaphor, I guess the question would be, what is the path to enlightenment?

"I believe the answer, in short, is regulatory restraint. It is tempting for regulators to take every new technology or service that comes along and apply the same rules that govern incumbent services. After all, regulatory parity and a level playing field are intuitively appealing concepts. But I believe that it would be a huge mistake to carry forward legacy regulations whenever new technology platforms are established. Many of our regulations are premised on the *absence* of competition, and when that rationale is eroded, we must not reflexively hold on to regulations that no longer serve their intended purpose. In fact, many of our old rules not only become unnecessary as markets evolve, but they can be fatal to new services that need room to breathe.

"This policy of restraint is something I have described as the Nascent Services Doctrine. By avoiding the imposition of anachronistic regulations, regulators can best allow new technologies and services to flourish. Once facilities-based competition has taken root, regulators can begin to dismantle legacy regulatory regimes, rather than extend those regimes to include the new platforms. This is not a matter of picking winners and losers; it is about creating an environment conducive to investment in new infrastructure, because new platform providers create competition

and innovation that ultimately benefits consumers far more than prescriptive regulation. In essence, short-term regulatory disparities are tolerated to generate long-term facilities-based competition.

“Incubating new technologies and platforms helps establish new facilities-based competitors, and the increased competition ultimately delivers to consumers the benefits of lower prices, better service quality, more innovation, and more choice. Regulatory restraint is a necessary part of fostering such competition, because there is little doubt that overregulation can do substantial damage to nascent technologies and platforms. As the recent turbulence in the capital markets has shown, companies take enormous risks when they invest heavily in communications networks—such as the broadband networks being built today. To avoid creating additional disincentives to invest—beyond those risks that are inherent in the marketplace—we must resist the reflexive tendency to apply legacy regulations to new platforms.

“As I will discuss in a moment, regulatory parity is an important *long-term* goal, because applying different regulations to providers in a single market inevitably causes marketplace distortions and leads to inefficient investment. As a *short-term* policy, however, accepting some degree of disparity is not only tolerable, it is essential. For example, when the DBS platform was created, it was appropriately exempt from most of the legacy regulations imposed on cable operators. This regulatory restraint allowed those nascent platforms to develop into effective competitors. Today, as electric utilities, wireless carriers, and satellite operators strive to bring new broadband platforms to market, it will be equally important to avoid stifling those nascent platforms with the

heavy-handed broadband regulations associated with the wireline telecom platform. Just as you would not build a tree house in a sapling—because you might kill the tree and hurt yourself in the fall—it does not make sense for regulators to immediately and reflexively burden new providers with a full regulatory load. If the ultimate goal is to develop sustainable facilities-based competition—and I think it is—it seems reasonable to me to allow the new service to develop free of most legacy regulatory burdens.

“There are two distinct applications of this doctrine. First, it applies to *nascent technologies*, which appear in the market without any clear sense of the services they will ultimately support or the markets in which they will ultimately compete. And second, it applies to *nascent platforms*, which I think of as new competitors to incumbents in already-defined markets. Ultra-wideband is an example of a nascent technology. We do not know precisely how this technology will be used, but we do know that it has tremendous potential and we should approach it in a restrained manner. Broadband over powerline is the quintessential example of a nascent platform. There is little question that BPL services will compete with more-established cable modem and DSL services—and in some markets, satellite and fixed wireless services.

“The FCC has a pretty good track record of adhering to these principles. When wireless voice services were first developed, the Commission refrained from imposing common carrier price and service-quality regulations, despite many calls to do so in order to establish parity with wireline regulation. Similarly, the Commission generally took a hands-off approach to DBS services as they emerged as competitors to cable in the MVPD market.

"I am especially pleased that, when the FCC adopted its Notice of Inquiry on BPL systems in April, we rejected proposals to seek comment on the application of legacy regulatory requirements to this platform. For example, some argued that the Commission should consider issues such as nondiscriminatory access for unaffiliated ISPs, and other regulatory requirements imposed on common carriers. I opposed such efforts because it is premature even to *consider* such regulatory intervention. We do not know at this point how BPL systems will evolve or, candidly, the extent to which BPL services will succeed in the marketplace. The flow of capital at this formative stage is critical. If the Commission signaled that it was heading down a path toward extension of our legacy rules, that would have a chilling effect on investment. Therefore, raising the specter of heavy-handed regulation—that is, ignoring the central premise of the Nascent Services Doctrine—would threaten to undermine our core goals of fostering facilities-based competition and broadband deployment.

"Of course, the interest in nurturing nascent platforms cannot justify preserving regulatory disparities forever. While my Nascent Services Doctrine calls for tolerating short-term disparities, it also recognizes that the *benefit* of such disparities is that they provide the impetus to reconsider the appropriateness of our regulation of incumbent providers. If we succeed in spurring investment in new platforms—and robust facilities-based competition takes hold—we can then begin to dismantle regulations imposed on incumbent providers and replace them with more appropriate rules. In this way the Nascent Services Doctrine provides a laboratory to assess the necessity of our regulatory intervention on the incumbent provider when compared with its nascent competitor.

In contrast, if we were to extend legacy regulations immediately in a reflexive drive toward symmetry, that would assume the ongoing need for the underlying regulation and never allow us to assess deregulation in the real world. Indeed, reflexive symmetry actually institutionalizes the legacy regulation by imposing it on more providers across all platforms, ultimately making it all the more difficult to remove regulations from the books—even after they have outlived their usefulness. The Nascent Services Doctrine places the burden on the regulator to re-institutionalize the regulations after a new competitor has established itself in the marketplace.

"We are seeing this process unfold right now as we review the rules applied to wireline broadband services offered by incumbent LECs. The emergence of cable operators as the leading providers of mass market broadband services makes clear that applying more stringent regulations to wireline providers at a minimum must be reconsidered. As other platforms, including BPL and wireless, become more widely available, that will further undermine the justification for regulating incumbent LECs' broadband services as if they were the only available offerings. When the Commission completes this rulemaking, I expect that we will eliminate many existing rules and substantially modify others; the central question is the degree of regulation that will remain during the transition to a more robustly competitive market.

"Finally, it is important to recognize that although the emergence of new platforms like BPL will eliminate the need for many *competition-related* regulations, *other* types of regulation may well remain necessary. For example, the FCC must implement public policy goals unrelated to competition, or even at odds with competition. Universal ser-

vice and access for persons with disabilities are examples of this kind of regulation. These public policy goals generally should be applied to *all* service providers, to the extent permitted by the Communications Act. The FCC also must intervene to prevent competitors from imposing externalities on one another and to protect consumers where market failures are identified. Although, as I have noted, the Commission was right to refrain from imposing heavy-handed price and service-quality regulations on PCS services when they were introduced, it was also right to adopt strict interference rules to prevent competitors from externalizing their costs. The same principle will apply to BPL. The key point is that, while some degree of regulation is both inevitable and desirable, we should ensure that it is narrowly tailored to the particular governmental interests at stake."

Editorial Comment: Note that Commissioner Abernathy made not even one cautionary comment about the potential for interference to or from existing radio services. In the mad dash to free up BPL from any regulation this Commissioner apparently has her head in the sand. Is it fair to investors in this new technology to not point out the serious business risks associated with a technology that will likely be delayed and hopefully trashed because of its serious technical flaws? I think not. In that regard the FCC, through its blind advocacy of a flawed technology, is doing a disservice to the folks who are putting their money into these fledgling BPL companies.

NASWA is working behind the scenes with other opponents of BPL. We will continue to do that until either BPL is trashed or BPL trashes shortwave radio. I will bring you news of this continuing effort in future months.

Until next time, stay tuned.



WELCOME TO THE FOLLOWING NEW MEMBERS

BILL DVORAK, Madison, WI
DENNIS FILKA, Parma Heights, OH
WAYNE WIRTH, North St. Paul, MN
DAVID S. GLADDEN, Riverdale, GA
LEON SAGALOFF, Dillon, MT
DAVID McLAREN, Rock Falls, IL
JOSEPH T. OLIG, Madison, WI
ROBERT A. BABIN, Shrewsbury, MA
JOHN K. McNUTT, Oklahoma City, OK
BEN J. JOHNSON, Westland, MI
BARRY HOYT, Reading, MA
TERRY NETZLEY, Ludlow Falls, OH
DONALD STEGNER, Powhatan, VA
DAVE HETRICK, Jacksonville, FL
ARTHUR T. YARROW, Salisbury, NC
TED ESTES, Lenoir, NC
DAVID SUNDEAN, Edinboro, PA
LEROY DAVIS, Lewes, DE
MARK G. GOODWIN, Saline, MI
JOHN LENESE, New York, NY
JAMES COLBERT, Albuquerque, NM
MARK TAYLOR, Madison, WI
GREG KHEDERIAN, Westford, MA
BRUCE BURROW, Snoqualmie, WA
J.R. EDER, Manning, SC
RON PFERDEHIRT, Coolidge, AZ

Shortwave Center

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The old good times? Tropical Bands in review

Lecture by Anker Petersen held on the 16th of August 2003 at the EDXC Conference in Königstein, Germany.

Introduction

As one of the founders of the European DX Council (EDXC) it is a great pleasure for me to be here in Königstein this weekend. It is nice to see that the EDXC is still much alive after 36 years of existence. It is also nice that its many active member clubs on shift have been able each year to organize an Annual EDXC Conference where we can meet and discuss current issues. My thanks to Dr. Harald Gabler and the Rhein-Main-Radio-Club for inviting us once more to a Conference here in Germany.

To throw the theme for this Conference: "DX-ing in the digital future" in relief, Harald Gabler asked, if I could talk about the old good times before the digital age and give a review of the broadcasting on the Tropical Bands. I will try not to be too nostalgic, but rather look closely on the past and future development of this broadcasting.

Let me first remind you that the Tropical Bands include the 60, 90 and 120 metrebands on shortwave. The International Telecommunication Union (ITU) has allocated these bands for domestic broadcasts in principle to countries located in the Tropical Zone between the Tropic of Cancer on 23 degrees north and the Tropic of Capricorn on 23 degrees south. This is to give them a safe heaven where they are not supposed to be disturbed by strong international broadcasters.

In many developing countries, radio is still the primary medium and much more widespread than tv. In Nigeria, for instance, with a population of 130 million, today there are about 24 million radio sets, but only about 7 million tv sets. Printed newspapers play only a minor role in countries where more than 50% of the population are illiterates.

In a few countries, however, the term Tropical Zone has been subject to a wide interpretation. The former Soviet Union, for instance, declared in 1959 that "it reserved the right to use the broadcasting assignment existing in the bands between 3,950 kHz and 27,500 kHz in the USSR in accordance with the needs of this country!" Many of you will remember some of its many, strong stations on the 60 metreband like Kiev on 4940 and Petrozavodsk near St. Petersburg on 5065 kHz. Even Yakutsk in Siberia on 62 degrees north was broadcasting on several frequencies. They could be heard here in Europe each winter when Yakutsk had temperatures down to minus 50 degrees Celsius—but obviously it was their "Tropical Winter".

To DXers, these Tropical Bands were, and still are, very interesting, because so many stations in exotic countries can be heard, often with good reception. About 80% of the active stations can be heard here in Europe under the right propagation conditions. I began to listen to the Tropical Stations back in 1959 when I bought a small shortwave receiver with the 60 metreband for 85 Danish Kroner which equals to 12 Euro today.

My first DX on 60 meters in March–July 1959

4800 kHz—Ondas del Lago, Maracaibo, Venezuela

4890—Rádiodifusora Venezuela, Caracas, Venezuela

4710—Radio Kabul, Kabul, Afghanistan

4865—Emissor Regional dos Açores, Ponta Delgada, Azores

4940—Radio Abidjan, Abidjan, Ivory Coast

4885—Cable & Wireless, Nairobi, Kenya

4760—Radio Congo Belge, Leopoldville, Belgian Congo

4851—Rádio Clube do Huambo, Huambo, Angola

Here you see the first stations I identified. Quite nostalgic, isn't it? None of these stations exist any longer on shortwave today. But there are still some other stations which can be heard on the Tropical Bands. That raises these questions:

How many have disappeared?

Where have they gone?

When will the last stations disappear?

That is what I will try to analyze during the rest of my talk. Since 1959, listening to the domestic broadcasting stations on the Tropical Bands has been the favourite part of my DX hobby! Furthermore, during the past 20 years I have visited a lot of tropical countries in Central and South America, the Caribbean, Africa, Asia and the Pacific.

Tropical Bands Survey 1973:

	kHz	kw	Station & Country	Transmission times in GMT
A	4775	100	Kabul, Afghanistan HS:	1430-1730, FS: 1300-1400 Urdu, 1400-1430 E
C	4775	10	AIR Gauhati, India	1030-1215 (Gauhati B)
B	4775	1	R Los Andes, Bolivia	1000-0400
B	4775	5	R Dragao do Mar, Brazil	0900-0100
B	4775	1	Voz de Maria, Colombia	1100-0400
A	4777	100	Libreville, Gabon	0430-0630 1630-2300, prolonged Sa/Su
B	4778		R Nac. Progreso, Ecuador	r—0436, r 0545-0555 (ex 4740)
A	4780	50	Petrozavodsk, USSR	0200-2200 M1, local 1500-1530 // 5065 Ru, Finnish

But my own DX experiences are not sufficient for a thorough analysis to this forum. It has to cover the stations worldwide, monitored on a regular basis, also those which cannot be heard in Denmark due to propagation limitations.

Tropical Bands Survey and Domestic Bands Survey

Fortunately for this analysis, the Danish Shortwave Club International can provide documentation on this broadcasting from the past 30 years. Back in 1972 another Danish dxer, Mr. Carol Feil and I decided that the Club with its members in more than 40 countries should publish an annual list called the Tropical Bands Survey (the TBS). It was a frequencylist covering all active broadcasting stations between 2.200 kHz and 5.800 kHz and their schedules. It has been published every year since 1973, edited by various members of the Club living in Denmark, Germany, the Netherlands and Argentina. Some data from these annual surveys will be used for my analysis.

In 1999, however, our publication was expanded to cover all active domestic broadcasting stations on shortwave from 2 to 30 MHz. Then it changed name to the Domestic Broadcasting Survey (the DBS) which I now am editing.

Let me show you small extracts from these surveys published in June 1973 and May 2003 covering the frequency spectrum 4.775 to 4.780 kHz, just for comparison.

A	4780	4		Djibouti, Afar & Issas	W 0300-0600 0900-2200, Su 0500-2100v
B	4780	5		Em. Reg de Menongue, AGL	1700-1900, r 2134
B	4780	1		R Atahualpa, Ecuador	1045-0435, r /1100-0520v
A	4780	1		La Voz de Carabobo, VEN	1000-0400

Domestic Broadcasting Survey 2003:

	kHz	kw	ITU	Station	Schedule (UTC) remarks Last log
B	4775	1	B	R Congonhas, MG	[Oct-Feb] 0830-0100v P. Evangelical px JAN03
B	4775	50	IND	AIR Imphal Northeastern	See: 0030-0215 1030-1700/1730 E/Hindi, E nx 0035 1225(local) 1530, ID: "Akashvani Imphal", (= 7150). Off Mar-Oct FEB03
A	4775	0,5	PRU	R Tarma, Junin	W 1000-1400 2000-0400, Su 1100-1400 2000-0400 P, d 4774.9 - 4775.3 APR03
B	4775	50	SWZ	TWR Mpangela Ranch	International broadcasts: 0340-0500 MAR03
B	4777	100	GAB	Rdif tv Gabonaise	Reactivated March 2003, r 1730-1900* F Libreville APR03
B	4780	1	GTM	R Cultural Coatán	1100v-1500 2200-0230v S/Chuj. San Sebastián Coatán Off Jan 2000-Jul 2002. APR03
C	4780	0,3	PRU	R Satélite, Santa Cruz	2300-0300v S, r to be from Cutervo, ex 6726 Cajamarca OCT02

The key words in the policy for our publications are "active stations" which means that they should be up-to-date and only contain stations which have been reported heard by DXers during the past 12 months. All other stations are moved to an attachment of deleted stations. A few ones of these may be reactivated later on.

On the slide you see an activity Code to the left where A means Regular, B Irregular and C Sporadic, as deemed by the Editor. Furthermore the DBS has been expanded with a column to the right called "Last log" indicating the last month during which the station has been heard. This is a useful feature for the DXer who tries to identify a station.

Of course the information in the DBS has to be as correct as possible. Therefore it is necessary to recheck official schedules and reports from DXers, because from time to time they contain typing errors, or are outdated.

The task for the editor is therefore, throughout the year until the next publication, to check the bands himself and follow the loggings from our members around the world. For each station in the list, a note is taken of the months when it has been heard. Furthermore loggings are followed in as many printed and internet DX-publications as possible. Nowadays the network of DXers around the world is very extensive via the internet, so a station can hardly appear on the Tropical Bands without being discovered and reported by DXers somewhere within a week or so.

Trends in Tropical Broadcasting

With this systematic registration of broadcasting stations on the Tropical Bands each year, it is possible to make some statistics on how many frequencies were active in each part of the world and compare these numbers.

I have selected the Tropical Bands Surveys published with 12 years intervals in 1973, 1985 and 1997, and the Domestic Broadcasting Survey from 2003. For each of these four years I have then counted the number of active Domestic Broadcasting stations between 2,200 and 5,800 kHz. This also includes the frequency spectrum between the official bands, because some stations are broadcasting there as well. International broadcasters, Clandestine and Pirate stations are not included in these statistics.

Active domestic transmitters on 2200-5800 kHz

Region	1973	1985	1997	2003
Central Africa	102	76	40	26
Southern Africa	57	39	33	9
Middle East	9	4	1	0
Subcontinent	62	45	45	36
South East Asia	40	29	21	7
Indonesia	171	105	65	19
China, Taiwan, Mongolia	119	110	75	44
CIS (former USSR)	61	59	47	21
Far East	38	28	28	17
Papua New Guinea	17	20	20	20
Australia, N.Zealand, Vanuatu	10	4	13	7
Central America, Mexico	21	23	24	17
Caribbean	29	3	3	4
NW South America	98	41	19	5
Ecuador	47	33	22	13
Peru	78	69	78	53
Bolivia	35	42	25	15
Brazil	107	87	67	50
S. South America	5	2	1	0
Total	1106	819	627	363

This slide shows the number of active frequencies used by stations in various parts of the world for domestic broadcasting. During this period of 30 years, most of the countries have had the same, downgoing development in the use of the tropical bands for broadcasting. At the bottom line you see that the total number has steadily fallen from 1106 in 1973 to 363—or one third—in 2003. All these numbers answer my first question: How many have disappeared?

I will now comment on some of the countries and try to answer the next question: Where have they gone ?

Five months ago I visited the smallest independent nation in Africa, São Tomé e Príncipe, which is also one of the most poor countries. I saw the remains of the former tropical band transmitter of Rádio Nacional de São Tomé e Príncipe broadcasting on 4807.5 kHz with 10 kw. Some of you may even have heard it around year 1980. The transmitter was provided and maintained by Portugal when the islands still were a colony. But at the independence in 1975 the Portuguese left the islands, and because no other nation did support, the transmitter and antenna were never maintained properly. According to our Tropical Bands Surveys, the station was regularly heard until mid 1982, but only sporadically the succeeding three years. During a storm in 1985 the antenna broke down and the shortwave transmitter has been off the air since then. In March 2003, I saw the remains of the transmitter building and the broken antenna which still are there! The U.S. has leased the site and now operates the VOA Pinheira relay station from there; but also the mediumwave transmitter of Rádio Nacional on 945 kHz. I think this is typical for many of the developing countries. Because of lack of money, or knowledge, or both, they are only able to run shortwave transmitters until these fall apart, unless they get support from abroad.

From Ghana a DXer, Charles Wompiah, reported this spring that the transmitter of the Ghana Broadcasting Corporation, Radio One, broadcasting mostly in African languages on 4915 kHz, had been off the air for two months due to a breakdown of the old valves. It came back only because valves were cannibalized from the Radio Two transmitter which broadcast daytime on 6130 kHz and at night on 3366 kHz all in English. Radio Two has not been heard since April. This is a typical example of an old shortwave transmitter installed right after the independence by a foreign contractor who no longer exists, and all spareparts in the meantime have been used up.

Our Scottish member, George Brown, experienced something similar when he visited Radio Vanuatu in the Pacific in November 2001. They use a two channel

10 kw transmitter tuned to 4960 and 7260 kHz, normally switching frequency around local sunrise and sunset. During the visit one channel developed a fault, and the other one had to be used all the time. The other standby transmitter on 3945 kHz was out of service because of shortage of spare parts to make it operational. DBS monitoring indicate that 3945 and 4960 kHz have been off the air since then, while 7260 kHz is regularly heard.

In Ecuatorial Guinea, Chinese engineers recently has provided and installed a new transmitter for Rádio Nacional, Bata which used to be heard around 5004 kHz. Last month China also accepted to give an intensive maintenance course this autumn in Beijing on the new equipment to a number of Ecuatorial Guinea technicians. The government had bought an electric generator to keep the radio regularly supplied with energy, because the commercial power is unstable, as in most other developing countries.

In Southern Africa it is the same story. Lesotho National Broadcasting Service of 4800 kHz was off the air for some months last winter, because they were awaiting transmitter spare parts.

The two transmitters of the Namibia Broadcasting Corporation on 3270 and 3290 kHz used to be heard well here in Europe until about a year ago. Then the modulation deteriorated and the signals disappeared. In April I read in the press that the Namibian Prime Minister Theo-Ben Gurirab had told the National Assembly that a cash injection of 66 million Namibian Dollars was urgently needed to get the broadcasting back on the air.

Let me jump down to Indonesia which always has been a popular target for DXers. Back in 1973 it was the country in the world with most stations broadcasting on the Tropical Bands, no less than 171. Many of these were private, low powered and irregular. But most of these and of the Government owned Radio Republik Indonesia stations have disappeared from the Tropical Bands, maybe because of transmitter problems, but

rather because they have been replaced by Mediumwave or FM. In this vast country, today there are at least 600 mediumwave transmitters and 625 FM transmitters, but less than 20 Tropical Bands transmitters!

When I visited Guatemala in Central America last November, I noticed the same. Only seven stations still broadcast on shortwave, but the whole country is fully covered by FM-stations. In the old colonial city of Antigua, 25 kilometres west of Guatemala City, I counted no less than 90 stations on the FM-band! So in that country the need for stations on the Tropical Bands is diminishing and quickly approaching zero. Mr. Wayne Berger at Rádio Cultural has disclosed that the transmitters on 3300 and 5955 kHz are only kept on the air to please DXers! Another regular Guatemalan station, Rádio K'ekchi' on 4845 kHz which broadcasts to the Quiché speaking Indians, was off the air for four months last year, but the reason for that was a very unusual one: The transmitter site was occupied by a group of homeless squatters!

One of our Italian members, Massimo Cerveglieri, has just been on holidays in the neighbour country Honduras where he only found 4 stations active on the tropical bands. One rarely heard was HRET, Rádio Buenas Nuevas in Puerto Lempira on 4960 kHz. A few years ago they installed a solar and windpower generating system as their power supply, but that appeared to be too small to operate the 500 watt transmitter and studio equipment. Their back up diesel generator is expensive in fuel costs. Furthermore they have an increasing problem in lack of operating funds from local churches and underwriters, so they cannot pay enough to attract qualified personnel to their own staff.

In 1995, I visited the station Emisora Gran Colombia in Quito, Ecuador, together with DX-Editor Richard McVicar from HCJB. I asked what had happened to the shortwave transmitter on 4911 kHz which used to be heard in Europe. The station manager told us that the coverage by their mediumwave transmitter on 610 kHz was sufficient to reach their audience in and around Quito,

so there was no longer a need for the broadcasts on 60 meters and, by the way, the elderly engineer who was the only one who was able to operate this transmitter, had died! In 1973 no less than 47 stations in Ecuador were active on the Tropical Bands. Today it is only 13, and most of these are very irregular.

The country with most stations on the Tropical Bands today is Peru with 53 frequencies in use! On the slide you can see that during the past 30 years there has only been a minor decrease from 78 stations. This country is probably one of those which will stay longest on the Tropical Bands. But it must be added that many of these stations are not on the air on a daily basis and several are replaced by new stations each year.

The Japanese DXer Takayuki Inoue Nozaki (TIN), has visited the Andes countries many times, and he reported from Bolivia 2_ years ago, that the small, privately owned commercial broadcasters on shortwave have ceased existing. This was due to the decrease in profits made by selling airtime for commercial advertisements and personal messages. New commercial broadcasting enterprises bristle on FM which replace shortwave and mediumwave. Religious organizations seem to buy up many of the

old commercial AM transmitters.

The huge country of Brazil also needs shortwave to broadcast to its people in the rural and rainforest areas while FM has taken over in the more densely populated areas. But the big networks have their own satellite systems, and with those, it is no longer economically impossible to transmit programs to small, rural FM-stations which can relay them to the surrounding area. Consequently the use of Tropical Bands is also on decline in Brazil even though around 50 stations still can be heard.

Let me close with a look at another popular DX-country, Papua New Guinea. This country is very difficult to hear in Europe, but we have members and other DXers in the Philippines, Japan, Australia, New Zealand and on the west coast of North America who regularly report about the broadcasting situation. On the middle of the slide you can see that their number of broadcasting stations seems to be stable since they got new transmitters in the early eighties. But that is not true! These transmitters which mostly are on 90 meters, have big problems and I have made a more detailed study of loggings of their broadcasts during the past 24 months which is shown on the next slide.

Loggings of Stations in Papua New Guinea July 2001–June 2003

kHz	Station	2001	2002	2003
	Month	JASOND	JFMAMJJASOND	JFMAMJ
2410	R Enga	JASO	JF JJA D	J M
3205	RW Sepik	JASO	JFMAMJJ D	J MAMJ
3220	Morobe	SO D	JJASOND	M M
3235	RWNB	J O	JFMAMJJASOND	J AMJ
3245	R Gulf	O	JFMAMJJ	AMJ
3260	Madang	J SO	M MJASOND	J M J
3275	SHighlands	SO	JFMAMJJASOND	J M MJ

3290	R Central		J	A	ND	J	MJ					
3305	R Western	J	SO	D	JFMAMJJAS	ND	J	MAMJ				
3315	R Manus	J	A	S	O	N	J	MAMJ				
3325	Bougainville	J	A	S	O	JFMAMJJA	ON	J	M			
3335	R E Sepik					MA	J					
3345	R Northern	J	A	S	O							
3355	R Simbu					AMJJAS		M				
3365	R Milne Bay	J	A	S	O	D	M	M	JAS	ND	M	
3375	WHighlands	J	A	S	O	J	F	J	JAS	OND	MA	J
3385	RENB	J	A	S	J	J	D	J				
3395	R. East. Highlands	J										
3905	RNIreland	J	A	S	O	N	J	F	M	A	M	J
4890	NBC	J	A	S	O	N	J	F	M	A	M	J

On the left side you have the frequencies of each of these regional stations which all use 10 kw. At the bottom on 4890 kHz, however, is the 100 kw transmitter located in the capital Port Moresby. Each of the letters to the right indicates the first letter of a month where the particular station has been reported heard by a DXer. On top you see that this graph goes from July 2001 until June 2003.

Some stations are very stable like the two at the bottom which have been heard nearly daily. But other stations were very irregular. In some cases I found out the reasons from press reports:

On 3245 kHz Radio Gulf in Kerema was off the air from May 2000 till October 2001 due to lack of fuel for their power generator. Obviously they have not invested in large enough fuel storage capacity to avoid such problems.

On 3260 kHz Radio Madang was closed in May and June 2001, because the electricity bill was not paid!

On 3345 kHz Radio Northern was off for 29 months until June 2002, because of a fire at the station.

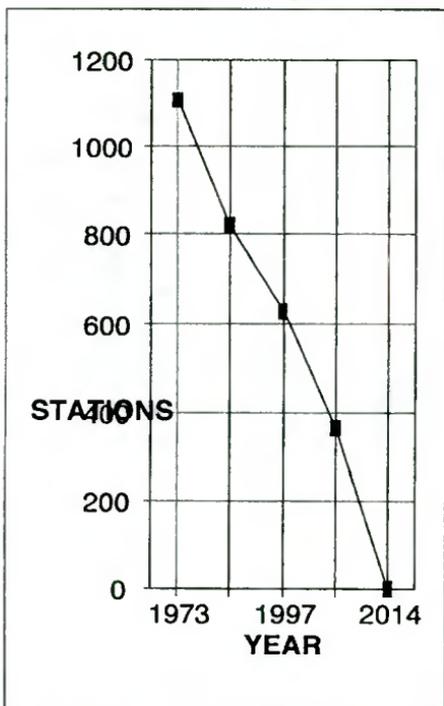
On 3355 kHz Radio Simbu was off from July 2001 till March 2002, because of transmitter repair.

On 3395 Radio Eastern Highlands has been off for 2_ year, because of financial constraints. However, the Eastern Highlands Provincial Government found money to get the station operational up to the local elections in July 2002! It is remarkable that all stations, except Radio East Sepik on 3335 kHz, were operational during the elections, but about eight of these disappeared again shortly after for some months.

The future

My final question was: When will the last stations disappear from the Tropical Bands?

From the total figures on the previous slide I have made a graphic which is shown here:



You see that the curve of the total number of active transmitters is going very steadily downwards. I suppose that this trend will continue and when I prolong it beyond 2003, it will hit zero around year 2014. So it is my guess that after that year there will no longer be domestic broadcasting on the Tropical Bands.

It raises two further questions:

1. What shall the Tropical Bands DXers do after 2014? I will suggest DX on Mediumwaves where there still is a lot to hear.
2. Which radio stations will take over the Tropical Bands when the Domestic Broadcasters have left? Our longtime

member in Sri Lanka, Victor Goonetilleke, expects more international broadcasters, but as a dedicated radio amateur himself, he also hopes that hobby radio will be allowed on certain frequency bands. I am afraid that this Conference is not the right forum to discuss this question. Victor attended the EDXC Conferences in Stockholm, Sweden in 1984 and in Rebild, Denmark in 1995, and he asked me to forward his greetings to all of you. To sum up:

Conclusions on Tropical Bands Broadcasting

1. Two thirds of the stations have left since 1973.
2. Because of:
 - Replacement by FM
 - Low technical standard
 - Poor economy
3. The last stations may leave by 2014.

We are approaching the end of the Era of Domestic broadcasting on the Tropical Bands! The technical standard of a large part of the transmitters on the Tropical Bands is poor. In more developed countries they are being replaced by FM-networks and it can be feared that the trend will continue to go downwards and the stations will all have left around year 2014.

However, you can still hunt for and maybe get QSLs from 363 Domestic Broadcasting Stations on the Tropical Bands, before it is too late. Fortunately the interfering broadcast and utility stations are also disappearing. So do not give up your Tropical Bands DXing! It is just a matter of switching on your receiver and tune in to these frequencies at the right times! 

Listener's Notebook

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AFGHANISTAN The station on 9000 kHz, formerly Information Radio, was observed on 17th September identifying as "**Peace Radio**" [Radyo-e Soleh in Dari]. (Dave Kernick/Cumbre DX)

ALBANIA Radio Tirana B'03

0000-0300	Albanian	7270
0245-0300	English	6115 7160 Mo-Sa
0300-0430	Albanian	7270
0330-0400	English	6165 7160 Mo-Sa
0900-1000	Albanian	7110
1500-1800	Albanian	7270
1800-1815	Turkish	6130 Mo-Sa
1815-1830	Greek	6130 Mo-Sa
1830-1900	German	7185 Mo-Sa
1900-1930	Italian	7240 Mo-Sa
1945-2000	English	7210 9510 Mo-Sa
2000-2030	French	7210 Mo-Sa
2130-2300	Albanian	7295
2215-2230	Serbian	6135 Mo-Sa
2230-2300	English	7130 9540 Mo-Sa

(Swopan Chakroborty-IND/Hard Core DX)

AUSTRALIA Winter B-03 schedule for HCJB-Australia via Kununurra:

0100-0130	Urdu	15555
0130-0300	English	15555
0800-1100	English	11750
1230-1700	English	15390
1700-1730	Urdu	15405

(Observer-BUL)

BOTSWANA Radio Botswana. The below is per a nice chat I had with their Chief Engineer this morning: Their shortwave transmitters are very old and they are no longer buying spare parts. One transmitter (used to switch between 90 and 31 mb) has been off about 10 months and it sounds like it will remain off.

4820 is operated 24 hours a day, but at 25 kW (nominal power is 50 kW)

7255 is on 0300-1700 at 25 kW as well. They switch it off at this time "because the frequency is Nigeria's at this time."

While Botswana is sparsely populated, the concentrations of population are served via FM and AM (MW) now.

The audience for the shortwave is in the Kalahari Desert, where there are people but no real concentrations. These include wildlife researchers and the government anti-poaching teams. (Johnson Cumbre DX Oct 2) Both Jari Savolainen and Graham Powell were kind enough to point out that they haven't heard Botswana on 4820 since July. I have followed up with the engineer by email, but he did mention that they also sometimes use 4830. Has anyone heard them recently on either channel? (via Johnson Oct 3/Cumbre DX)

BULGARIA Winter B-03 schedule of Radio Bulgaria:

0000-0100	Spanish	9500 P250/245
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0000-0100	Russian	7500
0000-0100	English	7400 9400
0000-0400	Bulgarian*	9800 Mo
0100-0200	Bulgarian	7400 9400 9500 11600
0200-0300	French	7400 9400
0200-0300	Spanish	7500 9500 11600
0300-0400	English	7400 9400
0400-0500	Russian	7500 9500
0500-0600	Bulgarian	5800 5900 7500 9400 9500 Sa/Su
0530-0600	Bulgarian	5800 5900 7500 9400 9500 Mo-Fr
0600-0630	Greek	5900 Mo-Fr
0600-0630	Russian	7500 9500
0600-0630	Turkish	6000 7400
0600-0630	German	5800 9400
0600-0700	Greek	5900 Sa/Su
0630-0700	Albanian	5900 Mo-Fr
0700-0730	Spanish	13700 15700
0700-0730	Serbian	5900 Mo-Fr
0700-0730	French	11600 13600
0700-0800	Albanian	5900 Sa/Su
0730-0800	English	11600 13600
0800-0900	Serbian	5900 Sa-Su
1100-1130	Bulgarian	7200 11600 11700 13600 15700
1100-1130	Turkish	7400 9400
1130-1200	German	11700 15700
1130-1200	Russian	11600 13600
1130-1200	Greek	7200
1200-1230	French	11700 15700
1200-1230	Albanian	7200
1200-1230	Spanish	13600 15600
1230-1300	English	11700 15700
1230-1300	Serbian	7200
1300-1500	Bulgarian	11700 15700
1500-1600	Russian	9400
1500-1600	Russian	5800 7500
1600-1700	Bulgarian	5800 5900 7500 9400 17500
1700-1730	Albanian	5900
1700-1730	Russian	5800 7500
1730-1800	Spanish	9700 11700
1730-1800	German	5800 7500
1730-1800	Greek	5900
1800-1830	Serbian	5900
1800-1830	French	5800 7500
1830-1900	English	5800 7500
1830-1900	Turkish	7400
1900-2000	Bulgarian	5900 7200 7400
1900-2000	Russian	5800 7500
2000-2100	German	5800 7500
2000-2100	Bulgarian	7200 7400
2000-2100	Albanian	5900
2100-2200	Greek	5900
2100-2200	French	5800 7500
2200-2300	Serbian	5900
2200-2300	English	5800
2200-2300	Spanish	7300 9500
2200-2400	Bulgarian*	9800 Su

* Radio Vama with program "Hello Sea"/"Zdravei more" (Observer-BUL/Gupta-IND)

BURKINA FASO 7230 Radio Burkina. Ouagadougou, logged on Oct 5th 1001-f/out 1020 during progr in Vernacular. (Carlos Goncalves-POR, BC-DX Oct 5/Bueschel-D)

CHINA - TIBET Xizang PBS Lhasa now starts its transmissions at 2150 UT (ex 2250) and closes down at 1730 (ex 1700). Observed on 4905, 4920, 5240 and 7385 kHz. ID: "China Tibet People's Broadcasting Station". (Karel Honzik-CZE, hard-core-dx via DX Listening Digest/Hauser-OK)

CHINA - TAIWAN Freq change for **Radio Taiwan International** in Russian: 1300-1400 NF 11540*, ex 11935. (Observer-BUL)

CLANDESTINE from ERITREA to SUDAN
6985 Voice of Freedom and Renewal, Voice of New Sudan 0320 with music, till big clock chimes at 0330. Then multiple ID's in Arabic. Mentioning that this was their morning broadcast (guess they must be on at other times as well still). Man then read the news in Arabic. Sounds like they were consistently using the complete above ID, not just the Voice of New Sudan as they were using for a while. Into what sounded like Juba Arabic or similar at 0350. I could get a fair amount of words, but just enough non-Arabic to really throw me. (Johnson Sep 30/Cumbre DX)

CONGO (REPUBLIC) 9610 **Radio Congo** It was in before 1600 in what sounded a vernacular then news in French at 1700 followed by a clear ID and program in French. The signal peaking to S5. (Green-UK, BC-DX Oct 17 via Bueschel)

CZECH REPUBLIC Radio Prague B03:

0000-0027	Spanish	5915 7345
		11665-ASC
0030-0057	Czech	5915 7345
0100-0127	English	6200 7345
0130-0157	Spanish	6200 7345
0200-0227	English	6200 7345
0230-0257	Czech	6200 7345
0300-0327	Spanish	6200 7345
0330-0357	Czech	6200 7345
0400-0427	English	6200 7345
0430-0457	English	9865 11600
0500-0527	Russian	6055 11600
0700-0727	French	5930 7345
0730-0757	German	5930 7345
0800-0827	English	7345 9880
0830-0857	French	9880 11600
0900-0927	Spanish	11600 15255
0930-0957	Czech	11600 21745
1000-1029	English	21745
1030-1057	Czech	21745
1100-1127	German	7345 9880
1130-1157	English	11640 21745
1200-1227	Czech	11640 21745
1230-1257	Russian	6055 21745
1300-1329	German	6055 7345
1330-1357	Czech	6055 7345
1400-1429	English	21745
1430-1457	Czech	21745
1500-1527	Spanish	11600 13580
1530-1557	Russian	11975 13580
1600-1627	German	5930
1630-1657	Czech	5930 17485
1630-1657	Russian	5850-Krasnodar
1700-1727	English	5930 17485
1730-1757	French	5930 17485
1730-1757	German	5990-Krasnodar
1800-1827	English	5930 9415
1830-1857	Czech	5930 9415
1900-1927	Spanish	5930 9430
1930-1957	French	5930 9430
2000-2027	Spanish	5930 9430
2030-2057	Czech	5930 9430

2100-2127	English	5930 9430
2130-2157	Spanish	5930 9435
2200-2227	Czech	5930 9435
2230-2257	English	7345 9435
2300-2327	French	5915 7345
2330-2357	English	5915 7345

(Andreas Volk, ADDX via Wolfgang Bueschel via Mike Barraclough, Letchworth, UK; also via Daniel Wylie via Dan Sampson/DX Listening Digest/Hauser-OK)

DENMARK The Director of Radio Broadcasting at Danmarks Radio, Mr Leif Loensmann, seems to have asked the Ministry of Culture for permission to close down the shortwave broadcasts of **Radio Denmark** by the end of this year in order to save money. The station does not intend to broadcast to Danes living permanently abroad, because they pay no annual fee to the station. The number of Danes temporarily listening to Radio Denmark from other countries during business trips or holidays is considered too small to justify further shortwave broadcasts. By this decision Denmark will be amongst those few developed countries in the world who no longer serve listeners abroad via shortwave. (Hartvig Nielsen, Oct 17). So the last chance to hear Radio Denmark on SW and get their QSL-card seems to be during the coming two months. (Richard Lam/Cumbre DX)

Radio Denmark -B03 transmissions to Australia and NZ are scheduled via leased transmitters in Norway:

0030-0055	7490
0830-0855	11975
0830-0855	13800
0930-0955	13800
0930-0955	11975
1230-1255	11615
1330-1355	13800
2130-2155	7560
2330-2355	7490

Broadcasts of Radio Norway precede Radio Denmark programs, for the first 30 minutes of each transmission block, beginning at 1200, 1300, 2100, 0000, 0800 and 0900, from the same transmitters.

Output has recently been reduced due to budget constraints, and a decision is expected by the end of 2003 as to the future plans for these broadcasts, or whether they may exist at all. (EDXP/Padula-AUS)

EGYPT Winter B-03 schedule of **Radio Cairo**

from October 26, 2003 to March 28, 2004		
0030-0430	Arabic	7200
0045-0200	Spanish	9415 11755 11780
0200-0330	English	11780
0700-1100	GeneralSce	11785 15115
1015-1215	Arabic	17775
1100-1500	GeneralSce	11785 12050
1115-1215	Thai	15305
1215-1315	Malayalam	15305
1215-1330	English	17670 or 15445
1230-1330	Persian	15480
1300-1600	Arabic	15220
1320-1450	Indonesian	15305
1330-1430	Bengali	17670 or 15445
1330-1530	Persian	15480
1400-1530	Azeri	11655
1430-1600	Pashto	15670
1500-1600	Hindi	15135
1500-2300	GeneralSce	12050
1530-1630	Uzbek	11635
1530-1630	Afar	15115

1530-1730	Swahili	17810
1600-1645	Zulu	15620
1600-1800	Turkish	6230
1600-1800	Albanian	9950
1600-1800	Urdu	15115
1630-1730	Somali	15155
1630-1830	English	9855
1645-1730	Shona	15620
1730-1815	Ndebele	15620
1730-1900	Amharic	15155
1800-1900	Italian	9988
1800-1900	Russian	7315
1800-2100	Hausa	9675
1830-1915	Lingala	9855
1830-1930	Wolof	15375
1900-0030	VOArabs	11665
1900-2000	German	9985
1900-2030	Fulani	15425
1930-2030	Bambara	15375
2000-2115	French	9985
2000-2200	Arabic	11750
2030-2200	English	15375
2030-2230	French	15335
2100-2200	Yoruba	9675
2115-2245	English	9985
2215-2330	Portuguese	11790
2300-0030	English	11725
2300-0300	GeneralSce	12050
2330-0045	Arabic	11755 15590

(Observer-BUL/Gupta-IND)

GERMANY Deutsche Welle English-language programs

0000-0100	7290 9880
0400-0500	6180 9545 9710
0500-0600	9565 11805 12045 15410 0600-0700 6140 7225 11785 15410
0700-1000	6140
1000-1030	6205 15190 17820
1100-1200	17670 21650
1300-1600	6140
1600-1700	6170 7225 11695
1900-2000	6180 11865 13590 13780
2000-2100	13590 13780 15205 15410
2100-2200	9615 13780 15410
2200-2300	6180 6225
2300-2400	7250 9815 12035

(Bueschel-D)

Deutsche Telekom B03 various broadcasts and relays

Allerweltshaus Köln e.V.

1500-1530	17870-JUL Tu-Fr
1500-1559	17870-JUL Sa/Su

Adventist World Radio

0500-0559	7130-JUL
0600-0730	9840-JUL
1000-1100	11730-JUL Sa/Su
1730-1900	5840-JUL
1900-2030	11845-JUL

Bible Voice Broadcasting

0500-0530	11690-WER Mo/We/Fr
0730-0915	5975-JUL Sa/Su
0845-1015	17565-JUL Fr
1615-1730	1650-NAU Tu-Fr
1630-1659	9645-JUL
1659-1729	9645-JUL Mo-Th
1700-1800	11650-NAU Sa/Su
1900-1915	7295-JUL Mo-Th
1900-1930	9470-WER Th
1900-1930	7295-JUL Su/Fr
1900-1959	7295-JUL Sa
1900-2000	6015-JUL Sa
1900-2000	9470-WER FrSa

1900-2015	9470-WER Sa/Su
1900-2030	6015-JUL Su

Christliche Wissenschaft

1000-1059	5985-JUL Su
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Radio Voice of the Democratic Path of Ethiopian Unity

0700-0759	17655-JUL Su
1830-1929	7220-JUL We

DRM

0900-1330	15715-JUL
0915-1305	5975-JUL
1100-1300	9760-JUL
1130-1300	21735-JUL
1305-1455	5975-JUL

Democratic Voice of Burma

2330-0030	5945-JUL
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Deutsche Welle

0600-0756	5965-JUL
0600-1000	6140-JUL
1000-1300	6140-JUL
1300-1600	6140-JUL
1600-1900	6140-JUL

Evangelische Missions Gemeinden in Deutschland

1100-1130	15225-WER Sa@
1500-1530	9635-WER Sa@
1830-1859	6015-WER Th/Fr
2200-2230	9860-WER We

Evangeliums Radio Hamburg

0958-1100	6045-JUL Su
1100-1200	6045-JUL Su

Gospel For Asia

0030-0130	9495-WER
1430-1529	13650-WER
1530-1629	13790-WER
2300-0030	9765-WER

Hrvatska Radio Televizija

0000-0359	7285-JUL
0200-0559	7285-JUL
0500-0759	9470-JUL
0600-0959	9470-JUL
2300-0359	7285-JUL

International Broadcast Bureau

0230-0430	6010-WER
0630-1030	21690-WER
1230-1300	17555-JUL
1230-1430	21690-WER
1500-1600	6055-JUL
1600-1700	6180-JUL
1630-1830	12140-WER
1700-2000	12110-JUL
1800-1900	9785-JUL
2230-0030	5910-WER

IBRA Radio Sweden

0500-0530	9710-JUL
1730-1759	9660-WER
1730-1845	9520-WER
1900-2000	9495-JUL
2000-2100	7260-JUL

Radio Vilnius Lithuania+

0000-0100	6120-JUL
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NHS

1330-1430	9585-JUL
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Pan American Broadcasting

0045-0100 9435-JUL Su
 0130-0145 9495-JUL Su
 1400-1430 13605-JUL Sa/Su
 1430-1445 13605-JUL Sa/Su
 1445-1500 13605-JUL Su
 1500-1515 12015-JUL Su
 1500-1515 2015-JUL We/Sa
 1515-1530 12015-JUL Su
 1530-1545 12015-JUL Su
 1545-1600 12015-JUL Su

Radio Rainbow, Kestedamena Radio

0900-0959 6180-JUL Sa@
 1900-1959 11840-JUL Fr@

Radio Reveil Paroles de Vie 1

830-1859 11840-JUL Th

Radio Television Belge de la communauté**Française**

0357-0559 9490-JUL Mo-Fr
 0527-0559 9490-JUL Sa/Su
 0600-0812 17580-JUL Mo-Fr
 0600-0906 17580-JUL Su
 0600-1059 17580-JUL Sa
 1057-1306 11565-JUL Mo-Fr
 1100-1217 21565-JUL Sa
 1157-1217 11565-JUL Su
 1557-1816 15135-JUL Su-Fr
 1657-1831 15135-JUL Sa

Sagalee Bilisummaa Oromoo

1700-1759 9820-JUL Su/Tu/We/Fr

Swiss Radio International

0555-0800 13790-JUL
 0555-0800 9885-JUL
 0555-0800 17665-SOT
 0825-1030 21770-SOT
 1625-1815 9755-JUL
 1625-1815 11810-JUL
 1625-1815 15555-SOT
 1825-2130 9820-JUL
 1825-2130 13660-JUL
 1825-2130 11920-SOT
 2155-2400 9885-SOT

Tigrean Internet Solidarity for Justice and Democracy Radio Suthid

1630-1659 9820-JUL Tu/Fr

The Overcomer Broadcast

0400-0600 9770-JUL
 1200-1600 6110-JUL
 1300-1559 13810-JUL
 1400-1559 13810-JUL
 1600-1700 6110-JUL Sa
 2000-2100 9605-JUL

Trans World Radio

0557-0615 7315-JUL Mo-Fr
 0927-0945 7315-JUL We-Sa
 1127-1200 7340-JUL Sa
 1327-1345 5945-JUL
 1657-1730 5945-JUL Sa
 1657-1730 7180-JUL Sa
 1727-1800 5945-JUL Su-Fr
 1730-1800 5945-JUL Sa

The United Methodist Church

0400-0559 9815-JUL
 0600-0800 11690-JUL
 1700-1859 13820-JUL
 1700-1859 11735-JUL

Universelles Leben

0100-0129 9435-JUL Su

1600-1629 9495-JUL Su
 1730-1759 6015-WER Tu-Th
 1800-1829 11840-JUL Su
 1900-1929 7105-JUL Su

Voice of Democratic Eritrea

1500-1559 5925-JUL Sa
 1700-1759 9820-JUL Mo/Th

Voice of Ethiopian Salvation, Medehin Radio

1600-1659 9820-JUL Su/Th

High Adventure Ministries - The Voice of Hope

0800-0850 5975-JUL Mo-Fr
 1515-1759 9860-JUL Sa/Su
 1530-1600 9705-JUL We-Mo
 1530-1615 9705-JUL Tu
 1530-1700 9860-JUL Mo
 1615-1730 11650-NAU Mo
 1800-1859 7210-JUL Sa/Su
 1900-1945 6015-JUL Mo-Fr

VOH/BVB

1530-1715 9860-JUL Th
 1530-1745 9860-JUL Tu
 1530-1759 9860-JUL We/Sa

Voice of Russia

0200-0300 5995-JUL
 0300-0400 5995-JUL
 1500-1600 9555-JUL
 2000-2200 5975-JUL
 2000-2200 5965-JUL
 2100-2200 6170-JUL
 2300-2400 6175-JUL

Vlaamse Radio en Televisie 1

1857-2056 5910-JUL Sa

Vlaamse Radio en Televisie 2

0757-0826 5985-JUL
 1827-1956 13790-JUL

WYFR Family Radio

1700-1800 13720-JUL
 2000-2100 9595-JUL
 2000-2100 11735-JUL

@ = From 1 November 2003+ = Active on demand

[via Wolfgang Bueschel] (Alan Roe-UK, WDXC U.K., Oct 9, 2003)

GUATEMALA 4698 **Radio Amistad** is down until the volunteers from Chattanooga, TN can take a replacement power transformer back down there -- hopefully later this month.

4845 **Radio Kekchi** has been operating now and again using the backup transmitter on commercial power while awaiting completion of repairs to the main transmitter. It is getting too expensive to run everything off the diesel generator, and they have purchased a small gasoline powered generator to operate the FM transmitter up on the mountain until there is commercial power available. (Baysinger-KY Oct 19/Cumbre DX)

HUNGARY Winter B-03 schedule of **Radio****Budapest:**

0000-0058	Hungarian	9580	12010	Mo
0100-0158	Hungarian	9835		
0200-0228	English	9835		
0230-0328	Hungarian	9835		
0330-0358	English	9835		

0400-0428	Russian	3975 6025	0500-0515	English	9435 11605 17600
0430-0458	Spanish	3975 6025	0500-0600	Hebrew	7545 11590 15760
0500-1158	Hungarian	6025 Su (Kossuth R)	0600-1700	Hebrew	15760 17535
			1115-1130	English	15640 17545
0500-1658	Hungarian	6025 Mo-Sa(Kossuth R)	1700-1900	Hebrew	11585 15760 17535
1200-1258	Hungarian	6025 Su	1730-1745	English	11605 17545
1200-1258	Hungarian	21560	1900-1950	Hebrew	9345 9390 11585 15640
1300-1358	German	6025 11925 Su			
1400-1458	Hungarian	6025 Su	1950-2100	Hebrew	9345 9390 11585
1500-1558	German	6025 9735 Su	2000-2025	Reshet Hey	13720, 11605
1600-1628	English	6025 9585 Su	2100-2215	Hebrew	9345 9390 11585 15640
1630-1658	Russian	6025 7180 Su			
1700-1728	French	3975 6025	2215-2400	Hebrew	9345 9390 11585
1730-1758	Italian	6025 7105	(Daniel Rosenzweig-KOL via Marie Lamb-USA, Cumbre Oct 22/BC-DX/Bueschel-D)		
1800-1828	Russian	3975 6025 Mo-Sa	JAPAN NHK World Radio Japan, B-03:		
1800-1858	German	3975 6025 Su			
1830-1858	German	3975 6025 Mo-Sa			
1900-1958	Hungarian	3975 6025	0000-0015	English	6145S 13650 17810
1900-1958	Hungarian	11925	0015-0100	English	6145S
2000-2028	English	3975 6025	0100-0200	English	11860K 11880E 15325 17560 17685 17810 17825 17835 17845
2000-2058	Hungarian	11785			
2030-2058	German	3975 6025 Mo-Sa	0200-0300	Japanese	5960S 11860K 15195 15325 17560 17685 17810 17825 17835 17845
2030-2058	Russian	3975 6025 Su			
2100-2128	French	6025 9655			
2130-2158	Italian	6025 7215	0230-0300	Portuguese	15565M
2200-2228	English	11965	0230-0300	Persian	17780E
2200-2228	English	6025	0300-0400	Japanese	5960S 9660M 11890E 15195 15325 17560 17685 17780E 17810 17825
2200-2258	Hungarian	9825			
2230-2258	Spanish	6025 7160	0300-0400	English	21610
2300-2358	Hungarian	9580 12010	0330-0400	Swahili	6135A
2300-2358	Hungarian	6025	0330-0400	Russian	17845
(Observer-BUL)			0400-0430	Chinese	17845
			0400-0430	Spanish	9660M
INDIA The National Channel of All India Radio which is normally on 9425 kHz was heard tonight (October 8th) on the out of band frequency of 9277 kHz. First heard at tune in on 9277.22 kHz at 1925 with Indian Music, ID, News in Hindi at 1930. Signal Drifting up in Frequency. Up to 9277.54 at 1935 UTC when it had a bulletin of English News. Signal continued to drift in frequency and was up to 9277.60 kHz by 1945 UTC when playing Hindi Music. (Powell-UK/Cumbre DX)			0400-0430	Arabic	17780E 17780E
			0400-0500	Japanese	15195 17810
			0430-0500	Korean	17845
INDONESIA <i>Voice of Indonesia</i> has been noted this week signing on with English at 0200 on 9525 and 15150 kHz (not 11785), so the new language schedule appears to be in effect (e.g. 0030-0200 transmissions cancelled) but frequencies have not been changed.			0430-0500	Russian	11915G
			0500-0530	French	17820E
			0500-0530	Chinese	17845
			0500-0530	Spanish	11895M 11915G
			0500-0600	English	5975U 6110S 7230U 11690 11715 11760 15195 17810 21755
RRI Pro-3 has been absent from 11860 and 15125 kHz for more than a week. RRI Pro-4 continues to be heard on 9680 kHz. (Alan Davies-IND/Cumbre DX)			0530-0545	Italian	11915G
			0530-0600	Korean	17845
			0545-0600	Swedish	11915G
3325 1440-1445, RRI Palangkaraya Oct 19. Fair to good signal of slow Indo ballads. Noisy band this morning, and not many DX signals noted. (Guy Atkins-WA-USA, DXplorer Oct 19/BC-DX/Bueschel-D)			0600-0630	Chinese	17860
			0600-0630	German	11915G
			0600-0630	Russian	11715 11760
			0600-0700	English	7230U 11690 11740K 15195 17870 21755
ISRAEL Here are the English and Hebrew (Reshet Bet) Israel Radio schedules.			0630-0700	French	11915G
			0630-0700	Bengali	11890E 15590
			0700-0730	Hindi	11890E 15590
			0700-0730	Arabic	15220A 15220A
			0700-0800	Japanese	6145 6165 11740K 11920K 15195 17860 17870 21755
From 01 January 2004, the Overseas Network (Reshet Hey) will cease transmission. The English, French and Persian services will be interlaced into the Hebrew (Reshet Bet) network. All other language services for Overseas will be discontinued.			0730-0800	Urdu	11890E 15590
			0800-0830	Russian	6145 6165
0000-0430 Hebrew 7545 9345 11585			0800-0900	Japanese	9530M 9540 9750 9825 11710U 11740K 11920K
0430-0500 Hebrew 7545 9345 11590					

		15590 17650A 17720D 17860 21755 17675E	2100-2200	English	6090U 6180U 11855A 11920K 17825 21670
0830-0900	Persian	9530M 9540 9750	2200-2300	Japanese	6110S 6115U 11665 11770E 11895M 11910 15220A 17825 17825
0900-1000	Japanese	9825 11710U 11740K 11815 11920K 15590 17650A 17720D 21755	2210-2230	Korean	9560
		9695	2230-2250	Chinese	9560
0930-1000	Indonesian	9540 9710	2240-2300	Chinese	13650
1000-1030	Spanish	15590M	2240-2300	Malay	17810
		6120S 9695	2300-2320	Indonesian	17810
1000-1100	English	11730 17585D 21755	2300-2320	Thai	13650
		9750 11815	2300-2400	Japanese	11665 11910 17605B
1000-1300	Japanese	21820G	2320-2340	Vietnamese	17810
1030-1045	Italian	11740K	2320-2340	Burmese	13650
1030-1100	Burmese	15590M	2340-2400	Indonesian	13650
1030-1100	Portuguese	21820G	2340-2400	Chinese	13630 17810
1045-1100	Swedish	13660	All via Tokyo/Yamata transmitters except as indicated:		
1100-1130	Vietnamese	6090	A=Ascension Island		
1100-1130	Korean	9660U 11710U	B=Bonaire, Netherland Antilles		
1100-1130	German	6120S 9695	D=Al Dhabbiya		
1100-1200	English	11730	E=Ekala, Sri Lanka		
		13660	G=Moyabi, Gabon		
1130-1200	Indonesian	11710U	K=Kranji, Singapore		
1130-1200	Russian	11740K	M=Montsinery, French Guiana		
1130-1200	Thai	6190 11740K	S=Sackville, Canada		
1200-1230	Chinese	9695 13660	U=United Kingdom		
1200-1230	Malay	11890E	(via Roberto Scaglione, BCLNews.it via /DX Listening Digest/Hauser-OK)		
1230-1300	Bengali	15400A 17845A			
1230-1300	French	11740K			
1230-1300	Vietnamese	6190			
1230-1300	Korean	9695			
1230-1300	Burmese	13660			
1230-1300	Indonesian	11890E			
1300-1330	Hindi	9695			
1300-1330	Malay	17845A			
1300-1330	Swahili	6190			
1300-1330	Chinese	11705S			
1300-1500	Japanese	9750 11705S			
1300-1500	Japanese	11815			
		6190			
1330-1400	Russian	11890E			
1330-1400	Urdu	7200			
1330-1400	Thai	6190			
1400-1430	Korean	7200 9845			
1400-1500	English	11840M 17755E			
		6190			
1430-1500	Chinese	7190			
1500-1520	French	9535 12045K			
1500-1600	Japanese	21630A			
		7200 9505 9750			
1500-1600	English	9845			
		6024 7140 7200			
1600-1700	Japanese	9535 9750 9845 12045K 21630A			
		6035 6175U 7140			
1700-1800	Japanese	7200 9750U 9835 11880E 21600M			
		9535 9535 11970			
1700-1800	English	15355G			
		9685 11785			
1800-1820	French	11970 15355G			
		6175U 9835			
1800-1900	Japanese	11880E			
		11970			
1820-1840	Spanish	11970			
1840-1900	Russian	5955			
1900-1920	Russian	6165 11665			
1900-2000	Japanese	11910 11675E			
		6165 7225 11665			
2000-2100	Japanese	11830 11910 11920K			
		7225 11665			
2100-2200	Japanese	11910			

LAOS 4649 Lao National Radio-Houa Phan(p) 1155- in Laotian. Regional musics and chime was heard at 1200. Not // 6130. Sign off at 1232. good. (Iwata Japan Premium Oct 19/Cumbre DX)

LATVIA 9290 Radio Seagull, 1045 English music. Via Ulbroka (100 kW) Sat. 1000-1500. Address : R Seagull, Post Box 24, 8860 AA Harlingen, The Netherlands . E-mail : info@radioseagull.nl Website: www.radioseagull.nl and www.radioseagull.com. (Oct 4/Slavtyskiy-RUS/Klepov-RUS/Cumbre DX)

Information from the Latvian owner of the SW transmitter in Ulbroka on 9290kHz: the relays of the Radio Seagull Internet radio station (Netherlands) will be each Saturday 1000-1500 UTC, the UTC time will "not" change when Latvia and other European countries will change to winter time on 26 October. This coming Sunday there will also be of relay of the Overcomer Ministry (Brother Stair) from 1400-1900 UTC.

The SW transmitter in Ulbroka is owned by the Latvian State Radio and Television Centre (LVRTC). In cooperation with a Latvian broker, the British company Laser Radio Ltd is renting air time on this transmitter, and is marketing this air time under the label "Euronet Radio", offering the carry relays of programs or radio stations. (Bernd Trutenau-LTU/Cumbre DX)

LIBYA/FRANCE New schedule for **LJB** service in Arabic to Iraq:
1202-1302 NF 11890 LSB*, ex 17600 USB // 11660 USB
1800-1900 NF 7425 LSB#, ex 7245 USB // 11660 USB
(Observer-BUL)

LUXEMBOURG For B03, the Junglinster facility of **Radio Luxembourg** is scheduled for occasional test broadcasts on as "as required basis" to Europe, using 250 kW. These are listed on 5990 2000-0100, and 6095 0600-0000. These tests will take relays of various Domestic Service broadcasts. (EDXP/Padula-AUS)

MALAWI 5995 **Malawi Broadcasting Corporation** in a QSL letter, states that they are no longer broadcasting on shortwave because the transmitter has broken down. They plan to return to shortwave at an unspecified time following receipt of the necessary parts. (Hankison/Cumbre DX)

MOLDOVA Radio DMR, the External Service of the self-proclaimed Dniester Moldavian Republic (Pridnestrovye), has apparently extended its broadcasts. Erich Bergmann-D reports in the A-DX mailing list that the transmissions on 5960kHz (transmitter site: Grigoriopol aka Maiaac) can now be heard (at least) Wed/Thu/Fri 1600-1640. The first part of the program is in English, the second part was heard in German on Wed, in French on Thu, on Fri it was fully in English. Announcements in the programs indicate similar transmissions also on Mon & Tue. (Bernd Trutenau-LTU/Cumbre DX)

MONGOLIA 25 Sep, 2155-2205: discovered that **Mongolian Radio** transmits two domestic programs in SW: the 1st goes on 4865 and 4895, the second can be heard on 4830 and 7260 kHz. I think both started at 2100. (open_dx - Feodor Brazhnikov, Irkutsk, Russia/Cumbre DX)

For B03, the **Mongolian Radio** has registered these frequency allocations:

4830	1400-0700 10 kW ND (N)
4895	1400-0700 10 kW ND (N)
4850	2100-0800 50 kW ND (N) 6170
	1400-0700 10 kW ND (N) 6190
	1400-0700 10 kW ND (N) 7260
	2100-0800 50 kW ND (N) 9615
	0830-1000 250 kW 126 deg (E)
9615	1000-1030 250 kW 178 deg (E)
9615	1030-1200 100 kW 178 deg (E)
9720	1330-1400 50 kW 315 deg (E)
9720	1200-1230 100 kW 126 deg (E)
9560	1400-0700 10 kW 315 deg (N)
9530	1400-0700 10 kW ND (N) 9590
	2100-0800 50 kW 315 deg (N)
9720	2000-0800 50 kW 315 deg (N)

These allocations include the External (E) and National (N) Services.

Upgrading of the 10 kW and 50 kW transmitters at Ulaanbataar, Murun, and Altai is being carried out with Japanese Development Aid (EDXP/Padula-AUS)

MYANMAR 5040.6 **Radio Myanmar** (p) 1120 Talk by woman in language (news?) with short instrumental music break at 1131, then into more continuous music at 1133. Hum on transmitter, occasional RTTY-like bursts, but overall very good signal. Local sunrise. (Saylor, PA 14 Oct/Cumbre DX)

5985.8 **Radio Myanmar** 1550-1600* Light orchestral music, closing announcements by lady in English, fair strength, best on USB. (Barraclough, October 10th/Cumbre DX)

NETHERLANDS Radio Nederland Worldwide B-03

0000-0100	English	9845B
0000-0200	Spanish	9895M 15315B
0100-0200	English	6165B
0200-0300	Spanish	6165B 9845B 9895M 9895M
0300-0400	Spanish	9895M
0300-0400	Dutch	6165B 9590B
0400-0500	English	6165B 9590B
0500-0600	Eng/DRM	15255B
0600-0700	Dutch	5955F 6015F 6165B 7125F 9895F
0700-0800	Dutch	5955F 9625B 9895F 11655B 11935F
0800-0900	Dutch	5955F 9895F 11935F
0900-1200	Dutch	5955F 6020B(0930-1015) 9895F 13700F 7260P 9785B 12065I 13820K 9850F
1000-1100	English	6165B 9715B 11690S 17580M 21480M
1000-1200	Eng/DRM	21780B
1100-1130	Spanish	9715B
1100-1300	Indones.	9715B 5965C
1100-1300	Eng/DRM	5955F 9890B
1130-1200	Spanish	9895F 13700F
1200-1230	Spanish	5955F 7375P
1200-1300	English	9895F 12070T 13700F 13820K 17815M 21480M
1200-1300	Dutch	12070T 12080M 15595M
1300-1400	Dutch	5955F 9845F 13700F 5955F 9895F 13700F 15335M 17695M
1400-1600	English	6020M 5955F 9895F 11655M 13700F 6020M 9895F 11655M
1400-1600	Dutch	7120M 9895F 11655M 17810B
1600-1700	Dutch	15315B 17725B 17875C Sa/Su 7120M 9895F 11655M 17810B 11730B
1700-1800	Dutch	7120M 11655M 15315B 17810B 9800C 15530B
1800-1900	English	2220-2300 Dutch 15315B
1900-2000	English	2220-2300 Dutch/DRM 9525C
1900-2100	English	2200-2400 Indonesian 6120S 7285M 9590M
2000-2100	English	2230-2300 Eng/DRM 15530B
2100-2200	Dutch/DRM	2300-2400 Spanish 9895F
2100-2200	Dutch	2300-2400 Dutch 15315B
2200-2230	Eng/DRM	
2200-2300	Dutch	
2200-2300	Dutch/DRM	
2200-2400	Indonesian	
2230-2300	Eng/DRM	
2300-2400	Spanish	
2300-2400	Dutch	

B=Bonaire
C=Sackville
F=Flevo
I=Irkutsk
K=Khabarovsk
M=Madagascar
P=Petro Kamchatski
S=Singapore
T=Tashkent
W=Wolvertem

(RNW website Oct 22, via WWDXC/BC-DX/Bueschel-D)

NEW ZEALAND Radio New Zealand

International B03:

0400-0759 15340
0800-1059 11675
1100-1259 15530
1300-1649 6095
1650-1750 6095
1751-1850 11980
1851-2239 15265
2240-0359 17675

(Brice-UK/Hard Core DX)

NIGERIA Frequency changes for **Voice of**

Nigeria:

English

0500-0600 NF 17800
0600-0700 NF 17800
0700-1000 NF 17800
1000-1100 NF 17800
1100-2000 on 15120
2000-2300 NF 17800

Arabic

1600-1800 on 11770

French 1800-1900 on 11770

(Observer-BUL)

OMAN Radio Oman B'03 Schedule

0000-0200 Arabic 9760
0200-0300 Arabic 6085 15355
0300-0400 English 15355
0400-0600 Arabic 9515 17590
0600-1000 Arabic 13640 17630
1000-1400 Arabic 13640
1400-1500 Arabic 13725 15375
1400-1500 English 15140
1500-1800 Arabic 13725 15140

1800-2000 Arabic 6190 15355
2000-2200 Arabic 6085 13640
2200-2300 Arabic 13755
2300-2400 Arabic 9760 13755

(Gupta-IND)

PAKISTAN Freq change for **Radio Pakistan**

in Dari: 1515-1545 NF 5865v, ex 5860 to avoid RL in Kyrgyz // 7375.0 (Observer-BUL)

PHILIPPINES Winter B-03 schedule of **Radio**

Veritas Asia:

0000-0025 Sinhala 11820
0000-0025 Zomi-Chin 11705
0000-0025 Karen 11725
0030-0055 Bengali 15215
0030-0055 Tamil 15520
0030-0055 Hindi 15570
0100-0125 Urdu 15335 17860
0100-0125 Telugu 15530
0130-0225 Vietnamese 15530
0130-0225 Russian 17830
1000-1025 Hmong 11850
1000-1155 Mandarin 9520
1030-1125 Vietnamese 11850
1130-1155 Burmese 11835
1200-1225 Karen 11835
1200-1225 Indonesian 9505
1230-1255 Kachin 11835
1300-1325 Vietnamese 11850
1330-1355 Sinhala 9520
1330-1355 Hindi 9590
1400-1425 Bengali 9590
1400-1425 Tamil 9520
1430-1455 Urdu 11795
1430-1455 Telugu 11880

1500-1525 Filipino 15360
1500-1555 Russian 11795
1525-1555 Filipino 15360
2100-2255 Mandarin 6190
2230-2255 Filipino 7265
2300-2325 Indonesian 9505 11820
2300-2325 Cantonese 11870
2330-2355 Vietnamese 11770
2330-2355 Burmese 11725
2330-2355 Kachin 11705
(Observer-BUL)

9619.1, **PBS**, Marulas, Valenzuela, 0150, Oct 07, mostly relay DZRM with 'Radio Magazin'. The transmitter has big problems again and some days signs on much later and is heard only *0700v-0930* (Roland Schulze, Philippines, DSWCI DX Window Oct 21/DX Listening Digest/Hauser-OK)

PORTUGAL RDP Internacional, all programs in Portuguese [Editor's note: all frequencies may not be in use at any one time... RDP's schedule is always so weirdly formatted it's hard to make sense of all the notation. - AQ]

0000-0300 9715 11655 11980 13700 13770
Tu-Sa
0600-0745 9755 9815 11675 Mo-Fr
0745-0800 9755 9815 11660 11675 Mo-Fr
0800-0900 9755 9815 11660 Mo-Fr
0800-0930 11875 15575 21655 21830
Sa/Su
0900-1100 9815 11875 Mo-Fr
0930-1100 9815 11875 15575 21655 21830
Sa/Su
1100-1300 11875 15575 21655 21830
Sa/Su
1100-1300 9815 15140 21655 21830 Mo-Fr
1300-1400 15540* Mo-Fr
1300-1500 11875 15540+ 15575 17745+
21655 21830 Sa/Su
1540 21810 Mo-Fr
1400-1600 11775 11960 15540+ 17745+
1500-1800 21655 21830 Sa/Su
1600-1700 15540* Mo-Fr
1700-1800 11740 15540* 17680+ 21655
Mo-Fr
1800-1950 11740 15540* 17680 17745*
21655 Mo-Fr
1800-2000 11740 11630+ 15540+ 17745+
17680+ 21655 Sa/Su
1950-2000 11740 15540* 17680 21655 Mo-Fr
2000-2100 11740 11630+ 11860* 11905*
13770* 15540 17680 17745
21655 Sa/Su
2000-2400 11630* 11860* 11905 13770*
15540* Mo-Fr
2100-2400 11860* 11905* 13770* 17745
Sa/Su

* Special broadcasts+ may extend until midnight UTC (Gupta-IND)

ROMANIA Winter B-03 schedule of **Radio**

Romania International:

0000-0056 Portuguese 9665 11830 11875
15250
0000-0056 Spanish 9665 11830 11875
15250
0100-0156 English 6040 9510 9530
11740
0200-0256 Spanish 5995 9530 9550
11940
0300-0356 English 6040 9515
0400-0456 French 6045 9510
0500-0526 Chinese 15160 17720
0530-0556 Russian 9740 11735

0600-0626	French	9510 9560 11775 11840	1600-1700	9830 6005 4975 4965 4940
0630-0656	German	9510 9655 11775 11940	1600-1700	7260 4975 4965 4940
0700-0726	English	11775 15105	1700-1800	5945 5910
0730-0756	Arabic	15270 15365 17735 17790	1700-1800	9830
0800-0856	Romanian	15370 15380 17745 17805 Su	1800-1900	7290 6175# 5950#
0900-0956	Romanian	15380 15470 17735 17745 Su	1800-1900	11510 9830
1000-1056	Romanian	15260 15380 17735 17745 Su	1800-1900	5910
1100-1156	French	15260 15380 17745 17790	1900-2000	7360 7290 6235 6175
1200-1256	German	11790 11940 15170 15245	1900-2000	11510 7335
1300-1356	English	15170 17720 17745	2000-2100	7360 7290 6235 6145
1300-1356	Romanian	15105	2100-2200	7360 7290 6235
1400-1426	Turkish	7150*	#-Saturday, Sunday (Daniel Sampson, Prime Time Shortwave, 10/20/DX Listening Digest/Hauser-OK)	
1400-1426	Chinese	11830 15375	SOUTH AFRICA B-03 schedules from Meyerton:	
1430-1456	Arabic	15160 15370 17790 17805	Channel Africa	
1430-1456	Bulgarian	7130*	0300-0500	En/var. 3345
1500-1526	Russian	9590 11745	0300-0400	Swahili 9685
1500-1526	Greek	9750*	0300-0400	English 9770
1500-1556	Romanian	11790 15105	0400-0500	French 9565
1530-1556	Ukrainian	6115 7135	0500-1600	En/var. 9525
1530-1556	Serbian	7285*	0500-0600	English 11710
1600-1626	Hungarian	7135*	0600-0700	English 15215
1600-1656	German	5995 7225 9585 11790	1500-1600	English 17770
1630-1656	Aromanian	5985*	1500-1600	Swahili 17780
1700-1726	English	9570 11940	1600-1700	Portug. 7165
1700-1726	French	9510 9690 11810 11820	1600-1700	French 15265
1700-1726	Italian	9745*	1700-1800	Portug. 15265
1730-1756	Romanian	9595 11780	1800-1900	English 15265
1730-1756	Turkish	5985*	1900-2200	En/var. 3345
1800-1826	Russian	5965 7155	Radiosondergrense	
1800-1826	Bulgarian	5960*	0000-0500	Afrikaans 3320
1800-1856	Romanian	7195 9595	0500-0700	Afrikaans 7185
1830-1856	Greek	7120*	0700-1700	Afrikaans 9650
1830-1856	Ukrainian	5965 7155	1700-2400	Afrikaans 3320
1900-1926	Spanish	9645 11725	South African Radio League	
1900-1926	Serbian	5955*	0800-0900	English 9750 17780 Su
1900-1956	German	5960 7130	1900-2000	English 3215 Mo
1900-1956	Romanian	6140	(Andreas Volk, ADDX via Wolfgang Bueschel via Mike Barraclough, Letchworth, UK/DX Listening Digest/Hauser-OK)	
1930-1956	Portuguese	11725 15335	London-based SW Radio Africa , which broadcasts on SW to Zimbabwe daily at 1600- 1900 UTC, advises that from 26 Oct it will be using its "summer" freq of 6145 kHz instead of the current 4880 kHz. The station uses a transmitter in [Meyerton] South Africa. (RNW MN NL, Oct 2/BC-DX/Bueschel-D)	
1930-1956	Hungarian	5960*	SWEDEN/MADAGASCAR For B03, Radio	
2000-2026	French	7105 9570	Sweden is listed for a new relay, from the Radio Netherlands facility at Tananarive, Madagascar, as part of a reciprocal arrangement. This is scheduled for transmissions to Australia and SEA, in Swedish, 0100-0130 on 12060. (EDXP/Padula-AUS)	
2000-2026	Aromanian	5955*	SWITZERLAND Winter B-03 schedule for Swiss	
2030-2056	English	6110 7105	Radio International:	
2030-2056	Italian	6120*	0600-0630	French 9885 13790 17665
2100-2126	Spanish	9655 11725 11940 15285	0630-0700	German 9885 13790 17665
2130-2156	Portuguese	9655 11725 11940 15285	0700-0730	Italian 9885 13790 17665
2200-2256	English	5975 7250 11830	0730-0800	English 9885 13790 17665
2300-2356	English	11840 11940	0830-0900	English 21770
15145 15370			0900-0930	Italian 21770
* via Safftza 50 kW (Observer-BUL)			0930-1000	German 21770

RUSSIA Voice of Russia English Broadcast
schedule from October 26, 2003 till March 27,
2004:

0200-0300	5995			
0200-0300	15595	15445 9765 7180 6155		
0300-0400	15595	15445 7350 7180 6155		
0400-0500	15595	15445 12010 7240 7350 7180 7125		
0500-0600	15595	15445 12010 7240 7180 7125		
0600-0800	21790			
0800-0900	21790	17665 17525 17495		
0900-1000	17665	17525 17495		
1500-1600	11500	7350 7315 7260 6205		

Swiss Radio International (continued)		
1830-1900	Italian	9820 11920 13660 17660
1900-1930	Arabic	9820 11920 13660 17660
1930-2030	English	9820 11920 13660 17660
2030-2100	German	9820 11920 13660 17660
2100-2130	French	9820 11920 13660 17660
2200-2230	French	9885 11660
2230-2300	German	9885 11660
2300-2330	Italian	9885 11660
2330-2400	English	9885 11660
(Observer-BUL)		

THAILAND Broadcast Schedule - **Radio Thailand** World Service

0000-0030	English	09680
0030-0100	English	13695
0100-0200	Thai	13695
0300-0330	English	15460
0330-0430	Thai	15460
0530-0600	English	13780
1000-1100	Thai	07285
1100-1115	Vietnamese	07305
1115-1130	Khmer	07305
1130-1145	Lao	06040
1145-1200	Burmese	06040
1200-1215	Malaysian	11805
1215-1230	Indonesian	11805
1230-1300	English	09810
1300-1315	Japanese	07160
1315-1330	Mandarin	07160
1330-1400	Thai	07160
1400-1430	English	09560
1800-1900	Thai	11855
1900-2000	English	09535
2000-2015	German	09535
2015-2030	French	09535
2030-2045	English	09535
2045-2115	Thai	09635
(Gupta-IND)		

TURKEY B-03 schedule for **Voice of Turkey** October 26, 2003 - March 28, 2004:

0000-0500	Turkish	7300 9460
0200-0300	Uzbek	7115
0400-0450	English	6020 7240
0500-0655	Arabic	9755
0500-0800	Turkish	9460 17690 11925 11955 15480
0800-0900	Georgian	11690
0800-0930	Azeri	11835 15160
0800-1000	Turkish	9460 11925 11955 15350 15480
0900-1000	Macedonian	11895
0930-1030	Persian	11795 17690
1000-1100	Turkish	9460 11955 15350 17720 15105 15245 15160
1000-1155	Arabic	15105 15245
1030-1130	Hungarian	15160
1030-1130	Romanian	9560
1100-1300	Turkish	9460 11955 15350 17720 17860*
1130-1230	Greek	7295 11855
1200-1300	Chinese	15320
1230-1330	Albanian	11910
1230-1330	German	17700
1300-1400	Urdu	15225
1300-1600	Turkish	9460 9705 11955 15350 17860*
1330-1420	English	15155 15195

1330-1500	Persian	11705
1400-1500	Russian	11980
1430-1500	Serbian	11935
1430-1530	Bulgarian	7140
1500-1600	Azeri	5965
1500-1655	Arabic	6120 15195
1530-1630	Greek	6015
1600-1700	Kazakh	7295
1600-1700	Tatar	5980
1600-1700	Turkish	9460 9705 11955 15350
1630-1730	Turkmen	5965
1700-1730	Croatian	5959
1700-1800	Kyrgyz	6095
1700-1800	Turkish	6120 9460 9560
1730-1800	Spanish	9780
1800-1900	Uzbek	5955
1800-1900	Russian	6135
1800-2200	Turkish	6120 7100 9460 9560

1830-1930	German	7205
1900-2000	Bosnian	5990
1930-2020	English	5980
2030-2130	French	5980 6050
2130-2220	English	9525
2200-2300	Turkish	6120 6185 9460 9560
2300-2350	English	6015 9655
2300-2400	Turkish	7300 9460
* this frequency Friday only (Observer-BUL/Gupta-IND)		

UKRAINE Radio Ukraine International for B03

0000-0100	German	5840
0000-0100	Ukrainian	5905
0100-0200	English	5905
0100-0200	Ukrainian	7420
0200-0400	Ukrainian	5905 7420
0400-0500	English	5905
0400-0500	Ukrainian	7420
0500-0800	Ukrainian	7420
0800-1200	Ukrainian	15220
1200-1300	English	15220
1300-1400	Ukrainian	15220
1400-1800	Ukrainian	7420
1800-1900	German	7510
1900-2000	Ukrainian	7510
2000-2100	Ukrainian	7510
2100-2200	German	7510
2200-2300	English	5840
2200-2300	Ukrainian	5840
2300-2400	Ukrainian	5840
(Alexander Egorov, Kiev-UKR, RUS-DX via BC-DX Oct 21/Bueschel-D)		

Radio Era on 11980 kHz via Radio Dniprovskia Khvylya (100 watts, Zaporizhia) noted at 0950 on Sept 21. Heard px in Ukrainian nx, concert on listener's request, etc. Era Radio na Promine meaning Era Radio in Promin's program; Promin"-2nd px of Ukrainian National Radio. Announced address: Era Radio na Promine vul. Khreschatyk 26 01001Kyiv, Ukraine. (Robert Petraitis-LTU, BC-DX Oct 5/Bueschel-D)

UNITED KINGDOM BBC World Service B-03 Schedule

Albanian	
0630-0700	7210ra 9635cy 11845cy
1330-1415	9750cy 15115sk Su
1415-1445	9750cy 15115sk
1800-1830	6050cy 7105ra 9685sk
2100-2115	7150ra 7205cy 9670om Mo-Fr

BBC World Service (continued)**Arabic**

0000-0300 6105ra 7140sk
 0000-0445 9915sk
 0300-0600 11740cy 15180om(0330-)
 0300-1200 7140cy 13660cy
 0400-0730 6110sk(-0600) 7325ra
 0445-0730 9915ra(-0600) 9915sk
 0600-0800 11740cy 15180om(0330-)
 0730-1100 15180ra 17610sk
 0800-1800 11820cy
 0900-1630 15555cy 21455au(-1130)
 1100-1630 15180ra 17585sk
 1200-1800 13660sk
 1200-2400 7140cy
 1630-1800 11680ra 15180cy
 1630-2000 6030om
 1700-2100 9915cy
 1800-2115 6110ra 11680sk
 2000-2200 6030om
 2100-2400 5875ra 6110cy(2115-) 9915cy

Azeri

1800-1830 5875cy 7195cy 9750la

BBC English to Africa

0705-0720 6005as
 1730-1745 3390me 7230me 9685me
 1915-1930 15105as 17885as

BBC English to Albania

1830-1845 6050cy 7105ra 9685sk MoWe

BBC English to East Asia

1030-1100 9605ya 11945na 15285sn
 21660na

BBC English to South Asia

1445-1500 6140om 7205na 15245om Mo-Sa

BBC English to French Africa

1230-1245 15425wo 17780as 21640as

BBC English to Hausa Africa

1330-1345 15105as 21640as

BBC English to Asia

0030-0100 9580sn 17615na
 0530-0545 6010sk 9865ra
 1130-1145 7135si 11750na
 1530-1545 11685si 15540si

BBC English to Romania

0630-0645 9875cy SaSu

BBC English to Somali Africa

1400-1415 11860se 15420se 21490cy Mo-We

BBC English to Swahili Africa

0245-0300 9610se

BBC English to Ukraine

1730-1800 5875cy 7105la 9530sk

Bengali

0030-0100 6065om 9790na 11850sn
 1330-1400 7225na 7430ta 11835sn
 1630-1700 5990na 7205sn 9605na

Brazilian

2130-2200 9870as 11965an 15390as
 2230-2300 9870as 11965an 15390as

Burmese

0000-0030 6065na 9580sn 11850sn

1345-1430 7135sn 9540sn 11685sn
 15295cy

Croatian

0600-0610 7210ra 9865cy Mo-Fr
 1200-1210 11895cy 15325ra Mo-Fr
 1500-1515 7110bi 11975cy Mo-Fr

English to East Africa

0300-0330 3255me 6005as 6190me 9750cy
 12035se
 0330-0400 3255me 6005as 6190me 9750cy
 12035se 15420se
 0400-0500 3255me 6190me 12035cy
 15420se
 0500-0530 6190me 11940me 15420se
 17640cy 17885se
 0530-0600 6190me 11940me 15420se
 17640cy
 0530-0600 17885se Mo-Fr
 0600-0700 6190me 11940me 17640cy
 0600-0800 17885se Sa/Su
 0700-0800 6190me 11940me
 0800-1100 6190me 11940me 17885se
 21470se
 1100-1200 6190me 11940me 17885cy
 21470se
 1200-1300 6190me 11940me 21470se
 1300-1400 6190me 11940me 15420se
 21470as
 1400-1500 6190me 11940me 21470as
 21660cy
 1500-1530 6190me 11860se 11940me
 15420se 21470as 21490me
 21660cy
 1530-1630 6190me 11940me 21470as
 21660cy
 1615-1630 11860se 15420se 21490me Sa/Su
 1630-1700 6190me 11940me 15420se
 21470as 21660cy
 1630-1700 11860se 21490me Sa/Su
 1700-1746 3255me 6005se 6190me 9630se
 15420me 21470as
 1746-1830 3255me 6190me 15420me
 21470as
 1830-1900 3255me 6005se 6190me 9630se
 15420me 21470as
 1900-2100 3255me 6005se 6190me 9630se
 12095as
 2100-2200 3255me 6005se 6190me

English to West Africa

0300-0700 7160as 11765me
 0400-0629 6005as
 0629-0705 6005as 15400as
 0700-0800 11765as 15400as
 0800-1000 15400as 17830
 1000-1100 15400as 17830as SaSu
 1100-1130 15400as 17830as
 1130-2100 17830as
 1500-2300 9605se 15400as

English to the Americas

0000-0100 6010sa 9825sk 12095as
 0100-0300 9825sk 12095as
 0000-0100 5975an
 0100-0400 5975an 9525ok
 0400-0500 5975an 6010sa
 0400-0600 6135de
 0900-1000 6195an(1000-) 15190as(-1000)
 1000-1130 15190as Sa/Su
 1100-1130 6195an 15190an Sa/Su
 1100-1130 17790as
 1130-1200 15190an Mo-Fr
 1130-1200 6195an
 1130-1200 15190an Sa/Su
 1200-1230 6195an 15190an Sa/Su
 1230-1700 15190an Sa/Su

BBC World Service (continued)

1230-1400 6195sn
 1230-1700 15190an Mo-Fr
 2100-2130 5975an Sa/Su
 2100-2130 12095as
 2130-2400 5975an 12095as

English to Southeast Asia

0000-0030 3915sn 11945ya 17615na
 0000-0100 9740sn 6195sn 15280na 15360sn
 0100-0200 6195sn 15280na 15360sn
 0200-0300 15280na 15360sn
 0000-0530 15280
 0300-0500 15280na 15360na 17760na

0500-0530 15280 21660sn
 0530-0800 21660sn
 0500-0900 11955na 15360sn
 0500-1000 17760sn
 0800-1030 21660na
 0900-1030 6195sn 9605ya 9740sn Su-Fr
 1030-1100 6195sn 9740sn Su-Fr
 1100-1600 9740sn Su-Fr
 1000-1400 17760na
 1000-1100 6195na 6195sn 9740sn Sa
 1100-1600 9740sn Sa
 1100-1400 6195sn
 1400-1600 6195sn 7160na
 1600-1700 6195sn
 1600-1800 3915sn 7160sn
 2100-2200 5965na 3915sn 6110ya 6195na
 2200-2300 5965na 6195sn 7105om 9740sn
 11955sn
 2300-2330 3915sn 6195sn 9740sn 11945ya
 11955na 15280na
 2330-2400 3915sn 6035sn 6195sn 9740sn
 11945ya 11955na 15280na

English to South Asia

0000-0100 5970om 11955na 15310na Su-Fr
 0000-0300 9410cy(-0200) 17790sn
 0100-0300 11955om 15310na
 0300-0700 15310om(-0600) 17790na
 0600-1800 15310na 17790om(0700-1600)
 1500-1600 5975sn
 1600-1700 5975na 9510na(1800-) 17790ra(-1700)
 1700-1800 5975na 9510sn(-1800)
 9510na(1800-) 17790ra(-1700)
 1800-1830 5975na 9510sn(-1800)
 9510na(1800-) 17790ra(-1700)

English to the Caribbean

1100-1130 6195an 15190an Mo-Fr
 1200-1230 6195an 15190an Mo-Fr
 2100-2130 5975an
 2115-2130 11675an 15390gr Mo-Fr

English to Europe

0300-0800 6195ra
 0400-0600 6195sk 9410cy 9410ra
 0500-0900 9410ra 12095cy(-0700)
 0700-1700 9410wo(1500-) 12095wo 15485sk
 1700-2300 6195ra 6195sk(-2000)
 6195cy(2000-) 9410cy(-2200)
 2300-2400 6195ra

English to the Falklands

2130-2145 11680ra Tu/Fr

English to MidEast Forces

0300-0400 9410cy 9410sk
 0300-0500 11760cy 15575cy
 0333-0400 5875ra 5875wo 6065sk 7130ra
 7265cy 9670ra Su
 0405-0430 5875ra 5875wo 6065sk 7130ra
 7265cy 9670ra Su

0433-0500 5875ra 5875wo 6065sk 7130ra
 9670ra Sa/Su
 0500-0730 11760om(-0600) 15565cy(-0700)
 15575cy
 0505-0530 7295ra 9670ra 11845wo Sa/Su
 0700-1800 11760om(-1400) 15565ra
 0730-0900 15575cy Sa/Su
 0700-1500 15575cy(0900-) 17640sk
 17640wo(0800-)
 1700-2000 12095wo(-1900) 15310na(1800-)

English news to Europe and Asia

0000-0100 5970om 11955na 15310na Sa
 0200-0300 6195sk 9410cy 9750se
 0900-1000 6195na 6195sn 9740sn Sa
 0900-1030 9605ya Sa
 2005-2030 5875cy 5990ra 7325cy 9635cy
 9825wo Su

French

0430-0500 6155as 7105as 17885se
 0600-0629 7105as 9610as 9710ra 15425cy
 0700-0729 15105as 17695me
 1200-1230 15425wo 17780as 21640as
 1800-1830 7230me 9815wo 15105as
 17885as 21630as

Hausa

0529-0600 6135as 7105as 9610as
 1345-1415 15105as 17810as 21640as
 1930-2000 11855as 15105as 17885as

Hindi

0100-0130 6065om 7320cy 7375ta 11750om
 15510na
 0230-0300 11725om 15405na 15510ir
 17615na
 1400-1445 6140om 7205om 7430ta 11920sn
 15245om
 1445-1500 6140om 7205na 15245om Su
 1700-1730 6065na 7205sn 7235om 9605na

Indonesian

1100-1130 7135sn 9510sn 11920na
 1300-1345 6030om 6035na 7135sn 9540sn
 11945sn
 2200-2300 3915sn 6080sn 9510sn 11995na

Mandarin

1100-1300 11945na 21660na
 1100-1530 7330vl 9605ya 15285sn
 1300-1530 6065km 7105na
 2200-2300 7160na 9580na 11945ya
 2200-2330 6035km 6110na 7150om

Nepali

1500-1530 7430ta 11685sn 15540sn

Pashto

0100-0200 7165cy 9875cy
 0100-0230 17615na
 0200-0300 5875cy 7320sk 9735cy
 0700-0730 15420om 17870cy Fr
 0700-0900 12035dh Fr
 0730-0800 15420om 17870cy Fr-We
 0800-0900 15420om 17870cy Fr
 1100-1200 15420om 17870cy
 1500-1600 6195sk 13755na 15575cy

Persian

0200-0300 7165cy 9875cy 11750om
 0300-0400 7165cy 9875ra 11750cy
 0700-0800 12035dh 15420om 17870cy Th
 0845-0900 12035dh 15420om 17870cy Th
 0900-1000 15420om 17870cy Th/Fr
 1000-1100 15420om 17870cy 21515sk
 1100-1300 12035dh 21515sk Fr
 1400-1500 6195sk 13755na 17870cy

BBC World Service (continued)

1600-1700 6195sk 9915cy
 1600-2000 6090om 13755na 15540sn

Persian/Pashto

0400-0445 11750cy 13650cy
 0800-0845 12035dh 15420om 17870cy Sa-Th
 1200-1300 15420om 17870cy

Portuguese

0430-0500 3390me 6135me 7205me
 2030-2100 3390me 6135me 7205me
 11695sk 11855as 13700ra

Romanian

0600-0630 9875cy (Mo-Fr: -0615)
 1200-1230 11680cy
 1600-1630 6050cy
 1900-1930 6050ra

Russian

0300-0330 5875ra 7265cy 9670om
 0330-0333 5875ra 5875wo 6065sk 7130ra Su
 0330-0333 7265cy 9670ra
 0330-0430 6065sk 7130ra Mo-Sa
 0330-0433 5875ra 5875wo Mo-Sa
 0333-0400 7265cy 9670ra Mo-Sa
 0400-0533 9670ra Mo-Fr
 0400-0405 5875ra 5875wo 6065sk 7130ra Su
 0400-0405 7265cy
 0400-0405 9670ra Sa/Su
 0405-0430 7265cy 9670ra(Sat) Mo-Sa
 0430-0433 5875ra(Sun) 5875wo(Sun)
 6065sk 7130ra 9670ra(Sa-Su)

0433-0500

0500-0505 5875ra 5875wo 6065sk 7130ra
 7295ra 9670ra(sa-su) 11845wo
 0500-0600 6020wo 9670ra(0533-) Mo-Fr
 0505-0600 7295ra 11845wo Mo-Fr
 1630-1700 7435mo(sun) 7385mo(sat) SaSu
 1730-1900 11670ra 13640ra
 1730-2005 7325cy 9635cy 9825wo
 1800-1900 11925ra
 1900-2005 5875cy 5990ra
 2005-2100 5875cy 5990ra 7325cy 9635cy
 9825wo Mo-Sa

Serbian

0500-0515 6130ra 7210wo 9510cy
 0545-0600 6010sk 7210cy 9865cy
 1130-1145 11680bi 13650ra 15325ra
 1500-1515 5875cy 12025ra 15115sk Mo-Fr
 1700-1730 6050cy 9635ra 11925ra
 2100-2115 6015cy 7255ra 9810cy

Sinhala

1515-1545 6140om 9680sn

Somali

1100-1130 17850se 21590cy
 1400-1415 11860se 15420se 21490cy Th/Fr
 1415-1500 11860se 15420se 21490cy
 1800-1830 6005se 9630se 15450wo

Spanish

0000-0115 5875ra 5875sk 6110an 6110as
 9855as 11765as
 0115-0130 5875ra 5875sk 6110an 6110as
 9855as 11765as Tu-Sa
 0300-0345 5995de 6110an 7325ra 7325sk
 9515de
 0345-0400 5995de 6110an 7325ra 7325sk
 9515de Tu-Sa
 1100-1130 6110gr 6130de 9670an 15220as
 Mo-Fr
 1300-1330 6130de 9670de 15325gr Mo-Fr

Swahili

0300-0329 7235ra 9610se 11865me
 0400-0430 7185as 11730se 15400me
 1530-1615 11860se 15420se 21490me
 1615-1630 11860se 15420se 21490me Mo-Fr
 1746-1800 6005se 7230me 9630me

Tamil

1545-1615 6140om 7205na 9680sn

Thai

1235-1300 7135sn 9540sn 15265cy
 2330-2400 6060om 7185cy 9580sn

Turkish

0500-0530 6010sk 9865ra Mo-Fr
 0900-1000 9410cy 11780cy Su
 1600-1700 5875ra 9530la 12010sk
 2030-2100 7115ra 9670om Mo-Fr

Ukrainian

0500-0600 5875ra 7260wo 9895cy mo-Fr
 1500-1530 11865ra 13640sk 15470wo
 1700-1730 5875cy 7105la 9530sk

Urdu

0130-0200 6065om 7320cy 11750om
 15510na
 1500-1600 6035om 7205na(-1545) 9510sn
 11920cy
 1730-1800 6065na 7205sn 7235om 9605na

Uzbek

1600-1630 7325cy 7435mo 9635om
 1630-1700 7325cy 7435mo 9635om Mo-Fr

Vietnamese

1430-1500 6135sn 7135sn 11865sn
 2300-2400 6080sn 7105na 11865sn

DRM Test Progs

1000-1500 7320ra
 1100-1300 9410ra

Transmitters:

an = Antigua
 as = Ascension
 au = Austria
 bi = Biblis
 cy = Cyprus
 de = Delanao
 dh = Dhabbaya
 gr = Greenville
 ir = Irkutsk
 la = Lampertheim
 km = Kimjae
 me = Meyerton
 mo = Moscow
 na = Nakham Sawan
 ok = Okeechobee
 om = A'Seela, Oman
 ra = Rampisham
 sa = Sackville
 se = Seychelles
 sk = Skelton
 sn = Singapore
 ta = Tashkent
 vl = Vladivostok
 wo = Woofferton
 ya = Yamata
 (via Wolfgang Bueschel, Re-arranged from
 spreadsheet by Alan Roe-UK, WDXC-U.K., Oct 9)

URUGUAY 6045.18 Radio Sport, Montevideo, 1000-1015, October 19. Spanish. Transmission basquet match: Bohemios vs Aguada. Short local advs: "Prestobarba de Gillette....." Best reception on LSB mode. (Slaen-ARG/Cumbre)

VIETNAM Voice Of Vietnam English B'03

0100-0200 6175
 0230-0300 6175
 0330-0400 6175
 1000-1030 9840 12020
 1100-1130 7285
 1230-1300 9840 12020
 1330-1400 7100 9730
 1600-1630 7100 9730
 1700-1730 9725
 1800-1830 7100 9725 9730
 1900-1930 7100 9730
 2030-2100 7100 9730
 2330-2400 9840 12020
 (Gupta-IND)

4797.7 **Son La Broadcasting Station** (p)
 1338 with local music, some talk by woman in Vietnamese. 1359* with no anthem or announcements but as scheduled. Tough with radar interference and stations on 4800, but best reception of the season. (Johnson Oct 5/Cumbre DX)

5035. **Dai Tieng Noi Vietnam, Xuam Mai**, 2208-2258*, Oct 13 and 19, H'Mong ann, ethnic H'Mong songs, 2258 closing ann. Off the air until *2325-2400* when the strn returned. 34333 // 6165 was covered here by Croatia. (Anker Petersen-DEN, dswci DXW Oct 20/BC-DX/Bueschel-D)

6378.81, 1141-, **Radio Lai Chau** Oct 3
 Presumed logging of this strn at fair to good strength except for static crashes with gentle Vietnamese sounding vocals. Have to use LSB to escape utility noise. Talk by YL at 1159.35. Then OM at TOH with possible ID, once only (sounded official anyway), and into Vietnamese mx. (Walt Salmaniw-BC-CAN, DXplorer Oct 6/BC-DX/Bueschel-D)

RADIO FREE ASIA B-03 tentative schedule:

0000-0100 Lao 118301 13830
 15545T
 0030-0130 Burmese 11535 11570
 13710S 13815I
 15155T
 0100-0200 Uighur 7480 9365
 9580UAE
 9690UAE 15270T
 17570T
 0100-0300 Tibetan 7470-D03 7560
 9670H 11695UAE
 15220T 17730
 0300-0600 Mandarin 13625T 13760T
 15150T 15665T
 17495 17525
 17615S 17880S
 21540T
 0600-0700 Tibetan 17515 17540
 17720 21570T
 21715UAE
 0600-0700 Mandarin 13625T 13760T
 15150T 15665T
 17495 17525
 17615S 17880S
 9355S 9775T
 1100-1200 Lao 15555I 15680
 1100-1400 Tibetan 7470 9365-D03
 11540 13625T
 15435UAE
 15185H-(from
 1200)
 1230-1330 Cambodian 11510 13725I
 15395T
 1300-1400 Burmese 7550 9355
 11795T 12105I

1400-1500 Vietnamese 15250T
 9365 9455S
 9930W 11520
 11535 11605N
 11760T 13660I
 13725P 15470T
 21625I
 1400-1500 Korean 5855 7475 12000T
 13625T
 1400-1500 Cantonese 9825T 11950S
 15255T
 1500-1600 Tibetan 7470 7495 11520
 15385UAE
 1500-1600 Mandarin 75409905P
 11945T 13670T
 13745T 15510T
 17565T
 1500-1600 Korean 11870S 13625T
 1600-1700 Uighur 7515 7530
 9865UAE 11720T
 13725I
 1600-1700 Mandarin 7540 9455S
 9905P 11945T
 13670T 13745T
 15510T 17565T
 1600-1700 Korean 7210irk 11870S
 13625T
 1700-1800 Mandarin 7540 9455S
 9905P 11850S
 11945T 13670T
 13745T 15510T
 17565T
 1800-1900 Mandarin 7455 7540 9355S
 9455S 11745S
 11790T 11945T
 13670T 13745T
 15510T 17615T
 1900-2000 Mandarin 7455 7540 9355S
 9455S 9875P
 11745S 11790T
 11945T 13625T
 13670T 13745T
 15510T
 2000-2100 Mandarin 7540 9355S
 9455S 9875P
 9885T 11900S
 11950T 13625T
 13745T 15510T
 2100-2200 Mandarin 7540 9455S
 9875P 9885T
 11900S 11950T
 13625T 13745T
 15510T
 2200-2300 Korean 7460 9455T
 11775S 11905T
 2200-2300 Cantonese 9570S 9845P
 11740T 11785T
 2230-2330 Cambodian 7185I 75309930P
 15485T
 2300-2359 Tibetan 6010UAE 7415
 7470 7550 9875H
 2300-2359 Mandarin 7540 9905P
 11785T 11995S
 13800T 15430T
 15550T
 2330-0029 Vietnamese 7515 9490 9930P
 11580 11605N
 11965T 13720S
 13865I

(various sources, Oct 22/BC-DX/Bueschel-D)

Pirate Radio Report

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

Hello and welcome to the November 2003 edition of **The Pirate Radio Report!** I hope lots of you heard interesting stuff over Halloween. Be sure to drop us a line at the PRR and let us know what you heard!

It's Europirate Season Again!

What's that, you ask? It is the time of year that low powered European based pirate stations can be heard in the Eastern part of North America.

Many Europirate stations like to operate on Sunday mornings, usually signing on between 0700-1000 UTC.

During the summer time, this time period will not propagate to NA because the sun is well above the horizon and the Polar Regions are in daylight. In the mid-winter months the increased darkness over the polar region and northern Europe aids propagation to North America.

The frequency range for these station ranges from 6200-6300 kiloHertz. It helps if you're on the East Coast in a quiet location. Dunlo Dave Valko and Andy Yoder in PA have had great success in logging these stations. Give it a try!

We have Loggings. Many thanks to the following fine folks who submitted their logs to this month: Scott Barbour-NH, Ross Comeau-MA, Rich D'Angelo-PA, John Fisher-MA, Tom Holzlohner-PA, Ed Kusalik-MAN, George Zeller-OH.

Old Turkey Radio, a new one, was noted October 13th at 0000 to 0113 UTC on 6950 kHz USB. Programming featured a crank call to the Butterball Turkey hotline. SIO: 444 [Fisher-MA]

Radio Online, a Dutch Europirate, was heard on the 48 meter band frequency of 6339.95 kHz at 0217-0225 UTC on September

29th. A couple of men were talking in Dutch with mentions of "Nederland", "Rotterdam" and several very clear IDs as "Online Rah-de-oh". Before sign off, light jazz music was heard followed by the Dutch national anthem. [Comeau-MA]

Shadow Radio, heard on October 13th at 0016 UTC on 6950 kHz with the "mystery of a man's man" and an ad for Blue Coal. [Holzlohner-PA]

WHYP, James Brownyard's station was logged on 6925 kHz USB on October 12th from 0001 sign on to 0012 sign off. JB signed on over the top of an UNID pirate telling children's stories with his rock music program. They later apologized for the ORM saying that the storytelling pirate was skipping over Northeast PA and was not heard at WHYP. [Zeller-OH] A WHYP Halloween special was logged on October 12th at 0029 UTC on 6925 kHz. Mentions of teleporter and the Gay Ghost at Lee Reynolds' house were mentioned. [Kusalik-Canada]

WJAM Parody. Not the real WJAM but a parody done by WHYP's James Brownyard was logged on 6925 kHz at 0115 UTC on October 13th. The program is hosted by Zach Riot who is tied up Uncle Schlekstein. [Fisher-MA]

WMPR, The famous Techno-Pop pirate was noted on 6925 kHz AM at 0025 UTC on October 15th with the usual fare of techno dance music. [Barbour-NH]

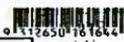
WNKR-West And North Kent Radio, was logged on October 12th at 0118 UTC on 6285 kHz. Thanks to a tip from George Maroti, this was heard with a couple of IDs such as the canned "Your favorite radio station, WNKR" A possible phone number was also noted. Poor reception of the 20 watt station from England. [D'Angelo-PA]

Until next month, Happy Pirate DX! 

QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010

Melbourne Park
Photographer: Robert Carlino



This confirms your receipt of a report of a program of an Electronic DX Press.

Station: UTCR 1242 Freq: 15115
 Transmitter: HGTR-524
 Program: Radio EDP
 Sent: 10-7-03
 QSL Manager: Bob Pedala

Mr Henry Weissbar
 1124 Clisman Drive
 Houston
 Texas 77025-6010
 U.S.A.

THE ELECTRONIC DX PRESS ©
 404 Mori Albert Road, Surrey Hills, Victoria 3127, Australia
 E-mail: edp@bigpond.com

ASIATIC RUSSIA: Deutsche Welle 15605 via Komsomolsk-on-Amur f/d "1953-2003" cd. in 12 wks. This makes 30 DW sites verified. I'm expecting #31 Vladivostok any day. (Craighead-KS)

BONAIRE: Radio Netherlands International 21590 f/d "Dutch Morning" cd in 26 ds. (Weissborn-TX).

CANADA: Radio Korea International 9650 via Sackville p/d "KBS 50th Anniversary" cd. in 23 ds (Weissborn-TX).

LANDESTINE: Mesopotamian Radio and Television 12115 f/d "Transmitter Do-cumentation Project" cd. #198 in 331 ds. v/s Ludo Maes. (D'Angelo-PA).
 * **Voice of Ethopia** 7520 f/d "TDP" cd. #259 in 186 ds. (D'Angelo-PA). **Denge Mezopotamia** 15675 via Tashkent, Uzbekistan f/d "TDP" cd. in 9 mo.
 * (Craighead-KS). **Voice of Biafra International** 12125 via Samara, European Russia f/d "TDP"

STATION NOTES: Radio Guaruja Paulista 5045 v/s Orivaldo Rampazo, Director Presidente. Addr: Rua Montenegro 196, Conj. 1, Villa Maia, CEP 11410-040 Guaruja, SP, Brasil. **Radio Sicuani** 4826 v/s Danilo Nunez Salas, Director. **Radio Tacna** 9504.6 v/s Ing. Alfonso Caceres, Gerente de Operaciones. **Radio Tarma** 4775 v/s Mario Monteverde, Gerente General. **Radio Virgen del Campo** 4885 v/s Bishop William Molloy McDermott, President and/or Jose Lopez Alvarado, Director. Addr: Plaza Bolognesi 142, Cercado, Huancavelica, Peru. **Alfa Lima International** 15070 Addr Box 663, NL-7900 AR, Hoogeveen, Netherlands. **Andino Relay Service** 6880 Addr: P.O. Box 159, Santiago 14, Chile. **Bor-derhunter Radio** 15795 Addr: SRS, Ostra Porten 29, SE-44254 Ytterby, Sweden...via PLAY DX...Sam.

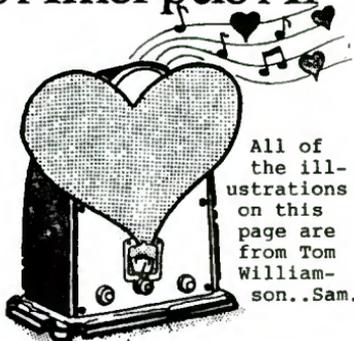


Confirming Receiver	DATE	UTC	FREQ
D'Angelo	12/31/02	2330	6950M
Transmitter	Antenna	Power	
Homebrew	500ft Zapp	150W	



cd. in 18 mo. (Craighead-KS). **Que Huong Radio** 9930 via KWHR f/d "TDP" cd. in 15 mo. (Craighead-KS).
 * **Voice of Khmer Kampuchea Krom** 11985 via Vladivostok in 19 mo. and a cd. for 15660 in 14 mo. (Craighead).
CUBA: Radio Rebelde 5025 f/d cd. in 564 ds. for a SP rpt. and tape. (Klinck-NY)... Glad to hear from you.

Nós Espalhamos o Amor pelo Ar



All of the illustrations on this page are from Tom Williamson..Sam.

Radio Canção Nova A Sintonia do Amor

AM 1020 KHZ - OC31M 9675 KHZ
OC49M 6105 KHZ - OT 60M 4825 KHZ

cd. in 92 ds. for 3 ms. (Weissborn-TX). f/d "Tungurahua Volcano" cd. in 96 ds. for 3 ms. (Weissborn-TX). 15115 f/d "Sangay Volcano" cd. in 63

China Radio International 5990 p/d "Jinggang Mountains" cd. in 68 ds. for a SP rpt. Papercuts and postcards were * rcvd. (Weissborn-TX). **Alo Presidente** 15570 via **Radio Rebelde** f/d large **Radio Nacional de Venezuela** QSL cd. w/ friendly personal ltr. confirming the program name and the relay station in 6 mo. v/s C. Ali Mendoza Martinez, Periodista y locutor de la Onda Corta de RNV. RNV Addr: Ave. Las Marias, El Pedregal, De Chapellin, Caracas. My report was sent to this address but the package was postmarked from Atlanta, Georgia. Also rcvd. 4 RNV stickers, 4 RNV folders, travel folder and 2 photo cds. I was pleasantly surprised to notice the photo on one of the cds. is credited to a Los Teques, Venezuela photographer, filmmaker, and writer w/ whom I edited a number of films about Venezuela many years ago. (Craighead).

ECUADOR: HCJB 9780 f/d long "Andes Panorama" cd. embossed for 50 years of the German Service and a 1998 "45 Years of Service" cloth pennant in 7 wks. (Craighead-KS). 9745 f/d "Cotopaxi Volcano"

STATION NOTES: **Love Parade Radio** 6286.7 Addr: P.O. Box 520 112, DE-44207 Dortmund, Germany. **Magic Radio** 6301 Addr: P.O. Box 94, NL-7038 ZH, Zeddum, Netherlands...or P.O. Box 73, NL-7160 Neezda, Netherlands. **Ma-**



CAAMA radio

skin-fm

6288 v/s Jan Wevers, DJ. Addr: Muntzstraat 8, NL-8141 AP Heino, Netherland **Power Play Radio** 6262 Addr: P.O. Box 1136, DE-06201 Merseburg, Germany. **Radio Boomerang** 6275 Addr: use the NL-7160

maildrop. **La Voz de la Selva** 4824.4 v/s Julia Jauregui, Directora. Addr: Apartado 207, Iquitos, Peru.....via PLAY DX...Sam.

ds. for 3 ms. (Weissborn-TX). **EDXC Program** 15115 via **HCJB** p/d ltr. in 11 ds. for 1 IRC. Addr: EDXC HQ, P.O. Box 18120, 50129 Firenze, Italy. (Weissborn-TX).

ENGLAND: IBRA Radio 12020 via Skelton f/d cd. marked "HCJB London" in 3 mo.



**Radio México Internacional
XERMX-OC**

"VIEJITOS"

Artesanos en papel maché.
Coyoacán, México, D.F.

APARTADO POSTAL 21-300 04021 MÉXICO, D.F.

FRECUENCIAS

5985 kHz (49mts)
9705 kHz (31mts)
11770 kHz (31mts)
15430 kHz (19mts)



* (Craighead-KS). **Sudan Radio Service** 17630 and 17660 verified w/ a "Thank you very much for your reception report" ltr. in 9 ds. v/s Jeremy Groce, Radio Programming Advisor.. (D'Angelo-PA). same w/ e-mail reply in 2 ds. (D'Angelo-PA).

GERMANY (West): Radio Africa International 15715 via **DTK Julich** f/d "Map" cd. in 1 mo. for \$1.00. Also rcvd. sticker and pamphlet. (Wilkins-MO). 15485 and 9535 same cd. in

IMER
INSTITUTO MEXICANO DE LA RADIO

Fotografía: EDGAR MUNGÍA OLIVER

Illa de S. Tomé

Provincia de S. Tomé e Príncipe

CRSSC 4807,5 Kcs
CRSSB 7767,5 Kcs

Rádio Clube de S. Tomé

(Avenida Infante D. Henrique, 10/28)

S. Tomé, 4 de Novembro de 1962

nosso emissor do dia 27 de Novembro de 1962

na frequência de 4.807 Kcs - Banda dos 62,41 metros

Agradecemos a todos a nossa emissão do dia 25 de Janeiro de 1962 às 20,30 TMC, na qual iniciamos um programa dedicado aos nossos ouvintes do estrangeiro.

Apresento a V. Ex.ª os nossos melhores cumprimentos.

Alfredo Simões

less than a mo. v/s Raphael Mbadanga. (Paszkiwicz-WI)... Glad your reporting again also..

* Sam. Russian Radio International 17705 via Julich QSLed via e-mail from Walter Brodowsky, Account Manager for Shortwave broadcasts, in 10 ds.

GERMANY (Pirate): Crazy

* Wave Radio 6275 f/d cd. w/ station literature in 40 ds. for \$1.00. v/s Chris Ise. 18 watts! Addr: CWR, P.O. Box 1136, DE-06201 Mersburg, Germany.

HAWAII: Armed Forces Net-

work 6350 p/d ltr. in 1 day via e-mail. v/s Brooke Armato, Broadcast Operations Specialist. (Paszkiwicz-WI).

HONDURAS: HRMI 3340 f/d cd.

w/ pamphlet in 14 ds. for SASE (used). My rpt. was sent to the San Ber-

MEMBERS NOTES: Tom Williamson sent in these two QSLs from Sao Tome. The top one is a 1963 QSL while the bottom one goes back to 1951. Great to have these illustrations in the QSL Column. Interesting to note that the top QSL includes CR5SB as operating on 17677.5kHz. That was a new one for me. Thank again Tom...Sam.

nadion, CA. address. (Barbour-NH).

EUROPEAN RUSSIA: IBRA Radio 15225 via Samara f/d cd. in wks. (Craighead).

KAZAKHSTAN: Deutsche Welle 17485 via Alma Ata f/d "Sines Relay" cd. in 10 wks. (Craighead-KS).

PERU: Radio Municipal Pnaao 3172.7 returned my prepared cd. along w/

STATION NOTES: Radio Casanova 6275

Addr: Post Bus 46, NL-7160 AA Neede, Netherlands. Radio Continental 6308 v/s Berry Scheffer, DJ. Radio Dynamix 6276 Addr: Post Fach 1136, DE-06201 Mersburg, Germany. Free Radio Service Holland 6274.6 Addr: P. O. Box 2702, NL-6049 ZG Herten, Netherlands... via PLAY DX... Sam.

a nice handwritten ltr. from Pablo Albornoz Rojas in 1008 ds. for US \$1.00. (D'Angelo-PA).

PUERTO RICO: AFRTS 7507 p/d ltr. in 21 ds. for ms. (not used). (Barbour)

QATAR: Oatar Radio 17755 very surprised to receive a package from this station w/ a 1991 booklet about the country, an EG service schedule w/o any frequencies and a ltr. which stated "We are sorry about a QSL card because we stopped issuing it." v/s Jassim Mohammed Al-Qattan, Head of Public Relations,

NHK



RADIO THE VOICE OF VIETNAM

This is to verify

VOV

Mrs Ms: Henry Weissborn
listened to the VOV Broadcast at 9:00 AM on June 1, 2003
on June 1, 2003
with the compliments of the Director of the Overseas Service of the Voice of Vietnam

Handwritten: 990-0003
OVERSEAS SERVICE, VOICE OF VIETNAM
28 Quang Su Street, Hanoi, Vietnam

Exchange and Research. All this in 441 ds. for 1 IRC. (Barbour-NH).
TINIAN: Voice of America 9545 f/d cd. in 1 mo. w/ pocket world atlas, schedule, stickers and a VOA mousepad. (Paszkievicz-WI).
USA (Pirates): Big Thunder Radio 6950 "Typical Plains Sunset" cd w/ station name written on it in

MEMBERS NOTES: Henry Weissborn reports that Radio Nacional de Espana will not issue QSL cards as of January first. They hope to reinstate the service at a later date. Scott Barbour recently purchased an Icom R-75 from Universal. Did UPS deliver it yet?..Sam. scott says the NH days are in full swing with the fall foliage. I just went to southern VT. It is great...Sam.

15 ds. for an e-mail rpt. to bigthunderradio@yahoo.com. The station claims to broadcast live shows out of a tractor trailer rig from various locations while crossing the country. I heard them while they were in Boston. They claim to have done a show from Mexicalli, Mexico. They use a Yaesu 767, Radio Shack stereo mixer a 3 CD player and a cassette deck. 120 watts. (D'Angelo-PA). Sunshine Radio 6950 f/d paper QSL in 12 ds. for an e-mail rpt. to: grasscutterradi@yahoo.com. (Wilkins-MO).

SOUTH AFRICA: Radio Vlaanderen International 9925 Fax in 3 wks. (Paszkievicz-WI). Adven-

Democracy FRONTIERS

Subj: Re: Reception Report - Voice of Ethiopia
Date: 03/13/2003 9:10:00 PM Eastern Standard Time
From: info@democracyfrontiers.org

To: Rdangelo3@aol.com
Sent from the Internet (Details)

Dear Mr. D'Angelo,

Thank you very much for letting us know of your reception of our program. Thank you too for letting us know about you and your family. We hope you will continue to enjoy our program and letting us know how we are doing with our program. If you have any questions, please do not hesitate to let us know.

Voice of Ethiopia Broadcast Information

The Voice of Ethiopia is a new weekly radio service to the world on current events in Ethiopia from the perspectives of Ethiopians residing in Ethiopia and in the Diaspora. In this News service Ethiopians provide a reality check on the news and viewpoints on Ethiopia dispatched by foreign correspondents, resident Ambassadors, UN representatives, governmental & Non-governmental organization, and visiting dignitaries to Ethiopia.

The Voice of Ethiopia is broadcasted on:
-The 41 meter band; or
-On 7520 kilo hertz;
-At 2:000 UTC (Or at 5:00 PM Ethiopian Time).

STATION NOTES: Radio Decibel 6295.2
Addr: PB 139 NL-7640 Wierden, Netherlands. Q103
13840 via IRRS v/s Juha Viren.
Addr: Ostra Porten 29 S-442 54 Ytterby, Sweden.
Power 41 6240 same addr as Q-103. **European Music Radio** 13840 via IRRS Addr: EMR, c/o IRRS Shortwave, CP 10980 20110 Milano, Italy.... via PLAY DX.

tist World Radio 15105 via Meyerton f/d cd. in 2 wks. (Paszkievicz).

73s

Net Notes

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

Joe Buch, NASWA's Technical Topics Editor, has been leading NASWA's charge against the use of the BPL (broadband power line) to carry cable and Internet signals. Now read David Coursey's "no-thanks" comments on ZDNet AnchorDesk at [reviews-](http://reviews-zdnet.com.com/AnchorDesk/4520-7297_16-5089730.html?tag=adts)

[zdnet.com.com/AnchorDesk/4520-7297_16-5089730.html?tag=adts](http://reviews-zdnet.com.com/AnchorDesk/4520-7297_16-5089730.html?tag=adts).

On the Road Again

Not quite shortwave but interesting for road travelers, a Web site sorts out USA domestic broadcasters en route. Sports—baseball, college and NFL football, auto racing, NBA and NHL—and some network talk shows are sorted out by Interstate. Estimated day and night coverage in miles is given. Or select an Interstate route and the starting and ending cities, and a list of AM and FM stations for major cities is presented. The program format is also shown. Like any listing, formats and calls are probably not entirely up to date but radioroadtrip.com looks like a good starting point to us.

LyngSat

Do solar storms have the better of you? Is the receiver antenna broken beyond repair? There is a fascinating one-stop shop offering 214 live TV channels and 542 satellite radio channels for a mouse click or two. A high speed connection, DSL or cable, is preferred, and you'll need the "big three" players: MediaPlayer from Microsoft, RealPlayer from Real, and QuickTime from Apple.

All six continents are represented. From the USA, there are a number of broadcasters targeting Iran and Iraq.

Links to the broadcaster and satellite sites are included. I poked around these pages for quite a while,

listening to talk and music shows around the world. That included South Africa, BBC News 24 and Emirates FM2 among many others.

There is a media shop, and a page for screen backgrounds and savers.

Start at lyngsat.com and drill down through the many pages. I add bookmarks/favorites to the browser for the stations, and add the media feed link to the media player link list.

With the New Year rushing towards us, this Web site should be in your tool bag of tuning in the world on the evening of December 31.

Radio Netherland's Lou Josephs has a 2003 New Years Eve page on the Web at www.ibc.net but we have no news on updates for 2004 yet. Watch my notes at trsc.com/weblog for late-breaking news...

Propagation Prediction

Serge Stroobandt, ON4BAA, is heavily promoting his new "on-line HF propagation prediction" page in the amateur radio community. I don't recognize original material within the site, but the organization and presentation is different than I have seen elsewhere. The pros and cons of this site are the same: everything is on one page. Nice to access, but slow to load, depending upon the Web access. Tune to www.stroobandt.com/propagation and have a look.

[stroobandt.com/propagation](http://www.stroobandt.com/propagation) and have a look.

Family Pets

And finally, your next assignment, Jim, is to read thereisnocat.com -- this tape will self-destruct in 10 seconds... 9... 8...

Psst... the Winter SWL Festival is less than **130** days away...

Contributors' Page

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

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA NRD-545 AOR AR-7030 100' LW
Scott BARBOUR, Intervale, NH ATS 818, RS antenna system
John BEATTIE, Ventura, CA Drake R8B, Eavesdropper dipole, MFJ1026
Jerry BERG, Lexington, MA R8A 165' LW
Rich D'ANGELO, Wyomissing, PA Drake R8B, Lowe HF-150, DX Sloper
Jill DYBKA, Kingston Springs, TN DX-440, G5RV
Bob FRASER, Cohasset, MA Sony ICF-2003 ICF-SW100S 2m LW
Joe HANLON, Phila, PA SW8, EMF ant., ICF-SW7600G w/active ant.
Jerry LINEBACK, Scranton, KS Icom 746 beverage antennas
William McGUIRE, Cheverly, MD DX-380
Bob MONTGOMERY, Levittown, PA NRD535D, R390A, HF150, SE3, active antenna
Ed NEWBURY, Kimball, NE WJ-1000, R8, 60' sloper, 20' loop
Sheryl PASZKIEWICZ, Manitowoc, WI R8, ICF2010, NRD525, 60' Eavesdropper

Not very many contributors this month. The DX season has begun and a nice list of catches here. With the cooler weather here, sort of makes you think of DXing. Hopefully a few more will consider sending their logs in next month. Please, by the 10th of the month.

Sorry to hear of the passing of Andy Rugg. Long time DXer. I saw him this past summer and sorry to hear the news. My condolences go out to the Rugg Family.

Keep those logs coming.

73

Bob Montgomery



WANTED: Grove Miniature TUN-3 antenna preselector. Steve Price, P.O. Box 855. Bowling Green, VA 22427-0855 or email to vinyltocdr@aol.com.

Tropical Band Loggings

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

- 2310 **AUSTRALIA ABC** Alice Springs 0928-0947 10/16 M&W EE tlks, mx; // 2325 very weak. (Barbour-NH) 1202 10/11, EE pops, poor. // 2325, very poor; 2485, poor (Lineback-KS) 9/28 M EE ID 1032; M&W nx. Weak. (Montgomery, PA)
- 2330 **MEXICO XERTA** 0005 exc excel, M ID, vcls & instls. This seems a usb, self inflicted wound, from their transmitter. (Wilkner-FL)
- 3200 **SWAZILAND TWR** 0320 10/20 Religious program in lang, M ancr, good (BEU-TX)
- 3235 **NEW BRITAIN RWNB** 1218 10/18, vern pops, poor (Lineback-KS)
- 3235 **PERU R. Luz y Sonido** 0948-10049/24MSSmx&tlk, ID1000; M&Wtlks over litempianomx; F/P. (Barbour-NH)
- 3240 **SWAZILAND TWR** 0316-0345* M religious talk in listed Shona lang; light instl mx, ID; more rel talk; choral mx, M s/off routine. (D'Angelo-PA, Barbour-NH)
- 3249.5 **HONDURAS R. Luz y Vida** 0320-0348* 9/20 vocals, SS ID, long rel talk 0330; ID & s/off anmts 0344, orchestral NA. (D'Angelo-PA)
- 3255 **BRASIL R. diff. 6 de Agosto (P)**, 1000-1012 10/16 end mx, M long tlk, ment. Brasila, poor. (Barbour-NH)
- 3255 **SOUTH AFRICA BBC World Service** 0333 10/16 M EE nx; exc. (BEU-TX)
- 3266.4 **SULAWESI RRI Gorontalo** 1227 10/18 M Indo tlk, Indo pops, poor-fair. (Lineback-KS)
- 3275 **PNG R. S. Highlands** 1147 10/11 Vern pops, vy poor (Lineback-KS)
- 3279.54 **ECUADOR R. Maria (via LV del Napo)** 0634 10/2 M&W tlk, mx in the background came up occasionally; several ments. of R. Maria, also "R. Maria Paraguay," "R. Maria en Hispanoamerica" and "R. Maria en Italia," "Buenos dias a todos" at 0648 and into nice vocal mx. (Berg-MA)
- 3290.5 **GUYANA VO Guyana** 0048-0102 10/15 M EE obituary notices and "Messages" prg. w/ messages re deceased relatives; GBC ID b/w prgs, VO Guyana ID & TC 0055; "Focus on Bible" feature; 0100 PSA, ads, ID and winning lottery numbers. Fair. I have heard both the obituary and message prg's several times before and still find it to be some of the most unique and strange programming on SW. Lots of death via VOG! (Barbour-NH) I can't recall the call of the stn in Barnwell, SC, that I used to hear with the "Obituary Column of the Air". (df) 3291, 0324-0346 9/22 Pacific Garden Missions px to 0330, ID & TC, into another rel px; fair. (D'Angelo-PA)
- 3320 **SOUTH AFRICA R. Sondergrense** 9/19 0128 mx at t/i, 'My Girl' by the Temptations; M Afrikaans ancr; poss interview. (Montgomery, PA)
- 3324.8 **PNG R. North Solomons (tent)** 9/28 1059 M Pidgin ancr; apparent news items; weak. (Montgomery, PA)
- 3325 **KALIMANTAN RRI Palangkaraya** 1206-1220 Oct dates, RRI nx, Indo talk. (Lineback-KS)
- 3325 **NIGERIA R. Nigeria, Lagos**, 2250-2306* 9/17, EE/Vern. Afropops in lang, ancr 2300 ment Nigeria, nx till NA at s/off. Poor, noisy, only able to make out a few words here and there. (Barbour-NH) 3326 0452 10/16 Vy nice guitar inst, Fair (BEU-TX)
- 3329.6 **PERU R. Ondas del Huallaga** 9/17 1014-1017; good propagation this morning to South America. Brief "El Candor Pasa", then talk by YL. Two mentions of Radio Ondas del Huallaga during her talk. SINPO 23332 as I was able to use sync and LSB on the Drake R8B. (Maroti-NY)
- 3335 **PAPUA NEW GUINEA R. E. Sepik** 1149 Oct 11, Vern pops, poor, (Lineback-KS)
- 3340 **HONDURAS R. Misiones** 0320-0340 M w/TC & ID (Wilkner-FL) 9/13 0137 (tent) slow SS ballads, anmts w/reverb; poss ID 0200 by M, ment Honduras; weak. (Montgomery, PA) SS rel px, ID, contemporary Christian mx; poor. (Alexander PA 9-28)
- 3345 **MOLUCCAS RRI Ternate** 1221 10/18, M in Indo, fair (Lineback-KS)
- 3365 **PNG R. Milne Bay** 1222 10/18 EE pops // 4890; poor. (Lineback-KS)
- 3516.5 **INDONESIA RSPK, Ngada, Flores** 1238 10/4 M Indo; poor (Lineback-KS)
- 3905 **PNG RN Ireland** 9/28 1011 mostly lcl island mx; 1029 M vocalist in a very pretty island song. M&W Pidgin talks, nx. (Montgomery, PA)
- 3925 **JAPAN R. Tampa/NSWBC** 1018-1032 10/16 JJ, lite mx & tlks, W ID 1030; poor; // 6055. (Barbour-NH)
- 3960 **SULAWESI RRI Palu** 1243 10/18 Indo pops, very poor (Lineback-KS)
- 3976 **KALIMANTAN RRI Pontianak** 1228 10/18 M&W Indo, pops. (Lineback-KS) Presumed, 1044 9/16 Indo mx poking through QRN and sporadic "ham" chatter until CW takes over. (Barbour-NH)
- 4000 **CHINA NEI Menggu PBS** 1011-1027 9/24 CC, W cont tlks, poking thru QRN and "ham" chatter which left after a few minutes; vy brief choral mx bits during breaks, brief ballad at 1024 into M tlks, hams take over 1024; , poor, weak. No ID. (Barbour-NH)
- 4000 **SULAWESI RRI Kendari** 1229 10/18 Indo pops, fair (Lineback-KS)
- 4025.13 **UNID** 0357-0412 10/10 SS, rancho ballads w/brief M b/w selections; no ID at ToH; poor, noisy w/a few good peaks. Harmonic?? (Barbour-NH)

- 4386 PERU *Radio Imperio* presumed, no ID on four loggings, 0950 "aquí estemados oyentes... madre de Dios... Señor J. C. ..." (Wilkner-FL) 4386.6 PERU Chiclayo R. Imperio 9/18 0851 M w/long SS tlks; apparent rel pgmg; Maria mentioned a number of times. ID is tentative. No ID ToH. (Montgomery, PA)
- 4409.83 BOLIVIA *Radio Eco* Reyes 2340-2350 with om tk, very difficult station to log here (Wilkner-FL)
- 4606.4 PAPUA *RRI Serui* 1229 10/18 Indo pops, poor. (Lineback-KS)
- 4748 PERU *R. Huanta* 1004-1013 9/8 M SS tk, ad block w/ passing ment. "Radio Huanta". Fair w/ prop. QRN. (Barbour-NH)
- 4753.3 SULAWESI *RRI Makassar* 1237 10/18 M&W Indo, traditional Indo mx, mentions of Surabaya, (Cultural px?), good. (Lineback-KS) 1038-1050, M&W tlks and Indo mx. Poor. (Barbour-NH)
- 4754.4 BRAZIL *R. Educação Rural* 9/18 0904 M PP talks, ballad, ID 0909, more mx. (Montgomery, PA)
- 4760 LIBERIA *ELWA* 0559 10/2 w/ three repetitions of celeste IS which I recognized but had not hrd for a very long time. Into singing and anmt 0600, but voice audio so low as to be completely useless. Also later, 2218 rel vocals incl. the Lord's Prayer, apparent closing anmt 2229, voice again extremely low; NA, off 2231:30 after a min. of OC. (Berg-MA)
- 4765 BRAZIL *R. Rural* 9/18 0910 vy excited M PP ancr w/intro to mx; PP pop tune, very nice; 0912 M back again; tentative. (Montgomery, PA)
- 4769.97 NIGERIA *R. Kaduna* 9/16 2136 M&W ancr, poor mod; lcl lang; 2156 sounded like a radio play of some sort; time pip at TOH; M EE TC for 11:00; ID, piano mx; ID 2210. (Montgomery, PA)
- 4780 GUATEMALA *R Cultural Coatan* vy strong sig 1020-1115. (Wilkner-FL)
- 4781.33 ECUADOR *Radio Oriental* Tena 1000-1105 musica andina. Tnx Mark Mohrmann. Too close to the previous log of Radio Tacana for comfort. Early fade pattern on CP log, could have been transmitter. If CP is there, should now be buried under the Radio Oriental signal. 9/24. (Wilkner-FL)
- 4785 CLANDESTINE *V. Iraqi People* 0305-0314*; sub-harmonic of 9570; Koran, AA talk; weak, better on // 11710, 9570, 9563. (Alexander, PA 9-27)
- 4790 PAPUA *RRI Fak-Fak* 1239 10/18 Indo pops, good. (Lineback-KS)
- 4790 PERU *Radio Atlantida* 0218-0300* 9/18 M SS tk w/siren sound effects; anmts & ID 0229, vocal selection, another long talk; mx, s/off anmts 0258; poor/fair. (D'Angelo-PA) 1000-1020 "atención San Martín ... cinco en las mañana ... Radio Atlantida"; exc. (Wilkner-FL)
- 4799.8 GUATEMALA *Radio Buenas Nuevas* 0223-0234* Sep 29, religious vocals until 0231 when a man announcer gave a Spanish language ID and frequency announcement. Another man with a time check, full formal ID, talk about the next day's programs and sign off announcements followed this. Fair signal but marred by ever-present 60-meter band swisher. (D'Angelo-PA)
- 4810 MEXICO *X E R T A LA Voz Comercial de Mexico* 1050-1110, per Charles Bolland tip in Cumbre dx, "X E R T A La Voz Comercial de Mexico de onda corta en la banda internacional de 60 metros... X E R T A [music] Radio...?..... onda corta de 60 metros en el corazon de Mexico" [over music]. (Wilkner-FL) 0050-0132 9/17, Mex vocals, EE rap, M SS ID 0100, // website <http://www.xertaradio.com/>. Fair signal; of course the website was much better but not nearly as much fun! (D'Angelo-PA) Tnx Chuck Bolland tip, SS rap mx, M w/ballad. EE & SS IDs 1035, more mx; fair when tuned in LSB. (Maroti-NY) 9/18 0055-0200 pop rel vcls. IDs after every few songs, varying in lang. - SS, EE & FF. Several mornins 0830-1100 strong carrier, but no audio; but there 0630 9/20 w/upbeat SSP vcls. IDs - one in SSP 0634, in FF 0727, then SS & EE 0732; PSA or rel message, SS ID again; past 0800 Mex & Andean mx; also at 1100 check, but carrier only during checks at 0800-1000 on 9/21. EE email seeking postal address brought quick SS giving QTH as: XERTA, R. Transcontinental de America [presumably the "RTA" in XERTA-JB], Plaza San Juan No. 5, Despacho No. 2, Col. Centro, Centro Historico, C.P. 6050, Mexico D.F. Tel. 55184938. (Berg-MA) 0730-0840+ lcl pops, SSP ID anmts. Rooster crows. Very strong but some distortion & hum in audio. (Alexander PA 9-20)
- 4820 TIBET *Xizang PBS* Lhasa 2231-2247 9/16 M&W in CC mx & tlks. Poor tho audible. (Barbour-NH)
- 4830 VENEZUELA *R. Tachira* 0358-0406* 9/23 M SS tk, ID, group vocals, ments "Tachira." Choral NA 0403, then orch.anthem. (D'Angelo-PA)
- 4835.41 PERU *R. Marañon* Jaen 1055 MID, poor mod. Tnx Bjorn Malm observation / correction (Wilkner-FL)
- 4845 MAURITANIA *R. Mauritanie* carrier on when checked 0623 10/2, 4 reps of stringed IS 0631, N.Afr mx, M AA ID 0633, "Huna Nouakchotte... Mauritanie..." into apparent call to prayer. Very strong, as usual. (Berg-MA)
- 4860 INDIA *AIR Delhi* 1245 10/11, subcont. mx, poor (Lineback-KS)
- 4869.70 IRIAN JAYA *RRI Wamena* 1111-1132 10/10, M&W banter b/w Indo ballads; booming sig at t/in, breaking up by t/out. Noted presumed co-channel RRI Sorong earlier the same morning, w/mx and tk to 1100*, w/ levels no where near that of Wamena. (Barbour-NH)
- 4870 ECUADOR *Macas Voz del Upano* (tent) 1116 9/28; vy nice mx px; poor, but audio slips thru; M ancr, Male announcer with extreme bass voice, difficult to determine the language. Exceptional music program. Faded by 1145. (Montgomery, PA)
- 4870 PAPUA *RRI Sorong* 1240 10/18, Indo pops, fair-good (Lineback-KS)
- 4875 BRAZIL *Rádio Difusora Roraima*, 0239-0353* 9/29, program of PP pop vocals, two different version of "Hey Jude." Only one ID by M; one other jingle ID. Off with short anmt but no national anthem. Poor to fair with some 60 meter band swisher QRM. (D'Angelo-PA)

- 4890 PNG *National R.* 1226 10/18, EE pops, M EE anc, good (Lineback-KS)
- 4895 SARAWAK *RM Kuching* 1242 10/18, seeming traditional singing in lang, very poor (Lineback-KS)
- 4902.6 BOLIVIA *R. San Miguel* 9/19 0159-0204* s/off routine with W ID 0200, then NA. Surprisingly strong for a Bolivian; fair (Maroti-NY) (P) 0136-0156* 10/08 SS, mx & tlks, NA at s/off. No discernable ID noted. Fair, drifting w/ "sweeper" QRM. (Barbour-NH)
- 4915 BRAZIL *Rádio Difusora Macapa*, 0115-0305 9/30 under Anhanguera at t/i but soon dominating channel w/excited talk by two M in PP covering sporting event. Back in studio for apparent post game coverage, IDs, ads. Non-stop instl mx from 0200 with numerous movie themes noted. Poor to fair after Anhanguera left frequency. (D'Angelo-PA)
- 4915 GHANA *Radio Ghana* 2212-2240 9/22, M EE nx, ID, 2 W in Hausa, ID 2230, mx px, M EE nx, ID at 2215 (D'Angelo-PA) 2224-2235 9/17, Vern/EE, tribal mx at t/in then silence, co-ch, Brasil poking through, back at 2227 w/M EE ID, mx & lang talks; good. (Barbour-NH)
- 4920 INDIA *AIR Chennai* 1229 10/18 Children? singing, M w/lang anmts, theme mx, EE ID, no TP, M EE nx, no parallels hrd, poor (Lineback-KS)
- 4920 SUMATRA *RRI Jambi* 1225 10/11 RRI px, NA; poor. (Lineback-KS)
- 4920 TIBET *Xizang PBS* Lhasa 1110-1130 10/16, EE/Tibetan?, V0 Holy Tibet prg, W w/tlks, CC mx b/w items, quick ID during mx 1120, M w/Tibetan Svc 1130, good but too much "sweeper" to fully understand prg. content, // 4905, 5240 both fair/poor. (Barbour-NH)
- 4924.95 BRAZIL *R. Educação Rural* 10/12 0950 carrier, 0957 IDs, freqs, calls, etc; opened w/ID, fqys, call ltrs, etc; orch mx. (Berg-MA)
- 4939.67 PERU *R. San Antonio* (T) 9/29 1034 M SS; weak; poss ad 1039. Sudden drop in sig level 1040. No ID. (Montgomery, PA)
- 4940 VENEZUELA *R. Amazonas* 0933-0950 9/16 W SS mx & tlks, M ID 0943. Good. (Barbour-NH)
- 4945 BRAZIL *Emissora Rural* 2347-0102 9/20 BRZ pop vocals, ballads, love songs, singing ads, IDs, ments Petrolina; fair. (D'Angelo-PA)
- 4950 ANGOLA *R. Nacional* 2212-2223, 9/17, PP, Mx and tlks, ID at 2221, tlks w/ OM and YL w/ several ments "Radio Nacional". Good. (Barbour-NH)
- 4960 DOMINICAN REP *R. Cima* 1022 9/29 1022 lively mx w/no comments between tunes. Same group so suspect playing the full CD; anc must have stopped out for breakfast. (Montgomery, PA)
- 4965 ZAMBIA *Christian Voice* 0247-0306 10/12, M rel pgm; tlk, mx, another rel tlk; 0300 ID, instl mx, drama. Poor. (D'Angelo-PA) 0035 Oct 12, good lvl, Christian rap interspersed with discussion by a woman about the economic prospects of the top 10 corporations outside the U.S. At 0045 man gave full ID, plus P.O. box address and invitation to contact them. (Berg-MA) 9/19 0111 M&W EE anc, mx (Montgomery, PA) 2156-2211 9/09 EE, brief rel, promos, ID 2203, M rel px. (Barbour-NH) 0111 9/19 M&W EE anc w/ Top Ten hits (Montgomery, PA)
- 4974.79 PERU *R. del Pacifico* 9/29 1007 nice Peruvian tune; W SS anc, ID 1013, M anc. (Montgomery, PA)
- 4976 UGANDA *R. Uganda* 2035-2100* 10/9 Vern, Afropops at t/in, nx 2042, ments. Rwanda and Uganda, mx until s/off w/o ID or anmts. Poor at t/in, improved by s/off. (Barbour-NH)
- 4985 BRAZIL *R. Brasil Central* 0132-0205 10/18 BRZ pops, W PP tlks, IDs. (D'Angelo-PA)
- 4995.52 PERU *R. Andina* 9/29 1006 M SS ID, OA mx. (Montgomery, PA)
- 5010.11 INDIA (p) *AIR Thiruvanthapuram* 1154-1203 10/9, Hindi chorus/chants/mx. (Barbour-NH)
- 5019.91 UNID 0417-0424* 10/12 SS, MoR mx and ballads; 0423 s/off w/o ID or anmts, carrier off at 0424. Fair signal. Only listing I can find for this is Ecos del Atrato, Colombia listed as "irregular". (Barbour-NH)
- 5020 SOLOMON ISL *SIBC* 1241 10/4 BBC WS EE, very poor. (Lineback-KS)
- 5026 UGANDA *R. Uganda* 2136 10/3 Afr mx, tlk in local lang; off 2210, but no major closedown. (Berg-MA)
- 5030 BURKINA FASO *R. Burkina Faso* 2230-2400* w/NA; FF tlk, Afro pops, FF pops, ragga mx. Good. (Alexander PA 9-13)
- 5030 SARAWAK *RM Kuching* 1245 10/18, lang pops under M in CC, poor (Lineback-KS)
- 5040.54 MYANMAR *Radio Myanmar* 1100 - 1120 yl minorities programme, no longer // 4725 which seems silent. These two fqys were parallel several months ago. (Wilknier-FL)
- 5045 BRAZIL *Radio Guaruj* Paulista 2342-0014 9/22 BRZ pop vcls, M PP tlk, IDs; several ad strings and numerous mentions of "Guaruj". Fair. (D'Angelo-PA) 10/9 2338-2400 tlk, vcls, ID, ment Brazil, ballads, flutes, another ID (Paszkiwicz-WI)
- 5240 TIBET *Xizang PBS* Lhasa 2233-2252 10/9 W CC tlks; M in Tibetan(?) chants, occ. drums; M&W tlks over flute mx. (Barbour-NH)
- 5446.5 USA *AFRTS* Puerto Rico 9/13 0210 - Basball game in progress. Red Sox vs the White Sox In usb with audio cutting out as if using vox system. Difficult to listen. ID at 0214 as AFN sports. S5 level. (Montgomery, PA)
- 5800 BULGARIA *R. Bulgaria* Icl folk mx. *2100-2200* EE ID, sked, nx, Very weak. Much better on // 7500 (Alexander PA 9-6)
- 5833.39v UNID 1000-1130 & 0000-to 0100, weak Sept. 30 at 1000-1112. Does not seem a Cuban Harmonic or Central America. Fades before Guatemala 60 meter band stations. (Wilknier-FL)

International Band Loggings

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- 59858 **MYANMAR RM** Yangon in Burmese 1305, local pop rx, YL tlks, poor but clear (Lineback KS 10/18)
- 5990 **CUBA China R Int** relay in EG *2300, IS, ID, rpt on the UN, ment Israel, p (McGuire MD 9/12)
- 5995 **MALI R Mali** Bamako in FR *0554, IS, NA, ID, fqys, flute mx, lcl string mx, QRM (Berg MA 10/4)
- 6000 **BRAZIL R Guaiba** Porto Alegre in PT 0930, ID w/horns, ezl mx (Dybka TN 9/21)
- 6035 **COLOMBIA LV del Guaviare** in SP 0905, ID, fqy battered by R Marti jamming (Berg MA 10/3)
- 6040 **BRAZIL R Clube Paranaense** Curitiba in PT 0918, accordion mx, slogan ID, f (Dybka TN 9/21)
- 6090 **CHILE R Esperanza** Temuco in SP 1008, lively SP mx, ID, fading & QRM by 1020 (Barbour NH)
- 6115 **CHINA VO the Strait** Fuzhou in Amoy 1006, radio drama, mx bks, no ID 1030, g (Barbour NH 9/16)
- 6140 **CANADA RCI** Sackville in EG 2230, nx, Montreal bank records end up on E-Bay (Fraser MA 9/15)
- 6160 **CANADA CKZN** St Johns, Newfoundland in EG 0954, "Labrador Morning" w/PSA's, nx re damage due to hurricane in Halifax, f (Barbour NH 9/30) ED: Xmtr only 300 watts.
- 6165 **NETHERLANDS ANTILLES R Nederlands** relay Bonaire in EG *2330, "Newsline" w/rpt on Iraq situation, mention of Zimbabwe, ID, g (McGuire MD 9/26)
- 6185 **MEXICO R Educacion** Mexico City in SP 0950, old romantic vcls, NA, guitar mx, ID 1022 ancing MW outlet only, more SP vocals, off 1059 clearing channel for China Huai BCS (Berg MA 10/3)
- 6185 **CHINA China** Huayi BCS Chengdu in CH/EG 1059, audible after Mexico s/off, ads, 5+1 pips 1100, ID in EG, more ads w/animated voices, drama?, f/o 1115 (Berg MA 10/3) ED: only 15 kw power.
- 62502 **EQUATORIAL GUINEA RUGE** Malabo in SP 1048, SP mx w/vocalist, cmntry, nice orchestral mx, canned ID, f/p signal w/rapid fades and low modulation (Montgomery PA 9/29)
- 7105 **BELARUS R Minsk** in EG 1930-2000*, ID, fqys, nx from Belarus, mx (Ervine TX while in Germany)
- 7110 **ETHIOPIA RE** Addis Ababa in Lang 0402, tlks, Horn of Africa mx, poor w/QRN (Barbour NH 10/14)
- 7120 **MADAGASCAR R Nederlands** relay in EG/DT 2024, EG svce anmts to 2025*, back on 2027 w/IS & s/on ancmts, "Newsnight" pgm, g (Barbour NH 9/16)
- 7125 **GUINEA RTV Guineenne** Conakry in Vern/FR 2205-0000*, lots of nice Afro pop mx, DJ in FR, most tunes in FR w/occasional lcl dialects, ID and NA at s/off (Montgomery PA 10/2, Alexander PA 9/12)
- 7150 **CHINA CNR** music jammer Xi'an presumably jamming VOA in CH xmsn 2241-2300, no announcer, just one tune after another, suddenly off at 2300 (Montgomery PA 10/7)
- 7180 **MOLDOVA V of Russia** relay in EG 0144, "Jazz Show" featuring Gershwin songs celebrating his 105th birthday, very nice mx, ID, website, IS at 2000 (Barbour NH 10/1)
- 7210 **BELARUS R Minsk** in EG 0200-0230*, nx, cmntry, lcl mx, ID's, sked, f, //5970 (Alexander PA 10/5)
- 7270 **INDIA AIR** Chennai in Tamil 1154-1215*, HD mx, OM w/fast-paced tlk, s/off ancmts and ID, fqys, weak but audible signal under co-chan ham QRM (Barbour NH 9/26)
- 7380 **RUSSIA R Maryja** via Samara relay in PL/EG 2135-2200*, relig pgm, prayers, nx 2145, brief mx bits and tlks, fanfare, s/off anmts in both langs, fqy covered by Biafra on Sats (Alexander PA, Barbour NH)
- 7507usb **PUERTO RICO AFRTS** relay in EG 2310, baseball live Cubs-Braves, ID, f (Barbour NH 10/1)
- 9405 **PHILIPPINES FEBC** Manila via Iba in CH 1240, long tlks over mx, ID, banter, f/o (Barbour 10/3)
- 9490 **CHINA Tibet PBS** Lhasa in Tibetan 1127, ID & req rpts in EG, banter, f/o 1136 (Barbour 9/2)
- 9505 **JAPAN R Japan** Tokyo in EG 1425, cmntry on military corruption in Philippines (Newbury NE 9/26)
- 9525 **TURKEY V of Turkey** in EG 2105-2120*, nx at t/in, local mx, ID, weak signal (Alexander PA 9/27)
- 9525 **INDONESIA VOI** Jakarta in IN *1159, s/on anmts, ID, local mx, nx, fluttery sig (Montgomery 10/4)
- 9595 **JAPAN R Tampa** Tokyo in JP 1126, tlk, ads, ID 1130, banter, f-g w/QRN (Barbour NH 9/14)
- 96302 **BRAZIL R Aparecida** in PT 2145, local pop mx, ads, jingles, //61351, both poor (Alexander PA 9/20)
- 9650nf **TURKEY V of Turkey** in EG 0312-0350, pgm on archeological sites in TK, TK songs, ballads and Middle-eastern themed mx, travel nx, skeds, fqys, website (Beattie CA 10/4, Newbury NE 9/1)
- 9665 **MOLDOVA V of Russia** relay in EG 0100, IS, NA, ID, into national nx, g (McGuire MD 8/31)
- 9695 **BRAZIL R Rio Mar** Manaus in PT 1025, many ID's, ads, rooster crows, pop mx (Dybka TN 9/21)
- 9710 **LITHUANIA R Vilnius** via Sitkunai in EG 0856, call for support for Lithuania's handling of problems with immigration, mx, ID, IS (Ervine TX while in Germany)

- 9740 **SINGAPORE BBC** relay in EG 1434, tlk re number of Mad-Cow deaths and experimental drug to help with the problem, g (Newbury NE 9/26)
- 9770 **SRI LANKA SLBC** Colombo in EG *1230, IS, 4+1 pips, ID, US pops by Santana, Elton John etc, tlks weak but audible signal until f/o around 1243, rare catch in NH (Barbour NH 9/26)
- 97812 **YEMEN Yemen Radio** Sanaa in AR 1710, tlks, 3 tones/chimes w/ID, nx bulletin re Afghanistan and Iraq, piano mx, more tlks, fair w/QRN (Barbour NH 10/15)
- 9790 **CANADA China R Int** relay in EG *0100, rpt on car bombing in India, ID, other nx, g (McGuire MD)
- 9795 **UNITED KINGDOM R Wales Int** relay via Rampisham in EG 0200, feature on arts and crafts festival, s/off of half-hour xmsn at 0229 (Dybka TN 9/13)
- 9830 **SAO TOME VOA** relay in FR 2020, jazz mx, ID in EG, into Hausa lang 2030, g (Fraser MA 9/19)
- 9930 **HAWAII Que Huong Radio** relay via KWHR in VT 1245, tlk, gong, YL singing, ancmts, WHR ID (Paszkiwicz WI 9/26)
- 9945 **ALBANIA TWR** relay in Armenian 1542-1600*, long tlks, string mx, choral songs, ID, s/off ancmts, more strings until distinct IS at s/off, f-p, rare to hear on E Coast at 1600 time (Barbour NH 10/3)
- 9985 **NORWAY RNI** in NO *0100, pips, ID, regional nx, mention of Iraq, g (McGuire MD 9/4)
- 9990 **EGYPT R Cairo** in EG 2224, modern AR mx w/ US jazz mixed in but sung in AR (Newbury NE 9/29)
- 10330 **INDIA AIR** Delhi in HD 0139, mx pgm w/YL anc, ID 1044, relay of FM stn?, g (Montgomery 10/8)
- 11570 **RUSSIA IBC Tamil** relay via Novosibirsk in Tamil 0000-0030, test tones typical of a RS xmt, songs & anmts, nx by correspondent, 0027 sound effects, nx, Asian violins (Paszkiwicz WI 9/28)
- 11605 **ISRAEL V of Israel** Tel Aviv in EG 1920, live from UN Security Council re ME, g (Fraser MA 9/24)
- 11680 **NORTH KOREA KCBS** Pyongyang via Kanggye in KR 1049, radio drama, pips 1100, ID, nx until 1110, then "patriotic" mx and chorus, strong sig at t/in but gradual fading (Barbour NH 9/12)
- 11690 **CANADA Deut Welle** relay in GM 2330, ID, national nx, mention of Africa, g (McGuire MD 9/22)
- 11690 **JORDAN R Jordan** in EG 1605, nx at t/in, ID 1620, into soft mx, promo, QRM (Montgomery PA 9/21)
- 11750 **AUSTRALIA HCJB Australia** via Kununurra in EG *0756, ancmt and ID at opening, TC toh, into pgm of Christian pop mx, tlk produced by HCJB-Quito, ID's, fqy, tlk on book about undersea archeology, then "Science, Scripture, and Salvation" feature, fair and improving after 0830 (Berg MA 10/3)
- 11890 **HUNGARY R Budapest** in HG *2000, IS, ID at s/on, into national/regional nx, g (McGuire MD 9/8)
- 11925 **PORTUGAL Deut Welle** relay in EG 0509, nx on Rwanda elections, //12045 (Newbury NE 9/30)
- 13590 **GERMANY Deut Welle Wertachtel** in Hausa 1832, ID in EG, into pgm in Hausa, many ments Nigeria lots of Afro pop mx, beamed to Africa, exc w/only slight fades (Montgomery PA 9/13)
- 13605 **INDIA AIR** Bangalore in EG 1849, mx at t/in, ID, nx by OM 1900, fair copy (Montgomery PA 9/13)
- 13855usb **ICELAND AFRTS** relay via Keflavik in EG 1935, feature on raising children and discipline, book review about "College Years", author interview (Montgomery PA 9/13)
- 15050 **INDIA AIR** Delhi in Sinhala 1258, IS until 1300, OM tlks, weak w/much flutter (Montgomery 9/14)
- 15065 **PAKISTAN RP** Islamabad in Urdu 1350, tlks, local vcls, 3 pips 1400, ID, nx, p (D'Angelo PA 10/18)
- 15125 **INDONESIA RRI** Jakarta in IN 1141, pop ballads in lang, tlks, ID 1200, nx, poor signal w/bad QRM splatter from HCJB 15115 and WYFR 15130 (Barbour NH 9/12)
- 151498 **INDONESIA V of Indonesia** Jakarta in EG 2040-2101*, nx at t/in, local mx, ID as "Radio Republic Indonesia", nx 2057, weak but in the clear, irregular sked this fqy (Alexander PA 9/27)
- 15375 **CHILE Christian Vision Int** Santiago in SP 1310, ID, mostly mx in SP, fair (Montgomery PA 9/21)
- 15435 **SINGAPORE R Australia** relay in CH 1424, English lesson, ID, website, g (Hanlon PA 9/25)
- 15545nf **UNITED KINGDOM R Ndeke Luka** Central African Republic relay via Wooferton in FR *1859, full ID and s/on ancmts at start of one hour xmsn, fqys for FM and SW, hilife vocals, talk/news w/several ID's, brief mx bits, vg signal, three min silent gap 1927 w/repeat of first half hour's pgming at 1930 (Berg MA 9/27, Paszkiwicz WI 9/27, D'Angelo PA 10/6, Barbour NH 9/30)
- 15565 **NETHERLAND ANTILLES R Vlaanderen** relay in EG 2230, tlk on threat of world-wide flu epidemic coming this season, exc reception (Newbury NE 9/29)
- 17825 **PAKISTAN RP** Islamabad in Urdu/EG 1057, Urdu mx and tlk at t/in, into EG service 1100, ID, nx re Pakistani gov't other political matters, s/off 1107 in both langs, NA, fair, //21465 (Barbour NH 10/10)
- 17895 **MOROCCO VOA** relay in EG 2000, TC, ID for African service, rpt on Liberia, g (McGuire MD 10/1)

Clandestine, Tentative, Presumed, or Unknown

- 6050 **CHINA Xizang PBS** Lhasa, Tibet in CH 2207, YL w/mx bits and tlks, OM briefly over mx, ID?, poor signal w/co-channel HCJB battling for dominance (Barbour NH 10/1)
- 6135 **BOLIVIA R Santa Cruz(p)** in SP 0924, tlks over acoustic mx, several ments "La Paz", ancmts at 0958 w/ments of Bolivia, ID?, good at t/in but f/o by TOH (Barbour NH 9/19) ED: Only 1 kw!
- 6985 **CLANDESTINE V of New Sudan** in SH? 0420, ID? 0423, lots of great Afro mx, Horn of Africa vcls, fair signal at t/in but improving to 0440, f/o after 0500 (Montgomery PA 9/21, Dybka TN 9/13)
- 7100 **ERITREA(t) V of the Broad Masses of Eritrea(p)** in Tigrigna? *0327, IS, ID at opening, ancmts, nx?, numerous ments of Asmara, brief mx segment but mostly tlk, poor w/QRM (D'Angelo PA 10/10)
- 7380 **CLANDESTINE V of Biafra Int** via Armavir, Russia relay(?) in EG 2135-2159*, cmntry re Nigeria, some Vernacular tlk, YL vocal, many ID's, mentioned "coming from Washington, D.C", fair signal w/some co-channel QRM, bcst on Saturdays only (Alexander PA 9/6, D'Angelo PA 10/18)
- 7385 **CHINA(p) Xizang PBS Lhasa** Tibet(p) in Tibetan(p) 2235, Asian songs, poor sig (Berg MA 10/2)
- 9500 **PHILIPPINES FEBC** Manila(p) in CH 0942, long tlk ending with "Amen", brief mx, ID? at 1000, lite banter, fair (Barbour NH)
- 9990 **CLANDESTINE V of the Eritrean People** via Norway relay in Tigrinya(p) *1730, military type intro mx w/fanfare, brief ancmt, male vocal, ID, fgy, website of parent org, carrier off in mid-sentence 1759, broadcast Sundays only, good reception (Berg MA 10/12)
- 11895 **BRAZIL(p) R Rio Grande de Sul LBV Mundial** relay(p) in PT 0017, futbol half-time pgm, zinger mx, jingle w/ment "Brasil" and back to live game coverage, fair w/QRN (Barbour NH 9/25)
- 15045nf? **CLANDESTINE R Free Cascadia** in SP/EG 0200, ID at toh, cmntry, lots of cheering/applause, then into speech by OM in EG re "resistance in the rebellion for humanity etc" aimed at the youth, speeches in both languages, fair copy (Montgomery PA 9/13) in SP 2223, long rock song, ID, website and address, good signal (Dybka TN 9/13)
- 15615 **CLANDESTINE R Amani Afghanistan** via Armavir, Russia relay in Pushto/Dari(p) 1631, ID's, mostly conversations, some exotic Afghan mx, contact info, s/off 1730 (Berg MA 10/3) Listed Fridays only
- 15670 **CLANDESTINE V of Ethiopian Medhin** via Juelich, Germany relay in Amheric 1600-1659*, flute IS, ID, Horn of Africa vocals, mostly long tlks, some Ethiopian mx, carrier cut in mid-sentence at 1659 & fgy silent for one min with V of Oromo Liberation s/on at 1700 (Berg MA 10/12, D'Angelo PA 9/21)
- 15670 **CLANDESTINE V of Oromo Liberation** relay via Juelich, Germany in Oromo *1700, sudden s/on w/mx opening, ID, more mx, long tlk, nx, flutes and singing interspersed with nx, fair reception level (D'Angelo PA 9/21, Paszkiewicz WI 9/28)
- 15775 **CLANDESTINE Chan Troi Moi** relay via Juelich, Germany in VT 1405-1430*, continuous tlks by YL over lite orch mx, OM w/sign off ancmt in EG?, fair sig w/deep fades (Barbour NH 9/19)
- 17555nf? **CLANDESTINE Radio Rhino International** relay via Juelich, Germany in EG 1520-1559*, tlks about massacres in Uganda, ID 1527, req E-mails but failed to give address, vocal "Stand Up for Your Rights", phone numbers for Germany, slammed BBC for implying station is affiliated with Ugandan rebel groups (Barbour NH 10/4, D'Angelo PA 10/11, Montgomery PA 9/13) 

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November Special

Hi everyone. For November the NASWA Company Store is offering a very special deal on our remaining copies of the 2003 *Passport to Worldband Radio* at \$10.95 and the 2003 *WRTH* at \$15.95. Shipping as usual is extra: \$4.00 for orders shipped to North America and \$8.00 for orders shipped to the rest of the world. Once the available stock goes that's it. 

17th Annual Winter SWL Fest

Sponsored by 

March 12-13, 2004

Best Western—The Inn at Towamencin
(formerly Holiday Inn),
Sunneytown Pike, Kulpville, Penna.

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

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

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

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

Many things, like the raffle, remain the same:

GRAND PRIZE To be announced

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

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

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

The Best Western—The Inn at Towamencin is located at Exit 31 of the PA Turnpike Northeast Extension-Lansdale Interchange. Improved access from the south with the Blue Route (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)

CHECK ONE OR MORE

REGISTRATION RECEIVED BY MARCH 1, 2004:	LATE OR ON-SITE REGISTRATION RECEIVED AFTER MARCH 1, 2004:	BANQUET:
<input type="checkbox"/> Full (\$47)	<input type="checkbox"/> Full (\$55)	<input type="checkbox"/> Roast Beef
<input type="checkbox"/> Two-Day Partial (\$17)	<input type="checkbox"/> Two-Day Partial (\$20)	<input type="checkbox"/> Chicken
<input type="checkbox"/> One-Day Partial (\$9)	<input type="checkbox"/> One-Day Partial (\$10)	RAFFLE TICKETS:
<input type="checkbox"/> <i>New!</i> Lunch-only Saturday (\$23)	<input type="checkbox"/> One-Day Partial w/Lunch (\$25)	<input type="checkbox"/> raffle tickets, please
<input type="checkbox"/> <i>New!</i> Spouse Lunch-only Sat (\$13)	<input type="checkbox"/> Full Spouse/son/daughter (\$40)	<input type="checkbox"/> (\$1 ea./ 6 for \$5/ 13 for \$10)
<input type="checkbox"/> Full Spouse / etc. (\$32)	<input type="checkbox"/> Banquet only (Spouse) (\$25)	Registration Fee Enclosed \$ _____
<input type="checkbox"/> Banquet only (Spouse) (\$19)	<input type="checkbox"/> Spouse etc. Lunch-only (\$15)	Raffle Tickets Fee Enclosed \$ _____
<input type="checkbox"/> Student (\$5)	<input type="checkbox"/> Student (\$5)	Total Check/Money Order \$ _____

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

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RFPI repeats after 0600 may appear about half an hour later than
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For latest updates see our Anomaly Alert page:
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Thu 2000 COM RFPI 7445
Thu 2130 WOR WWCR 15825 [9475 Dec-Feb]
Fri 0200 COM RFPI 7445
Fri 0800 COM RFPI 7445
Fri 1400 COM RFPI 7445
Fri 1930 WOR RFPI 7445
Fri 2215 MR WWCR 9475 [or as early as 2210]
Sat 0000 WOR Studio X, Momigno, Italy 1584 1566 87.35 96.55 105.55
Sat 0130 WOR RFPI 7445
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