

The **NASA** Journal

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JUNE 2004

RADIO JAPAN NEWS

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For French & German versions
please see page 3.

July 1970

— Broadcasting Schedule for July — Toward Progress and Harmony

July 2: Steel and Life

At Expo '70 Japanese steel makers jointly operate the Iron and Steel Pavilion. The theme of this pavilion is the "Song of Steel". Its center is a great circular music hall, where a total of 1,200 loudspeakers are mounted on the ceiling floor and walls. The dynamic force of avant garde music is amplified by these loudspeakers and literally overwhelms the visitors.

While introducing the Iron and Steel Pavilion, this program also presents exhibits at the Korean and British pavilions which display how iron and steel are used.

July 9:

The World Marts

The plaza south of the Symbol Zone, the center area of Expo '70, is called the "International Bazaar". Inside here you will come across a vast variety of

The Kubota Pavilion located on the east side of the Festival Plaza is operated by Kubota Iron and Machinery Works which is a well-known manufacturer of agricultural machinery. The theme of this pavilion is the "Benefits of Water and the Cult. of It", which is befitting the purpose of this pavilion. Water has brought countless benefits to human life since ancient times. This program, therefore, presents the Kubota Pavilion and foreign pavilions which exhibit the benefits of water.

July 23: Rounds of Pavilions

July 30: Expo '70 at Night

Expo '70 grounds are open till midnight. Contrary to the bustle of the grounds become serene and in the evening The Swiss Pavilion, a gigantic tree-shaped structure



Circular music hall
of Iron and Steel Pavilion

To Our Listeners:



Radio Japan

Radio Japan

It is our pleasure to confirm
your reception report of our station.
You tuned us to Station JOR-9 on
12778.5 kHz. in the 16.97
meter on the 22 of April, 1976
at 0700-0730 JST.

NIPPON HOSO KYOKAI
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North American Shortwave Association — America's Shortwave Broadcast Club

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on our top sellers!*



The compact, yet powerful Grundig G1000A receives AM, FM and eight shortwave bands: 5950-6200, 7100-7600, 9200-9900, 11600-12200, 13570-13870, 15100-15800, 17480-17900 and 21450-21850 kHz. It features a backlit digital display, radio alarm, sleep function and stereo headphone jack. Comes with protective black case, two AA cells, Grundig Shortwave Listening Guide and stereo ear buds. 4.5 x 3 x 1.13 inches. 7 oz
Order #1010 \$49.95 or FREE with your purchase of a new Grundig YB-400PE or Satellite 800 from Universal

YB-400PE



The highly acclaimed Grundig YB400PE is our best selling radio. The value is unbeatable. You get complete coverage of LW, AM and SW plus FM stereo (to ear jack). Enjoy smooth SSB via thumbwheel, backlit 1 kHz LCD dual bandwidths, keypad entry, 40 memories, scan, search, dual clock timer and more. Comes with AC adapter, ear buds and case. Requires six AA cells (not supplied). Titanium colored. 8" x 5" x 1.5". One year limited warranty. (UPS '9.95).
Universal will include a FREE Grundig G1000A with your YB-400 PE purchase.
Order #0400 BOTH for only \$149.95



SATELLIT 800

The Grundig Satellit 800 is a classic. You will immediately appreciate the smooth flowing, full size design and functional control panel. The 800 receives all longwave, AM, shortwave frequencies, plus the FM broadcast band and the VHF aeronautical band. With Grundig you expect great rich audio and the 800 delivers with a large speaker, strong amp and separate bass and treble controls. Tune via the large manual knob, keypad or by 70 memories. Other refinements include: synchronous detection to reduce fading, three filters (64/2.3 kHz), S-Meter, AGC, Attenuator, SSB and dual 24 hour clock timers. The Satellit 800 comes with an AC 110VAC power supply or can also be operated from six D cells (not supplied). A set of high quality padded headphones for private listening is also included. This radio will please both the serious DXer and the program listener. One year limited warranty. 20.9" x 9.25" x 8.25" 14.5 Lbs.

Universal will include a FREE Grundig G1000A radio with your Satellit 800 purchase. (UPS '15).
Order #0800 BOTH radios for only \$499.95

YB-550 PE



The incredibly attractive Grundig YB-550PE combines form and function for an excellent shortwave experience. Six tuning methods are available to enjoy AM, FM, FM Stereo (to earphone jack) and full coverage shortwave. Direct keypad frequency entry is available or use Up-Down tuning to surf the bands. 100 memories store your favorite stations. The built in clock can wake you to the radio or a buzzer. The backlit LCD shows signal strength, time and frequency. With carry case, stand and 3 AAAs. 3.5 x 5.75 x 1.375" (UPS '4.95). (The optional Grundig 550ACA AC adapter is \$12.95).
YB-550 PE Order #0550 \$99.95

S350



The Grundig S350 is a great value covering AM, FM and 2.3 - 27.4 MHz shortwave. Separate controls for Bass, Treble and RF gain yield wonderful audio. External jacks for earphone, antenna input, and line level output. Requires four D cells (not supplied) for exceptionally long playtime and comes with an AC adapter. 10.5 x 6.5 x 3.5". (UPS '4.95)
S350 Order #3500 \$99.95

FR200



FR-200G



Be prepared with the Grundig FR200 emergency radios covering AM, FM and shortwave (3.2-7.6 and 9.2-22 MHz.). The FR200 operates from a wind-up generator, 4.5VDC or 3 AA cells. 90 seconds of tuning changes the radio for 40 to 60 minutes of operation. With carry handle and canvas carry case. Includes a bright emergency light. Nice audio. 6.75x5.75x2.75". #2200 \$39.95
The new Grundig FR-200G yellow version includes an AC adapter. (UPS '4.95). #2547 \$49.95

Special offers in this ad expire on June 30, 2004.

G2000A



This stunning AM, FM, SW radio was designed by F.A. Porsche of Germany. SW tunes 2.3-7.4 and 9.4-26.1 MHz via Up/Down buttons, auto search, keypad entry or via 20 memories. The digital quartz clock, with sleep timer, wakes you to a beep or radio. Include lock button and stereo/mono switch. With leather snap-on case, and earbuds. Requires three AA cells (not supplied) or 4.5 VDC. 5.5 x 3.5 x 1.3".
List \$99.95 Order #3685 \$79.95
AC adapter Order #1510 \$12.95



Watch for new Grundig-Etón models coming soon!
Visit the Universal Radio website for radio updates.

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Prices shown are after mtg's. coupons.
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NASA Notes

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

Your club is in immediate need of somebody to volunteer to provide the *Journal* for long time member **Donna Ring** on a regular basis. Donna is blind, and in the past we have provided the *Journal* to her on tape and, more recently, in e-mail format. Our most recent "voice", Ralph Brandi, has to step aside due to a mountain of commitments. If you are interested in helping out, please contact Ralph at ralph@brandi.org. Please give serious consideration to helping another member of the club to continue enjoying the *Journal*. If you have always wanted to help the club and its membership but didn't feel editing was for you, this is a unique opportunity to serve the membership. Please give this serious consideration. Nothing beats volunteering. Thanks!

The Danish Shortwave Listeners Club in Denmark has just published another excellent edition of its of their popular Domestic Broadcasting Survey (DBS) edited by well-known International DXer **Anker Petersen**. The 2004 DBS is published in PDF format and is available for EUR 5 or US\$7.00 from club Treasurer Bent Nielsen, Egekrogen 14, DK-3500 Vaerloese, Denmark. This booklet has been an excellent resource for tuning in tropical band, domestic stations and clandestine stations for the last six years. As a DXing resource, it's on my "must have" list. Check out the *Shortwave Center* for a comprehensive review of the DBS.

The 30th anniversary of the Ontario DX Association (ODXA) will be celebrated at RadioFest 2004, September 24–25, at the Monte Carlo Inn—Oakville, 374 South Service Road E., Oakville, Ontario, L6J 2X6, CANADA. Tel: (905) 849-9500, www.montecarloinns.com/oak.htm. It will begin on Friday night with a wine and cheese reception in the evening sponsored by CHWO / AM 740. On Saturday there will be items on sale, a silent auction,

displays, guest speakers, and the draw for Raffle 2004 with coffee supplied by CFRB / CFRX. The gathering closes down on Sunday after a group breakfast. The ODXA welcomes back **Ian McFarland** to the 30th anniversary bash. Ian is a former member and former CBC broadcaster. Back in the 1980s, Ian McFarland's *Shortwave Listeners' Digest* on Radio Canada International was the dominant communications program, at least among shortwave listeners in North America. Weekend registration costs just \$10.00 CDN (\$7.00 US), which includes the Friday Wine & Cheese gathering. All meals are pay on your own. For more information, contact **Harold Sellers** at 905-853-3518 email: listeningin@rogers.com or **Brian Smith** at am740@rogers.com or by mail at: ODXA, 155 Main Street N, Apt. 313, Newmarket, Ontario L3Y 8C2, Canada. You can also use PayPal on the club's web site at www.odxa.on.ca. Check the web site (www.odxa.on.ca) and the monthly bulletin *Listening In* for further updates. Happy 30th anniversary to our friends up north!

At its 2004 annual meeting in May, the National Association of Shortwave Broadcasters (NASB) elected **Doug Garlinger** as the new president of the NASB replacing **Jeff White**. Jeff White's NASB Board term ended at the annual meeting. Also at the annual meeting, the membership agreed to extend the Voice of the NASB DRM (digital shortwave) broadcast series once the current series ends in July of this year. Outgoing NASB President Jeff White was elected Chairman of the new USA DRM Group. The full press release appears in the *Musings* column under Jeff White's name.

The following information is from **Ralph Peters**, Station Manager at Radio St. Helena, and **Robert Kipp** (Email: RDC-Roberts-Data@t-online.de), of the Danish Short-

OUR MOTTO IS - "UNITY AND FRIENDSHIP"

wave Club International (DSWCI). "Radio St. Helena has mailed the last batch of QSL cards for their special broadcast of October 1999. The cards have been mailed with St. Helena postage stamps and transported by the mail ship RMS St. Helena. The ship arrived on 29 April in Cape Town, South Africa. The QSLs will be forwarded via airmail on about 30 April. Along with the QSLs sent by the retired former Station Manager Tony Leo in 2000, 2001, and 2002, this batch of QSLs will now take care of all known outstanding reception reports for the 1999 broadcast. The new QSL Policy of the new Station Manager regarding the special shortwave broadcasts from RSH is for 1999 and 1998 RSH can still verify these broadcasts. For 1997 RSH will try to verify but there is no promise of success. For 1996 and earlier RSH can not verify these any longer. The Station Manager regrets that 1996 and earlier can no longer be verified, but due, in part, to many changes at the station, the information is no longer available, and time has simply run out. It would be very helpful, if you would confirm receipt of your QSL by email to R. Kipp, and if you do not receive your QSL by the middle of June, please send him an email. Radio St. Helena thanks all its friends around the world for their interest in St. Helena, for their patience over the years, and for their help in clarifying the QSL card situation. Good health and good DX to all of you." Thanks to Robert Kipp and the DSWCI for all your efforts. NASWA played a small role helping to find a few "missing" DX'ers.

John Bryant and Bill Bowers have completed an article on commercial splitters that will be appearing in the *Shortwave Center*, after work spanning most of the winter. Bill ran the highly sophisticated tests while John provided the explanations for each set of results. The bottom line of the article is that the Mini-Circuits splitter, which also happens to be the cheapest unit, is the best in every category, with a homebrew unit coming in second and the RF Systems and Stridsberg units trailing the field. They will have two more articles coming out in the next couple months. The first looks at optimizing the design for a home brew signal splitter. The third article is on an-

other approach to remotely controlling the termination resistors of large loops, EWES, Flags, Pennants, etc. Thanks to John and Bill for their technical contributions to the hobby!

Remember to visit with Mike Wolfson and the *Company Store* for the latest in club gear. The *Company Store* carries a full line of tee shirts, sweatshirts and coffee, beer mugs and some great hobby reading material. Everything the *Company Store* has is available by mail order. The important details are in Mike's *Company Store* column. Order now!

Nick Hall-Patch informs us that the fourth edition of *A DXer's Technical Guide* is now available from the IRCA Bookstore. In nearly 200 pages it covers the principles underlying the design of successful receivers, antennas and receiving accessories. The guide includes reviews of the best commercially available DXing equipment in different price ranges, as well as detailed instructions for building antennas and other DXing aids. Although it focuses on the technical backdrop to medium wave DXing, it will also be of interest to serious shortwave listeners and low band radio amateurs. IRCA members can get their copy by sending \$15.00 US to the IRCA Bookstore, 9705 Mary Ave NW, Seattle WA 98117-2334. The non-IRCA member price is \$17.50, add \$3.00 for shipping and handling. Make checks and Money Orders out to Phil Bytheway. We anticipate having a review copy available to the club so watch the Shortwave Center for an assessment of the *A DXer's Technical Guide* in the near future.

The Electronic DX Press (EDXP) Radio Monitoring Association is an electronic organization that provides a vast amount of high frequency information to members through a message network and a weekly e-mail, *World Broadcast Magazine*. Also, EDXP sponsors regular features over various international broadcasters including HCJB, AWR, WHRI, etc. Annual membership is A\$10.00 or US\$10.00. Contact Bob Padula <bobpadula@mydesk.net.au> 404 Mont Albert Road, Mont Albert, Victoria 3127, Australia. Full details can be found at the association's website: <http://edxp.org>.


From **Sean D. Gilbert**, International Editor of the *World Radio TV Handbook* via the EDXP: "Please note a new version of the file www.wrth.com/WRTHA04WEB.pdf has been uploaded to the *WRTH* website. Over 200 A04 schedules are contained in this file. This file now includes a 'by frequency' listing at the end of the file which should facilitate station identification whilst band scanning I have set up my own website which will carry copies of this (and other) file(s) as well as other radio related information. It is in a constant state of change at the moment as I am adding new files etc. so please check in regularly. I am working on a page about digital modes in ham radio at the moment and how to identify them by their footprint on a waterfall. The address for my website is: <http://myweb.tiscali.co.uk/g4ucj>."

As the DX season heads into the summer months, there is still a lot of good listening to be had. The best way to stay on top of breaking shortwave news and information is with the club's electronic *Flashsheet*. If you are a current member of the club and want to receive the electronic *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. You can participate by sending your latest logs to the electronic *Flashsheet* edited by **Sheryl Paszkiewicz**, spasz@dataplusnet.com or P.O. Box 716 Manitowoc, WI 54221-0152. Each week the electronic *Flashsheet* brings a lot of exciting,

late breaking DX news and information to our members. The 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.

This month we close with a sad note. Long time member **Chuck Boehnke** in Keaau, Hawaii recently passed away at age 75. He was well known within the radio listening hobby and his opinions were highly regarded. Chuck enjoyed all facets of the radio hobby. His wife, Virginia, mentions "that he thoroughly enjoyed receiving the club information and found it very useful in his DXing." Chuck first joined the club in July 1979. For those that knew Chuck and want to drop **Ginny Boehnke** a line, her address is: Virginia Boehnke, PO Box 488, Keaau HI 96749-0488.

Please remember to 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 to Wyomissing only slow down the process. Thanks! (OKAY)

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

FRENDX: Twenty Five Years Ago (June 1979)

In the *Roll Call* column, 64 new members joined including John Fisher of Chelmsford, MA, Fred Kohlbrenner and Don Moore. Dave Walcutt stepped down as Distributing Editor for the Log Report replaced by Dave Valko. Walcutt began editing a new section, *Log Report E*, for frequencies above 17700 where many of the new members were listening. In the Headquarters column, it was announced that Mike Agner would edit a new periodic *Antenna/Accessories* column. Jerry Lineback's *Shortwave Center* focused on the World Administrative Radio Conference for 1979 (WARC-79) with a condensed version of remarks by Ambassador John Gronouski. Larry Magne reviewed the final US position for WARC-79 with the Canadian position coming from a news release. Roger Legge complied *English Language Broadcasts to North America*. 142 members participated in the *Scoreboard*. Editor Sam Barto noted that 115 countries were accounted for in the *QSL Report* column. The summer season was featuring gatherings at the home of John Kapinos on July 22nd and the 4th annual New England Area DXers Outing at Black Rock State Park in Watertown, CT on September 9th.

Calendar Of Events

- 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.
- Jun 18 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcsckp@aol.com.
- Jun 18 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/>
- Jul 10 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX)** meets at the Lebanon Citizens' National Bank (LCNB), 425 West Central Avenue (Ohio 73), Springboro, Ohio at 7:00 PM. For more information contact Mark Meece at 937-743-8089 or e-mail at <antennapig@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>
- Jul 23-25, 2004 Convention.** The 2004 **International Radio Club of America (IRCA)** convention will be held at the Rodeway Inn (115 North Curtis Road, Boise, ID 83706 or 1-800-272-5003) from 23-25 July 2004. Room rates are \$59.95, which includes a continental breakfast. Convention fee is \$25.00 to Frank Aden, 4096 Marcia Place, Boise, ID 83704. E-mail inquires can be sent to IRCA2004@aol.com.
- Aug 21 Get-together.** The 11th annual **Madison Get-together for DXers and Radio Enthusiasts** will take place on Saturday, August 21, 2004 from 1:00 PM CDT to whenever at the Sheridan Park, Cudahy WI, on the Lake Michigan shore at Layton Avenue in south suburban Milwaukee. This is an all-band event, and everyone interested in the radio hobby is welcome. Further information, including directions and dinner plans, etc. will be published as received and also can be obtained from Tim Noonan at <DXing2@aol.com> or 414 762-2702.
- 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.
- Sep 24-25 Convention.** The Ontario DX Association will hold **RadioFest 2004** celebrating its 30th anniversary on 24-25 September 2004 at the Monte Carlo Inn—Oakville, 374 South Service Road E., Oakville, Ontario, L6J 2X6, CANADA. Tel: (905) 849-9500, www.montecarloinns.com/oak.htm. Weekend registration costs just \$10.00 CDN (\$7.00 US), which includes the Friday Wine & Cheese and the Saturday program (meals on you own). All meals are pay on your own. For more information, contact Harold Sellers at 905-853-3518 email: listeningin@rogers.com or Brian Smith at am740@rogers.com or by mail at: ODXA, 155 Main Street N, Apt. 313, Newmarket, Ontario L3Y 8C2, Canada. You can also use PayPal on the club's web site at www.odxa.on.ca. Check the web site and the monthly bulletin Listening In for further updates. Happy 30th anniversary to our friends up north!
- 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 Figliozi co-chair the organizational committee. It's never too early to begin planning. See you there!

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

Musings

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

George Zeller <georgez@nacs.net>, Cleveland, OH

I'm sending out some general commentary on Rich's log of Serbia and Montenegro on 9,580 kHz. This actually is an interesting log, even though it is by no means unusual or difficult, of course. I have a pushbutton in my Sony SWBC car radio set to 9580 kHz, for obvious reasons with Australia in the morning in ECNA. If for some reason I am listening to Australia in the morning and I don't move the pushbutton off this frequency, I long ago noticed that we have Yugoslavia and its various new names on this frequency with a powerful signal that comes in well even on the car radio when I go home from work. I normally am not working as late as 0000 UTC, so I don't make it a habit to listen to this one just as a SWBC program for listening when driving around in the car. That is why I also have a pushbutton set to 5975 kHz, to try and pick up Tony Blair, or what is left of him.

When the SWBC stations started losing their reason for being, I still think that they missed a big opportunity when they failed to get behind the concept of SWBC listening via car radios. Both the equipment manufacturers and the stations poorly marketed the concept. As a result, there can't be more than a tiny handful of people in Ohio who have SWBC in-dash car radios like I do. It is a shame, in fact it is a disgrace, showing gross mismanagement on the part of both the stations and the manufacturers.

Of course the concept is being tried again, this time by the satellite radio people who want you to purchase access to the programming. We have a woman down at work who just bought a car, and who got a short-term subscription to the satellite service from the car manufacturer as part of the car purchase. I have no idea if she will actually continue the subscription when the free period runs out, but we shall see. The SWBC stations and manufacturers never worked with each other at all on the concept of SWBC radios in the car, such as the satellite radio people are now doing with the car manufacturers. This is because both the SWBC radio manufacturers and the stations were run by people who could not see a market if it stared them right in the face. Their inaction ended up dooming SWBC. It is sad. We need a villain, and I have just nominated two.

George

Jeff White <Radiomiami9@cs.com>, Miami, FL

The National Association of Shortwave Broadcasters (NASB) at its 2004 annual meeting on May 7th elected Doug Garlinger as the new president of the Association. Doug is the former Director of Engineering for LeSEA Broadcasting, which owns shortwave stations WHRA, WHRI and KWHR. Just a few months ago, he left LeSEA to take an engineering position in Hawaii, but he continues to be active in issues of importance to shortwave broadcasters.

Outgoing NASB President Jeff White commented: "The NASB could not be in better hands. Besides having been a shortwave listener himself since he was a child, Doug is one of the most recognized broadcast engineers in the United States, with many awards to prove it.

He has been with the NASB since it was formed, and served as Vice President in the past. Doug is really one of my mentors, and I know he is committed to continuing and improving a lot of the new projects that the NASB has begun in recent years.”

Jeff White's NASB Board term ended at the annual meeting. The membership chose Dennis Dempsey of WEWN Global Catholic Radio to fill the Board vacancy. Paul Hunter, an engineering consultant who represents Word Broadcasting, was re-elected to the Board and as Vice President of the NASB. And Dan Elyea of WYFR Family Radio continues as NASB Secretary-Treasurer.

Also at the NASB annual meeting, the membership agreed to extend the Voice of the NASB DRM (digital shortwave) broadcast series once the current series ends in July of this year. The current series of programs is beamed to Europe, but the new series will be beamed to DRM listeners in North America. Details on the new schedule will be released in the coming weeks.

The NASB welcomed its newest member at the annual meeting—station KVOH, which was recently sold by Word Broadcasting (which is also an NASB member, and owns WJIE in Kentucky) to a Hispanic church in Los Angeles and is now known as La Voz de la Restauracion. Station Board member Douglas Hernandez attended the NASB meeting in Washington on behalf of the new owners.

Several speakers gave presentations at the meeting, including Tom Lucey from the International Bureau of the FCC. Paul Rinaldo of the American Radio Relay League talked about the BPL (Broadband over Power Lines) controversy and efforts to combat this potential threat to clear shortwave listening. Dr. Adrian Peterson gave a presentation about the history of Adventist World Radio. Mike Adams, who is NASB's liaison to the DRM consortium, talked about developments in DRM, including the recent annual meeting in China; and Michel Penneroux, Chairman of the DRM Commercial Committee, came from Paris to address the NASB membership. Hans Johnson spoke about VT Merlin Communications, and the ever-popular Kim Elliott of the Voice of America talked about shortwave audience research. Some of his colleagues from the International Broadcasting Bureau (IBB) gave updates on the IBB's latest activities.

The day before its annual meeting, the NASB hosted a meeting of the new USA DRM Group, which was held at the headquarters of Radio Free Asia in Washington. The purpose was to form a national organization to promote the development of DRM (Digital Radio Mondiale) in the United States. Outgoing NASB President Jeff White was elected Chairman of the new USA DRM Group.

Eric Falkenhan WA3TAD <wa3tad@comcast.net>, 3401 Chestnut Ave, Baltimore, MD 21211

Just thought you might want to see what a fellow NASWA member was up to. I've gone into the Antique radio repair business. I'm also restoring classic shortwave sets. So, attention radio buffs and antique dealers. You now have a place to have that old radio repaired. All the old sets, Philco, RCA, Emerson, Crosley and Zenith. Simple repairs to complete overhauls; case refinishing and grille cloth replacement. Free estimates and reasonable prices. Give me a call at 410-467-3620. Your feedback would be appreciated.

Thanks... Eric WA3TAD

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

This DX season just flew by for me. All in all, I would say things were pretty good especially during the three DXpeditions we managed to make to French Creek State Park. With the advent of summer conditions, some of the higher frequency ranges should begin to produce some interesting results. Stay active and report to your favorite sections of the *Journal*.

In 2003, I entered China Radio International's "A Global Knowledge Contest on A Cultural Tour to West China." In May, I received a registered package in the mail from China Radio International. Apparently, I am one of many winners of an oversized golf shirt with the CRI logo from the contest they ran in 2003. Nice shirt although it is a little too big for me. Maybe it will shrink a little? The shirt came with a "certificate" announcing I was been awarded the "second prize." The actual certificate states: "This certifies that you have been awarded the second prize of a Cultural Tour to West China in the 2003 Contest sponsored by China Radio International." Almost sounds like I am going to China!

Radio Slovakia International is running a contest with the top prize a two-week stay at a resort spa in Slovakia. I'll have to see if I can squeeze in two weeks vacation to claim my prize, hi!

73, Rich

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.

On the Short Waves Update by Jerry Berg

<www.ontheshortwaves.com> Update, April 27, 2004—Under "Articles, Research, etc.," "Recordings," Horacio A. Nigro in Uruguay has sent along two historic recordings of radio broadcasts of the "Tupamaros," "Movimiento de Liberación Nacional," a subversive leftist group that flourished in Uruguay in the 1960s and 70s. One is a May 15, 1969 recording of an anti-government manifesto that the group broadcast over R. Sarandí, Montevideo, after gaining access to the transmitter site. The other is a recording of the turmoil going on in the announcing booth at the time. Both are in Spanish. Thanks, HAN.

<www.ontheshortwaves.com> Update, May 8, 2004—Under "Articles, Research, etc.," "Pot Pourri": For the listener who does not like to be too far from reminders of the hobby, some DX jewelry, specifically three pins. One is from station OTC, Belgian Congo. (Also shown is an OTC QSL.) The second is a pin from HCJB. It was issued in 1956 in commemoration of 25 years of broadcasting. (The card to which it was attached is shown as well.) The third is from Radio Nederland, issued at a time, and for purposes, unknown.

<www.ontheshortwaves.com> Update, May 20, 2004—Under "Articles, Research, etc.," "Full-Text Articles," another copy of *The Scott News*, this one from March 1932, and featuring such promotional items as a log of Australian reception and photos of Amalgamated Wireless Australasia Ltd. (AWA) QSL letters, equipment used to record foreign reception, a foreign station time schedule, and letters from satisfied Scott customers.

Easy Listening

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Radio Slovakia International gets a reprieve until July 1st

Turns out my eulogy for **Radio Slovakia International** in last month's column was a bit premature, but RSI's future isn't yet assured. A decision on RSI's future on shortwave must now be made by July 1st, and the funding search is now on. RSI's own recommendation is that the Slovak Foreign Affairs Ministry become the funding source for RSI, in part because this ministry has claimed it's in Slovakia's interest to keep the broadcast going. The Slovak Parliamentary Media Committee has also gone on record as disagreeing with the decision by Slovak Radio's Director General to terminate the use of shortwave without a funding source secured.

The plans appear to remain that other means of program distribution, such as the World Radio network and RSI's webcast, would continue in the event of funding loss, but the 150,000-strong listener base would be reduced to 20,000 if shortwave broadcasting were to end, according to the Parliamentary Meeting Committee.

What I find interesting in all this were the information sources I was able to tap in putting this update together. Thanks first are due to Glenn Hauser's ***DX Listening Digest*** and Glenn's cadre of contributors, who have updated the status of RSI through May. Thanks are next due to one of the few remaining on-air English language international media programs—RVI's ***Radio World***, hosted by Franz Vossen, who interviewed RSI personnel.

There were also two decent English-language Web information sources I used as well—<http://www.slovensko.com>, what appears to be a semi-official news and infor-

mation site about Slovakia, and *The Slovak Spectator*, <http://www.slovakspectator.sk/>, the website for Slovakia's independent English-language newspaper. I mention these because these may default to important ways to obtain news about Slovakia if RSI becomes much harder to listen to. You may wish to monitor these sites for news about RSI as June rolls on.

Radio Slovakia International continues on shortwave targeting North America, for now, at 0100 UTC on 5930 and 9440 kHz. You can also catch them on WRN for North America, available via Sirius satellite radio, weekdays at 1630 UTC and Tuesdays-Saturdays at 0030 UTC.

Radio Netherlands in the morning —Bonaire blasts in

Last month I implied that switching its morning broadcast targeting North America from Sackville to Bonaire would cost **Radio Netherlands** in audibility, as I was not expecting its Bonaire transmitter site to be able to reach Eastern Pennsylvania as reliably as its former transmission from Sackville. So far, at least, this fear is unfounded. Radio Netherlands has been reliably available on 11675 at 1100 UTC, so it would appear this was a good move—especially since the only costs are the (not insignificant) incremental costs of operating the transmitter for an additional hour each day.

Also, as mentioned in ***DX Listening Digest***, Radio Netherlands benefits on Saturdays and Sundays from "bonus" relays via **WRMI**: Saturdays 1200 (***Wide Angle, Music 52-15***) on 15475 kHz; Sundays 0400 (***Europe Unzipped***, a youthfully-oriented weekly news roundup) on 7385 kHz and

Sundays and Mondays at 0430 UTC (Sundays, *Amsterdam Forum*, a weekly panel discussion / listener interaction program; Mondays, *Research File*). What WRMI is actually doing at that time is relaying the WRN North America feed.

By the way, if you want to participate in *Amsterdam Forum*, you need to get your questions submitted in advance. The most efficient way to do this is to visit the program's website, <http://www.rnw.nl/amsterdamforum/>; while you can apparently phone in questions or send them in via SMS, the links to these options were not valid when I recently checked the RNW website. If you have missed past editions of the program, you can catch an audio archive of all topics at the website (though an attempt to do that didn't work in late May).

World Radio Network via WRMI

As mentioned above under Radio Netherlands, WRMI relays a fair amount of World Radio Network programming on the weekends, including the only shortwave airing for some stations (such as RTE Ireland); in addition to Radio Netherlands, here's what you can hear:

Saturdays 1200–2200, 15725 kHz:

1200–1300 **Radio Netherlands**
1300–1400 **RTE Ireland**
1400–1430 **Wales Radio International**
1430–1500 **Radio Vlaanderen International, FSN News** (an independent USA-based news producer)
1500–1530 **Radio Romania International, Earthwatch Radio** (two-minute feature)
1530–1600 **Radio Korea International**
1600–1615 **Radio Guangdong**
1615–1630 **Vatican Radio**
1630–1700 **Radio Slovakia International**
1700–1730 **Radio Polonia**
1730–1800 **Eco-Zone** (an independently produced program on the environment)
1800–1830 **RTE Ireland**
1830–1900 **Radio Vlaanderen International, FSN News** (as 1430)

1900–1930 **Radio Sweden**
1930–2000 **Radio Australia** (*All in the Mind*)

Sundays 0300–0900, 7385 kHz:

0300–0330 **Radio Polonia**
0330–0400 **Radio Budapest**
0400–0500 **Radio Netherlands**
0500–0530 **Kol Israel, Earth & Sky** (independently produced science & environment program)
0530–0600 **Channel Africa**
0600–0630 **China Radio International** (*Realtime China*, not the regular CRI program)
0630–0700 **Radio Sweden**
0700–0800 **Radio Australia** (*Asia Pacific, Innovations*)
0800–0830 **Voice of Russia** (*Moscow Mailbag*)
0830–0845 **UN Radio**
0845–0900 **Radio Guangdong**

Sundays 1400–2000, 15725 kHz:

1400–1430 **Eco-Zone**
1430–1500 **Radio Vlaanderen International, FSN News**
1500–1530 **Radio Romania International, Earthwatch Radio**
1530–1600 **Radio Korea International**
1600–1615 **United Nations Radio**
1615–1630 **Radio Vatican**
1630–1700 **Radio Slovakia International**
1730–1800 **Copenhagen Calling**
1800–1830 **RTE Ireland**
1830–1900 **Radio Vlaanderen International, FSN News** (as at 1430)
1900–1930 **Radio Sweden**
1930–2000 **Radio Australia** (*Pacific Review*)

Mondays 0430–0900, 7385 kHz:

0430–0500 **Radio Netherlands**
0500–0530 **Kol Israel, Earth & Sky**
0530–0600 **Channel Africa**
0600–0630 **China Radio International** (*Realtime China*)
0630–0700 **Radio Sweden**
0700–0800 **Radio Australia** (*PM*)
0800–0830 **Voice of Russia** (*Science & Engineering*)
0830–0900 **Radio Canada International** (*Canada Today*)

You might want to check some of the individual entries yourself...for example, I don't think RCI would repeat an edition of *Canada Today* from the previous afternoon.

Radio Australia Schedule Tweaks

When you're beholden to domestic radio interests, as **Radio Australia** is with **Radio National**, you sometimes have to deal with schedule changes imposed by others. That's the case this month, as some Radio National changes necessitate changes in the Radio Australia schedule as well. Courtesy of Roger Broadbent via John Figliozzi, here's what you can expect in June:

At 0410 [Mon to Fri]—*Bush Telegraph* replaces *Margaret Throsby*

At 1130 [Mon to Thu]—*Bush Telegraph* (the half hour version) will be replaced by *Innovations* (Monday) / *Earthbeat* (Tuesday) / *Rural Reporter* (Wednesday) / *Education Program*—currently *In The Pipeline* (Friday)

At 1610 [Mon to Fri]—*Margaret Throsby* will replace *Bush Telegraph*

At 1935 [Sun to Thu]—excerpts from *Bush Telegraph*, with some musical inserts, hosted by Radio Australia's Myra Mortensen

At 2130 [Sun to Thu]—*RNZI Pacific Dateline* replaces prior programming. This cooperation between RNZI and Radio Australia is the first part of a new *Pacific Broadcasting Network* initiative envisioned by Radio Australia as a cooperative effort of program exchange amongst the region's international broadcasters.

(Minor aside: Each instance you exchange a program with someone means one less program you produce yourself...with the resulting costs saved. The listener, meanwhile, is "stuck" listening to a program he or she might have already heard on the

originating station, such as *Pacific Dateline*).

Keep in mind some of these programs will likely not propagate well to North America via shortwave, especially from roughly 1300 in Eastern Pennsylvania until roughly 0000 UTC.

RNZI gets a funding boost and a new transmitter

We don't get to celebrate *increased* funding for an international broadcaster very often, but this is one of those times: **RNZI** will receive \$2.6 Million (presume NZ dollars) for a new shortwave transmitter with DRM capability in the capital year of 2005-2006; an additional \$421,000 has been budgeted annually for operation of this new transmitter beginning in 2005. RNZI was also lauded for being the only regional broadcaster capable of enabling the island of Niue to communicate with the outside world in 2003 following its devastation by Cyclone Hera (equivalent to a hurricane in North America terminology)

NASWAN Gary Rose of Springdale, Arkansas sent me a note to express concern regarding RNZI's focus on digital technology for a region unlikely to see a large influx of DRM radios for a number of years; while Gary has a point, the key thing to remember is that the anticipated service life of this new transmitter will likely be 30 years or thereabouts, and installing the *capability* to transmit in DRM mode is really a prediction (some might say a crapshoot) regarding the likely future technologies to be used on shortwave. While RNZI might launch an experimental DRM transmission using this new equipment, I feel pretty comfortable predicting that most RNZI shortwave transmissions will be in good ol' analog mode for the rest of this decade at least.

Gary also comments that he can pick up RNZI pretty well in Arkansas from 0200 UTC all the way through to 1100 UTC thanks to favorable frequency selection.

BBC World Service highlights

Mondays, beginning June 7th, 1406, repeated Tuesdays 0006 and Sundays 2306: *Tiger Tales* is a new four-part documentary series in which the BBC's former Asia correspondent, Chris Gunness, examines a single historical phenomenon in the region which still reverberates today. The first program focuses on the USA takeover of the Philippines in 1902 following the defeat of Spain in the Spanish-American War.

Wednesdays, beginning June 16th, 1545, repeated Thursdays, 0145: *Hearing Voices* is a new three-part series airing in the *Heart And Soul* program block; the series investigates the links between religion and mental health. The first program looks at the issue of demon possession and asks if this is possible or if it is a symptom of psychiatric illness. The program's presenter, Clare Catford, has had her own experience of mental illness, and claims her faith has helped her navigate the trials of divorce and an eating disorder.

Non-shortwave Tip of the Month

Deutsche Welle—remember them?—has recently launched an expanded, hour-long version of *Newslink*, called *Newslink Plus*, targeting a North American audience. The program is aired live at 0100 UTC Tuesdays-Saturdays on Deutsche Welle's live webcast and is repeated at 0200 and 0300 UTC. The DW folks tell me they aren't sure what the on-demand availability of the program will be—because they like to freshen the on-demand *Newslink* offering when a new edition goes out—which is the African edition at 0400 UTC. I suggested that the "shelf life"

of a region-specific version of the program might be a full 24 hours, as **Radio Canada International** is now doing with *Canada Today*, but so far DW hasn't followed through on the suggestion. Also, the audio software that manages *Newslink* hasn't been programmed to accommodate the hour-long version, from what I can tell.

The link to Deutsche Welle's live webcast is the rather unfriendly URL of http://www.dw-world.de/english/0,3367,4619_A_349986,00.html#; a friendlier version is <http://tinyurl.com/yutnw>. You can also navigate there by selecting "English" off the main DW website (<http://www.dw-world.de>) and then clicking on the "DW-Radio Live" button on the right side of the page.

DW is hoping that US public radio stations will show interest in the program; it appears so far the only station that has picked it up is WAMU in Washington, which delays the program until 0430 UTC Tuesdays-Saturdays. Paradoxically it appears Australia's **ABC NewsRadio** picks up the North American edition at 0205 UTC and carries it until 0230 UTC. **NewsRadio** is webcast live; see <http://www.abc.net.au/newsradio/> and click on "Listen to Us".

That's all for June; don't forget, I am always looking for programming suggestions from NASWA members, so please get in touch via the mail or e-mail, or even fax: If you have access to a fax machine, you can send a fax my way at +1 206 666 2456.

Gary Rose took the time to write this month—so what's your excuse?

See you in July—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/>.



SWL Program Guide

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SW Program Listings—A04

Abbreviations: S=Sunday, M=Monday, T=Tuesday, W=Wednesday, H=Thursday, F=Friday, A=Saturday.

Listings for U.S.-based private sw stations are limited to fare that departs from their usual religious and political programming.

Days, times and programs subject to change.

Use Mark Fine's time and frequency listing in *May's Journal* for where to tune.

Evening Listening

BBC World Service (am)

2100* *D News*; 2101 *A Play of the Week*; 2106 *S Everywoman* (magazine), *M Health Matters*, *T Go Digital*, *W Discovery*, *H One Planet*, *F Science in Action*; 2132 *S Westway Omnibus*, *M Quiz* or panel game, *T Music Review*, *W/F Westway* (drama serial), *H The Word* (writers & writings) [exc. 24th, World Book Club (discussion)]; 2145 *W Heart & Soul* (beliefs & values), *F What's the Problem?* (advice). 2200 *D The World Today*; 2232 *F People & Politics*, *A The Interview* (trends). 2300 *D News*; 2306 *S Documentary*, *M-F Outlook* (magazine), *A Pick of the World* (BBC's best); 2332 *S Quiz* or panel game; 2345 *M-F Off the Shelf* (book readings), *A Write On* (letters). 0000 *D News*; 0006 *S Top of the Pops* (British music charts), *M Everywoman*, *T/H Documentaries*, *W Masterpiece* (artistic ideas), *F Assignment*, *A Sports International*; 0032 *M Westway Omnibus*, *T Music Feature*, *W White Label* (new music), *H Charlie Gillett* (world music), *F Music Biz*, *A John Peel* (eclectic). 0100 *D News*; 0106 *S Play of the Week* (radio theatre), *M The Ticket* (global arts

survey), *T Health Matters*, *W Go Digital*, *H Discovery* (science), *F One Planet* (ecology), *A Science in Action*; 0132 *T Quiz* or panel game, *W Music Review*, *H/A Westway*, *F The Word* (writing & writers) [exc. 25th, World Book Club (discussion)]; 0145 *H Heart & Soul* (beliefs & values), *A What's the Problem* (advice). 0200 *D The World Today*; 0232 *S Global Business*, *M World Business Review*, *T-A World Business Report*; 0245 *M Instant Guide* (background), *T/W/F/A Analysis*, *H From Our Own Correspondent*. 0300 *D News*; 0306 *S From Our Own Correspondent*, *M Talking Point* (phone-in)[taped *S 1406*], *T-F Outlook* (magazine), *A Pick of the World* (BBC's best); 0332 *S The Interview* (trends); 0345 *M-F Off the Shelf* (book readings), *A Write On* (letters). 0400 *D World Briefing*; 0432 *S Letter* (from a global correspondent), *M-F The World Today*, *A Reporting Religion*; 0445 *S Instant Guide* (backgrounder).

[*Special service to the Caribbean on 5975, 11675, 15390 kHz.: 2115 *M-F Caribbean Report*. Special service to the Falklands on 11680 kHz.: 2130 *T/F Calling the Falklands*.]

All India Radio

2100 *D News*; 2105 *D Commentary*; 2111 *S Regional Film Songs*, *M/A Classical Indian Vocal Music*, *T Karnatak Vocal Music*, *W/H Instrumental Music*, *F Orchestral Music*; 2120 *S Sports Roundup* (1st wk)/Feature (2nd)/Film Story (3rd)/Discussion (4th), *M Faithfully Yours* (letters), *T Cultural Talk*, *W Radio Newsreel*, *H Panorama of Progress*, *F Focus* (magazine-1st wk)/Horizon (literature-2nd/4th)/Indian Music (3rd), For Youth (1st)/Indian Classics (books-2nd)/From the Archives (3rd)/Quiz Time (4th); 2130 *M DXers Corner* (2nd/4th), *T/W Film Songs*, *H Classical Half-Hour*, *A Old Film Songs*; 2140 *F Film Songs*; 2145 *M Film Songs*; 2150 *S Karnatak Vocal Music*.

2200 D News; 2210 D Commentary; 2215 S Women's World, M/F Radio Newsreel, T Of Persons, Places & Things (1st/3rd wk)/Our Guest (interview-2nd/4th), W Book Review (1st)/Window on Science (2nd/4th)/Times & Lives (biography-3rd), H General Talk, A Mainly for Tourists (1st/3rd)/Indian Cinema (2nd)/On the Export Front (4th); 2225 D Film Tune.

Channel Africa, South Africa

0500 S Network Africa (week in review), M-F Dateline Africa (news magazine), A Tam Tam Express (governance in Africa).

0600-0630 (as 0500-0530).

China Radio International

2300 D News & Reports; 2310 A Report on Developing Countries; 2315 F Cutting Edge (sci/tech); 2320 A CRI Roundup; 2330 S People in the Know (China's leading personalities), M Biz China, T China Horizons (China outside Beijing), W Voices from Other Lands, H Life in China, F Listeners' Garden, A In the Spotlight (cultural magazine).

0100 D News & Reports; 0110 S Report on Developing Countries; 0115 A Cutting Edge (sci/tech); 0120 S CRI Roundup; 0130 S In the Spotlight (cultural magazine), M People in the Know (China's leading personalities), T Biz China, W China Horizons (China outside Beijing), H Voices from Other Lands, F Life in China, A Listeners' Garden.

0300-0400 (as 0100-0200).

0400-0500 (as 0100-0200).

0500-0600 (as 0100-0200).

Deutsche Welle

2100 News; 2105 S Hard to Beat (sport), M-F Newslink Africa, A Religion & Society; 2115 S Inspired Minds, A German by Radio; 2130 S Hits in Germany [or] Melody

Time, M A World of Music, T Arts on the Air, W Living in Germany, H Cool (youth culture), F Focus on Folk, A Africa This Week; 2145 W Europe in Capitals.

0400 D News; 0405 S Inside Europe, M Mailbag, T-A Newslink Africa; 0430 T Insight (international issues), W World in Progress (development), H Money Talks (business), F Living Planet (environment), A Spectrum (sci-tech); 0445 T Business German.

0500 D News; 0505 S Religion & Society, M Hard to Beat (sport), T-A Newslink Africa; 0515 S German by Radio, M Inspired Minds; 0530 S Africa This Week, M Hits in Germany [or] Melody Time, T A World of Music, W Arts on the Air, H Living in Germany, F Cool (youth culture), A Focus on Folk; 0545 H Europe in Capitals.

0600-0700 (as 0400-0500).

Radio Australia

2100 D News; 2105 F Verbatim (oral history), A Australia All Over; 2110 S-H AM (morning news magazine); 2130 S Country Breakfast (rural life), M Earthbeat (ecology), T Innovations (new products), W Educational series, H All in the Mind (the brain), F In Conversation (about science); 2145 A Asia Sunday. 2200 D News; 2205 F Asia Pacific (regional current affairs), A Correspondents' Report; 2210 S-H AM (morning news magazine); 2230 F Saturday AM (morning news magazine), A Music Deli (international); 2240 S-H Australia Wide (national report); 2254 A-H Perspective (commentary). 2300 D News; 2305 F Country Breakfast (rural life), A The Europeans; 2310 S-H Asia Pacific (regional current affairs); 2330 S Verbatim (oral history), M The Europeans, T Rural Reporter, W The Arts on RA, H The Buzz (technology issues), F Hit Mix (pop/rock), A Innovations (new products). 0000 D News; 0005 S Keys to Music (enjoying the classics), A Pacific Review; 0010 M AWAY! (Aboriginal culture), T The Science Show, W The National Interest (Australian politics), H Background Briefing (documentary), F Hindsight (Australian history); 0030 A

Ockham's Razor (science opinion); 0045 *A* Lingua Franca (about language). 0100 *D* News; 0105 *S* Correspondents' Report, *A* Asia Pacific (regional current affairs); 0110 *M-F* Asia Pacific; 0130 *S* In Conversation (about science), *M* Health Report, *T* Law Report, *W* Religion Report, *H* Media Report, *F* The Sports Factor, *A* The Chat Room (interviews). 0200 *D* News; 0205* *S* Margaret Throsby (interviews and music), *A* Background Briefing (documentary); 0210 *M-F* The World Today (ABC Radio flagship news program); 0255 *T-F* Stock Market Report, *A* Reporter's Notebook. 0300 *D* News; 0305 *S* Australian Express (magazine), *A* Rural Reporter; 0310 *M-F* Regional Sports Report; 0320 *M-F* Life Matters (social issues); 0330 *S* Jazz Notes, *A* Australian Country Style; 0354 Heywire (young rural Australian opinion). 0400 *D* News; 0405 *S* The Europeans, *A* Books & Writing; 0410 *M-F* Margaret Throsby (interviews and music); 0430 *S* The Chat Room (interviews); 0435 *A* Book Talk; 0455 *M-F* Perspective (commentary). 0500 *D* News; 0505 *S* All in the Mind (the brain), *A* Australian Express (magazine); 0510 *M-F* Pacific Beat (Pacific islands magazine *W/sports* @ 0530); 0530 *S* The Ark (religious history), *A* All in the Mind; 0535 *M-F* On the Mat (regional issues); 0549 *S* The Pulse (Aussie music now). 0600 *D* News; 0605 *S* The Buzz (sci-tech), *A* Verbatim (oral histories); 0610 *M-F* Regional Sports Report; 0620 *M* Ockham's Razor (science opinion), *T* In Conversation (about science), *W* Lingua Franca (about language), *H* The Ark (religious history), *F* Inside Out (Pacific views); 0630 *S* Hit Mix (pop/rock), *A* In Conversation; 0635 *M* Hit Mix, *T* Music Deli (diverse world/folk), *W* Jazz Notes, *H* Australian Country Style.

[*Special service: 0205-0800 *S/A* Grandstand (live sports action) on 9660, 12080, 15240, 17750 kHz. only.]

Radio Austria International

2305 *S/A* Insight Central Europe; 2315 *M-F* Report from Austria; 2325 *S/A* Listener Letters; 2335 *S/A* Insight Central Europe; 2345 *M-F* Report from Austria; 2355 *S/A* Listener Letters.

0105 *S/M* Insight Central Europe; 0115 *T-A* Report from Austria; 0125 *S/M* Listener Letters; 0135 *S/M* Insight Central Europe; 0145 *T-A* Report from Austria; 0155 *S/M* Listener Letters.

Radio Budapest

0100 *D* News; 0105 *S* Insight Central Europe; *M* Europe Unlimited (trade) or Heading for Hungary (travel) or Spotlight (culture) or And the Gatepost (letters), *T-F* Hungary Today (current events magazine), *A* The Week; 0120 *A* DX Corner.

0230-0300 (as 0100-0130).

Radio Bulgaria

2300 *D* News; 2310 *S* Folk Studio (Bulgarian folk music), *M-F* Events and Developments, *A* Views Behind the News; 2320 *M* Sports, *T-A* Timeout for Music; 2330 *T-S* Keyword Bulgaria (Bulgaria and things Bulgarian); 2340 *A* Radio Bulgaria Calling (for radio hobbyists), *S* Bulgarian Plaza (cultural magazine) or Walks and Talks (interesting places), *M* Answering Your Letters, *T* Magazine Economy, *W* The Way We Live, *H* History Club, *F* Arts and Artists.

0200 *D* News; 0210 *S* Views Behind the News, *M* Folk Studio (Bulgarian folk music), *T-A* Events and Developments; 0220 *T* Sports, *W-S* Timeout for Music; 0230 *W-M* Keyword Bulgaria (Bulgaria and things Bulgarian); 0240 *S* Radio Bulgaria Calling (for radio hobbyists), *M* Bulgarian Plaza (cultural magazine) or Walks and Talks (interesting places), *T* Answering Your Letters, *W* Magazine Economy, *H* The Way We Live, *F* History Club, *A* Arts and Artists.

Radio Canada International

2200 *S/A* The World This Weekend, *M-F* The World at 6; 2230 *S* Inside Track (sports anthologies) *M-F* As It Happens (interviews with newsmakers), *A* Summer Comedy Revue. 2300 *D* CBC News; 2305 *A* Quirks & Quarks (science), *S* Global Village (world music), *M-F* As It Happens (interviews

with newsmakers)[began at 2230]; **2330 W** Dispatches (world events in Canadian perspective).

0100 S/M News, *T-A* The World at Six (domestic main evening newscast); **0105 S** Business Sense, *M* Maple Leaf Mailbag (*W/CIDX* report bimonthly); **0135 S/A** Sci-Tech File, *M/H* Spotlight (arts & culture), *T* Media Zone (journalists discuss), *W* Maple Leaf Mailbag (*W/CIDX* report bimonthly), *F* Business Sense.

Radio Exterior de España

0000 S Visitors Book (travelers to Spain), *M* Window on Spain (culture), *T-A* News (international, Spain, Latin America); **0015 S/M** Spanish history or culture series; **0017 T-A** Spain Day-by-Day (feature magazine); **0035 S** Radio Waves, *M* Radio Club (letters), *F* American Chronicles, *A* Food in Spain; **0040 A** Africa Today; **0045 T-A** A Language Without Bounds (Spanish lesson).

Radio Habana Cuba

0100 D International News; **0110 M** Weekly Review, *T-S* National News; **0115 T-S** Viewpoint; **0130 M** Reports & Music, *T-S* News Bulletin; **0135 T-A** Time Out (sports); **0140 S/W** DXers Unlimited, *M* Mailbag Show, *T/H/F* Caribbean Outlook, *A* Weekly Review; **0150 M** Breakthrough (science report). **0200 D** International News; **0210 M** From Habana (Cuban musicians), *T-S* National News; **0215 T-S** Reports and music; **0230 M** The Jazz Place or Top Tens, *T-S* News Bulletin; **0235 S** World of Stamps, *T-A* Reports and music; **0250 S** Cuban music.

0300-0500 (as 0100-0300).

0500-0700 (as 0100-0300).

Radio Japan—NHK World

2100 D News; **2110 S** Pop Joins the World, *M-F* Songs for Everyone, *A* Weekend Japanology; **2115 M-F** Asian Top News (headlines from region's radio); **2125 M** Japan Musicscape, *T* Basic Japanese for You,

W Japan Music Travelogue, *H* Brush Up Your Japanese, *F* Music Beat; **2154 A** Japan Music Scene.

0000 D News; **0010 S** Hello from Tokyo (listener contact), *M* Weekend Japanology, *T-A* Songs for Everyone; **0015 T-A** 44 Minutes (magazine); **0054 M** Japan Music Scene.

0100 D News; **0110 S** Pop Joins the World, *M-F* Songs for Everyone, *A* Hello from Tokyo (listener contact); **0115 M-F** 44 Minutes (magazine).

0500 D News; **0510 S** Pop Joins the World, *A* Hello from Tokyo (listener contact); **0515 M-F** 44 Minutes (magazine).

0600 D News; **0610 S** Weekend Japanology (Japanese life), *M-F* Songs for Everyone, *A* Pop Joins the World; **0615 M-F** Asian Top News (headlines from region's radio); **0625 M** Japan Musicscape, *T* Basic Japanese for You, *W* Japan Music Travelogue, *H* Brush Up Your Japanese, *F* Music Beat; **0654 S** Japan Music Scene.

Radio Korea International

0200 D News; **0210 S** Worldwide Friendship (letters, DX news), *M* Korean Pop Interactive (requests), *T-A* News Commentary; **0215 T-A** Seoul Calling (magazine); **0230 T** Korea Today & Tomorrow (peninsular relations), *W* Korean Kaleidoscope (society), *H* Wonderful Korea (travelogue), *F* Seoul Report.

Radio Netherlands

0000 S/M News; *T-A* Newline; **0005 S** Wide Angle (in-depth), *M* Europe Unzipped; **0025 S** The Week Ahead (on RN), *M* Insight (commentary); **0030 S** Amsterdam Forum (conversations), *M* Vox Humana (culture), *T* Research File (science), *W* EuroQuest (Europe in context), *H* Documentary, *F* Dutch Horizons, *A* A Good Life (development).

0100-0200 (as 0000-0100).

0400-0500 (as 0000-0100).

Radio New Zealand International

0000 *S/A* News, *M-F* Midday Report; 0012 *S* The Week in Parliament, *A* Focus on Politics; 0033 *S* Spectrum (life in NZ), *A* The Sampler (latest CDs). 0100 *S/A* RNZ News, *M-F* Pacific Regional News; 0106 *S* At the Movies, *M-F* Wayne's Music (favorites), *A* Your Money; 0130 *S* Bookmarks, *A* Saturday Comedy Zone. 0200 *D* RNZ News; 0205 *S* Feature, *M-F* In Touch with New Zealand (music, interviews, variety), *A* Eureka! (science)*; 0230 *A* Health Matters [or] Environment Matters*. 0300 *S/A** RNZ News, *M-F* Pacific Regional News; 0305 *S* RPM (documentaries)*, *A* Home Grown (NZ music)*; 0308 *M-F* Dateline Pacific; 0330 *M* New Music Releases, *T* Mailbox (letters & DX news) or RNZI Talk (station info), *W* Tradewinds (Pacific commerce), *H* The World in Sport, *F* Pacific Correspondent, *A* Musical Chairs (artist spotlight)*. 0400 *S/A* RNZ News; 0405 *S* Sunday Drama* (radio plays), *M-F* In Touch with NZ (continues from 0205), *A* Home Grown (cont'd from 0305). 0500 *S/A* RNZ News; *M-F* Checkpoint; 0510 *S* Religion feature or series, *A* Tagata O Te Moana (Pacific magazine); 0540 *S* Jazz Spotlight. 0600 *D* RNZ News; 0607 *S* Mana Korero (Maori magazine), *M-F* Worldwatch & Pacific Report, *A* The Mix ('live' music acts); 0630 *M* Letter (from a global correspondent); 0645 *M-F* Storytime.

[* may be pre-empted for live sports coverage.]

Radio Prague

2230 *D* News; 2235 *S* Mailbox, *M-F* Current Affairs, *A* Insight Central Europe; 2240 *S* ABC of Czech (the language), *T* Czech Science, *W* Witness (eyewitness to history), *F* The Arts; 2245 *S* Encore [or] Magic Carpet (both monthly) [or] Czech Books (biweekly), *M* Talking Point (Czech issues), *T* One on One (interview), *W* Czechs in History [or] Czechs Today (both monthly) [or] Spotlight (travelogue), *H* Economic Report, *F* Stepping Out (Prague nightlife).

0000 *D* News; 0005 *S* Magazine, *M* Mailbox, *T-A* Current Affairs; 0010 *S* Letter

from Prague, *M* ABC of Czech (the language), *W* Czech Science, *H* Witness (eyewitness to history), *A* The Arts; 0015 *S/W* One on One (interview), *M* Encore [or] Magic Carpet (both monthly) [or] Czech Books (biweekly), *T* Talking Point (Czech issues), *H* Czechs in History [or] Czechs Today (both monthly) [or] Spotlight (travelogue), *F* Economic Report, *A* Stepping Out (Prague nightlife).

0100-0130 (as 0000-0030).

0300-0330 (as 0000-0030).

Radio Romania International

2300 *D* Radio Newsreel; 2310 *A* The Week, *S* Focus, *M-F* Commentary; 0415 *A* World of Culture, *S* Sunday Studio, *M* Pro Memoria (history), *T* Business Club, *W* Society Today, *H* Cards on the Table (debate), *F* Challenge for the Future or Terra 21st Century [programs alternate]; 0420 *A* RRI Encyclopedia, *M* Political Flash, *T* European Horizons; 0425 *A* Roots (culture/traditions), *M/W* Business Update, *T* Tourist News, *H* Listeners' Letterbox, *F* Practical Guide; 0430 *A* Radio Pictures, *S* Romanian Itineraries, *W* Visit Romania, *F* Cultural Survey; 0435 *A* Romanian Itineraries, *S* Listeners' Letterbox, *M* Performing Arts, *T* Talking Points or Living Romania [programs alternate], *W* Partners in a Changing World, *H* Guest at the Microphone, *F* Over Coffee (with artists); 0440 *A* Bucharest Along the Centuries, *M* Pages of Romanian Literature, *S/H* Skylark (folk music), *W* Stage and Screen, *F* Off Bucharest; 0445 *A* DX Mailbag, *M* Romanian Hits, *W* Romanian Musicians, *F* Folk Music Box; 0450 *S* Romanian Folk Music At Its Best, *M* Sports Roundup, *T* Athlete of the Week, *W* Sports Club, *H* Football Flash, *F* Sports Weekend.

0200 *D* Radio Newsreel; 0210 *S* The Week, *M* Focus, *T-A* Commentary; 0215 *S* World of Culture, *M* Sunday Studio, *T* Pro Memoria (history), *W* Business Club, *H* Society Today, *F* Cards on the Table (debate), *A* Challenge for the Future or Terra 21st Century [programs alternate]; 0220 *S* RRI Encyclopedia, *T* Political Flash, *W* European Horizons; 0225 *S* Roots (culture/traditions), *T/H* Business Update, *W* Tourist News, *F* Lis-

teners' Letterbox, *A Practical Guide*; **0230** *S* Radio Pictures, *M* Romanian Itineraries, *H* Visit Romania, *A* Cultural Survey; **0235** *S* Romanian Itineraries, *M* Listeners' Letterbox, *T* Performing Arts, *W* Talking Points or Living Romania [programs alternate], *H* Partners in a Changing World, *F* Guest at the Microphone, *A* Over Coffee (with artists); **0240** *S*, Bucharest Along the Centuries, *T* Pages of Romanian Literature, *M/F* Skylark (folk music), *H* Stage and Screen, *A* Off Bucharest; **0245** *S* *DX* Mailbag, *T* Romanian Hits, *H* Romanian Musicians, *A* Folk Music Box; **0250** *M* Romanian Folk Music At Its Best, *T* Sports Roundup, *W* Athlete of the Week, *H* Sports Club, *F* Football Flash, *A* Sports Weekend.

Radio Slovakia International

0100 *D* News; **0105** *S* Front Page Review (Slovak press), *M* Weekly Newsreel *T-A* Topical Issue; **0110** *S* Various features, *M* Listeners' Tribune (letters, magazine, Slovak music), *T* Insight Central Europe, *W* Tourism News or Environmental Update, *H* Business News, *F* Culture News or Back Page News (the offbeat), *A* Education, Science and Regional News.

Radio Sweden

0130 *S* Network Europe (Europe magazine-1st week)/Sweden Today (2nd)/Spectrum (arts magazine-3rd)/Studio 49 (topical discussion-4th), *M* In Touch with Stockholm (listener contact-1st)/Sounds Nordic (rock music-exc. 1st), *T-A* Sixty Degrees North (regional report); **0145** *T* Sports Scan, *W* Close Up (profiles of Swedes-1st), *F* Nordic Lights (1st)/Green Scan (ecology-2nd)/Heart Beat (health-3rd)/The S-Files (things Swedish-4th), *A* Review of the Newsweek.

0230-0300 (as 0130-0200).

Radio Taiwan International

0200 *D* News; **0210** *S* News Talk, *M* Taiwan Economic Journal, *T* Kaleidoscope (society), *W* On the Job, *H* Trends, *F* Politics Today, *A* Bookworm; **0220** *S* Taipei Magazine,

M Discover Taiwan, *T* Mailbag Time, *W* Jade Bells & Bamboo Pipes (traditional music), *H* People, *F* Culture Express, *A* Stage, Screen & Studio; **0230** *M* Asia Pacific (from R. Australia); **0235** *S* Sound Postcard, *H* Wisdom.com, *F* New Music Lounge, *A* Groove Zone; **0240** *S* Hakka World (indigenous culture), *T* Sound Postcard; **0245** *T* Let's Learn Chinese, *W* Life Unusual (the offbeat), *H* Instant Noodles (the weird).

0300-0400 (as 0200-0300).

0700-0800 (as 0200-0300).

Radio Ukraine International

0000 *D* News; **0010** *S* Ukrainian Diary (weekly review), *M* Music from Ukraine, *T-A* Ukraine Today (magazine); **0018** *S* The Whole World on the Radio Dial (*DX* program); **0035** *S* Hello From Kiev (listener letters/music), *M* Roots (culture & education); **0045** *T-A* Closeup (current issues).

0300-0400 (as 0000-0100).

RVi, Belgium

2200 *S* Radio World, *M-F* News, *A* Music from Flanders; **2204** *M-F* Flanders Today (incl. press review, reports & 'CD of the Week'); **2208** *S* Tourism in Flanders; **2214** *S* Brussels 1043 (letters).

0400 *S* Music from Flanders, *M* Radio World, *T-A* News; **0404** *T-A* Flanders Today (incl. press review, reports & CD of the Week); **0408** *M* Tourism in Flanders; **0414** *M* Brussels 1043 (letters).

Voice of America, Africa Service

2100 *M-F* News; **2106** *M* American Gold, *T* Roots and Branches, *W* Classic Rock, *H* Top 20, *F* Country Hits.

0300 *M-F* Daybreak Africa (morning newsmagazine); **0330** *M-F* News Headlines; **0333** *M-F* Business Report; **0345** *M-F* Dateline (documentary); **0355** *M-F* Opinion Roundup. **0400** *M-F* News & Reports; **0415** *M-F* Focus (a topic in-depth); **0423** *M-F* Sports; **0430** *M-F*

Daybreak Africa (morning newsmagazine). 0500 *M-F* News & Reports; 0523 *M-F* Sports Report; 0530 *M-F* News Headlines; 0533 *M-F* Business Report; 0545 *M-F* Dateline (documentary); 0555 *M-F* Opinion Roundup. 0600 *S/A* News & Reports, *M-F* Daybreak Africa (morning newsmagazine); 0623 *S/A* Sports; 0630 *S/A* News Headlines; 0633 *S/A* Main Street (life in America).

Voice of America, Special English

0130 *T-A* News; 0140 *T* Agriculture Today, *W/H* Science Report, *F* Environment Report, *A* In the News; 0145 *T* Science in the News, *W* Explorations, *H* Making of a Nation, *F* American Mosaic; *A* American Stories.

Voice of Nigeria

0500 *S/A* News Summary, *M-F* VON Scope (news magazine); 0505 *S* This Week on VON, *A* VON Link-up (music requests); 0530 *D* Moving On (variety magazine). 0600 *D* Nigeria/Africa/World News (magazine); 0630 *S* In the News, *A* News Maker; 0645 *A* Window on Abuja.

Voice of Russia

0100 *D* News; 0111 *S/M* Moscow Mailbag, *T-A* Commonwealth Update; 0130 *D* News in Brief; 0132 *S* Moscow Yesterday & Today, *M* Timelines, *T* Folk Box, *W* Jazz Show, *H* Musical Portraits, *F* Moscow Calling, *A* Christian Message from Moscow; 0146 *F* Music At Your Request; 0154 *H* Russia: People & Events. 0200 *D* News; 0211 *M* Sunday Panorama, *T-S* News & Views; 0230 *D* News in Brief; 0232 *S* Songs from Russia, *M/F* Russian by Radio, *T* Kaleidoscope (Russian events), *W* Musical Portraits, *H* Moscow Yesterday & Today, *A* Audio Book Club (Russian lit.); 0246 *S* You Write to Moscow; 0254 *S/W* Russia: People & Events. 0300 *D* News; 0311 *S* Music & Musicians, *M* This is Russia, *T* Musical Portraits, *W/A* Moscow Mailbag, *H* Science Plus, *F* Newmarket; 0330 *D* News in Brief; 0332 *M* Moscow Calling, *T/H/A* The River of Time, *W* Guest Speaker, *F* Russian history/culture; 0347 *W* Ladies of Character. 0400 *D* News; 0411 *S/M* Musical Portraits,

T/F Moscow Mailbag, *W/A* Science Plus, *H* Newmarket (business); 0430 *D* News in Brief; 0432 *S* Kaleidoscope, *M* Audio Book Club, *T* Music Around Us, *W* Moscow Yesterday & Today, *H* Folk Box, *F* Audio Book Club (Russian lit.), *A* Timelines; 0447 *T* Music At Your Request.

Voice of Turkey

2200 *D* News; 2210 *D* Press Review; 2215 *S* Tunes Spanning Centuries, *M* Last Week, *T* Live From Turkey, *W* Review of the Foreign Media, *H* Big Powers & the Armenian Problem, *F* Archaeological Settlements in Turkey, *A* Outlook; 2220 *M* Hues & Colors of Anatolia, *W* Letterbox, *A* The Stream of Love or DX Corner; 2225 *S/F* Music, *H* In the Wake of a Contest; 2230 *M/A* Music; 2235 *S* Turks in the Mirror of Centuries, *M* From Past to Present, *W* Turkey's Off the Beaten Track Sites, *H* The Culture Parade, *F* The Travel Itinerary of Anatolia, *A* Turkish Arts.

0300 *D* News; 0310 *D* Press Review; 0315 *S* Outlook, *M* Tunes Spanning Centuries, *T* Last Week, *W* Live From Turkey, *H* Review of the Foreign Media, *F* Big Powers & the Armenian Problem, *A* Archaeological Settlements in Turkey; 0320 *S* The Stream of Love or DX Corner, *T* Hues & Colors of Anatolia, *H* Letterbox; 0325 *M/A* Music, *F* In the Wake of a Contest; 0330 *S/T* Music; 0335 *S* Turkish Arts, *M* Turks in the Mirror of Centuries, *T* From Past to Present, *H* Turkey's Off the Beaten Track Sites, *F* The Culture Parade, *A* The Travel Itinerary of Anatolia.

Voice of Vietnam

0100 *D* News; 0105 *D* Current Affairs; 0110 *S* Weekly Review, *M* Sunday Show, *T/W/F/A* Press Review, *H* Talk of the Week; 0115 *T* Vietnam: Land & People, *W* Culture & Society, *H* Letterbox, *F* Vietnam Economy, *A* Rural Vietnam; 0120 *S* Music, *A* Literature and Arts.

0230-0300 (as 0100-0130).

0330-0400 (as 0100-0130).

WBCQ, Maine

5105 kHz.: 2100 *M-F* Radio Caroline. 2200 *S* Jean Shepherd. 2300 *S* Best of Complex Variables Studio. 0000 *M* Firesign Theatre Hour (classic satire). 0100 *M* Tesla's Ear. 0200 *M* Squad 51. 0300 *M* The Pirate's Cove.

7415 kHz.: 2100 *S* Radio Free Euphoria/Radio Three, *M* Jean Shepherd, *H* Planet World News Roundup, *F* Frankie V Radio Show; 2130 *H* The Last Roundup, *F* Pab Sungenis Project. 2200 *M* Radio Weather, *W* World of Radio, *H* The Last Roundup (cont'd), *F* Pab Sungenis Project (cont'd), *A* Radio Timtron Worldwide; 2230 *W* The Music Download Scene, *H* Uncle Ed's Musical Memories, *F* Wanton Display of Control & Disruption. 2300 *A* The Real Amateur Radio Show, *S* Le Show (humor/entertainment), *W* Off the Hook (public telecommunications issues), *H* Goddess Irene I Music Show, *F* The Lost Discs Radio Show; 2330 *T* Duhh News, *A* Fred Flintstone Music Show. 0000 *S* Different Kind of Oldies Show, *M* Radio New York International, *A* Allan Weiner Worldwide. 0100 *S* Marion's Attic (vintage recordings), *M* Radio New York International (cont'd), *T* The Secular Bible Study, *A* Tasha Takes Control. 0200 *S* Pan Global Wireless, *M* Radio New York International (cont'd). 0300 *S* Michael Ketter Show (satire/free form), *M* Radio New York International (cont'd). 0400 *S* Tom & Darryl (electronic media), *M-A* Amos 'n Andy; 0415 *M* World of Radio, *T* Odin Lives (old Norse myths/music). 0500 *S* Juliet's Wild Kingdom.

9330 kHz.: 2100 *A* Allan Weiner Worldwide. 0000 *S* Allan Weiner Worldwide. 0100 *M* Odin Lives (old Norse legends/music). 0300 *S* Radio Timtron Worldwide.

17495 kHz.: 2200 *W* World of Radio.

WHRA, Maine

17650 kHz.: 2100 *F* DXing with Cumbre.

7580 kHz.: 2305 *S* Turn Your Radio On (southern gospel music), *M-F* For the People (populist political phone-in). 0005 *T-A* For

the People (continued). 0105 *S* Turn Your Radio On (southern gospel music). 0230 *S* World Harvest Country Style, *M* DXing with Cumbre.

WHRI, Indiana

9495 kHz.: 2130 *A* DXing with Cumbre. 2330 *A* DXing with Cumbre.

5745 kHz.: 2100 *S* DXing with Cumbre; 2105 *M-H* For the People (populist political phone-in). 2205 *A* Turn Your Radio On (southern gospel music). 2330 *A* World Harvest Country Style. 0300 *S* Powersource Top 20 (Christian rock music). 0500 *A* DXing with Cumbre; 0530 *A* World Harvest Country Style. 0630 *S* DXing with Cumbre.

7315 kHz.: 0030 *S* DXing with Cumbre. 0105 *S* Turn Your Radio On (southern gospel music). 0302 *S* 20 The Countdown Magazine (Christian rock charts). 0500 *A* DXing with Cumbre; 0530 *A* World Harvest Country Style. 0605 *A* Turn Your Radio On (southern gospel music).

WRMI, Florida

15725 kHz.: 2100 *S* Wavescan (AWR's radio hobbyist program), *A* World Radio Network (relay); 2130 *S* Voice of the NASB (consortium of US private international broadcasters).

7385 kHz.: 0230 *S* Voice of the NASB (US sw broadcasters consortium). 0300 *S* World Radio Network (relay), *M* VCS Radio (Christian hard rock). 0400 *S* World Radio Network (relay), *M* Wavescan; 0430 *M* World Radio Network (relay). 0500 *S/M* World Radio Network (relay) [continues to 0900].

WWCR, Tennessee

5070 kHz.: 2345 *A* Ask WWCR. 0200 *S* DX Partyline; 0230 *S* World of Radio. 0400 *S* Cyber Line (digital communications). 0530 *M-F* Natural Health Clinic.

3210 kHz.: 0200 *M* Cyber Line (digital communications). 0630 *S* World of Radio.

Next month: Morning Listening listings. 

Shortwave Center

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A Letter From Radio Galkayo on 6980

Reprinted from DX-Window No. 243, Danish Shortwave Club International, April 7, 2004

My name is Ahmed Haji-Jama, a Canadian citizen of Somali origin, webmaster of www.radiogalkayo.com and resident of Toronto, Canada. My hobby is Somali Radio. Radio is by far the most influential means of communication in Somalia, a highly oral society. Please see the many links about Radio Galkayo on this website.

Also, please see at the end of the website, four messages from two brave Canadian journalists, members of the Canadian Journalists for Human Rights (<http://www.jhr.ca/>) who are planning to go to Galkayo by September, stay there for a few months and help Radio Galkayo.

Also, please see the Radio needs, outlined below, we sent to the journalists. They are confident of obtaining most of the items. However, they may need help for one of the needs, the FM transmitter and antenna.

Anyway, the best thing to coordinate things with them, see what they can do and what they can't, then share with your resource group in Finland, governmental or otherwise, to chip in and help as well. The needs of Radio Galkayo are immense. They may need computers, tapes, motors, and even incentive, even if minor, for the young volunteers, internet/website costs (which really very few from our Diaspora shoulder), etc...

Finally, please find below some of the requests from Sam Voron, just published this week! Sam is a great asset for Radio Galkayo and we regard him highly!

Thanks a million, Ahmed Haji-jama,
www.radiogalkayo.com

Radio Galkayo and peacebuilding in Somalia

A proposal to strengthen Radio Galkayo

A community radio station in Galkayo, Puntland.

15 March 2004

Introduction

Since the collapse of Somalia's central government in 1991, Somalia has remained in a state of statelessness. Civil war still rages in some parts of the country. In other parts, such as Puntland State of Somalia, peace building and self-government initiatives have taken root. And as Puntland evolved into a self-governing entity, peace promotions within and with neighboring regions or clans have taken a new urgency. Radio Galkayo or "Radio Peace" as previously known, has filled the void. It has for the past thirteen years remained the sole voice promoting peace in the region and throughout Somalia.

In these difficult times, it is noteworthy to remember that Radio Galkayo has played a vital role during the civil war and this post conflict period. However, because of lack of staff experience, lack of encouragement and motivation, lack of suitable equipment, and numerous other problems related to this post-conflict environment, daily programming demands constant vigilance, and in that process Radio Galkayo continues the dissemination of programs based on the needs of the larger community. Day-after-day the community needs and related services needed keep growing. And Radio Galkayo remains the only community and

non-commercial radio throughout Puntland and surrounding areas. And, as a matter of fact, 'Radio' remains as the sole source in which the local people get their information, information that can bring people together and that can create a peaceful atmosphere where development and stability take root.

Objectives:

1. Our original goal, vision, and objective of Radio Galkayo was to undertake and provide non-political information with the concept of a "Free Community Radio" being fully utilized.
2. To establish community based radio in Somalia.
3. To enable the community to have a window to speak and communicate with each other.

In addition to that concept of providing a voice for the voiceless, Radio Galkayo has made its objective to provide responsible reporting that contributes to a culture of peace and fair reporting. In Puntland, Radio Galkayo has also consistently supported and encouraged democratic development and good governance in the region.

During the post-conflict period, to maintain a consistent, balanced and peaceful message, it is important to train local journalists to devote more time in community news, economic development projects, and in promoting the achievements of our most admired community members.

Training

To create quality programs is easier said than done. Therefore, to make a programming leap, it would be quite advantageous to have Western educated journalists undertake skills training programs for local journalists. Firstly, Western journalists would instill professionalism in the broadcasting booth.

Secondly, their help will make programming more efficient. And finally, a friendly atmosphere where different cultures co-mingle will be created. We expect this and will encourage it to be an atmosphere where each will benefit from the other.

Infrastructure

To achieve the above objectives and develop fully trained staff, we need to maintain or expand the existing infrastructure. Currently, Radio Galkayo has a basic shortwave transmitter, an FM transmitter, and miscellaneous, but really old, recording equipment. To maintain and expand quality programming, Radio Galkayo needs the following equipment:

- An FM transmitter with an antenna. Second hand min each \$10,000.00 US.
- Three double cassette decks. Standard-deck each \$200.00 US.
- Two mixers. Depending on the brand and features each \$3,000.00 US.
- Four studio microphones. Dynamic mics for studio each \$500.00 US.
- Mini disk recorders. Digital 8 hr/256 mb recorder each \$250.00 US.

Total needs cost: \$13,950.00 US.

Conclusion

By working together, learning from each other, and leaning on each other, together we can contribute to peace, stability, and development in Africa. Let us stay together!

Sincerely yours

Hassan M. Jama 'Jidka'

Director of Radio Galkayo (via Ekblom)

Domestic Broadcasting Survey

6th Edition 2004

Edited by Anker Petersen

ISSN 1399-8218

Reviewed by Richard A. D'Angelo

The latest Domestic Broadcasting Survey 6 (DBS-6), edited by world-renowned DXer Anker Petersen, is hot off the presses. Published in May by the Danish Shortwave Club International (DSWCI), the DBS continues to be the top annual publication devoted to tropical and domestic band shortwave broadcasting stations. The DSWCI offers the DBS in electronic form (PDF-format), which provides for a substantial reduction in price over a paper version thereby increasing its value and speed of delivery. However, a limited number are also available printed on paper for those without electronic capability.

As in past years, a copy of the Press Release can be found on the DSWCI website at . By clicking on the Domestic Band Survey, you will see the color front page (a Tahitian girl playing the Ukulele from one of Anker's world tours) and sample listings along with reviews from last year's edition.

With 47 years of experience and a worldwide membership of experienced DXers scattered in about 35 different countries worldwide, the DBS-6 draws upon the knowledge and skills of the DSWCI's international array of top-flight DXers to produce a unique and extremely valuable hobby resource. In addition to the club's extensive monitoring activity, the new survey is also based upon many official sources and DX bulletins. Over the years, the DSWCI has published some of the best non-commercial hobby references available to the shortwave listener. The electronic DBS-6 continues this grand tradition.

This is the sixth year that the DSWCI has incorporated its invaluable tropical band survey into a broader survey that includes

all domestic shortwave broadcasting. The old Tropical Band Survey (TBS) portion of this publication, which has been tops in the field of shortwave broadcast lists for many years, is in its 32nd year. Because most of its members devote most of their DXing time to domestic broadcasting stations on the tropical and international shortwave bands, a few years ago the DSWCI decided to expand the traditional tropical band survey to include stations broadcasting to a domestic audience. Consequently, the DSWCI now publishes a superb, comprehensive reference of domestic shortwave broadcasting. The DBS-6 covers all active stations broadcasting to a domestic audience or relaying domestic broadcasts to expatriates between the frequencies of 2,300 kHz to 30,000 kHz. Part 1 is the TBS portion covering all active broadcasting stations in the 2,300 to 5,700 kHz range. Part 2 covers the domestic

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stations on the international bands above 5,700 kHz broadcasting to a domestic audience or relaying such broadcasts to compatriots abroad. Part 3 continues to include active clandestine broadcasting stations with schedules and identifications that enhances the value of the DBS-6 to the serious shortwave monitor.

A valuable, unique feature of the DBS-6 is the right hand column called Last Log. This column shows the last month and year prior to the April 30th deadline when a DXer somewhere in the world reported a particular station. This gives the listener a reasonable indication of the audibility of the shortwave broadcasting station. As part of the updating process, most frequencies that have not been heard in the last year have been deleted from the list and moved to a new section at the end of the survey, Part 4, for stations deleted since May 2000. This updating procedure makes the DBS current and very user friendly. My own personal monitoring and checking confirms that the 2004 edition of the Domestic Broadcasting Survey continues the tradition of providing very accurate and extremely useful information for the DXer. Consequently, it makes an extremely valuable addition to the references and published resources hobbyists maintain in pursuit of elusive DX station catches.

To assure reliability, each of the 1,560 station frequencies has been confirmed on the air by the club's extensive collection of worldwide monitoring experts since the last publication through the April 30th closing date. Stations confirmed as being active are marked with an "A" (regular), or "B" (irregular), or "C" (sporadic) in the list. A "D" means the stations is likely inactive. On a few cases, "PPPPP" is used to signify a broadcast during local daylight hours that could not be confirmed. This simple coding system provides valuable information when tuning the bands while trying to get a handle on rare, exotic DX catches. DSWCI members also receive periodic updates issued in the *Shortwave News* bulletin published by the club and through its electronic *DX Window*. This extra

service keeps the domestic band survey accurate and up-to-date. Details about becoming a DSWCI member are available at the club website. The electronic, pdf-format, membership option substantially reduces the cost of being a member.

The Domestic Broadcasting Survey is a high quality shortwave broadcast DX resource available for only a fraction of the cost of other more expensive publications such as the Tropical Band List published in Germany. The combination of high quality and low prices make the DBS unbeatable in today's global resource reference marketplace. If you listen to domestic broadcasters, the DBS-6 is a "must have" while tuning the bands.

The DBS-6 is very easy to use. The first column provides the reception code, A, B, or C as previously described. The second column lists the frequency. The third column provides the station transmitter output. The fourth column designates the broadcasting country utilizing the International Telecommunications Union (ITU) country code abbreviations. For those not familiar with these abbreviations, a complete list of ITU country codes is given on page 3 of the DBS. The fifth column provides the station name and/or call letters and location. The next column provides transmission times and other useful information about the station such as operating schedules during Ramadan for Middle East and Indonesian stations. Other useful features for easy station identification are the parallel frequencies and station ID text. The final column is the Last Log feature previously described. Also, the survey includes a listing of Indonesian provinces and special districts, which is extremely useful for DXers with an interest in that part of shortwave broadcasting world. See the sample extracts from the DBS at the end of this review.

The 48-page A-4 size Domestic Broadcasting Survey is available in electronic form in pdf-format. The electronic DBS-6 is available via e-mail for only US\$7.00, EUR 5, or 6 International Reply Coupons (IRCs). The print edition is available for only

The 2004 edition of the Domestic Broadcasting Survey is a very useful and reliable DXing resource that should be in the shack of every active shortwave monitor.

US\$13.00, EUR 10, or 11 IRCS. The DBS-6 can be ordered direct from the club treasurer at the following address:

DSWCI
c/o Bent Nielsen
Egekrogen 14
DK-3500 Vaerloese
Denmark

The 2004 edition of the Domestic Broadcasting Survey is a very useful and reliable DXing resource that should be in the shack of every active shortwave monitor. I use the DBS on a daily basis while tuning the bands. I can't imagine DXing without this at my side. While some enjoy operating a computer while tuning the bands, I print out a hardcopy to use thereby eliminating another electronic device from the listening equation. I literally wear out my Domestic Broadcasting Survey during French Creek DXpeditions! The PDF-format DBS is incredibly inexpensive and extremely useful. At only US\$7.00, the electronic Domestic Broadcasting Survey continues to be the "best buy" of any hobby resource on the market today. I can highly recommend ordering a copy.

Samples from Domestic Broadcasting Survey 6:

C 4765 100 COG R Congo, Brazzaville 0430-0700 1700-1830v F/Vn. F ID: "Radio Télévision Nationale Congolaise, Brazzaville", "Radio Congo, Chaîne Nationale". Sporadic broadcasts. Ck 5985 9610 SEP03

A 4770 50 NIG R Nigeria, Kaduna Kaduna 2: 0430-2300 E/Hausa/Fulfulde/Kanuri/Nupee, N on the hour with E at 0500

1100 1600 1700 and 2255, at 1900 Fulfulde and Kanuri. ID: "NBC" APR04

C 4773,8 5 EQA R Centinela del Sur, Loja, Loja 1100v-1400 1645-1800 2300-0330v S, ID: "C-D-S" or "CDS Internacional". Off Nov 2002-Nov 2003. Ex 4770 FEB04

A 4775 1 B R Congonhas, Congonhas, MG [Oct-Feb] 0830-2400v P. Usually with Evangelical px MAR04

A 4775 50 IND AIR Imphal Northeastern Sca: 0025-0215 1030-1700/1730 E/Hindi, E nx 0035

1225(local) 1530, ID:"Akashvani Imphal", (= 7150) APR04

A 4775 0,5 PRU R Tarma, Tarma, JuninW 1000-1400 2000-0400, Su 1100-1400 2000-0400 S MAR04

A 4775 50 SWZ TWR, Mpangela Ranch International broadcasts: 0340-0500 APR04

D 4777 100 GAB Rdif TV Gabonaise, Libreville Reactivated March 2003, r 1730-1900* F MAY03

B 4780 1 GTM R Cultural Coatán, San Sebastián Coatán, Huehuetenango 1030v-1500 2200-0230v S/Chuj, ID: "Rádio Coatán" FEB04

C 6329,1 0,8 PRU R La Voz de El Faique, Distrito de Faique, Cajamarca r 2353-0235* S MAR04

A 6350 10 ETH Voice of the Tigray Revolution, Mek'elé, Tigray, MF 0400-0500, SS 0400-0900, MF 0930-1030, Sa 1100-1730, Su 1100-1630, MF 1500-1900 Tigrinya // 5500 APR04

B 6350 3 HWA AFRTS, Lualualei, Pearl Harbor 0600-1600 E (USB), ck 10320 APR04

B 6380 - VTN R Lai Châu BS 2, Lai Châu 2200-0100 0400-0600 1100v-1400v Vietnamese/H'Mong/Nung/Miao/Yao. Opens 5 min before the Hour with

gentle, repetitive music played on strings and woodwind, d -6378,6 - 6381 FEB04

C 6895,4 0,25 PRUR La Voz de San Miguel, San Miguel El Faique, Pampa 2000-0100v S, sl.: "Radio R.S.," "R. La Superior," "La Super Alegre Radio"; ex La Nueva R Superior AUG03

B 6900 5 TUR Turkish State Meteorological Service, Ankara 0500-0950 1200-1645 Turkish FEB04

A 6937 50 CHN Yunnan PBS 2, Kunming, Yunnan Minorities Sce: 2245-0300 0630-0835 1100-1500 C/Lahu/Jingpo/Lisu/Dehong Dai, Xishuangbanna Dai. C ID: "Yunnan renmin kwangpo dientai", d - 6936,6 FEB04

B 9730 50 BRMR Myanmar, Yangon, Yegu (SS 0245-)0330-0700 Bamar, 0700-0830 E, (= 5985 7185), d 9729,7 -9730,8 FEB04

B 9750 100 CHN China Business R, Xi'an, Shaanxi 1300-1600 (Apr-Oct 1100-1300 1400-1600) C // 3985(ID) 7335 (= 9480 15570) NOV03

B 9730 100 CHN China National R 8, Xi'an, Shaanxi Apr-Oct: 1300-1400 Tibetan // 9755, ck 6010(ID) APR03

B 9735 100 TWN CBS, Kouhu News Network: 0900-1300 C // 7105(ID) 7310 7365 9790 NOV03

B 9736,9 100 PRG R Nacional del Paraguay, Asunción 0800v(Su 0900)-0300v S, ID: "Rádío Nacional del Paraguay, Emisora Nacional del Estado Paraguayo". n 9735, d 9736,2 - 9737,8. Off April 2003-February 2004 APR04

B 9743,6 10 INS RRI Sorong, PP RRI Cabang Muda : 0115-0800 Bahasa Indonesia, often relays RRI Jakarta // 9680 11860; (= 4874,6) FEB04

B 9745 60 BHR R Bahrain, Ras Hayan General Px: 24 h A; ck 6010(IDs) APR04

W4235 -IRQ Voice of Kurdistan Toilers, Al-Sulaymaniyah, No. Iraq [Apr-Sep] 0300-0345 1500v-1600v Surani Kurdish, ID: "Airā Dengi Zahmatkeshan-e Kurdistanā". 0345-0600 1600-1700 A, ID: "Sawt-o Khark-i Kurdistan"; d 4233,9-4235,4; ex 4245. Produced by the Iraqi Kurdistan Toilers Party. MAR04

Z 4250 - IRN Voice of Strugglers (Mojahedin) of Iranian Kurdistan, Al-Sulaymaniyah, No. Iraq [Apr-Sep] 0300-0345v 1700v-1745v Surani Kurdish, ID: "Airā dangi Khabati Kurdistanī Irana" and "Dangi Khabati Kurdistan"; 0345-0400 1745-1800 Farsi; ex 4250,8 4277; jammed FEB04

Z 4380 50 IRN Voice of Iranian Revolution, possibly via Northern Iraq [Apr-Sep] 0330-0430 1500-1600 Kurdish // 3880v (ID + details) 6420v, d 4365,4-4380,8 jumping 5 kHz. Jammed MAR04

Word from Ye Editor

Many thanks to all who have contributed. Keep the articles coming. Our need for fresh material is continuing.

Not only have I been incredibly busy this spring with work and travel, but my beverage antennas have been down periodically due to excessive winds and

vandalism. I have not yet had time to fix the latest wind damage to the 315 degree antenna, I am afraid fixing the roof took priority! Thus, I have not been able to submit loggings one a regular basis. Its over 90 today, summer time heat is here already. Good old Kansas!



Technical Topics

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

NASWA Files BPL NPRM Comments

By the time you read this column, the FCC will likely have closed the reply comment-filing window on the BPL NPRM. Barring an extension by the FCC, reply comments were due to the FCC by June 1.

For the historical record here are comments as filed by NASWA on May 3, 2004:

The North American Shortwave Association (NASWA) represents the interests of people in the United States who rely on free access to international news and cultural programming via short-wave radio broadcasts.

NASWA Understands FCC Objectives

NASWA understands the FCC's desire to allow market forces to provide price competition to broadband services like BPL, DSL and broadband cable TV. NASWA also understands that the FCC recognizes its obligations under existing regulations to protect licensed services from harmful interference by Part 15 devices and systems such as BPL.

International Regulations

The FCC is required to observe the rights of other nations to broadcast without interference to listeners in the United States on frequencies allocated by the International Telecommunications Union (ITU) exclusively for this purpose. The United States is a member of the ITU, an international organization within the United Nations system. The USA is a signatory to the most recent International Radio Regulations convention.

ITU Radio Regulation 4.11 reads: "Member States recognize that among frequencies which have long-distance propagation characteristics, those in the bands between 5 and 30 MHz are particularly useful for

long-distance communications; they agree to make every possible effort to reserve these bands for such communications. Whenever frequencies in these bands are used for short-range or medium-distance communications, the minimum power necessary shall be employed."

ITU Radio Regulation 15.12 reads, "Administrations shall take all practicable and necessary steps to ensure that the operation of electrical apparatus or installations of any kind, including power and telecommunication distribution networks, but excluding equipment used for industrial, scientific and medical applications, does not cause harmful interference to a radio-communication service and, in particular, to a radionavigation or any other safety service operating in accordance with the provisions of these Regulations."

ITU regulations allocate certain frequency bands between 5.9 and 26.1 megahertz for the exclusive use of international broadcasters. Early testing by the National Telecommunications and Information Administration (NTIA) and the American Radio Relay League (ARRL) has shown some BPL systems will interfere with international broadcast transmissions. The ITU regulations require the FCC to *prevent* harmful interference from Part 15 devices and systems, not just "mitigate" interference. (Mitigate: vt 1. to cause to become less harsh or hostile; 2. to make less severe or painful.—Webster's New Collegiate Dictionary)

NASWA supports the NTIA position that international broadcasting must be protected from harmful BPL interference. The USA expects other countries, targeted by Voice of America (VOA), Radio Marti, and other Radio Free (*insert name of target*)

services, will protect such broadcasts from interference. The USA is obliged to provide reciprocal protection. NTIA recognizes this need as evidenced by this excerpt from their BPL Phase 1 study report, (Appendix C, Para. C.2.6):

“While the intended receivers of the VOA’s transmissions generally are abroad, there are numerous broadcasting receivers owned and operated by foreign citizens and government personnel in the United States that could be susceptible to BPL interference because of proximity to power lines. Protecting other administrations’ broadcasting is critical because of reciprocity. The current ITU-R B-03, Seasonal Broadcasting Schedule, shows multiple administrations broadcasting to the United States for every timeframe within a 24- hour period.†

“The 18 bands allocated to the Federal Government for broadcasting service in the HF portion of the spectrum are listed in Table C-11. Because of frequency reuse capabilities inherent in HF broadcasting, one should expect that broadcast receivers located in the United States are tuned within these bands.”

† Broadcasting Board of Governors Response to NTIA Memo, *Questionnaire Regarding Equipment and Operations in the 1.7-80 MHz Frequency Range*, November 7, 2003.”

The FCC Proposal Is Impractical

In its NPRM the FCC acknowledges that the present Part 15 emission limits will often be inadequate to protect listeners to the International Broadcast Service from BPL interference. The FCC’s expectation of interference is supported by test evidence submitted by the NTIA and ARRL in filings in this and the NOI Docket 03-104 proceeding. Instead of addressing the interference issue directly by adopting either of NASWA’s previous recommendations in response to the NOI Docket 03-104, the FCC proposes a complex and, what NASWA considers to be, impractical procedure to hopefully minimize the impact of the interference. (NASWA previously recommended that Part 15 radiation limits be tightened to avoid interference to the International Broadcast Service or BPL transmissions be relocated to frequencies outside the HF range.) The FCC’s failure to address the root problem will eventually result in the failure of BPL as a viable competitor for DSL and cable TV broadband. That is not what NASWA, the BPL industry, nor the FCC desire.

The FCC’s proposed procedure is impractical for the following reasons:

The FCC proposes to impose on the victim the burden of identifying, reporting, proving and following up on complaints

Table C-11: Frequency Bands Allocated to the Federal Government for Broadcasting Service in the 1.7-80 MHz Band

Frequency (kHz)	BW (kHz)	Frequency (kHz)	BW (kHz)	Frequency (kHz)	BW (kHz)
5900-5950	50	11650-12050	400	15600-15800	200
5950-6200	250	12050-12100	50	17480-17550	70
7300-7350	50	13570-13600	30	17550-17900	350
9400-9500	100	13600-13800	200	18900-19020	120
9500-9900	400	13800-13870	70	21450-21850	400
11600-11650	50	15100-15600	500	25670-26100	430
Total Bandwidth (BW) = 3,720 kHz					

of interference. In this case the victim is the largely non-technical international broadcast listener. In theory, once notified, the BPL service provider must quickly activate dynamic frequency agility in order to move the energy to a frequency that does not cause interference to the entity that complained. Of course the energy may now be interfering with another user of the HF spectrum who will then complain. An endless feedback loop could thus be formed. Each complaint will result in a change to the energy-density spectrum and each change could result in a new complaint.

As a class, international broadcast listeners are not technically astute. Most listeners know only how to pull up the whip antenna on their radio, activate the "on" switch, select the frequency they want to listen to, and adjust the volume. Unlike amateur radio or professional operators, who are required to demonstrate a certain level of technical competency in order to obtain an FCC license or employment, international broadcast listeners are not licensed (nor should they be) and cannot be expected to know the interference they are receiving has the identifying signature of a BPL signal. If such technically naïve persons are able to figure out to whom to complain, it is inevitable that their complaints will often be in error. The result will be skepticism, disbelief, and denial by the BPL industry. The cost to investigate erroneous interference reports will be borne by either the BPL industry or the FCC or both. The burden of proof will be on the unskilled listener to demonstrate to the BPL provider or the FCC enforcement function that the interference claim is valid. To expect unskilled listeners to prove that BPL is the cause of their interference problem is unreasonable and makes the FCC proposal impractical. A better solution must be found.

International broadcasters change frequencies as a function of time of day, season of the year, and time within the eleven-year solar sunspot cycle. If the FCC insists on implementing its proposed approach, BPL providers will incur significant costs as

they react to these changes in real time. If BPL is ever to become a viable alternative to cable and DSL broadband access, operating costs must be minimized. The FCC's proposal has the opposite effect. To be effective, the FCC's proposed rules must require BPL operators to incur increased costs by mandating near-real-time response to interference complaints and a staff standing by the telephone to receive and act upon such complaints.

If the FCC insists on implementing its proposed approach, the FCC must mandate a specific response time for interference complaints to be resolved. In the NPRM the FCC proposes no particular response time for the BPL provider to react. Any interference to international broadcasting is illegal under both international radio regulations and the FCC's own Part 15 regulations. The BPL provider could delay its response indefinitely as they tell the victim that the problem is being investigated or that the interference is not coming from their BPL signals. The response time should be as fast as possible. Ten minutes is suggested as a reasonable time delay for correction of a problem. If the problem is not corrected within the specified time, the BPL service must cease operation, as required by the FCC Part 15 regulations, until the problem can be corrected or a third party arbitrator can make a responsibility determination.

If the FCC insists on implementing its proposed approach, fines must be prescribed in the FCC Part 15 regulations to enforce timely response to interference complaints. NASWA suggests fines up to \$10,000 per day per complaint not resolved within the prescribed time limit would be sufficient incentive to the BPL industry to respond in a timely way. This suggested fine amount is consistent with fines levied upon licensed services that violate FCC regulations.

If the FCC insists on implementing its proposed approach, the FCC must mandate that industry "customer service" representatives and technicians be on duty 24 hours per day and 7 days per week to take interference

complaints and be able to quickly activate frequency agile technology to eliminate the interference.

BPL industry "customer service" representatives must be fluent in major foreign languages as many who rely on international radio broadcasts in the USA are not fluent in English. The cost to the BPL providers of such overhead and the general lack of foreign language fluency in the USA labor pool makes the FCC's proposed procedure impractical.

The FCC does not propose any third party entity to arbitrate disputes. If the FCC insists on implementing its proposed approach, it is likely that the enforcement function of the FCC will become that *de facto* arbitrator. The FCC will become burdened with such complaints when BPL systems proliferate and BPL providers, themselves overloaded with complaints, fail to respond in a timely manner. The additional burden on the FCC enforcement function will raise the cost to the taxpayer and possibly raise FCC user fees to the BPL industry as the cost of enforcement is transferred to the industry that is causing the added expense. Such disputes will make implementation of the proposed procedure burdensome to all concerned, impractical and expensive.

Many international broadcast listeners are tourists, foreign students or immigrants to this country with limited English language ability. These people use short-wave radios to keep in touch with events in their country of origin by listening to foreign broadcasts in their native language. These victims of BPL interference cannot be expected to arm themselves with knowledge about BPL interference signatures, industry data base(s), identities of local BPL providers, where to call to register a complaint, or to whom to appeal when no action results from their complaint. NASWA believes that is asking too much of people who are not proficient in BPL technology, the English language, or FCC procedures.

The FCC has elected not to standardize the modulation format for BPL transmission.

The spectral signature of BPL interference will be different for each type of modulation. There will likely be as many interference signatures as there are BPL equipment standards. Even if international broadcast listeners could be reached with instructive material to teach them what BPL interference sounds like, the many different BPL interference signatures will make it impossible to conduct such training on anything other than a local level. It is likely that power companies or third party BPL service providers will not be particularly interested in conducting such training for the general public in their service areas.

Many international broadcast listeners use portable receivers when traveling around the USA. Such listeners cannot be expected to know the contact information for reporting BPL interference in each area they travel through. The proposed procedure is impractical.

Can BPL Broadband Access Replace International Broadcasting?

Some may argue that the broadband access provided by wide deployment of BPL will allow listeners to access overseas media via the Internet so they will not need international broadcasting to provide a link. Today, access to foreign broadcasts is free for the price of a portable short-wave radio selling in the neighborhood of \$100 or less. The suggestion that students or immigrants, often living at or near the poverty level, should be forced to subscribe to an Internet service to receive programming they now get for free is unfair and discriminates against many of the poorest people in our society. The suggestion that tourists need to lug a computer with them to listen to the news in their native language is also unrealistic. Some listeners prefer to listen to international broadcasts while traveling in their cars. There is presently no way to access such broadcasts via broadband services including BPL from a moving automobile.

The Best Solution

In view of the impracticality of the procedure proposed by the FCC in the NPRM, NASWA suggests that the FCC withdraw the subject NPRM, revisit the issue, and address the actual problem. The problem is that current Part 15 radiation limits are insufficient to prevent BPL interference to duly authorized international broadcasters operating on ITU-protected frequencies between 5.9 and 26.1 MHz on receivers of a type normally used and marketed in the USA for in-home or mobile reception.

There are two possible technical solutions. One possible solution is for the FCC to mandate that BPL systems permanently suppress the use of all frequencies that are allocated by the ITU for international broadcasting. Because every user of the HF spectrum will likely request similar protection, few frequencies would remain below 30 MHz for use by BPL services.

The second possible solution, and the one which NASWA prefers, would be to confine BPL emissions to frequencies above 30 MHz with appropriate notches in the spectrum to protect specific local public safety and broadcast allocations. Entire bands covering aeronautical, amateur radio, space research, marine, government, industrial, and radio astronomy allocations must also be protected with broadband notches. For example, in a given area only about half the VHF television channels are occupied at most. In the 1940's when the current VHF allocation table was devised, TV sets had poor adjacent channel selectivity. Thus many VHF TV channels lie vacant, a waste of precious spectrum. Modern TVs must reject adjacent channel signals in order to be compatible with cable TV systems that use all VHF channels. Modern TVs are tolerant of BPL signals radiating on these vacant channels. Five vacant 6 MHz channels, out of the 12 VHF channels available, would allow a BPL provider a bandwidth of 30 MHz and largely obviate the need to use any HF frequencies. Even in the crowded Washington DC-Baltimore, Los Angeles, or New York City

TV markets, channels 3, 6, 8, 10 and 12 are available for BPL. That is 30 MHz of wasted available bandwidth that could be used for interference-free BPL signals.

Unlike HF users, who change frequencies often, frequencies of VHF services are stable over time. Because VHF allocations do not shift with time of day, season of the year, or state of the eleven-year solar sunspot cycle, there would be no need for the BPL provider to establish a costly system of dealing with interference complaints in near-real time. Once notches are established for a specific local area, there should be little need to change them for years. BPL providers could then avoid most of the cost of dedicating personnel to operating dynamic, frequency-agile systems in real time in response to telephone complaints and international broadcaster frequency changes. By minimizing operating costs the BPL industry will be more likely to achieve the FCC's desired result by becoming economically viable competitors to broadband cable and DSL services.

Respectfully submitted,

Richard A. D'Angelo
Executive Director
North American Shortwave Association
45 Wildflower Road
Levittown, PA 19057

My thanks to the NASWA team that refined the NASWA submission into a document of which we can all be proud.

The National Association of Shortwave Broadcasters (NASB) has supported our submission in their reply comments. At least one BPL proponent has taken exception to our requirement for 24/7 coverage. The National Association of Broadcasters (NAB) wants BPL limited to frequencies below 50 MHz. Public safety representatives don't want BPL between 30 and 50 MHz. All HF and VHF spectrum users are adopting a "Not In My Back Yard" approach. The plot thickens. Stay tuned.



Scoreboard

Gary R. Neal • P.O. Box 780894 • Wichita, KS 67278-0894 • grneal@earthlink.net

This month we are highlighting our members totals from Asia. This is your chance to show everyone how well you are doing. The next deadline is August 15th for the September 2004 issue of the *Journal*. The spotlight will be on Oceania.

Name, State	Total		Asia		Best Asia QSL
	c/H	c/V	c/H	c/V	
Marlin Field, MI	244	244	68	68	RRI, Serui, Irian Jaya (500 w.)
Jerry Berg, MA	244	244	70	70	Em. De Radiodifusao de Timor
Tom Williamson, ON	243	230	66	60	R. Hong Kong
John L. Sgrulletta, NY	240	240	69	69	AIR-Gangtok, Sikkim 3390 kHz
Harold Cones, VA	234	232	65	64	BBCS Bhutan
Steven R. Lare, MI	234	216	69	63	Bhutan
Rich D'Angelo, PA	225	221	63	61	R. Afghanistan
Chris Lobdell, MA	224	221	58	57	AIR - Port Blair
Sheryl Paszkiewicz, WI	224	215	63	58	Burma Broadcasting
Jerry Klinck, NY	220	202			
Paul Buer, FL	218	207	56	53	The Voice of Peace (400 w.)
Ron Howard, CA	212	200	61	56	Azad Kashmir
Jerry Johnston, KY	209	138	56	33	AIR-Andaman Islands
George Maroti, NY	204	195	59	56	Bhutan
Stephen Price, VA	193	174	59	54	Burma
Ross Comeau, MA	192	168	49	45	VO Meteorology
Allan R. Loudell	192	167	53	46	Goa
James R. Renfrew, NY	187	156	47	41	Cambodia
Gary W. Froemming, AZ	184	44	49	7	BSF Time Station (Taiwan)
Bob Raymond, NH	175	150			
Scott R. Barbour, NH	156	99	45	26	AIR Port Blair
George L. Glotzbach, NM	154	136	46	39	193 rd Special Ops Wing-Afgh.
Scott C. Newman, IN	148	113	33	22	V. of Mongolia
Jilly Dybka, TN	145	108	36	20	R. Pyongyang
Paul Brouillette, IL	141	118	29	25	BPM-China
Gary R. Neal, TX	134	123	38	34	Voice of Hope, Lebanon
Edward G. Stroh, IL	132	102	30	22	V. of Vietnam
John Mosman, WI	120	120			

WANTED: I am looking for a Sony ICF-SW-100S portable receiver in good condition. I'm also looking for a copy of the "Transmitter Documentation Project" in book form. If you have either of these items, please contact David McLaren, 1904 1st Avenue, #40, Rock Falls, IL 61071.

Listener's Notebook

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

ALBANIA *Radio Tirana* Summer 04:

0145-0200 English 6115 7160 Tu-Su
0231-0300 English 6115 7160 Tu-Su
0630-0800 Albanian 7110
0801-0900 Albanian 7110
1800-1830 Italian 7240 Mo-Sa
1845-1900 English 7210 9520 Mo-Sa
1900-1930 French 9520 Mo-Sa
2030-2200 Albanian 7295
2115-2130 Serbian 6135 Mo-Sa
2130-2200 English 7130 Mo-Sa
2300-0030 Albanian 7270

(via Drita Cico, Radio Tirana/Gupta-IND/Cumbre DX)

ANGOLA 7215.00, *Radio Nacional*, Luanda, 1750-1800, PP sports program, very good on Apr 24, // to 4950. Must be a new transmitter or something: very strong and spot on frequency. A major improvement—often barely heard here. (Vashek Korinek-AFS, DXplorer May 3/BC-DX Top News/Bueschel-DE)

ARGENTINA From yesterday morning [May 13], *RAE Radiodifusion Argentina al Exterior* is totally inactive, the coaxial cable that connects the RAE studios with the General Pacheco site has been stolen. The station will remain inactive until reinstallation. (Gabriel Ivan Barrera-ARG, BC-DX May 14/Bueschel-DE)

ARMENIA *Voice of Armenia*

1500-1645 Armenia 4810 11640
n

(Observer-BUL)

AUSTRALIA Some changes of *Radio Australia* in English: 0600-1057 NF 13630 0500-0757 NF 15160 (Observer-BUL)

HCJB-Australia A'04 Updated Schedule

0100-0300	English	15560
0300-0330	English	15560 Su
0300-0330	Urdu	15560 Mo-Sa
0800-1100	English	11750
1230-1330	English	15405
1330-1400	English	15405 Su
1330-1400	Urdu	15405 Mo-Sa
1400-1415	Hindi	15405
1415-1430	Punjabi	15405 Mo
1415-1430	Nepali	15405 Tu
1415-1430	Tamil	15405 We
1415-1430	Chattisgar	15405 Th
1415-1430	Hmar	15405 Fr
1415-1430	Meetei	15405 Sa
1415-1430	Hindi	15405 Su
1415-1730	English	15405

(Gupta-IND/Cumbre DX)

BAHRAIN 6125 / 15500 Coalition broadcasts. New psyoperation transmission.

Re: Those Coalition broadcasts at 0300-0800 on 6125 and 1400-1900 on 15500 (see DXplorer message of Apr 21) have apparently begun on a low power basis (250 watts).

I've noted something like Arab or Farsi singing at 1552-1557+ on 15500. (Vlad Titarev-UKR, DXplorer May 1)

Yes, it's still there at 1750. AM with suppressed LSB. Long and deep fades. Also heard UNID Arab station on 15360 kHz between 1100-1200. (Mauno Ritola-FIN, DXplorer May 1)

Registered for future usage. 1100-1200 UT. 15360 Merlin brokered, Rampisham 500 kW 85 deg towards Northern NE 1400-1700 UT. 15500 Merlin brokered, Rampisham 500 kW 105 deg towards ME. (Bueschel-DE)

The Maritime Liaison Office (MARLO) in Bahrain has announced that Coalition maritime broadcasts began SW HF radio broadcasts on 15 April, disseminating "popular regional and international music" as well as information in Arabic, Persian, Hindi, Pashtu, Urdu, and English.

Mariners can listen to the morning bc between the hours of 0300-0800 on 6125 kHz and the evening broadcast between 1400-1900 on 15500 kHz. (RNW MN NL, 27 Apr/DX Listening Digest/Hauser-OK/BC-DX Top News/Bueschel-DE)

CENTCOM DXing.info has received confirmation that the U.S.-led coalition indeed began shortwave broadcasts in mid-April, as previously announced by the U.S. Navy Maritime Liaison Office (MARLO). "I have spoken with coalition officials, and the broadcasts did indeed commence on 15 April," says Liaison Officer Ken Gazzaway of MARLO in Bahrain. The purpose of the broadcasts is to urge listeners to report terrorist activity conducted at sea. Transmissions originate from vessels operating in the Gulf of Oman and North Arabian Sea. Low transmitter power—currently only 250 watts—explains why DXers have not been able to monitor the transmissions. "We have received confirmation from listeners in the Mediterranean area that they have received the transmissions, but because of the propagation of the transmissions skip zones are inevitable," Gazzaway explains.

Negotiations are underway to transfer the transmissions to Merlin Communications out of the United Arab Emirates or the United Kingdom, but no final agreement has been reached. This would greatly increase transmitter power and improve reception quality. The morning broadcast is at 0300-0800 UTC on 6125 kHz, and the evening broadcast at 1400-1900 UTC on 15500 kHz. About 90% of the broadcasts are regional music. There are periodic announcements in Arabic, Farsi, Hindi, Pashtu, Urdu, and English that explain how listeners can contact the coalition if they have any information to report on suspected terrorist activity.

The announcements also detail the Rewards for Justice program. Under the program, the U.S. offers rewards for information that prevents or favorably resolves acts of terrorism against the U.S. The mission of the Maritime Liaison Office (MARLO) is to facilitate the exchange of information between the U.S. Navy and the commercial shipping community in the U.S. Central Commands area of responsibility. MARLO operates as a conduit for information focused on safety of shipping and is committed to assisting the commercial shipping community. A MARLO announcement about shortwave broadcasts was first spotted by Jeff Weston on BDXC-UK.

Naval transmitters were used for coalition broadcasts already during the Iraq war, when DXing.info was the first to publish details of this operation in the article US steps up propaganda war. (DXing.info, April 29/Australian DX News/ARDXC)

BELGIUM *Maeva FM International* has appeared as a regular analogue transmission in the TDP online schedule <http://www.airtime.be/schedule.html>: Saturdays 1300-1500 on 5975 (via DTK Juelich, Germany 100kW). Program language is Dutch; the station's websites are <http://www.maevafm.be> and <http://www.maevafm.com>. (Bernd Trutenau-LTU/Cumbre DX)

BOLIVIA 4716.73 *Radio Yura*, 0932-1025, Non-stop pleasant and somber local CP mx. 0951 finally live W anncr (in Quechua??) same as heard in the past. Possible mention of camposino. Into CP band mx from 0952-1003. W again briefly at 1003, and then from 1006-1008 w/nice ID and also poss. ment of educacion. Back to nonstop Huayno mx. Dropped down quickly after 1015 and gone, for all intents and purposes, by 1025. (Valko 16 April/Cumbre DX)

4763.28 *Radio Chicha*, Tocla, 1055-1110, May 25. Spanish/Aymara. S/on. ID by W: "Radio Chicha..." and ID by male in Aymara. Ann.: "vamos a tener la presencia de mucha gente en la comunidad de Tocla...Buenos días Rio Blanco...Buenos Días Mocotata, a los mocotateos tambien quermos saludar con musica de nuestra patria," local music (Slaen-ARG/Cumbre DX)

BOTSWANA I have just spoken to Mr. Kingsley Reetsang, Chief Engineer of *Radio Botswana* regarding their absence from SW. He explained to me that they used to have 3 very old valve transmitters and over the years they used up 2 of them for spare parts for the last one. Now a valve on the last one failed and, because of the age of the transmitter, a new valve has to be custom made.

They would like to remain on SW and they are currently contemplating whether to order the valve or whether to get a new (solid state) transmitter. In either case they don't expect to be on SW for a number of months.

My PERSONAL opinion is that SW will not be a priority for them as the country seems to be well covered by MW transmitters, and the chances of Radio Botswana returning to SW is probably not better than 50/50. (Vashek Korinek-AFS, DXplorer / dswci DXW May 5/BC-DX Top News/Bueschel-DE)

BRAZIL 4895 *Radio IPB Novo Tempo*, Campo Grande, MS. New name!!!! 0850-0920, April 03. Portuguese transmission. Religious talk by two men.- Cristian musica. Announcement: "Novo Tempo, Novo Tempo." The speaker talk about a biblical curse: "Encontro con a vida." Ann. & ID at 0917: "...na Radio IPB Novo Tempo...;" other ann.: "a programacao do todos os sabados do Radio Novo Tempo..." The speaker give a phone number and a web in Internet.TC. (Slaen, Argentina/Cumbre DX)

Radio Boa Vontade - Porto Alegre. I just received an e-mail from Jose Joaquim Martins Rodrigues (Gerente Administrativo) <rbv1300am@hotmail.com> informing me that Radio Rio Grande do Sul (1300, 6160, 9550 and 11895 kHz) has changed the name to Radio Boa Vontade. I'm sure that this is just another variant of Radio Mundial LVB. In any case, their address remains the same as in WRTH 2004 and their phone numbers are 051 3325 7019 and 051 3374 0203. The website is <www.redeboaventade.com.br> (Vashek Korinek-AFS, DXplorer May 8/BC-DX Top News/Bueschel-DE)

CANADA *Radio Canada International*

0000-0030	Spanish	11825 11990 13725
0000-0100	English	9640 9755 11990 13710 15205
0130-0200	English	9755 11990 13710
0200-0300	English	15510 17860
0230-0300	Arabic	5940 9635 11835
0330-0400	Arabic	7125 9645 11900
1200-1300	English	9660 15190
1200-1500	English	9515 13655 17800 Mo-Fr
1300-1530	French	13785 17820 Mo-Fr
1300-1600	English	9515 13655 17800 Sa/Su
1400-1600	French	13785 17820 Sa/Su
1500-1530	Russian	6055 9920 11935 15325
1500-1600	English	15455 17720
1530-1600	Ukrainian	11935 15325

1600-1630	Russian	11935 15325	0000-0100	Spanish	17720X1 15120Cuba
1800-1900	English	9530 11770 13730 15255			11650X1 5990Cuba
1900-2000	French	5850 5995 7235 13700	0100-0200	Amoy	17680B4 15100X1 11945K2
		15325 17870			9550K3 9460K2 7180K1
1915-1945	Arabic	11965 15200 17820			6140K
2000-2030	Portug.	15255 17765 Fr	0100-0200	English	9790C 9580Cuba
2000-2100	English	5850 7235 11690 13700	0100-0200	Russian	5905kas
		17870	0100-0200	Spanish	17720X1
2000-2100	French	5995 11965 15325	0200-0230	Tamil	15260K2 13715kas
2130-2230	French	15300 17880 Mo-Fr	0200-0300	Chinese	17680B1 9690E 9580Cu
2200-2230	English	5960 13785 15170	0200-0300	Spanish	17720X1 13685G
2200-2230	Chinese	9525 11910 12035	0230-0330	Nepalese	15320X1 13790K6
2200-2300	French	15300 17880 Sa/Su	0300-0400	Chinese	9720G
2200-2300	French	9390 11755	0300-0400	Engl-NA	9690E
2230-2300	English	9525 11810 12035	0300-0400	Spanish	9560C 9665Brazilia
2230-2300	French	15300 17880	0300-0400	Russian	17740X1 17710B2 15435B1
2230-2400	English	5960 13785			5905kas
2300-2330	Spanish	11825 15455	0400-0500	Engl-NA	9755G 9560C 6190C
2300-2330	Chinese	9525 11715 11810 13660	0500-0600	Engl-NA	9560C 6190C
		15360	0500-0700	German	17720U3 15245U1

(RCI sked + Westenhover-PQ/BC-DX/Top News/Bueschel-DE)

CENTRAL AFRICAN REPUBLIC Staff at *Radio Centrafrique* are falling ill because of their awful working conditions. They reported on March 30th that a presenter and technician had been rushed to hospital after being taken ill in the studio due to a broken-down air conditioner. Outdoor temperatures are currently around 28c, relative humidity up to 91%. They are using equipment that is nearly 50 years old and highly unreliable, and the breakdown of the air conditioning is the last straw for its beleaguered staff, whose ingenuity and improvisation has kept the station on the air. That is despite the fact that their salary payments are many months in arrears.

Radio Centrafrique's director, Delphine Zouta, has already warned that the station could be forced to stop broadcasting unless its facilities are modernised. "It's a catastrophic scenario," she said. "We are moving towards elections, due in December 2004. This is a delicate period. We ask the authorities to intervene in this situation so that national radio does not go off the air. People need this very important tool for this country's development." (RNW MN NL, via WDXC Contact May 3/BC-DX Top News/Bueschel-DE)

CHINA *China Radio International* complete external schedule

[Note: no key to the transmitter sites came with this file, sorry!-AQ]

0000-0100	Chinese	6145Ca	0900-1100	Chinese	17785X1 15340X1 15250K2
0000-0100	Hakka	15400B1 15260X1 15100X1	0900-1100	Eng-SPac	17690JI 15210K5
		11945K2 9550K3 9460K2	0930-1030	Malay	17680K1 15135K1
		7180K1 6140K	0930-1530	Japanese	7190B2
0000-0100	Portuguese.	15420B4 11850G 11650X1	1000-1100	Canton.	17755XI 17670K4 15440K5
0000-0100	Russian	15110B1 9725HU 7110HU	1000-1100	Russian	15110B1 11935JI 9725HU
					9695B4 7110HU
			1030-1130	Cambod.	17680K1 15160X1
			1030-1130	Indones.	15135K1 11700K2
			1100-1200	Canton.	17785X1 15340X1 9590K5
					11750C
			1100-1200	Chaozhu	11875K4 9440K3
			1100-1200	Esperan.	9510X1 7150JI
			1100-1200	Mongol.	15420B1 7110HU
			1100-1200	Russian	15110B1 11935JI 9725HU
			1100-1200	Vietnam.	11990X1 9550X2
			1100-1300	Korean	5965B1
			1130-1200	Burmese	11780X1 9880K1
			1130-1200	Filipino	11700X1
			1130-1230	Thai	9785K4 7360K
			1200-1230	Filipino	12110K 11700X1
			1200-1300	Cambod.	17680X1 9440K3
			1200-1300	Canton.	11855C 9790Cuba
			1200-1300	En-SEAs	11980K3 9795 9730B1
			1200-1300	Eng-SPac	15415K5 11760K6
			1200-1300	Mongol.	15110B1 5990HU 5915HU
			1200-1300	Russian	11850 11670 5905kas
			1200-1300	Vietnam.	11990X1 9550X2
			1200-1400	Chinese	17785X1 15340X1 11875K4
					9570Cuba to1257
			1230-1330	Lao	9785K4 7360K
			1230-1330	Malay	15600K1 11955K2
			1300-1330	Burmese	11780X1 9880k1
			1300-1400	Eng-NA	9650Ca 9570Cuba
			1300-1400	En-SEAs	15180X1 11980K3 11675K6
					9795
			1300-1400	Eng-SPac	11900K5 11810 11760U3
					7405JI

1300-1400	Esperan.	11650X1 9440K3	1700-1800	Russian	13790K5 13655U4 11960X1
1300-1400	Hindi	11675U2 9635kas			11875U6 11780B4 11685B1
1300-1400	Russian	11850 9870B1 9675B2 5990HU 5915HU 5905kas			11650X1 9885B1 9795U5 5905kas
1300-1400	Vietnam.	11990X1 9550X2	1730-1800	Hausa	13670M 11640M
1300-1500	Korean	5965B1	1730-1830	Chinese	11835K8 11760U5 11660Z5 9745K4 9685U1 9645K6
1330-1400	Burmese	11780X1 9880k1	1800-1830	Hausa	13670M 11640M
1330-1430	Indones.	15135K1 11955K2	1800-1830	Persian	9670K5 7140U2
1330-1430	Thai	9785K4 7360K	1800-1900	Chaozhu	11895X1 6010U4
1400-1430	Sinhalese	15145K2 11900JI 7265kas	1800-1900	English	15150 13760 13640 11940 11670
1400-1430	Tamil	11685kas 9665K3	1800-1900	Italian	9945X2 7325kas 7150JI
1400-1430	Turkish	15670K5 15165U2	1800-1900	Russian	11685B1 9795U5 9765Z5 9535F 7245X1 5905kas
1400-1500	Amoy	15340X1 11650X1	1800-2000	German	11775B4 11650U3 7170kas
1400-1500	Cambod.	17710X1 15180X1	1830-1900	Bulgarian	9860JI 9525Z6 7265U1
1400-1500	Engl-SAs	11765U3 11675K6 9795 9610 9560kas	1830-1900	Hausa	11730K5 9570kas
1400-1500	Engl-NA	13740Cuba 13675C 7405JI	1830-1900	Persian	9670K5 7140U2
1400-1500	Engl-AF	15125M 13685M	1830-1930	Arabic	13685M 11640M 11835K8
1400-1500	Mongol.	9870B1 5990HU 5915HU	1830-2030	French	9645K6 11760U5
1400-1500	Nepalese	9600X1 7160B6	1900-1930	Albanian	9965X2 7265U1 7130kas
1400-1500	Russian	11850 5905kas	1900-1930	Czech	9550U2 6020Z6
1400-1500	Vietnam.	11990X1 9550X2	1900-1930	Hungar.	11730JI 9860U4
1430-1500	Sinhalese	15145K2 11900JI 7265kas	1900-1930	Roman.	11670 7305F 6145U2
1430-1500	Filipino	12110K	1900-1930	Turkish	9655K5 7215K5
1430-1500	Tamil	11685kas 9665K3	1900-2000	Canton.	11895kas 9790 9770Z5
1430-1530	Lao	9675K4 7360K	1900-2000	Engl-AF	13760 11940kas 13790K5 9440B2
1500-1530	Bengali	11810K2 9600X1	1900-2000	Port.-EU	11825X2 7335JI
1500-1530	Pashto	11880K5 9665U2	1900-2000	Port.-AF	13630M/11640Mfr1930 9620XI 9535X1 7180X1
1500-1530	Persian	11700K5 9570U4	1900-2000	Russian	11685B1 7245X1 5905kas
1500-1600	Chinese	15220Ca 7265kas 7180X1	1930-2000	Albanian	11730JI 9965X2 7130kas
1500-1600	Engl-SAs	9795 9785JI 9610 9560kas 7160U1	1930-2000	Czech	9550U2 7305F
1500-1600	Engl-NA	15220Ca 13740Cuba 13640	1930-2000	Roman.	6020Z6
1500-1600	Engl-AF	15125M 13685M	1930-2030	Esperan.	9745U1 7265U1
1500-1600	Hindi	9690U5 7235kas	2000-2030	Polish	9760Z6 9550U4 6145F
1500-1600	Nepalese	9535XI 7215K6	1930-2000	Serbian	9585kas 9525Z5 7130kas
1500-1600	Russian	13790Z5 11790U3 11650X1 9870B1 9440 5990HU 5915HU 5905kas	2000-2100	Chinese	13775JI 9865K5 9770Z5 9685K4 7245kas
1500-1600	Vietnam.	11990X1 9550X2	2000-2100	Engl-AF	13760 13630M 11940kas 11640M 9440B2
1530-1600	Bengali	11810K2 9600X1	2000-2100	Engl-EU	11790U3 9600B4 7190kas
1530-1600	Pashto	11880K5 9665kas 9570U4	2000-2100	Russian	9730U5 7255X1
1600-1630	Swahili	12000kas 11600X1	2030-2100	Bulgarian	7160X1 6145F
1600-1630	Turkish	11665U1 11655X1	2030-2100	Hungar.	11775Z6 9585kas 9365B1
1600-1630	Urdu	7175K6 5915kas	2030-2100	Polish	9550U4 7110JI
1600-1700	Arabic	17880M 15125M 11915K6 11730K5 7160kas	2030-2130	Italian	11810U1 9965X2 7180kas
1600-1700	Hakka	11825X1 11750JI 11795U2	2030-2230	French	13630M/11975Mfr2130 11660XI
1600-1700	English	13640 9795 9440			7320R(Samara)to2127 7200U2
1600-1700	Hindi	9690U5 7235kas	2100-2130	Albanian	6145F
1600-1700	Russian	13790Z5 13655U4 11875U6 11780B4 9885B1 5905kas	2100-2130	Engl-AF	13630M 11640M
1600-1700	Vietnam.	11990X1 7360K 6010K	2100-2130	Serbian	9550U2 7160JI
1600-1800	Engl-AF	11940 11900X1 11670 9570X1	2100-2200	Arabic	9725U1 9695K4 7260K8
1630-1700	Swahili	12000kas 11600X1	2100-2200	Engl-EU	11790U3 9600B4 7190kas
1630-1700	Urdu	7175X1 5915kas	2100-2200	Spanish	11775Z6 9640U5
1700-1730	Swahili	15125M 11640M	2130-2200	Hungar.	9570U4 6145F
1700-1800	Canton.	11750JI 9770B2			
1700-1800	English	15150 13640			

2200-2300 Chinese 15400B1 15260X1 11945K2
9765Kas 9695X1 9550K3
9460K2 7265K5 7190U4
7180K1 6140K 5955B5

2200-2300 Engl-EU 9880R
2200-2300 Esperant. 11700B2 9860B2
2200-2300 Portug. 15100B4 11650X1
2200-2300 Spanish 11775Z6 9640U3 7120U4
2230-2300 Chin.-AF 15505M 11975M
2300-2400 Canton. 15400B1 15260X1 15100X1
11945K2 9550K3 9460K2
7180K1 6140K

2300-2400 Chin.-AF 11975M 7170M
2300-2400 Engl-NA 13680C 6040Cuba
2300-2400 Portug. 13650Cuba
2300-2400 Russian 15110B1 9725HU 7110HU
2300-2400 Spanish 11880X1 11650X1

(NDXC-JPN website April 11 2004/Bueschel-DE)

Foreign relays

Radio France International

0100-0200 French 17710X1
1100-1200 French 11600B1
1200-1300 Khmer 11600X1
1400-1400 English 9580
1600-1700 French 6090K1

Radio Exterior de Espana

1000-1200 Spanish 9660B1
1200-1400 Spanish 11910X1

Voice Of Russia

1500-1600 English 11500X1

Radio Canada International

0000-0100 English 15205X1
0200-0300 English 17860X1 15510X1
1500-1600 English 17720X1 15455X1

(NDXC-JPN website Apr 11 2004/Bueschel-DE)

CHINA—TAIWAN 9745 *Voice of Han*, Taiwan. Surprised to hear what I had hoped was this one at 1045 18/4, fairly decent level for ECNA rcpn, talk in CC, a few light pops, a little choir singing. Man said "Bye, bye" at 1058, then singing, big fanfare at 1100, presumed ID by man who could not get it all definitively, into talk, probably nx. I checked their website audio at <<http://www.voh.com.tw/english/top-e.html>> (click "Online Radio Listening," then "Programs for Mainland China") and thought it was parallel, but the website delay was considerable and my computer is in a different room so I couldn't tell for sure. I checked the website audio and there was the anncr. saying "Bye bye" again before the hour, and the website ID at 1100 19/4 exactly matched the on-air ID hrd at 1100 18/4. Info from DXing.info says this is run by the Defense Dept. Judging from the signal, must have some kW's behind it. (Berg-MA/Australian DX News/ARDXC)

COLOMBIA 4933.00 *Radio Familiar Cristiana*, Vereda La Puerta (probably Colombia) 1100 03/2004. This time I have a good recording of the stations QTH but still it is difficult to get all the words. I believe QTH is "Vereda La Puerta." This is the ID with QTH I'm hearing on my recording: "Estamos transmitiendo desde aqui de la Vereda La Puerta a travs de su Radio Familiar Cristiana...." Probably Colombia. (Malm-ECU/Cumbre DX)

CONGO According to a letter from TDC, *Radio Congo* transmits on 5985 0430-0700 and 1700-2300; 6115 0600-0830 and 1700-2030; 9610 0700-1700 (Kolesov-UKR, World DX Club Contact via Barraclough/DX Listening Digest/Hauser-OK)

CUBA Justo Moreno Garcia, technical director of Radio Cuba, announced that this year, six transmitters located in international transmission center No. 1 in Bauta west of the capital are being automated. This will allow *Radio Habana Cuba (RHC)* to recover the spaces that this station had lost in diverse regions of the Americas where its signal used to reach. In this same center, a seventh transmitter is being installed for *Radio Rebelde*, and an antenna system is being assembled. On a tour of the Bauta installation with Juan Carlos Perez Perez, Perez admitted: the equipment was very old and inefficient, and the antenna systems and buildings were "very deteriorated." (Cumbre DX)

ECUADOR HCJB made two frequency changes due to interference in SoAmerica: 2300-0100 Spanish from 11880 to 12000; 2230-2400 High & Low German, 11980 to 12040. (Weaver-HCJB/Graham-HCJB DX PL May 8/DX Listening Digest/Hauser-OK)

Other changes of HCJB:

0330-0430 Russian 11865
2230-2400 German NF 12040 / ex 11980
2300-0100 Spanish NF 12000 / ex 11880
2300-0230 Portug. 12020 / ex 0000-0230 // 11920

(Observer-BUL)

GERMANY Frequency changes for *TWR* via DTK T-systems:

1600-1630 Romani. NF 6105 JUL Sa ex-6175
1630-1700 Hungari. NF 6105 JUL ex-6175

Radio Rhino International Africa cancelled transmissions via DTK T-systems.

United Methodist Church/Radio Africa Int. cancelled all transmissions via DTK T-systems.

Bible Voice Broadcasting Network (BVBN) changes via DTK T-systems:

0000-0100 English 6010 WER Mo-Fr, addit transmission
1500-1600 Hindi 17510 JUL Sun, ex-1530-1600

1545-1830	English	15680 JUL Sat, ex-1545-1800	2000-2100	Hungari.	15185
2230-0130	English	5925 JUL, addit transmission (Observer-BUL)	2030-2100	Italian	3975 6025
			2100-2130	English	6025 11830
			2100-2200	Hungari.	9780
			2130-2200	Spanish	6025 11830
			2200-2300	Hungari.	9850 11990
			2200-2300	Hungari.	6025
			2300-2400	Hungari.	9850 11990 Mo

Re: SWR Germany 6030 & 7265 close June 30—
But maybe not? This also via DXplorer today 21
May:

Hello DXplorers, Mr. Janitz of SWR has just informed another listener via my A-DX list that there are no plans to switch off the transmitters in Rohrdorf and Muehlacker—not for short—and medium-wave and not at all for July. Nevertheless, he admits that this could be possible at some point in the future. Greetings from Salzburg (Ratzer via DXplorer via Kenny, BDXC-UK/DX Listening Digest/Hauser-OK)

GREECE Summer A-04 schedule of *Radiofonikos Stathmos Makedonias (ERA 3)* in Greek

1100-2055 9375
2100-2255 7450

(Observer-BUL)

GUYANA 3291.11 *Radio Guyana* 0515 recent reports appear to be incorrect regarding Guyana off the air. Heard with fair signal using USB (LSB spoiled by ute) with weak audio levels including a child. Can't be entirely sure of content, but split frequency pretty classic for Guyana. (Salmaniw-BC/May 19/Cumbre DX)

HUNGARY Summer A-04 schedule for *Radio Budapest*

0000-0100	Hungari.	9800
0100-0130	English	9590
0130-0230	Hungari.	9570
0230-0300	English	9790
0300-0330	Russian	3975 6025
0330-0400	Spanish	3975 6025
0400-1100	Hung.*	6025 Su
0400-1600	Hung.*	6025 Mo-Sa
1100-1200	Hungari.	6025 Su
1100-1200	Hungari.	21560
1200-1300	German	6025 7220 Su
1300-1400	Hungari.	6025 Su
1400-1500	German	6025 7160 Su
1500-1530	English	6025 9715 Su
1530-1600	Russian	6025 9740 Su
1600-1630	French	3975 6025
1630-1700	Italian	6025 9525
1700-1730	Russian	6025 9650 Mo-Sa
1700-1800	German	3975* 6025 Su
1700-1800	Hungari.	15335
1730-1800	German	3975 6025 Mo-Sa
1800-1900	Hungari.	3975 6025 7235
1900-1930	English	3975 6025 11720
1930-2000	Russian	3975 6025 Su
1930-2000	German	3975 6025 Mo-Sa
2000-2030	French	6025 9585

*relay Kossuth Radio (Observer-BUL)

INDIA It is now confirmed that *Radio Sadaye Kashmir* on 6100 & 9890 is broadcast by AIR Delhi with 100 kW. The timings of Radio Sadaye Kashmir are: 6100 0230-0330 1430-1530 in Urdu etc. 9890 0730-0830 (Jose Jacob-IND VU2JOS, DXindia Mar 24/26/BC-DX/Top News/Bueschel-DE)

Here are the changes for *All India Radio SW Services* for A-04 period.

0000-0045	Tamil	13795 Aligarh (ex Bangalore)
0315-0415	Hindi	15075 via Bangalore 2 x 500 kW
0830-1130	Urdu	9595 Aligarh (ex Delhi)
1000-1100	English	13695 Bangalore (ex 13710)
1000-1100	English	15410 Bangalore (ex 15235 Delhi)
1115-1200	Thai	15410 Panaji (ex 15235), Add 13645 Aligarh
1115-1215	Tamil	13695 Bangalore (ex 13710)
1215-1245	Telegu	13695 Bangalore (ex 13710)
1215-1315	Burmese	11620 Aligarh (ex Delhi)
1315-1415	Dari	9910 Delhi (ex Aligarh)
1415-1530	Pushtu	9910 Delhi (ex Aligarh)
1515-1615	Swahili	Add 13605 Aligarh
1530-1545	English	9910 Delhi (ex Aligarh)
1615-1730	Hindi	15075 Delhi (ex Aligarh)
1730-1945	Arabic	Add 11585 Delhi
1745-1945	English	15075 Delhi (ex Aligarh), Add 11620 Aligarh
2045-2230	English	11715 Panaji (ex 9575), (ex 11715 Delhi)
2245-0045	English	13605 Bangalore 2 x 500 kW
2300-0000	Hindi	13795 Aligarh (ex Bangalore)

(Jacob-IND/BC-DX/Top News/Bueschel-DE)

INDONESIA 3325 *RRI Palangkaraya*, 1136-1141 Mar. 29 good signal with female announcer mentioning Palangkaraya and Indonesia. (Atkins-WA/Cumbre DX)

3905, *RRI Merauke* (pres.), 1003 played "Taps" then rapid-speaking M anncr in IN. Could've been an ID, but the anncr spoke too quickly. Program of nice nonstop Lagu mx. 1029 W anncr in IN. Drums at BoH, and more anmnts. (Valco/16 May/Cumbre DX)

3976.06 *RRI Pontianak*, 1108-1124 Mar. 29 noted with Jakarta news relay // Makassar 4750, and local programming with female announcer 1122. Very good signal. (Atkins-WA/Cumbre DX)

4000.18 **RRI Kendari** 1258-1305. Good with Indo vocals to 1300:35, then into W talk, probably a local pgm. (Wilkins-CO 4/14/Cumbre DX)

4606.4 **RRI Serui**, 1218-1222 Mar. 29 two male announcers in animated discussion in Indonesian, and taking phone calls. Mentions of various Indo cities. Fair to good level. (Atkins-WA/Cumbre DX) 4606.30 1010-1100 Initially noted a man and a woman in Indonesian comments. This continued until 1045 when popular Indo music was presented. At 1059 aman comments briefly followed by news. Signal was poor. (Bolland-FL/3-30/Cumbre DX) 4606.4 1244-1255*. Pop tunes; off suddenly at 1255* with no announcements. Good signal. (Wilkins-CO 4/14/Cumbre DX)

4749.98, **RRI Makassar** (pres.), 1010. Seemingly nonstop Lagu mx. No anmtns noted when I occasionally tuned back. Not very strong and much weaker than 3905 Merauke. Fading after 1030. (Val-ko/16 May/Cumbre DX)

4790 **RRI Fak-Fak**, 1124-1215 Mar. 29 loud signal here with romantic R&B tunes all in English, uninterrupted to Jakarta news relay at 1200. Local "Fak-Fak" ID by male announcer noted at 1208. Some swisher QRM. (Atkins-WA/Cumbre DX)

4869.9, **RRI Wamena** is still inactive. (Schulze-PHL, May 4, DSWCI DX Window May 19/DX Listening Digest/Hauser-OK)

4870v, **RRI Sorong** is heard here irregularly and with lesser power than on ex 4874.6. (Schulze-PHL, May 4, DSWCI DX Window May 19/DX Listening Digest/Hauser-OK) 4870.92 0945-1006 W in Indonesian to 0954 mx, poor. (Bolland-FL, May 28/Cumbre DX)

RRI Sorong was heard with local ID at 1210 on 23 March on 4875 kHz (ex-4870), with quite bad Morse QRM. There was no sign of RRI Wamena on 4870. (Davies-INS/Cumbre DX)

4920, **RRI Biak** has transmitter problems with the modulation during announcements, so it is very difficult to read. Only the music is heard well. Maybe they also soon will be off the air? (Schulze-PHL, May 4, DSWCI DX Window May 19/DX Listening Digest/Hauser-OK)

4925, **RRI Jambi** has been inactive the last days (Schulze-PHL, May 4, DSWCI DX Window May 19/DX Listening Digest/Hauser-OK)

RRI Patu Pro-1 was noted daily 20-26 March on daytime frequency 7235v kHz (currently around 7234.6) at 0000-0800, parallel 1035 kHz and 90.6 MHz. 3960 kHz operates sign on-2400 and 0800-sign off. 7235v has been regularly operating for the past few years, but is seldom reported or listed. Singapore co-channel on 7235 doesn't help its audibility. (Davies-INS/Cumbre DX)

ISRAEL Summer schedule for *Kol Israel* (from Sep. 22, 2004 one hour later):

0000-0325	Hebrew	11585
0300-2115	Arabic	5915
0330-0400	Hebrew	11590
0400-0415	English	11590 15640 17600
0400-1755	Hebrew	15760
0415-0430	French	11590 11605
0500-1000	Hebrew	17535
1000-1010	French	15640 17535
1010-1020	English	15640 17535
1020-1030	Spanish	15640 17535
1030-1400	Hebrew	17535
1400-1500	Persian	15640 17525 17535 Fr/Sa
1400-1525	Persian	15640 17525 17535 Su-Th
1500-1525	Spanish	15640 17535 Sa
1530-1545	French	15640 17535
1545-1555	Spanish	15640 17535
1600-1625	Yiddish	11605 17535
1625-1645	Roman.	11605 17535
1645-1700	Hungar.	11605 17535
1700-1715	English	15640 17535
1715-1900	Russian	11605 15640 17535
1800-0400	Hebrew	15760
1900-1925	English	15615 15640 17535
1930-1945	French	11605 15615 17535
1945-2000	Spanish	11605 15615 17535
2200-2355	Hebrew	13635

(Observer-BUL)

ITALY Frequency changes for *RAI International* (A-04 vs A-03):

0345-0405	Russian	NF 11795, ex-11800
0405-0425	Ukrainian	NF 11795, ex-11800
0505-0525	Lithuani.	NF 11795, ex-11800
0530-0555	Roman.	NF 11795, ex-11800
0620-1250	Italian	NF 7180, ex-11800
1330-1355	Arabic	NF 11905, ex-9670
1335-1355	Albanian	NF 9610, ex-9690
1500-1520	Turkish	NF 11775, ex-11700
1520-1540	Greek	NF 11775, ex-11700
1530-1555	French	NF 11855, ex-11885
1540-1600	Bulgarian	NF 11775, ex-11700
1555-1625	Italian	NF 11855, ex-11885
1605-1625	Russian	NF 11815, ex-11700
1630-1655	Arabic	NF 9645, ex-6185
1630-1655	French	NF 11815, ex-11700
1700-1800	Italian	NF 11725, ex-11795
1910-1930	Somali	NF 9605, ex-9795
1935-1955	English	NF 9605, ex-9745
2025-2045	Arabic	NF 7295, ex-7290
2050-2110	Portug.	NF 7295, ex-7290
2110-2130	Spanish	NF 7295, ex-7290
2135-2155	Arabic	NF 7295, ex-7290

(Observer-BUL)

IRRS/Nexus - International Broadcasting Association for Summer 04:

0700-1200	13840 Sa/Su
1100-1200	15665 Fr
1900-2030	5775

All broadcasts are in parallel with our streaming audio service at <http://mp3.nexus.org>. Please send reports and comments by email to: reports@nexus.org -(Cotroneo-ITL/Cumbre DX)

JAPAN Radio Tampa changed its slogan to **Radio Nikkei** on April 1st and continues its domestic SW service. (Ohtake-JPN/JSWC via DXplorer Mar 30 via BC-DX/DX Listening Digest/Hauser-OK)

JAPAN/SRI LANKA 17595 The Arabic section of **NHK** started broadcasting a special Arabic rx to the listeners in the middle east due to the current events in Iraq. Transmission is via Ekala—Sri Lanka from 1100-1115 UTC on 17595, after the end of the rx the tx is still on till 1130 UTC with IDs in Japanese, English and French. (Tarek Zeidan-Cairo-EGY SU1TZ, BC-DX Apr 17/BC-DX/Top News/Bueschel-DE)

KIRIBATI The message below is from Kautabuki Rubeiariki at **Radio Kiribati**. Would seem that a close watch on 9825khz over coming weeks may be a good idea. (Ian Cattermole SW Report Editor)

"Dear Ian We will resume our transmission soon. The frequency is 9.825 Mhz and is to target the islands in the Line islands. Kautabuki Rubeiariki(Ricky)" (Cattermole-NZ/NZ DX Times/13 May/NZ DX League)

KOREA—NORTH Voice of Korea, Pyongyang, as from May 3rd, 2004:

0000	Chinese	11845 15230 4405
0000	Korean-P	7140 9345 9720 3560
0000	Spanish	11735 13760 15180
0100	English	7140 9345 9720 3560
0100	English	11735 13760 15180
0100	French	11845 15230 4405
0200	Chinese	7140 9345 9720 3560
0200	English	11845 15230 4405
0200	Spanish	11735 13760 15180
0300	Chinese	11845 15230 4405
0300	English	7140 9345 9720 3560
0300	French	11735 13760 15180
0700	Japanese	3250 9650 11865
0700	Korean-P	7140 9345 4405
0700	Russian	9975 11735 3560
0700	Russian	13760 15245
0800	Chinese	7140 9345 4405
0800	Japanese	3250 9650 11865
0800	Russian	9975 11735 3560
0800	Russian	13760 15245
0900	Japanese	3250 9650 11865
0900	Korean	7140 9345 4405
0900	Korean-P	9975 11735 3560
0900	Korean-P	13760 15245
1000	English	11710 15180
1000	English	11735 13650 3560
1000	Japanese	3250 9650 11865
1000	Korean-P	7140 9345 4405
1100	Chinese	7140 9345 4405

1100	French	11710 15180
1100	French	11735 13650 3560
1100	Japanese	3250 9650 11865
1200	Japanese	3250 9650 11865
1200	Korean	11710 15180
1200	Korean	11735 13650 3560
1200	Korean-P	7140 9345 4405
1300	Chinese	11735 13650 3560
1300	English	13760 15245 4405
1300	English	9335 11710
1300	Korean-P	9325 11845
1400	French	13760 15245 4405
1400	French	9335 11710
1400	Korean	11735 13650 3560
1400	Russian	9325 11845
1500	Arabic	9975 11735 3560
1500	English	13760 15245 4405
1500	English	9335 11710
1500	Russian	9325 11845
1600	German	9325 11845
1600	English	9975 11735 3560
1600	French	13760 15245 4405
1600	French	9335 11710
1700	Korean	13760 15245 4405
1700	Korean	9335 11710
1700	Russian	9325 11845
1700	Spanish	9975 11735 3560
1800	German	9325 11845
1800	French	9640 11710
1800	French	9975 11735 3560
1800	Spanish	13760 15245 4405
1900	Arabic	9640 11710
1900	Arabic	9975 11735 3560
1900	English	13760 15245 4405
1900	German	9325 11845
2000	French	13760 15245 4405
2000	Korean	9640 11710
2000	Korean	9325 11845
2000	Korean	9975 11735 3560
2100	Chinese	7140 9345 3560
2100	Chinese	9975 11735
2100	English	13760 15245 4405
2100	Japanese	3250 9650 11865
2200	Chinese	7140 9345 3560
2200	Chinese	9975 11735
2200	Spanish	13760 15245 4405
2200	Japanese	3250 9650 11865
2300	Japanese	3250 9650 11865
2300	Korean	7140 9345 3560
2300	Korean	13760 15245 4405
2300	Korean	9975 11735

Korean-P = PBS program, other Korean broadcasts are KCBS (Piontek-D/Bueschel-DE/BC-DX Top News)

KOREA—SOUTH Radio Korea International schedule

0000-0100	Japanese	11810
0100-0200	Spanish	11810
0100-0200	Korean-2	15575
0200-0300	English-1	9560Sa 11810Sa 15575
0300-0400	Korean-2	11810

0700-0800	Spanish	13670
0700-0800	Korean-2	9535S
0700-0800	German	15210
0800-0900	French	15210
0800-0900	Japanese	5975 7275
0800-0900	English-1	9570 13670
0900-1000	Korean-2	15210
0900-1100	Korean-1	5975 7275 9570 13670
1000-1100	Spanish	9580 11795Sa 15210
1100-1200	Russian	5975 6135
1100-1200	Korean-2	9650Sa
1100-1200	Japanese	7275
1130-1230	Chinese	6065
1200-1300	Japanese	5975 6135 1170
1200-1300	English-1	9650Sa
1200-1300	Korean-2	7175
1200-1300	Indones.	9570 9700
1300-1400	English-1	9570 9700
1300-1400	Chinese	5975 6135 7275
1400-1500	Japanese	5975 7275
1400-1500	Indones.	9570 9700
1600-1700	English-1	5975 9870
1600-1700	Korean-1	7275 15575
1600-1700	Russian	9515
1600-1700	French	7150
1700-1800	French	9870
1700-1800	Korean-1	5975 7150 9515 7275 15575
1800-1900	Korean-1	5975 7150 9515 9870
1800-1900	Russian	7275 15360S
1800-1900	French	15575
1900-2000	Arabic	15365R 15575
1900-2000	Korean-1	9870
1900-2000	Russian	9515
1900-2000	English-1	5975 7275
1900-2000	Russian	7150
1900-2000	French	6145S
2000-2030	Spanish	9515 11775Sa
2000-2100	Arabic	7150
2000-2100	Chinese	5975
2000-2100	Russian	7275
2000-2100	German	3955S
2030-2100	Spanish	11775Sa
2100-2130	English-2	3955S
2100-2200	Chinese	9580
2100-2300	Korean-1	5975
2200-2300	Indones.	9640
2300-2400	Japanese	15575
2300-2400	Indones.	9640
2300-2400	Chinese	5975 7275
2400-0100	Indones.	9810

R=Rampisham
S=Skelton
Sa=Sackville

(RKI web site via John Norfolk, DXLD Mar 31/BC-DX/Top News/Bueschel-DE)

KUWAIT *Radio Kuwait* in Arabic noted from April 1: 1515-1800 (ex-1615-1800) on 11990. English transmission 1800-2100 on 11990 is cancelled. (Observer-BUL)

KYRGYZSTAN 4010 *KNBC*, 1650-1710, mainly international and local pops, vernac. annmts, some phone-ins, fair on Apr 24. (Vashek Korinek-AFS, DXplorer May 3/BC-DX Top News/Bueschel-DE)

Changes of *TWR Central Asia* now Fri-Sun 1625-1640 (Sat 1655) in Turkmen and Sun 1640-1655 in Karakalpak on 5855. (Rumen Pankov-BUL, Mar 30/BC-DX/Top News/Bueschel-DE)

LAOS 4649 *National Radio Houa Phan* (pres), Apr. 29 1110-1200 Vernacular Reagional song and talk. At 1200, News from Vientiane (// 6130).

6130 *Lao National Radio*, May 2 1200 Laotian, Nx from Vientiane.

7145 *Lao National Radio*, May 4 1300 French, Hard QRM from CPBS on 7140 and 7150. Only ID heard in French. (Hiroshi Tokusa-JPN, JPNpremium May 7/BC-DX Top News/Bueschel-DE)

LIBYA Summer A-04 freqs of *LJB*

1000-1100	21695
1100-1230	15610 17695 21675 21695
1230-1400	21675 21695
1400-1500	21675
1600-1700	15660 17695
1700-1800	15660 17635 17695 17880
1800-1900	15205 15660 17635 17695
1900-2000	15205 15315
2000-2030	11635 15315
2030-2130	11635

(Observer-BUL)

Re the unidentified Arabic speaking station on 11180 reported by Guido Schotmans and Silvain Domen. On 24 May at 2115-2145 I listened to 11180U and noted decent signal with some fading. Talks and music in Arabic. Sounds like they are targeting the "People of Iraq." Two rather long and complicated (to my ears) ID's heard, mentioning "Shaab al Iraq" and "Jamahiriya." I believe this is the station broadcasting from Libya to Iraq. They've been on various frequencies in the 41, 31 and 25 meterbands for the past year or so. Haven't seen the complete ID in writing in the dx-bulletins. (Savolainen-FIN/Cumbre DX) On 25 May around 1830 I checked 11180 against the reported Libyan frequencies to Iraq, 9745 and 11660. Found the parallel program on both of these two channels. Mode is AM/USB with more or less suppressed LSB/carrier. (Savolainen-FIN/Cumbre DX)

MALAYSIA Here's a current incomplete and tentative Mon-Fri shortwave schedule for *RTM Sarawak*:

Sibu 6050 kHz:	
????-2200	Malay (?relay Kuching)
0100-0300	Malay (local)
0300-0600	Iban (local)
0600-0900	Mandarin (local)

0900-?1100 Malay (local, appears to sign off around 1100)
2200-0100 Iban (relay Kuching)

Sibu local programs in the various languages announce a new FM frequency of 87.6 MHz.

Kuching 7270 kHz:

0700- Bidayuh, then lost in the mush after around 1000.
0100-0400 Bidayuh
0400-0700 Iban
2200-0100 Iban

Iban and Bidayuh programs from Kuching are announcing a new FM frequency of 101.3 MHz, and appear to have been consolidated into a single programming stream.

4895 and 5030 still seem to be inactive. 7130 kHz has been heard within the last few months carrying schools programming from 0100 sign-on, but was silent during the past few days. Possibly local schools are on holiday this week.

RTM Sabah is still active on 5980v in local afternoons and evenings but was apparently off air for a day on Monday 22 March. (Davies-INS/Cumbre DX)

4895.04 **RTVM Kuching** (p) 1349-1408. M ncr in lang, short music clips; 1359-1404 W with apparent regional news—several mentions of Kuching and Malaysia; vocal music followed at 1404. Fair signal but deteriorating; // to 7270 which was very good. Someone had reported 4895 as possibly being inactive. (Wilkins-CO/3-29/Cumbre DX) 1345-1557* variety-type show hosted by a female announcer (presumed Iban lang.) who took phone calls and played Asian pop tunes; there were occasional mentions of Malaysia. The plug was pulled at 1557* at the end of a song, without announcements. The open carrier disappeared a minute later. (Atkins, 5 April/Cumbre DX)

RTM Radio MLA Sarawak continues to change its SW schedule every few weeks. 4895 was reactivated in late March or early April, and not long afterwards 7130 extended its hours to all-day operation, with all three freqs in // carrying programming from Kuching in Iban and Bidayuh except that 7130 broke away for schools programming on weekdays at 0100-0300.

However, I noted 4 May that 7130 was carrying Radio MLA Sarawak Rangkaian Nasional in Malay from first check at around 0700 until past 1100. When 4895 faded in around 1000, it was in // with 7130 in Malay. The Malay network has not been on SW for many years, and should be quite easy to ID as it often relays nx in Malay from Kuala Lumpur on the hour, as 5965v kHz via Kajang. The Kuching Iban/Bidayuh network was still on 7270 kHz as usual. (Alan Davies-Bogor-INS, WWDX BC-DX May 4/BC-DX Top News/Bueschel-DE)

MALI RTM Bamako, presumed, 9633.95, April 12 at 0845 African songs, weak but clear. (Tony Rogers-UK, BrDXC-UK Communication/BC-DX Top News/Bueschel-DE)

NEW ZEALAND Frequency change for **Radio New Zealand International**

1851-1950 NF 9845, ex 9885 to avoid DW in Russian

(Observer-BUL)

NORTHERN MARIANA ISLANDS KFBS Saipan
Schedule

0800-0830	Banjarese	15580
0830-1130	Indones.	15580
0900-1100	Russian	11650
1000-1600	Mandarin	11580
1100-1115	Chi	11650
1115-1130	Halh	11650
1130-1200	Sasak	15580
1130-1400	Russian	11650
1200-1330	Vietnam.	12120
1400-1430	Koho	12120 Su
1400-1430	Vietnam.	12120 Mo/Tu/Th/ Fr/Sa
1400-1430	Hmong	12120 We
1400-1530	Russian	9465
1530-1545	Udmurt	9465 Su/Tu
1530-1545	Uzbek	9465 Th
1530-1545	Mari	9465 We
1530-1545	Tatar	9465 Mo
1530-1545	Kazakh	9465 Fr/Sa
1545-1600	Kirghiz	9465 Fr/Sa
1545-1600	Ossetic	9465 Th
1545-1600	Udmurt	9465 Su
1545-1600	Tatar	9465 Mo/Tu
1545-1600	Chuvash	9465 We
2230-2330	Vietnam.	12090

(Gupta-IND/Cumbre DX)

PAKISTAN Freqs changes for **Radio Pakistan** (A-04 vs A-03)

0045-0115	Assami/En	9342.6 11565
0045-0215	Urdu WS	17880 15485
0115-0200	Bangla	9342.6 11565
0215-0300	Hindi	9342.6 11565
0315-0345	Tamil	17485 15627.6
0500-0700	Urdu WS	17835 15100
0800-1105	Urdu WS/En	17835 21465
1200-1245	Bangla	11550 15627.6
1245-1315	Nepali	11550 15627.6
1330-1530	Urdu WS	15100 11570
1415-1500	Russian	11550 9387.6
1515-1545	Dari	6065 5862.6
1600-1615	English	15100 11570
1600-1615	English	11850 15727.6
1630-1700	Turkish	11542.6 9340
1700-1900	Urdu WS	9390 11570
1715-1800	Persian	11542.6 9340
1815-1900	Arabic	11542.6 9335

(Observer-BUL)

The A04 schedule for *Radio Pakistan* domestic services:

Islamabad API-2 100 kW
6065 1350-1400 Balti news, 1420-1428 Sheena news, 1615-1700 Islamabad Pgm (Aaina)
6085 0045-0200 Haya Allal Falah and 0200-0215 Urdu news
7105 1230-1330 Rawalpindi Kashmiri Pgm
7130 0600-0604 Urdu nx, 0604-0700 Rawalpindi Pgm, 0700-0703 Urdu nx, 0703-0707 Punjabi nx, 0707-0755 Rawalpindi Pgm, 0755-0800 Sindhi nx, 0800-0803 English nx, 0803-0900 Rawalpindi Pgm, 0900-0903 Islamabad Pgm, 0903-0907 Pushtu nx, 0907-1000 Islamabad Pgm, 1000-1005 Urdu nx, 1005-1100 Islamabad Pgm, 1100-1104 English nx, 1104-1115 Islamabad Pgm.

Islamabad API-4 100 kW
6225 0200-0400 & 1300-1800 Current Affairs

Quetta 10 kW
5025 0045-0404 (Fri.0345 & 1200-1805)
7155 0600-1145 (Fri.0400-0820 & 1000-1145)

Peshawar 10 kW
7220 1100-1400 Chitrali Service

Islamabad API-8 100 kW
4790 0045-0215 & 1445-1815 Pindi III program [meaning Rawalpindi]
7265 0900-1215 Pindi III program
6065 0430-0515 Balti Service
6065 0530-0615 Sheena Service

Rawalpindi 10 kW
4790 0230-0425 & 1335-1430 Pindi III program.

(Radio Pakistan via Green-UK, ApRadio 15, dswci DXW Apr 25/BC-DX Top News/Bueschel-DE)

PAPUA NEW GUINEA 3205 *Radio West Sepik*, 1032-1042 Mar. 29 PNG land commission member being interviewed by female announcer in English; comparisons between PNG and other countries land use policies. Fair signal. (Atkins-WA/Cumbre DX)

3325, 1115-1124, *Radio North Solomons* mixing with co-channel Palangkaraya at equal strength. Mournful, PNG tribal music with vocals and stringed instrument to much more cheerful sing-sing choral tune at 1020. Male announcer in pidgin 1123. R. North Solomons seemed to be the only PNG putting on a good show this morning; the remainder of the outlets had weak, watery signals. (Atkins April 10/Cumbre DX)

3335 *Radio East Sepik*, 1143-1205* Mar. 29 with weak level of M and W announcers in English; seemed to be discussing parliamentary votes and government issues. Familiar PNG wild birdcall & drums fanfare at 1200, brief filler music, then "Radio East Sepik" ID, frequency, and timecheck by male announcer at 1203. National anthem & sign-off 1205*. Surprisingly, after about 30 sec. of carrier, Sepik(?) came back on MUCH stronger with a canned PNG public service announcement in English and into rock and roll music to 1211, and off abruptly. Engineers testing transmitter? (Atkins-WA/Cumbre DX)

3355 *Radio Simbu*, 1033-1100 Mar. 29 Sermon or Bible reading by man in Pidgin; many mentions of HIV/Aids at 1055 and phone interview with health worker or doctor. Nice Melanesian folk music at 1056; quick "Radio Simbu" ID and "good night" at 1058. Female announcer in Pidgin with "Karai bilong Mambu" ID, and "Radio Simbu IDs again at 1100. Good signal level. (Atkins-WA/Cumbre DX)

3365 *Radio Milne Bay* 1002 in English with news, then easy listening and soft country music programming. Included "Tequila Sunrise" by the Eagles at 1023. Signal was fair to good despite some local QRM, and began to fade out around 1035. (Fine-VA/04 May)

3905 *Radio New Ireland*, 1106-1115 Mar. 29 female announcer in English with news items; mentions of PNG and various provinces. Good signal level but tough copy, and equal level with presumed RRI Merauke in Indonesian. (Atkins-WA/Cumbre DX)

4960, 1045-1105, testing of *Catholic Radio Network*, Vanimo PNG? Thanks to tip from Craig Seager-OZ ARDXC via Jerry Berg, I also noted an open carrier on 4960 this morning. I spot-checked timed recordings from both receivers and found an open carrier beginning at 1015. The OC grew steadily in strength to 1044, when it began to change to a raspy, buzzy quality, then off at 1045. A strong, clean carrier began again at 1053 and was continuous to 1105 when my RecAll Pro's recordings finished. I had intended to record to 1205 but I had set the software's timer incorrectly; will check again through 1200 tomorrow. The OC was strong enough to be heard on the East Coast USA, in my estimation. (Atkins-WA 20 April/Cumbre DX)

Wayne Wilson of T.E. PNG Ltd. in Boroko emailed me this status report of the new PNG transmitter for 4960 kHz, after I inquired of CRN if the station was operational:

"Dear Guy: Fr. Mlak has passed on your enquiry regarding the delivery of the SW transmitter for Aitape. It was delayed due to technical problems with the transmitter driver PCB which are apparently sourced externally by the factory. Now this has been solved and the transmitter should be shipping

from the factory this week. We would certainly be interested in your reception report once the station is up and running. The main radiation from the antenna is designed to be high angle, near vertical incidence to reflect back to PNG and out to about 1000km so it will be interesting to see if the signal reaches the US. The other stations in the 3200 3400 kHz band are meant to be running 10,000 watts whereas the Vanimo CRN Tx will be 1000 watts."

I thanked Mr. Wilson for his reply and asked for an update when testing is about to begin, as well as clarification about the transmitter location (Vanimo or Aitape). If I hear further details I'll pass them along to Cumbre. (Atkins-WA)

I received another email from Wayne Wilson of T.E. PNG (the comms. firm handling the transmitter installation). He confirmed that the 4960 shortwave transmitter for CRN will definitely be in Vanimo (an FM transmitter was recently installed in Aitape). Wayne also mentioned the transmitter had just been collected by their forwarder. (Atkins-WA/April 22/Cumbre DX)

PERU 6047.14 *Radio Santa Rosa*, 0908-1108, Religious. discussion between M and W, into Rosary/prayers at 0917 to at least 0945. ID by M at 0954, then another beautiful canned ID by M over instru. mx as: "...palabra de Dios. R. Santa Rosa...Lima Peru," and into soft instru. mx. Still audible at 1045 and still in at 1108. Tnx Mark Mohrmann for tip. (Valko 9 April/Cumbre DX)

PHILIPPINES *PBS Radio Ng Bayan*, Manila, heard 0419 22 March on 9582 with local ID and good signal. (Davies-INS/Cumbre DX)

ROMANIA Frequency changes for *Radio Romania International*:

1700-1757 French NF 11865, ex-11765 // 15170
1700-1757 Roman. NF 11765, ex-11865 // 9530 (Observer-BUL)

RUSSIA *Voice of Russia* A-04 Schedules From VOR website March 31 2004

(Arabic and Italian missing)

0000-0100 Spanish 12010 11510 9830 7330 7180
0000-0100 Russian 7125
0100-0200 Russian 15455 15425 12070 9880 9725 9470 7125
0100-0200 Spanish 12010 11510 9945 9830 7330
0100-0200 English 17660 15595 9665 5945
0100-0200 Russian 12070 9470
0200-0300 Russian 12070 9470 7330
0200-0300 English 17660 15595 9860 9665 5945

0200-0300 Russian 15455 15425 12070 9880 9725 9470 7330 7125
0300-0400 English 17660 15595 9880 9860 9665
0300-0500 Russian 7125
0400-0500 English 17660 15595 9880 9665
0500-0600 English 21790
0600-0700 English 21790
0700-0900 English 21790 17635 17525 17495
1000-1100 Korean 7355 7305
1000-1100 Chinese 12000 5940
1100-1200 Chinese 12000 7355 5940
1100-1200 German 7330 15455
1200-1300 Urdu 17570 15550 11500
1200-1300 Japanese 7315 5905
1200-1300 Mongoli. 15490 5940
1200-1300 Russian 15470 11640 9920 9875 9745 9480 7390
1200-1300 Korean 7355 5955
1200-1300 Chinese 13590 12000 7305
1200-1300 Vietnam. 17645 12055
1200-1400 Dari 15510 12015 4975 4965 4940
1200-1400 Pashto 15510 12015 4975 4965 4940
1300-1400 Hindi 17570 11500
1300-1400 Russian 17645 15470 11640 9745 7390
1300-1400 Japanese 7355 7315 5905
1300-1400 Chinese 15490 13590 7305
1400-1500 Russian 15430
1400-1500 English 17645 15780DRM 12055 9745 7390
1400-1500 Urdu 17570 15550 11500
1400-1500 Turkish 15540 11985 7325
1500-1530 Hindi 17570 11720 9745
1500-1530 Albanian 15290 13740 12060
1500-1600 Russian 15440 12055 5945
1500-1600 English 11985 11500 7390 7325 4975 4965 4940
1530-1600 Bengali 17570 11720 9745
1530-1700 Serbo-Cr 15290 12060 7300
1600-1700 French 12070 12040 12010 12000 11510 9745
1600-1700 English 12055 11985 7320 5945
1700-1730 Finnish 11675 9480 Mo-Fr
1700-1745 Hungari. 15350 7400
1700-1800 Romani. 7380 7320
1700-1800 French 12070 12040 12010 9745
1700-1800 Polish 11980
1700-1800 German 7330 9795 15455 15780
1700-1800 English 11985 11675* 11510 9890 9480 7320
1700-1800 Bulgarian 15290 7300
1700-1800 Russian 11630
1730-1800 Norweg. 11675 9480 Tu/Th
1730-1800 Swedish 11675 9480 Mo/We/Fr
1745-1830 Czech 15340 11745 7400
1800-1900 English 11630 11510 9890 9745 9480
1800-1900 German 7330 9795 9890 15455

1800-1900	French	12070 12040 12010 12000 7310	1400-1500	<i>VO Khmer Krom</i> 15600 Vladivostok-RUS 250 kW Tu
1830-1900	Slovak	15350 11745 7400	1430-1530	<i>Dem VO Burma</i> 5910 Almaty-KAZ 200 kW
1900-2000	English	12070 9890 7440	1430-1515	<i>VO Tibet</i> various 13/16/19 mb Tashkent-UZB 100 kW
1900?	Greek	12015 11985 9470 7300	1630-1715	<i>R. Anternacional</i> 13800 Grigoriopol-MDA 500 kW
1900-2000	Russian	12055 11745 11630 9825 5985 5950	1630-1730	<i>R. Amant</i> 15615 Krasnodar-RUS 100 kW Fr
1900-2000	French	15455 12030 12000 7310	1700-1800	<i>VO Komala</i> 12120 Samara-RUS 250 kW Su
1900-2000	Bulgarian	9470	1700-1730	<i>VO Oromo Liberation</i> 12120 Samara-RUS 250 kW Mo/Th
2000-2030	Portug.	11630 7440	1700-1800	<i>Mesopotamian RTV</i> 7560 Samara-RUS 250 kW Tu/We/Fr
2000-2100	Russian	12055 7260 5985	1700-1800	<i>Dejen Radio</i> 12120 Samara-RUS 250 kW Sa
2000-2100	English	15455 12070	1730-1800	<i>VO Oromiya</i> 12120 Samara-RUS 250 kW Mo
2000-2100	German	7330 7440 15455	1800-1845	<i>R. Payam-e Doost</i> 7480 Grigoriopol-MDA 250 kW Tu-Fr/Su
2000-2130	Serbo-Cr	9470	1830-1930	<i>VO Ethiopian Medhin</i> 12120 Samara-RUS 250 kW Su
2030-2100	Spanish	11630 7440		
2100-2130	French	9450		
2300-0000	Portug.	12010 11510 7330		
2300-2400	Russian	7125		

* = Sa/Su

(VOR web site/John Norfolk/Bernie O'Shea-ON/DX Listening Digest/Hauser-OK)

Regional stations active as of April, 2004:

4795	2100-1700 Ulan-Ude (Selenginsk) 50 kW
5930	0100-2100 Murmansk (Monchegorsk) 50 kW
5940	1700-1300 Magadan (Arman) 100 kW
6060	1900-1500 Yakutsk 50 kW
6085	2100-1700 Krasnoyarsk 50 kW
6100	2100-1700 Kyzyl 5 kW
6150	2300-1500+ Perm 5kW
6160	0100-2100 Arkhangelsk 40 kW
7140	1900-1500 Yakutsk 50kW
7200	1900-1500 Yakutsk 100kW
7320	1700-1300 Magadan (Arman) 100 kW
7345	1900-1500 Yakutsk 50 kW
11650	1505-1900 Perm 5 kW

Regional stations irregularly active:

4820	2300-1900 Khanty-Mansiysk 50 kW
4895	2300-1900 Tyumen 50 kW
11840	1700-1300 Yuzhno-Sakhalinsk 15 kW (Rudnev-RUS)

Clandestine stations relayed by shortwave transmitters in CIS states, Summer 2004:

0000-0100	<i>IBC-Tamil</i> 11570 Tashkent-UZB 100 kW
0230-0315	<i>R. Payam-e Doost</i> 7460 Grigoriopol-MDA 500 kW Tu-Fr/Su
0400-0500	<i>VO Liberty</i> 15675 Samara-RUS 250 kW Su
0400-1600	<i>VO Mesopotamia</i> 11530 Grigoriopol-MDA 500 kW
1215-1300	<i>VO Tibet</i> various 19 mb Dushanbe-TJK 100 kW
1215-1300	<i>VO Tibet</i> various 13/16/19mb Tashkent-UZB 100 kW
1300-1330	<i>Degar Voice</i> 7125* Chita-RUS 500 kW Tu/Th/Sa

1400-1500	<i>VO Khmer Krom</i> 15600 Vladivostok-RUS 250 kW Tu
1430-1530	<i>Dem VO Burma</i> 5910 Almaty-KAZ 200 kW
1430-1515	<i>VO Tibet</i> various 13/16/19 mb Tashkent-UZB 100 kW
1630-1715	<i>R. Anternacional</i> 13800 Grigoriopol-MDA 500 kW
1630-1730	<i>R. Amant</i> 15615 Krasnodar-RUS 100 kW Fr
1700-1800	<i>VO Komala</i> 12120 Samara-RUS 250 kW Su
1700-1730	<i>VO Oromo Liberation</i> 12120 Samara-RUS 250 kW Mo/Th
1700-1800	<i>Mesopotamian RTV</i> 7560 Samara-RUS 250 kW Tu/We/Fr
1700-1800	<i>Dejen Radio</i> 12120 Samara-RUS 250 kW Sa
1730-1800	<i>VO Oromiya</i> 12120 Samara-RUS 250 kW Mo
1800-1845	<i>R. Payam-e Doost</i> 7480 Grigoriopol-MDA 250 kW Tu-Fr/Su
1830-1930	<i>VO Ethiopian Medhin</i> 12120 Samara-RUS 250 kW Su

*alternate: 7250 7350 7420 (Rudnev-RUS)

Foreign relay via SW transmitters of Russia. 28/03-30/10/2004

Moscow

7175	2200-2300 250 CRI
7200	1830-1930 200 CRI
7370	2000-2100 DRM 035 TDP Sa
9880	2200-2300 250 CRI
9925	1700-2100 200 VRT
12035	1830-1930 200 CRI
12090	1600-1700 250 BBC
15195	1300-1600 200 VRT Su
15450	1100-1130 200 VRT

Sankt-Petersburg

12065	1800-1830 400 CRI
15440	1600-1700 400 CRI

Samara

5935	1900-2030 250 IBR
7320	2030-2130 250 CRI
7560	1700-1800 250 MRA Tu/We/Fr
9475	1600-1630 250 TWR
9835	1900-2030 250 IBR
11750	1315-1500 250 FEB
12120	1700-1730 250 VOL Mo/Th
12120	1700-1800 250 DER Sa
12120	1700-1800 250 VOK Su
12120	1730-1800 250 ORO Mo
12120	1830-1930 250 VEM Su
15525	0800-0830 250 DWL
15530	0400-0530 250 FEB
15675	0400-0500 250 LBT

Krasnodar

7230	1800-1900 250 DWL
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7590 2000-2100 100 TDP Sa
 9415 1530-1700 200 IBR
 9825 1700-1800 500 DWL
 9875 1630-1645 100 FEB
 11810 1630-1700 250 RPR
 15195 0500-0800 250 VRT
 15460 0500-0530 250 BVB Mo-We
 15575 0500-0730 200 BBC Fr
 15595 1330-1420 250 DWL
 15605 0900-0930 200 DWL
 15615 1630-1730 100amN Fr
 17545 1230-1300 200 DWL

Novosibirsk

6210 1230-1300 100 VAT
 7390 1800-1830 200 RPR
 9495 1400-1515 250 FEB
 11990 1300-1500 200 VOA
 12045 0200-0245 250 FEB
 12075 1200-1300 500 RFI
 15535 2300-0100 500 RFI
 17590 0200-0320 250 VAT
 21820 1100-1200 500 DWL
 + 7460 0000-0100 100 IBC
 7480 1500-1600 100 IBC

Irkutsk

7150 2200-2300 250 VOA
 7210 1500-1700 250 RFA
 7300 2200-2245 250 VAT
 7305 1300-1350 250 DWL
 7365 1400-1615 250 FEB
 9485 1215-1515 250 TWR
 9690 2300-2350 250 DWL
 9900 1000-1400 250 DWL
 9940 1130-1230 250 VRT
 12025 0930-1030 500 RFI
 12025 1100-1300 500 RFI
 13710 1000-1100 250 RNW
 17710 0230-0300 250 BBC

Chita

7125* 1300-1330 500 DEG Tu/Th/Sa
 12055 1315-1400 500 VAT

* alternative 7250, 7350, 7420 kHz

Vladivostok

7120 1230-1300 250 IBR
 7330 1100-1530 500 BBC
 12005 2200-2300 500 RFI
 12045 2200-2300 250 RFI
 15135 2300-2400 250 DWL
 15350 1000-1100 250 DWL
 15595 2300-2400 500 RFI
 15660 1400-1500 250 VKK

Khabarovsk

13695 1300-1400 100 RNW

Komsomolsk-na-Amure

5945 1400-1500 250 BVB

Petropavlovsk-Kamchatskiy

7380 1300-1400 250 RNW
 7430 1000-1400 250 DWL
 9450 1200-1300 200 IBR
 12065 1000-1100 250 RNW
 12070 0000-0100 250 DWL
 15470 2130-2200 250 VOA

Foreign relay via short wave transmitters of the countries of CIS. 28/03/2004—30/10/2004

Armenia

5855 1610-1740 100 TWR
 7335 0030-0130 100 FEB
 9365 2300-2400 500 RFA
 9365 0100-0300 500 RFA
 9850 1630-1745 100 FEB
 9850 1930-2045 100 FEB
 11510 1500-1600 500 RFA
 11590 1100-1400 500 RFA
 11975 1400-1500 100 VOA
 15625 1400-1500 100 RFA
 17485 0600-0700 500 RFA

Moldova

7460 0230-0315 500 RPD
 7480 1800-1845 500 RPD
 11530 0400-1600 500 MEZ
 13800 1630-1715 500 RIN

Kazakhstan

5910 1430-1530 200 DVB
 7115 2200-2300 500 DWL
 7410 2345-0015 200 TWR
 9355 1530-1600 200 VOO Tu/Fr
 9570 2300-2350 500 DWL
 11520 1400-1500 200 RFA
 11560 2330-0030 200 RFA
 12045 0015-0100 200 TWR
 13830 0000-0100 200 RFA
 15635 1100-1200 200 RFA
 15670 1230-1330 200 RFA
 17485 1000-1400 500 DWL

Tajikistan

4760 0100-0200 100 RFE
 4760 1630-1700 100 RFE
 4995 1400-1500 100 RFE
 5860 1400-1600 100 RFE
 5860 1900-2100 100 RFE
 7295 0200-0300 100 RFE
 7365 1900-2000 200 RFE
 7465 1600-1700 200 RFA
 7540 2300-2400 500 RFA
 9350 0100-0200 200 RFA
 9370 1600-1700 200 RFA
 9395 2300-2400 200 RFA
 11520 0100-0200 200 RFA
 11520 1800-2100 500 RFA
 11540 0030-0130 200 RFA
 11540 2330-0030 200 RFA
 13825 1500-1600 200 RFA

13830 1100-1400 200 RFA
 15680 2300-2400 500 RFA
 15680 1300-1400 200 RFA
 15580 1500-2200 500 RFA
 15695 2300-2400 200 RFA
 15695 0100-0300 200 RFA
 15695 1100-1400 200 RFA
 17495 0300-0700 500 RFA
 17510 0600-0700 200 RFA
 17525 0030-0130 200 RFA
 17525 0300-0700 500 RFA

Uzbekistan

7365 0030-0115 100 FEB
 7430 1500-1530 200 BBC
 7485 1400-1500 100 BVB Fr/Sa
 7485 1415-1500 100 BVB Th
 7485 1430-1500 100 BVB Su
 9445 1215-1500 200 TWR
 9495 1700-1900 200 YER
 9855 1400-1700 100 VIL
 9865 1330-1445 200 BBC
 11570 0000-0100 100 IBC
 11850 0100-0400 100 VIL
 12005 1230-1315 100 FEB
 12035 0030-0145 200 TWR
 12065 1300-1400 100 RNW
 12065 1430-1550 100 VAT Su-Fr
 12065 1430-1600 100 VAT Sa
 12075 1400-1600 100 RNW
 13745 0100-0130 200 BBC
 13785 1100-1400 100 VIL
 15580 0100-0200 200 TWR
 17695 1200-1230 200 VRT

AMN—Radio Amani
 BBC—British Broadcasting Corp.
 BVB—Bible Voice Broadcasting Network
 CRI—China Radio Int.
 DEG—Degar Voice
 DER—Dejen Radio
 DVB—Democratic Voice of Burma
 DWL—Deutsche Welle
 FEB—FEBA Radio
 IBC—IBC Tamil
 IBR—IBRA Radio
 LBT—Voice of Liberty
 MEZ—Voice of Mesopotamia
 MRA—Mesopotamian Radio & TV
 ORO—Radio Voice of Oromiya
 RFA—Radio Free Asia
 RFE—Radio Free Europe / Radio Liberty
 RFI—Radio France Internationale
 RIN—R. Anternacional
 RNW—Radio Nederland Wereldompoep
 RPD—Radio Payam-e Doost
 RPG—Radio Prague
 TDP—TDP Radio
 TWR—Trans World Radio
 VAT—Radio Vaticana
 VEM—Voice of Ethiopian Medhin
 VIL—Voice Int.

VKK—Voice of Khmer Krom
 VOA—Voice of America
 VOK—Voice of Komala
 VOL—Voice Voice of Oromo Liberation
 VOO—Voice of Orthodoxy
 VOT—Voice of Tibet
 VRT—Radio Vlaanderen Int.
 YFR—WYFR Family Radio

Voice of Russia relay via shortwave transmitters of Russia. 28/03/2004—30/10/2004

Moscow

7330 2300-0300 500
 7440 1800-2100 250
 9795 1500-1700 250
 9890 1600-2000 250
 9920 1200-1500 250
 11630 1700-2100 250
 11920 1700-1800 250
 11985 1400-1900 500
 12000 1600-2000 250
 12010 1600-2000 250
 12030 1600-2000 500
 12040 1600-1900 250
 12070 0200-0300 500
 12070 1700-2100 250
 15540 1400-1600 250
 15780 DRM 1300-1700 035/080
 17645 1200-1500 500

Sankt-Petersburg

7310 1800-2000 400
 7400 1700-1900 400
 9470 0100-0300 500
 12005 1500-1600 400
 12035 1400-1700 400
 12055 1700-2100 200
 12060 1500-1900 200
 12065 1700-1800 250
 12065 1830-1900 400
 15440 1500-1600 400

Kaliningrad

7300 1530-1900 160
 7330 0900-1000 320
 7330 1500-1900 160
 11830 1400-1700 160

Samara

9470 1800-2130 200
 9480 1700-1900 200
 9820 1400-1900 250
 9835 1400-1700 200
 9865 1500-1700 250
 9875 1200-1500 250
 11980 1700-1800 250
 12010 2300-0200 500
 12015 1800-1900 200
 12055 1500-1700 250
 15125 1600-1700 200
 15290 1500-1800 200

15405 1500-1600 200
 15510 1200-1500 250

Krasnodar

7305 1400-1900 100
 7325 1400-1700 100
 9725 0100-0300 500
 9830 0100-0200 500
 9880 0100-0500 500
 11675 1700-1800 250
 12015 1100-1400 250
 15455 0900-1000 250
 15455 1500-2100 250
 17570 1200-1600 500

Ekaterinburg

7370 1300-1900 200
 9470 1700-1800 200
 11745 1745-2000 200
 13740 1500-1530 200
 15350 1600-1900 200

Novosibirsk

5945 1500-1700 100
 11640 1200-1400 500
 11720 1500-1600 500
 13590 1200-1400 100
 15470 1200-1400 200
 15490 1200-1400 200
 15550 1200-1300 500

Irkutsk

5905 1200-1400 100
 7320 1600-1800 250
 7355 1000-1400 100
 9800 1400-1800 100
 21790 0500-0900 250

Chita

9745 1200-1900 500
 12055 1200-1300 500
 12055 1400-1500 500

Vladivostok

5940 1000-1300 100
 5955 1200-1300 200
 7305 1000-1100 200
 7315 1200-1400 250
 7390 1200-1600 500
 17660 0100-0500 500

Khabarovsk

7305 1200-1300 100
 12000 1000-1300 100

Komsomolsk-na-Amure

9480 1200-1300 250
 15455 0100-0300 250
 17635 0700-0900 250

Petropavlovsk-Kamchatskiy

15425 0100-0300 250
 15595 0100-0500 200

**Voice of Russia relay via shortwave transmitters
 abroad Russia. 28/03/2004-30/10/2004**

Armenia

9965 2300-0200 500
 11510 1600-1900 500

Moldova

5950 1700-2000 500
 7125 2300-0500 500
 9665 0000-0500 500

Tajikistan

4940 1200-1400 100
 4940 1500-1600 100
 4965 1200-1400 100
 4965 1500-1600 100
 4975 1200-1400 100
 4975 1500-1600 100
 9360 1400-1900 200
 9945 0100-0200 500
 11500 1200-1500 500
 11510 2300-0200 500
 17495 0700-0900 500
 17525 0700-0900 500

China

11500 1500-1600 120

Vatican City State

9860 0200-0400 250
 11825 0100-0200 250

Germany

5945 0100-0300 100
 5985 1900-2100 100
 6145 2200-2300 100
 7260 2000-2100 100
 9825 1900-2100 100
 15430 1400-1500 100

(Nikolai Rudnev-RUS, RUSdx May 9/16/BC-DX Top
 News/Bueschel-DE)

Dear Short Wave Listeners and Radio Enthusi-
 asts.

Radio Ezra is pleased to announce a new series
 of weekly English lang broadcasts commencing on
 Sunday 6th June 2004. The broadcasts will be tar-
 geted towards Europe, North Africa and the Middle
 East on 17490 kHz between 0900 and 0930 UTC via
 the Krasnodor transmitter in Russia.

Radio Ezra is the Radio Outreach Project for the
 World Karaité Movement and the only counter-mis-
 sionary radio station in the world. Reception reports
 are very welcome and a QSL certificate will be issued
 to any correct reports received. Contact information
 will be given out on air.

In the meantime, please refer to the station
 website for any further information.

John D. Hill (Station Owner) Radio Ezra <http://www.radioezra.com> World Karaites movement <http://www.karaites.info> (WWDXC TopNews May 5/ Bueschel-DE)

SAUDI ARABIA A-04 freqs changes for *BSKSA*

0300-0555	Arabic-HK	17895
0400-0455	Somali	15470
0500-0555	Swahili	15470
0600-0855	Arabic	17730 17740
0800-0955	French	17785
0900-1155	Arabic	17805 21705
1200-1455	Arabic	21640 21505
1300-1555	Arabic-HK	21460
1600-1655	Pashto	9525
1800-2255	Arabic-HK	11740

Arabic-HK = Holy Qu'ran program
(Observer-BUL)

SLOVAK REPUBLIC The planned shut-down of *Radio Slovakia International* on shortwave has been postponed, new deadline is now July 1st. (Kai Ludwig-D, Apr 26/BC-DX Top News/Bueschel-DE)

At the close of their 1730 broadcast this afternoon, *Radio Slovakia International* announced their English schedule for A04 effective from this Sunday:

0100	5930	9440 to Americas
0700	7440	15460 to Australia/Pacific
1630	5920	7345 to Europe.
1830	5920	6055 to Europe.

(Dave Kenny-UK, BrDXC-UK Mar 26/BC-DX/Top News/Bueschel-DE)

SOUTH AFRICA Shortwave transmissions from Sentech, Meyerton, South Africa for Summer 04:

Channel Africa

0300-0400	English	3345 6160
0400-0500	English	3345
0300-0400	Swahili	3965
0400-0500	French	7265
0500-0600	English	7210 9770
0600-0700	English	7210 15215
0700-0800	English	11825
0800-0900	Chinyanja	11825
0900-1000	Silozi	11825
1000-1200	English	11825
1200-1300	Chinyanja	11825
1300-1400	Silozi	11825
1400-1500	English	11825
1500-1600	English	11825 17770
1500-1600	Swahili	17780
1600-1700	French	15245
1700-1800	English	15265
1900-2200	English	3345

BBC

0300-0330	Swahili	6050
0300-0500	English	3255 6190 7120

0400-0430	Swahili	9840
0430-0500	Portug.	3390 6135 7205
0500-0700	English	6190 11765 11940
0530-0600	Kirundi	15400 Sa/Su
0700-0730	French	17695
0700-1500	English	6190 11940
1500-1530	English	6190 11940 21490
1530-1615	Swahili	21490 Sa/Su
1530-1700	Swa./Kiru	21490 Mo-Fr
1530-1700	English	6190 11940
1615-1700	English	21490 Sa/Su
1700-1900	English	3255 6190 15420
1730-1745	English-t	3390 7230 9525
1745-1800	Swahili	7230
1800-1830	French	7230
1900-2200	English	3255 6190
2030-2100	Portug.	3390 6135 7205

English-t = English teaching

Radio Veritas Productions

1000-1100	English	6100
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FEBA Radio

1515-1545	Nuer/	12125
	Dink	
1545-1600	Makonde	12125
1600-1700	Amharic	12125

United Nations Radio

1700-1715	French	7150 21535 Mo-Fr
1730-1745	English	7150 Mo-Fr

Adventist World Radio

1700-1730	Swahili	12130
1730-1800	Masai	12130
1800-1830	English	3215 3345 12130
1830-1900	English	12130
1930-2000	Hausa	6040
1930-2000	Ibo	9620
2000-2030	French	7225 9620
2000-2100	English	7170
2030-2100	Yoruba	6040

Radio Ecclesia

1900-2000	Portug.	7205
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Trans World Radio

0330-0345	Amharic	7215 Fr-Su
0330-0345	Sidamo	7215 We/Th
0600-0630	English	11640 Mo-Sa
0630-0635	English	11640
1600-1630	Kirundi	9675
1625-1640	Somali	9660 Sa/Su
1625-1655	Somali	9660 Mo-Fr
1645-1700	Oromo	9930 Mo-We
1645-1700	Kambaata	9930 Th/Fr
1645-1700	Hadiya	9930 Sa/Su
1657-1712	Juba	9660 Mo-Sa
1700-1730	Amharic	9930
1703-1718	Sena	7265
1718-1733	Yao	7265
1730-1800	Oromo	9930 Mo-Fr

1730-1800	Amharic	9930 Sa	0400-0500	Spanish	3350 6020 6125 9620 15160
1733-1748	Yao	7265 Su/Tu/Fr			
1755-1825	French	9695 Sa/Su	0415-0445	Sefardi	9650
1755-1825	Pulaar	9695 Mo-Fr	0500-0600	Spanish	3350 5985 6055 6125 9710 12035 15485
1815-1830	Songhai	9720 Sa			
1830-1900	Fulfulde	9510	0600-0700	Spanish	5985 9710 12035 15485
1830-1900	Hausa	9695	0700-0900	Spanish	12035 13720 17770
1830-1900	Banbara	9720	0900-1000	Spanish	13720 15585 21540 21570 21610
1900-1915	Kanuri	9695			
1900-1930	Songhai	9720 Fr	1000-1100	Spanish	9660 11815 13720 15585
1900-1930	Yoruba	9510			21540 21570 21610 21700
1900-1945	French	9720 Sa-Th	1100-1200	Spanish	9660 9765 11815 13720 15170 15585 21540 21570 21610 21700
1930-1945	Ewe	9510 Sa/Su			
1930-1945	Moore	9720 Fr			
1945-2000	Igbo	9510 Sa	1200-1300	Spanish	9765 11815 11910 13720 15170 15585 21540 21570 21610 21700
1945-2015	Igbo	9510 Su			

Family Radio

1900-2100 English 3230

Radio France International

0300-0400	French	5925	1400-1500	Spanish	11815 15385 15585 17595 17760 21570 21610 21700
0700-0800	French	15170			
1100-1230	French	17850	1500-1700	Spanish	9765 11815 15385 15585 17760 17850 21570 21610 21700
1230-1300	French	17850 21760			
1300-1400	French	17850	1700-1730	Russian	15325 Sa/Su
1600-1700	English	9730 15160	1700-1730	German	9665
1900-2200	French	7160	1700-1800	Spanish	7275 9665 9765 11815 17715 17850 21700

Radio Vlaanderen International

0500-0530	Dutch	9925	1700-1900	Arabic	21610 Mo-Fr
1000-1100	Dutch	21630 Su	1800-1900	Spanish	7275 9665 9765 11815 17715 17760 17850
1100-1130	Dutch	21630			

Education Development Center

1200-1230 Somali 15370 Mo/Tu/Th

South African Radio League

0800-0900	English	9750 17815 Su	1900-2000	Spanish	7275 9665 9765 11815 15110 17850 21700
1900-2000	English	3215 Mo	1900-2000	Spanish	17760 Su

Radio Sonder Grense

0530-0800	Afrikaans	7185	1900-2000	French	17560 Sa/Su
0800-1600	Afrikaans	9650	1900-2100	French	9570
1600-0530	Afrikaans	3320	1900-2100	Arabic	7270 17560
			2000-2100	French	15290 Su
			2000-2100	English	15290 Mo-Fr
			2000-2100	Spanish	7275 9665 9765 15110 21700

SW Radio Africa (broadcasting to Zimbabwe via Meyerton) seems to be again on 4880. Noted on 17 May at 1856, they signed off at 1859. (Savolainen-FIN/Cumbre DX)

SPAIN Radio Exterior de Espana A-04 schedule

0000-0100	English	15385	2000-2200	English	9570
0000-0100	Spanish	6020 9535 9620 11680 15160	2100-2200	Spanish	7275 9765 11815 15110 17850
0100-0200	Spanish	6020 6055 9535 9620 11680 15160	2100-2200	English	9640 Sa/Su
			2100-2200	Spanish	11625 Mo-Fr
0115-0145	Sefardi	11795	2100-2200	Arabic	7270
0200-0400	Spanish	3350 6020 6055 6125 9535 15160	2100-2200	Arabic	17560 Sa/Su
			2200-2300	Spanish	7270 7275 9765 11815 15110
			2200-2300	Spanish	11625 Sa
			2300-2400	Spanish	9535 9620 15160
			2300-2400	French	21700
			2300-2400	French	15385

(REE website)

SRI LANKA 15747.98, April 20 at 1450, *Sri Lanka Broadcasting Corporation* with their All Asia Service is really off their usual frequency. A very nice program with oldies before the nx at 1500. (Brunstrom-SWE, SW Bulletin May 2/Nilsson/DX Listening Digest/Hauser-OK)

SUDAN 4750, *Radio Peace*, *0227-0250, signal on, then usual canned English s/on ID anmnt by M as: "This is Radio Peace broadcasting on 4750 khz in the 60 meter band. Thank you for listening (choral mx) This is Radio Peace (cont. choral mx)." 0229-0243 English program w/alternating M and W talk and occas. soft religious mx. Couldn't copy much due to weak signal. Native choral singing after 0244. Talk by M in African-sounding accent at 0248. Heard nightly signing on around 0227, however on 26th, they signed on at 0240. Anyone have an address?? (Valko 23 March/Cumbre DX) What's happened to this one?? Been following it but haven't heard it the last couple nights. Is it off the air, different freq, or new s/on time?? (Valko Apr 4/Cumbre DX)

SWEDEN *Radio Sweden International* in Swedish 2100-2130 NF 9930, ex-9925. (Padula-AUS/EDXP)

SWITZERLAND 9885, 2326-, *Swiss Radio International* Apr 12 Tuned in to hear the final SRI English broadcast on SW. Instead at precisely 2330, there came an announcement stating that this was an end of an era, and the hope that the listener will continue with swissinfo.org. Fair on 9885 (direct) and very good on French Guiana relay on 11905. Otherwise continuous music only. A disappointing end! 11905 left the air at precisely 0000, but 9885 continued. (Salmaniw, Victoria, BC/Cumbre DX)

TATARSTAN Summer A-04 of *Radio Novyy vek/Yana gastr radiosu* via Samara

0400-0500 15140
0600-0700 9690
0800-0900 11925

(Observer-BUL)

TURKEY Please note the following amendments in TRT A04 sked.

1000-1500 Turkish NF 17705, ex-17630
1230-1330 English 15535, ex-15405
0400-0700 Turkish 15225, ex-15425

(Swopan Chakroborty-IND, May 3/BC-DX Top News/Bueschel-DE)

UNITED KINGDOM Additional unregistered frequencies for *BBC African Service*

0600-0800 English 15545
1600-1800 English 17820

BBC added new language service
1500-1530 Tajik 11945 13740

Time and frequency changes for *BBC* in Kazakh: 1200-1230 15535 17665 Mo-Fr, ex-1300-1330 Mon-Fri on 15535 17720.

Summer A-04 schedule for *Radio Ndeke Luka* in French and Singo via Merlin:
1830-1930 Fr/Singo 15470

Radio Pedar/Father Radio in Persian is on air:
1730-1830 Persian 15585 Mo-Fr

Summer A-04 freqs of *Wales Radio International* in English via Merlin Comm.

0200-0230 9795 Sa
1230-1300 17745 Sa
2030-2100 7325 Fr

(Observer-BUL)

Frequency change for *Sudan Radio Service* Mon-Fri: 1500-1700 NF 17660 WOF 300 kW, ex-17630. (Observer-BUL) Additional transmission for *Sudan Radio Service* via WOF 1700-1800 NF 17660, instead of registered 15535 1700-1900 Mo-Fr.

UNITED STATES OF AMERICA *Radio Liberty/Free Europe* A-04 Schedules

0000-0100	Russian	6095 7120 7170 7220 9520
0030-0200	Farsi	9615 9795 9805
0100-0200	Tajik	4760 9695 9760
0100-0300	Kazakh	7260 9680 15205
0200-0300	Tajik	9695 9760 15525
0200-0300	Russian	6105 7155 7170 7220 7275 9520
0200-0400	Turkmen	7295 9555 15295
0200-0400	Uzbek	12015 12110 21770
0200-0400	Farsi	9775 9795 9805
0230-0330	RFA	17670
0300-0400	Ukrainian	6065 7115 9710 Mo-Sa
0300-0400	Russian	6105 7155 7175 7220 9520 11725
0300-0400	Azerbaij	9680
0300-0400	Tatar-Bas	9815 11820
0300-0400	Tajik	9760 11655 15525
0300-0500	Belarus.	6170 9635
0330-0530	RFA	17670 19010
0400-0500	N.Cauc.*	9850 11780 15350
0400-0500	Georgian	9595
0400-0500	Russian	5995 7220 7295 9520 9760 11725
0400-0600	Farsi	9510 9795 15185 15290
0500-0600	Russian	7220 9520 9760 11815 12015 17730
0500-0600	Ukrainian	7115 7165 11780 Mo-Fr
0500-0600	Tatar-Bas	11990 15350
0530-0630	RFA	17710 19010
0600-0700	Russian	9520 9635 9760 11815 17730 17810
0600-0800	Farsi	9510 15290 17845
0630-1430	RFA	17685 19010
0700-0800	Russian	9635 11815 11860 15130 17810 21705
0730-0800	Bosn/Ser	9555 11970 15260

0800-0830	Farsi	9510 15290 17755 17845 21530	1930-2000	Russian	3965 7220 9520 11865 11885
0800-0900	Russian	11860 15280 17810 21705	2000-2100	Russian	3965 5955 6040 7220 7260 9520 9860
0830-1400	Farsi	17755 21530	2000-2100	Bosn/Ser	5970 7165
0900-1000	Russian	11860 15280 17730 17810	2000-2100	Farsi	5860 9505 9960 11960
1000-1100	Russian	11725 11860 15460 17730 17810 17890	2100-2130	Farsi	9505 9960 11960
1100-1200	Kazakh	11870 15195 17670	2100-2200	Russian	6040 7155 7220 7245 7260 9520
1100-1200	Russian	13745 15130 15205 15460 17730 17890	2200-2300	Russian	5985 6095 9590 7220 7245 9520
1200-1230	Kyrgyz	11930 15120 17615	2200-2400	Bosn/Ser	6130 9635 11730
1200-1300	Russian	13745 15130 15205 15215 17730 17890	2300-2400	Russian	5985 6095 7120 7170 7220 9520
1300-1330	Bosn/Ser	9555 11795 17605	2300-2400	Kazakh	5945 7250 9615
1300-1330	Kyrgyz	11930 15370 17865	N.Cauc. = North Caucas languages	Avar, Circassian and Chechen	
1300-1400	Kazakh	12140 13795 17670	RFA = Radio Free Afghanistan in Pashto and Dari	(via Bernie O'Shea-ON/DX Listening Digest/Hausser-OK)	
1400-1500	Armenian	9790	<i>RFE/RL Radio Free Iraq</i> in Arabic cancelled all SW freqs. (Observer-BUL)		
1400-1500	Turkmen	13815 15145 15345	<i>Radio Free Asia</i> Summer Frequencies		
1400-1500	Farsi	9435 13870 17750	0000-0100	Lao	12015 13830 15545
1400-1500	Kazakh	4995 15355 15455	0030-0130	Burmese	11540 13680 13820 17835
1400-1500	Tajik	15370 15725 17670	0100-0200	Uighur	9350 11520 11895 11945 15405 17640 21470
1400-1500	Kyrgyz	5860 11845 15530	0100-0300	Tibetan	9365 11695 11975 15225 15695 17730
1400-1500	Russian	9595 11725 11880 11895 15205 15215	0300-0600	Mandarin	13670 13760 15150 15665 17495 17525 17615 17880 21690
1500-1530	Romani.	7160 11905 Mo-Fr	0600-0700	Mandarin	13670 13760 15150 15665 17495 17525 17615 17880 21690
1500-1600	Kyrgyz	5860 9435 15530	0600-0700	Tibetan	17485 17510 17720 21500 21690
1500-1600	Tatar-Bas	11990 15245	1100-1200	Lao	9355 9545 15560 15635
1500-1600	Turkmen	13815 15145 15160	1100-1200	Tibetan	7470 11590 13625 15510 15695
1500-1600	Russian	9725 11725 11885 11895 13755 15205	1200-1400	Tibetan	7470 11590 13625 15510 15695 17855
1500-1600	Georgian	17725	1230-1330	Khmer	13645 15525 15670
1500-1600	Farsi	13680 13870 17750	1300-1400	Burmese	9455 11765 13745 15680
1500-1600	Azerbaij	15255	1400-1500	Cantones	9780 11715 13790
1500-1600	Tajik	9790 11960 15370	1400-1500	Korean	7380 11790 13625 15625
1500-1700	Belarus.	9565 15215	1400-1500	Vietnam.	9455 9635 11510 11605 11680 13775 15705
1600-1630	Tajik	7190 9790 15370	1500-1600	Korean	9385 13625
1600-1700	Turkmen	11895 13815 17885	1500-1600	Mandarin	9455 11765 9905 12025 13690 13725 15510 15680
1600-1700	Uzbek	9595 11835 11980	1500-1600	Tibetan	7470 11510 11705 11780 13825
1600-1700	Bosn/Ser	6040 7115 11925	1600-1700	Korean	7210 9835 13625
1600-1700	Farsi	13680 13870 17670	1600-1700	Uighur	7465 9350 9370 9555 11750 11780
1600-1700	Russian	7220 9520 9725 11725 11885 13755	1600-1700	Mandarin	9455 9905 11795 12025 13690 13715 15510 15680
1630-1700	Tajik	4760 7190 9790 15370			
1700-1800	Ukrainian	9855 12035 15115			
1700-1800	N.Cauc.*	9805 11705 17630			
1700-1800	Turkmen	9785 11895 17885			
1700-1800	Uzbek	9595 11815 11980			
1700-1900	Belarus.	7190 15480			
1700-1900	Farsi	7105 11855			
1730-1800	Bosn/Ser	6130 9625 15245			
1800-1900	Azerbaij	11865			
1800-1900	Bosn/Ser	9855 11715 15120			
1800-1900	Ukrainian	7165 11785 11875			
1800-1900	Roman.	7130 12025 Mo-Fr			
1900-1930	Albanian	7165 9705 15140			
1900-1930	Russian	3965 6105 7220 9520 11865 11885			
1900-2000	Farsi	5860 7365 9505 11670			
1900-2000	Tatar-Bas	9650 11925			
1900-2000	Ukrainian	9615 11695 11875 Su-Fr			
1900-2100	Belarus.	7115 9750			

1700-1800	Mandarin	9355 9455 9540 9905 11795 13715 13680 15510 15680
1800-1900	Mandarin	9355 9455 9540 11520 11995 11740 13680 15510 15680
1900-2000	Mandarin	9355 9455 9605 11520 11740 11785 13625 13680 15510 15680
2000-2100	Mandarin	9355 9455 9850 11520 11700 11740 11785 13625 15680
2100-2200	Mandarin	7105 9850 9910 11700 11740 11935 13625 15680
2200-2300	Korean	7460 9385 9770 11670 12075
2200-2300	Cantones	9355 9955 11785 13675
2230-2330	Khmer	9490 9930 13735
2300-2400	Mandarin	9910 11785 13640 13800 15430 15550 15680
2300-2400	Tibetan	7470 9365 9395 9805 9875
2330-0030	Vietnam.	9975 11560 11580 11605 11670 12110 13735 15560

(Mendez-ESP/Cumbre DX)

Radio Marti 03-28-04 to 10-30-04, all in Spanish

0000-0300	6030 7365 11775 15330
0300-0400	6030 7365 7405 11775
0400-0500	6030 7405 9805 11775
0500-0600	6030 7405 9805 11775
0600-0700	6030 7405 9805 11775
0700-0900	5980 6030 7405 9805
0900-1200	5980 6030 9565 9805
1200-1300	7405 9545 9805 13820
1300-1400	7405 11845 13630 13820
1400-1700	11845 11930 13630 13820
1700-1800	9565 11930 13630 13820
1800-2000	9565 11930 13630 13820
2000-2100	9565 11930 13630 13820
2100-2200	9565 11930 13820 21500
2200-2300	6030 11930 13820 15330
2300-2400	6030 7365 13820 15330

(IBB A-04, extracted by Glenn Hauser for DX Listening Digest)

Declaring that "we are working for the day of freedom in Cuba," President George W. Bush took steps Thursday to bypass Havana's jamming of U.S. broadcasts there. Bush ordered deployment of military aircraft to transmit signals of **Radio Marti** and **TV Marti**, which are based in Miami. The U.S. plan involves using C-130s to fly over international waters adjacent to Cuba. Operations are expected to

begin in a few months." (Gardner-MEX/NZ DX Times/13 May/NZ DX League)

UZBEKISTAN *Radio Tashkent* A04

0100-0130	English	9715 7190
0130-0200	Dari	9715 7190
0200-0230	Pushtu	9715 7190
0230-0330	Uzbek	9715 7190 5025
0600-0630	Turkish	15200
1200-1230	English	17775 15295 9715 7285
1230-1300	Urdu	17775 15295 9715 7285
1300-1330	Hindi	17775 15295 9715 7285
1330-1400	Mandarin	5060
1330-1400	English	17775 15295 9715 7285
1400-1430	Uighur	5060
1400-1430	Urdu	17775 15295 9715 7285
1430-1500	Hindi	17775 15295 9715 7285
1430-1500	Mandarin	5060
1520-1550	Dari	9715 7285 6190
1550-1630	Uzbek	9715 7285 6190 5025
1630-1700	Persian	9715 7285 6190
1700-1730	Turkish	9530
1700-1730	Arabic	9715 7285 6190
1730-1830	Uzbek	9715 7285 6190 5025
1830-1900	Persian	9715 7285 6190
1900-1930	Arabic	9715 7285 6190
1935-2030	German	11905 5025 [9545? wb]
2030-2100	English	11905 9545 5025
2130-2200	English	11905 9545 5025

(Bueschel-DE/BC-DX/Top News)


Summer A-04 schedule for *Voice of Tibet*:

1212-1300	15645 DB (alt.15635, 15660, 15680) 17525 TAC (alt.17505, 17745, 17765) 21520 TAC (alt.21545, 21550, 21560, 21590, 21720)
1430-1517	17540 TAC (alt.17520, 17765, 17800, 21650, 21720)

(Observer-BUL)

KRSI-Radio Voice of Iran "Radio Seday-e Iran" 1530-1730 is on 17525 now, ex-11520 [Tashkent-UZB 100 kW]. (Domen-BEL, May 4/DX Listening Digest/Hauser-OK)

VIETNAM 4740 *Son La Radio*, on May 2 at 1153-1205. Vietnamese, Before 1200 non-stop mx, canned ID heard at 1200. Talk and regional song.

5035.2 ***Voice Of Vietnam***, on May 1 at 1140, 23332 Hmong service, Reginal song and talk. Canned ID heard at 1200. (Hiroshi Tokusa-JPN, JPN-premium May 7/BC-DX Top News/Bueschel-DE) 

Pirate Radio Report

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

Hello and welcome to the *June 2004* edition of the *Pirate Radio Report*. I hope you enjoyed the double issue last month. Summer conditions are well in effect, with rather high static levels observed recently. Europirates can still be heard but will now be possible only during the 0000-0400 time period.

Loggings

Many thanks to Rich D'Angelo of PA and George Zeller of Ohio for this month's contributions.

Mystery Europirate On 6220 kHz. This one was heard again, most recently on May 2nd at 0010 UTC with the usual non stop pop and disco music format. [D'Angelo-PA]

Ironman Radio, the station owned and operated by Scruffy Swab, was noted with a very nice signal on May 27th at 0001 UTC on 6925 kHz in AM mode. Scruffy was conducting a contest for his listeners. He played several songs, such as "Free" by Train, "Woman" by The James Gang and "Help" by The Beatles. For each song played, there was a choice of three pirate stations to pick from that would most identify with the song. Listeners were invited to send in their guesses via email to: Ironman6925@hotmail.com or by postal mail to Box 1, Belfast, NY 14711. [Lobdell-MA]

Message From Mars. What is this you ask? Intelligent life from Mars in the pirate bands? Actually it's a program usually relayed by pirate **Undercover Radio**. This time it was heard on 6925 kHz USB at 0103 to 0130 UTC on May 18th. It is a message from an Underground Martian civilization, the Sidonians, telling earthlings to stop sending unmanned probes to Mars. [Lobdell-MA]

Ragnar Radio, 6925 kHz USB, noted on May 23rd from 2200 UTC until 2203 sign off. A weak signal with a musical program. A couple of IDs were noted just prior to sign off. [Zeller-OH]

TIE/Take It Easy Radio has been quite active lately, heard on May 16th at 0206 UTC giving the Merlin, Ontario maildrop at sign off on 6925 kHz USB. [D'Angelo-PA] Same with barking seal/Bufalo Bob segment. [Zeller-OH] Take It Easy Radio now uses the Merlin, Ontario, Canada maildrop: Box 293, Merlin, Ontario NOP 1W0, Canada

WMPR aka Micro Power Radio was logged on May 24th on 6925 kHz in a slightly overmodulated AM mode at 0109 sign on until 0155 sign off. The usual techno-pop instrumental tunes with "You're Invited" station IDs. [Zeller-OH]

WBYP continues to be very active, using his recently repaired E.F. Johnson Valiant AM transmitter. He was last noted signing on at 0052 UTC on 6925 kHz in AM on May 25th. James Brownyard was playing music, talking about the change in the weather and a 500 mile commute. Sign off occurred sometime around 0207 UTC. [Lobdell-MA]

Pirate CDs Currently Available.

I have been working on putting more short-wave pirates on CD for the studio copies I have on cassette. Here is what is currently available for sale:

1. *Radio Azteca-The First 29 Shows.*
2. *The K2000 Collection:* All shows.
3. *The Kirk Trummel Collection:* 33 different programs, including Radio Doomsday, KTVI, Spam Radio, etc.
4. *NA SW Pirates Volume 1:* 20 shows from the early-mid 1990s
5. *NA SW Pirates Volume 2:* 19 shows from the early and mid 1990s
6. *NA SW PIRATES Volume 3:* 29 shows from the early and mid-1990s.

These are \$7.00 each. Buy three or more at one time for \$5.00 each. Email me for more info.

Happy Pirate DX!



QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010

Please Note: This month's QSL Column will be very short. This is the first time I've done this in all the year's of editing. My work load is so bad that I've been in the office every night for weeks. Besides all that I've moved after 21 years in the land of ESPN. I purchased a beautiful full log cabin on a few acres bordering federal property. Have to hide those antennas. Anyway, the new address is: 78 Blakeman Road, Thomaston, CT 06787.

ANGUILLA: Caribbean Beacon 11775 f/d cd. in 1 mo. (Field-MI).
ASCENSION ISLAND: Voice of America 7265 f/d "Dishes at Northern Mariana Islands Transmitting Station" cd. in 23 ds. w/ lapel pin, stickers and * a calendar. (D'Angelo-PA). Radio Prague 11665 f/d cd. in 2 wks. w/ calendar and schedule. (Field-MI). WYFR 21680 f/d "30Years Anniversary" cd w/ site and a fistfull of religious literature in 22 ds. for ms.(not used). (Barbour-NH).
AUSTRALIA: VL8A 2310 via Alice Springs frequency only ltr. from Barbra Lillebridge, Administrative Officer, Property and Support Services in Darwin in 15 ds. (D'Angelo-PA). VL8T 2325 via Tennant Creek ltr. in 15 ds. (D'Angelo-PA). VL8K 2485 via Katherine ltr in 15 ds.(D'Angelo-PA). Voice International 13685 f/d cd. w/ site in 32 ds. for 1 IRC. v/s K.J. Boudner. Personal ltr. was also rcvd.(Barbour-NH).
BRASIL: Radio Guaruja Paulista 5045 ltr. in 1 mo. from Orivaldo Rampayo, Director / Presidente. Also rcvd. magazines, tourist info stickers, fact sheet about the station. This is my 125th QSL from a Brazilian SW station. (Field-MI).



25
*Siendo la voz y el sentir
de nuestros pueblos*

Jedn, 16 de enero de 2002

Sr. John Sgrulletta
337 Bullet Hole Road
Mahopac, NY 10541-2605
U.S.A

Estimado John:

Recibe el saludo cordial de todos los trabajadores y trabajadoras de Radio Marañón. Esta carta tiene como objetivo agradecer su informe de recepción de nuestras transmisiones en Onda Corta.

Nos agrada mucho que Ud. nos confirme que la señal de nuestra emisora llega a su país. Le enviamos muchos saludos y le pedimos que los haga extensivos a su familia.

Junto a esta carta le enviamos una tarjeta QSL, un almanaque de oficina y tres calendarios de bolsillo que esperamos sean de su agrado.

Le invitamos a seguir en contacto de nuestra emisora y a seguir en contacto con nosotros. Mucho le agradecemos que nos confirme la llegada de esta carta escribiendo un e-mail a la siguiente dirección: mrsmiche@radiomaraon.org.pe

Atentamente,


Marco Kusnische Parizca
Periodista
Radio Marañón
Jedn - Perú

CHINA, PEOPLES REPUBLIC
OF: Xinjiang Peoples
Broadcasting Station
5060 f/d cd. w/ ltr.
and stamps in CH in
31 ds. for \$1.00.
(Paszkwicz-WI).
CLANDESTINE: Radio Sol-
idity 15275 my
rpt. to the USPO
Box in Washington
DC was returned as
closed. New address
anyone? (Field-MI).

Full Column next mo.
Can't wait to set up
some antennas and
"hear" what noise
free sounds like!



Net Notes

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

While looking for an alternative to the horrendous commercial interruptions of game 7 between the NHL Flyers and Lightning, the search for the Florida radio station led to the discovery of a Web site that details sports networks. This site looks very good, and covers virtually all major USA and Canadian sports, even soccer. Wayne Brummet has been doing this since 1994. Travelers and MW/FM DXers, dial up 'The Game Live' at thegamelive.com -- you will need the usual complement of audio players.

Many Web users know of the road map sites exemplified by [MapQuest](#), [Maps On Us](#), [MapBlast!](#) and [Mapsc6](#). The GPS manufacturer Garmin offers an interesting alternative at garmin.com/cartography with a number of maps under the "MapSource Map Viewer" (at the upper right). The very last map is a world map; drill down to distances of less than a mile. Obviously data in some areas of the world is lacking, but it is interesting to poke around in cities while listening to the local stations via the net.

There are a number of reasons why it is useful to look up area code and exchange numbers. In NA, long distance caller ID identifies the state or province. The radio station call is mumbled, and the advertisers don't bother to include the town/city name in the spot. And so it goes.

For some months now, Google has included the cheap trick of recognizing a NANPA.com formatted number and returning search results, but areacode search sites tell so much more. We like areacode-info.com for a number of reasons: there is a ton of data here about anything and everything in the NANP.


Under "Plans" click on "Local Calling Areas" and enter the area code and exchange. The results return the rate center, switch, lata: the bottom line is you can identify wired versus cellular phones, local area codes and reverse lookups.

Other sites that may be useful are areacode.com and, to make it easy to dial international calls, countrycallingcodes.com.

Mark Fine and some other club members know that one of my favorite musical shows on the air is the Voice of Russia's Folkbox (UT Tu NA, Th Eu). Over the years the WRN.org feeds never included the show.

All that has changed now. The VoR is using the Windows Media Player to broadcast audio 24 hour all day long. English is broadcast at 06-13 Moscow time, 4 hours ahead of GMT. The 32 Kbps audio quality is excellent. Tune to www.vor.ru/Audio/audio_eng.phtml and have a look.

If you go to Fine's "What's My Linx..." at www.fineware-swl.com/swl_etc_audio.html, the links under "broadcasts" directly activate the appropriate media player. Mark's page is a quick one-stop pick list that filled the gaps we overlooked at mysite.verizon.net/trscons/audlovisual.html; our page was put together as a more effective solution than editing three or four favorite files.

It appears to us that the Museum of Television and Radio has significantly overhauled its Web site at mtr.org. Interesting audio is found through the pages. The Manhattan location opened in 1991; Los Angeles, 1996. If business or vacation takes you to one of the cities, a detour may be in order. 

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	R-75, MLB-1, RS antenna system
John BEATTIE, Ventura, CA	Drake R8B, Eavesdropper dipole, MFJ1026
Jerry BERG, Lexington, MA	R8A 165' LW
Mike BRANCO, Islip, NY	No equipment listed
Ralph BRANDI, Middletown, NJ	AOR7030, R8, 300' longwire
Jim CLAR, Rochester, NY	R8, Eavesdropper dipole, Palomar loop
Rich D'ANGELO, Wyomissing, PA	TenTec R340, Lowe HF-150, DX Sloper
Bob FRASER, Belfast, ME	Sony ICF-2003 ICF-SW100S 2m LW
Ron HOWARD, Monterey, CA	NRD545, LW 160'
Steve LORD, Cambridge, MA	R8B, long wire, LA5030 loop
William McGUIRE, Cheverly, MD	DX-380
David MUEHLING, Portsmouth, NH	Sat 800, 40' long wire
Martin PECK, New York, NY	Satellit 800
Louis Crisler SMITH, Thurmond, NJ	R-75, 160' long wire
Edward STROH, Thornton, IL	R8B, 55' long wire, RF Systems MLB
Wallace TREIBEL, Shoreline, WA	R8B, 70' long wire
Joe WOOD, Gray, TN	DX-390, Grundig Mini 100 PE, whip antenna

WELCOME TO THE FOLLOWING NEW MEMBERS

DALE IRELAND, Westover, WV
LEONARD KOLESKI, Toledo, OH
HAROLD HOWELLS, Gillette, WY
BOB OLIPHANT, Glendale, CA
DAVID B. CROWE, Glassport, PA
ROBERT SIEBERT, North Huntingdon, PA
WILLIAM J. COCHRAN, Marlborough, MA
A. WM. OLIVER SELKRIDGE, Bronx, NY
JAMES O. GRAY, Dayton, OH
STUART SPIGEL, Nashville, TN
WILLIAM L. PARRISH, Flushing, MI
DR. CARLTON W. PURVIANCE, Benicia, CA
DAVID TURNICK, Sinking Spring, PA

Tropical Band Loggings

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- 2310 **AUSTRALIA ABC** Alice Springs 1054 4/26 W EE tlk; very weak and hard to determine content of program. // Tennent Creek on 2325 kHz. (Stroh-IL) 0904-0915 5/17 EE, alternating talks b/w M&W; vy poor, weak. (Barbour-NH)
- 3200 **SWAZILAND TWR** 0310-0317* 5/15 M&W w/vern. tlks, POB for TWR-Zimbabwe office, choral mx, ID, IS 0315, OC to 0317. (Barbour-NH)
- 3215 **MADAGASCAR AWR** (presumed) 0322-0330* 4/28 vernacular?, light instl mx b/w brief tlks till s/off. Very poor w/ severe QRM via 3210, WWCR. (Barbour-NH)
- 3240 **SWAZILAND TWR** 0332-0345* 4/28 vernacular, M w/long rel talk, choral music, ID/IS at s/off. Fair/good. (Barbour-NH)
- 3291.06 **GUYANA Voice of Guyana** 4/22 2315 Program "Jazz for the Asking", light jazz & funk music, ad for a bank, ID "Broadcasting live from the capital, Georgetown, this is the Voice of Guyana. The time is 19 hours 30.", another ad for a different bank, Demerara Bank, Arabic-sounding music; signal very strong and clear (Brandi-NJ) 3291.18 GBC noted 5/20 0935, first time in while, giving MW, SW & FM freqs, then into sub continental music, excellent signal. 20 May (Wilkner-FL)
- 3300 **GUATEMALA R. Cultural** Guatemala City 1050-1110 ID's by M, vy strong signal, numerous ID's. (Wilkner-FL) Presumed TGNA, very good signal 0938 5/5, LA and US-style rel songs in SS, into preaching 1005. Not hrd through 1000 on 5/6. Not as good, and in hvy QRN, on 5/7 when popped on in mid-preaching at 1006, some mx, UTC-6 TC at 1025, more mx, talk 1030. No ID hrd thru 1045. Came on again in mid-preaching at 1015 5/8, no ID through 1030, hvy QRN. (Berg-MA) 1006-1021 5/17 M SS mx & tlks, no ID noted. Fair at t/in then rapidly f/out. (Barbour-NH)
- 3300.17 **COLUMBIA Emisora Ideal** [H], Planeta Rica 0950 5/13, // 2200.14, before s/on of Radio Cultural (Wilkner-FL)
- 3306 **ZIMBABWE ZBC** 2313-2332 4/24 vernacular, Afropops w/ M tlk over end of each selection, mentions "Radio Nacional". I am no expert on African dialects but it sounded like the announcer was speaking in Portuguese! Fair at t/on, f/out by 2330. (Barbour-NH) 0038-0051 5/14 vernacular, Afropops & reggae mx w/M b/w selections, solid "Radio Zimbabwe" ID 0048. First positive ID I have heard from this one! Poor/fair. (Barbour-NH) 4/29 2350 Distinctively indigenous pop music, ID "Radio Zimbabwe" 0000, more music (Brandi-NJ)
- 3310 **BOLIVIA R. Mosoj Chaski** (presumed) 0911-0932 4/29 M w/ SS tlks, flute & acoustic guitar mx. No discernible ID noted. Fair. (Barbour-NH)
- 3329.57 **PERU Ondas del Huallaga** Huanuco 1010-1030 numerous ID's and flauta andina 5/11-15. (Wilkner-Florida)
- 3345 **SOUTH AFRICA Channel Africa** 5/7 0446 talk about AIDS, music by Malathini and the Mahotella Queens, South African weather report, more music, time pips and ID 0500, into news; lots of static; spring is definitely here. (Brandi-NJ)
- 3350t **COSTA RICA R. Exterior de España** 0543 4/30 W SS tlk, bits of SS guitar mx. Poor w/QSB. (Peck-NY)
- 3365 **PNG R. Milne Bay** 1002 5/4 EE nx, EZL & soft country music pgmg. Included "Tequila Sunrise" by the Eagles at 1023. Signal was fair to good despite some local QRM, and began to fade out around 1035. (Fine-VA)
- 3385 **N BRITAIN R. East New Britain** 0937-1003 5/17 Vernacular/English?, M w/ talks in (P) EE w/ lots of numbers mentioned, Acoustic island music and chorus, tlks w/M&W, M at 1000, pretty sure in parralel w/ 4890 Port Moresby. Poor/weak, fading by 1000. (Barbour-NH)
- 3965 **S.AFRICA Channel Africa** 0353-0358* 4/24 Vernacular/English, M w/ music and tlks in language, IS/ English ID loop, "This is Channel Africa b/cing from Johannesburg, South Africa.." also mentioned b/c language but couldn't quite catch it. Off 0358, minute of silence then co-channel RFI, France s/on 0359. (Barbour-NH)
- 4052.39 **GUATEMALA R. Verdad** Chiquimula *1110 w/NA. (Wilkner-FL) 4052.48 4/18 0246 instl guitar mx, a couple of IDs, including "la estacion evangelica, Radio Verdad" 0256 (Brandi-NJ)
- 4386.59 **PERU R. Imperio** *0820-0835+ 5/2 s/on w/OA mx. SS s/on anmts 0821 w/ID. Canned ID anmts. Fair. (Alexander-PA) 4386.6 5/19 0840 indigenous music, much talking over it in SS, regular TCs, many IDs including jingle ID "Imperio! Radio!" 0858, into poss rel pgm 0900. (Brandi-NJ)
- 4388 **PERU R. Imperio** 0320-0349 4/24 M SS live rel svc. Decent siganl w/ mild QRN. (Barbour-NH)
- 4409.84 **BOLIVIA R. Eco Reyes** 2350-0005 5/11 weak w/M in SS after local harmonic on 4410 disappeared. (Wilkner-FL)

- 4750 CHINA *Qinghai PBS* Xinging (presumed), 2242-2250 4/20, Mandarin; weak but steady talks by M&W poking through the static. (Barbour-NH)
- 4750 SUDAN *R. Peace* *0230-0301+ 4/11 s/on w/lite instl mx & ID anmt, then EE rel pgmg. Canned freq & ID anmt 0246, vern talk; lcl Horn of Africa mx; EE ID 0301. Weak. (Alexander-PA) 0300-0321 4/18 vern/EE, partial EE ID at t/in, M w/vern talks, drums and choral music. Nice ID 0315, "This is Radio Peace broadcasting on 4750 kHz"; then brief choral mx & a quick, "This is Radio Peace". Talk in language resumes. Weak but steady with a few peaks above the static. (Barbour-NH) 4/11 0230 EE ID opening "This is Radio Peace signing on", talk by YL in EE; audio pretty buried, difficult to parse, ID 0246, "Broadcasting on 4750 kHz, this is Radio Peace", and again (Brandi-NJ)
- 4760 LIBERIA *ELWA Radio* 2214-2301* 5/6 M EE rel tlks & mx, s/off anmts and NA 2301. Poor, weak a t/in, improved enough to make out a few words and phrases. (Barbour-NH) EE 2254 4/28 M w/tlk, recorded pgm of some sort, into Afro pops; s/off anmt 2259 w/NA; F-P. (Clar-NY) 4/20 2258 mx, EE tlk, possible ID, close with Liberian NA (matches anthem at <http://www.thenationalanthems.com/innazionali/liberia.mid>); poor signal (Brandi-NJ)
- 4763.12 BOLIVIA "*Radio Chicha*" 1020-1040 5/13 fair w/musica andina, ments de Bolivia & La Paz, tent. ID as RC; not there 5/14, same time period (Wilknr-FL)
- 4765v BRAZIL *R. Rural* (presumed), 0234-0302* 4/21 PP, ballads, M&W tlks. Presumed canned ID 0240, rel sounding talk over organ mx 0300 s/off, carrier to 0302. Noisy, drifting frequency, too weak to positively ID. (Barbour-NH)
- 4796.71 BOLIVIA *R. Mailku* Uyuni 0955-1035 M&W in lang, 1012 string of numbers, mostly W ancr dominated conversation, fair signal (Wilknr-FL)
- 4845.23 BRAZIL *R. Cultura Ondas Tropicais* 4/23 0154 PP tlk, ID & fqy 0156, into Brazilian NA (matches <http://www.thenationalanthems.com/innazionali/brazil.mid>), then off (Brandi-NJ)
- 4869.28 ECUADOR *Voz del Upano* 1025-1058 4/21 SSP rel pgm, ID's, local mx & songs. With their own prgm'ing on, was not //3279.53. (Howard-CA)
- 4895 BRAZIL *Radio Bare* 0240-0302 5/1 px of nice PP vocals hosted by M w/PP talk & ID 0255. Poor to fair. (D'Angelo-PA)
- 4903.92 BOLIVIA *R. San Miguel* Riberalta 0310-0328* 5/2 Lcl folk mx, SS anmts. ID 0327. Abrupt s/off. Weak with swisher QRM. (Alexander-PA) On 4904.12, 1000-1020 5/14 blasting in w/ID slogans, slow transmitter drift toward 4905. (Wilknr-FL)
- 4910 AUSTRALIA *VLT8* Tennant Creek (presumed), 0825-0830* 5/16, M in EE, vy weak. Carrier cut 0829:30. No ID but the English cadence sounded Australian. (D'Angelo-PA)
- 4915 GHANA *GBC* 2258 4/21 EE & vernacular in EE and Vernacular; Afr rhythms featuring xylophone & drums. ID's, fqy anmt and ments. "Accra." Fair w/noise & fading. (Clar-NY)
- 4919 ECUADOR *R. Quito* 1008 5/15 SS IDS, slogans w/fqy, promos, into Andean mx. Fair w/QRN. (Clar-NY)
- 4944.96 BRAZIL *Em. Rural* 2353 4/23 PP M w/rapid-fire tlk, sfx and "Emissora Rural. Emissoras Brasileiras" ID's w/jingle, ad strings/promos. Fair w/QRN. (Clar-NY)
- 4949.98 ANGOLA *R. Nacional do Angola* 4/20 2308 PP nx, ID 2309 (Brandi-NJ)
- 4950 ANGOLA *R. Nacional* 0020 4/18/04 W PP tlk, ID, AfroPops; F-P w/QRN. (Clar-NY) 2254-2334 4/13 mx & PP tlk, ID 2300; then news w/mentions of Angola and Zambia, several sound bites and field rpts, presumed devotional 2316 w/ "solemn" M over mx followed by ballads w/ talk b/w songs. P/F, improving by 2330. (Barbour-NH)
- 4965 ZAMBIA *Radio Christian Voice* 4/16 0128 Christian pop music, EE anmts, ID "Radio Christian Voice" 0230. Also 5/5 0320 Contemporary Christian music (including indie rock, rap, and reggae songs), anmts & dedications by W, ID "Radio Christian Voice" by M 0327, news brief 0329 (Brandi-NJ)
- 4976 UGANDA *R. Uganda* *0300-0335 5/8, xylophone IS, W ancr w/ID "This is Radio Uganda" & brief orch anthem. W returned 0304 w/ID, opening anmts & fqy anmts. A program of local vocals hosted by Mr. Fair. (D'Angelo-PA) 4975.97 4/11 0259 IS with drums, NA, ID, ads/PSAs, "got a big program lined up for you today" (Brandi-NJ)
- 4995.6 PERU *R. Andina* 0215-0302* 5/2 M SS tlk & OA vcls. ID & fqy anmts 0235. Off just after 0300. Poor to fair. (D'Angelo-PA)
- 5009.78 DOM REP *R. Cristal Int'l/R. Pueblo* 0034-0122 4/23 M lengthy SS rel tlks, brief classical mx bits & lengthy classical vocal music. Only IDs noted were "Radio Pueblo" and "Radio Cristal Int'l" mentioned in passing at 0120. Poor/fair, best in LSB. (Barbour-NH)
- 5010 MADAGASCAR *RTV Malagasy* *0305-0327 5/7, IS, choral anthem; M ID & s/on anmts 0310 in Malagasy; then vocals, nx pgm. Poor to fair. (D'Angelo-PA)
- 5014.64v PERU *R. Altura* *1054-1121 4/18 OA mx, clear ID's, fair, a slight drifting to 5014.69 during the week. (Howard-CA)

- 5015 **TURKMENISTAN Radio Asgabat** 4/15 0148 talk in language, IS 0159; very weak and mostly unintelligible, but the IS broke through. (Brandi-NJ)
- 5019.93 **PERU R. Horizonte** 0010-0030+ 4/24 SS anmts, TC. OA folk mx. Poor in noise & adjacent channel splatter. (Alexander-PA) 1034-1053 5/13 OA vocals & M SS tik, IDs, ments of Chachapoyas. Poor & rapidly fading. (D'Angelo-PA)
- 5026 **BENIN R. Diff.** Parakou, 2240-2256 5/10, weak w/pop mx, ballads in FF & EE, M at 2245 tho very weak. R.Rebelde, Cuba 5025 f/in around 2250. Missed s/off due to personal phone-call. (Barbour-NH)
- 5240 **TIBET Xizang PBS** Lhasa, 2340 4/24 W CC w/presumed ID's & brief tlks between and, at times, over trad. asian mx w/flutes and drums; poor-very poor; //7385 P-Fair w/QRN. (Clar-NY) 2228-2247 5/7 Tibetan W over mx, then repetitive format of M w/sing-song chanting, "pounding" music followed by a ballad w/wailing vocals. Still going a t/out. Fair/improving, no // noted. (Barbour-NH)
- 5446.5u **USA AFRTS** 0510 4/30 American pop mx w/M singing; ham QRM. Seemed to be the only working freq at this time. Poor. (Peck-NY)
- 5677.97 **PERU R. Ilucan** (presumed), 2312-2343 5/8 SS, up-tempo mx & ballads w/ M over disco-like music b/w selections and a few listener phone calls. Very poor at t/in, much better by t/out. No discernible ID noted. (Barbour-NH)
- 5815 **DENMARK World Music Radio** 2356-0111 5/18, pop songs by Elton John, Talking Heads, occ R&B and reggae songs. WMR jingle ID's every 15 minutes or so. SINPO eventually improved to 34232. Signal strength was adequate, S7-S8 levels. Only summer-like thunderstorm QRN spoiled the reception; this should be much more enjoyable on a quieter evening. (Maroti-NY) 5/18 2230 mostly western pop music, including Elton John's "Crocodile Rock" and "Daniel", followed by a reggae version of "Brown Eyed Girl", then an ID jingle, possibly something in SS by Mano Negra or Manu Chao? (Brandi-NJ) 0054-0115 & 0124-0131 5/21, EE, weak but steady signal w/ rap/R&B mx to 0104 then quick "World Music Radio" jingle after which the format changed to power ballads/love songs. Lost the signal under excessive QRN at 0015. Re-check at 0124 w/ more ballads including "Love Hurts" by Nazareth. Excessive QRN, which I think was locally, took over at 0131. (Barbour-NH) 0222-0330+ 5/19, nice selection of recognizable oldies with a string of Eric Clapton songs followed by a lot of stuff I wasn't familiar with. Jingle ID 0303 & again 0339. Static crashes due to local thunderstorm activity marred reception. Generally, poor to fair reception, some deep fades and periodic splatter from WEWN all the way up on 5,825 kHz. Nice to have Denmark back on shortwave! (D'Angelo-PA)



International Band Loggings

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- 5985 **CONGO R Congo** Brazzaville in FR 0443, drum-based choral mx, ID's, Congolese guitar mx, mixing w/WYFR but surprisingly strong until WYFR s/off at 0459 (Brandi NJ 4/12, Howrd CA 4/20)
- 5995 **CHILE Voz Cristiana** Santiago in SP 0956, tlk, ID's, QTH, slogans, promos, ad., nx (Clar NY 4/13)
- 5995 **MALI RTM** Bamako II in FR, IS, NA, ID, fqy list, greetings by OM, mx (Brandi NJ 4/14)
- 5997v **PERU R Melodia** Arequipa in SP 0746, ID's, TC's, seems to be moving around - last hrd on 5906 in Feb. and listed at 6042 in WRTH 2004 and HFCC A04 (Alexander PA 4/8)
- 60102 **COLOMBIA LV de tu Conciencia** in SP/EG 0655, preaching translated into EG, local mx, ID "Colombia Para Cristo" QTH Bogota, song in Hebrew, good sig w/QRM underneath (Berg MA 5/5, Howard CA 5/3)
- 6030 **CANADA CFVP** Calgary in EG 0340, oldies mx, ID b/w every song, relaying CKMX 1060, ads, mx hrd much better than tlk, vp w/deep fades (D'Angelo PA 5/3, Howard CA 4/12) ED: Listed power only 100 watts!
- 6030 **GERMANY SWR** Stuttgart in GM 0331, traffic rpts for autobahn in Stuttgart area, IDs, EG lang pops (Brandi NJ 4/19)
- 6060 **ITALY RAI** Rome in EG/FR/GM 0002, nx in EG, IT aid workers in Iraq, walkouts threatened by Al Italia employees, nx repeated in FR 0008 and in GM 0011, ID 0013, IT pops- "La Luna" (Clar NY 4/23)
- 6105 **COSTA RICA R Universidad** in SP 2324, OM w/talks, starts singing and playing guitar, buried under BBC at 0000, poor w/over-mod and fades (Barbour NH 3/26) in SP 0548, classical and light orch mx (Howard CA 4/19)
- 61055 **BOLIVIA R Panamericana** La Paz in SP 1008, ID's, slogans, fqy ancmts, flutes and mx, f-p (Clar NY 4/14)
- 6110 **CANADA R Japan** relay in EG 0518, JP reggae mx w/YL singing in JP, "Asia in Focus", vg (Peck NY 4/30)
- 6130usb **JAPAN NHK-Fukuoka** feeder in JP 1114, "Radio One" feature. //36075usb Tokyo (Howard CA 5/2) ED: 600 watts!
- 6135 **BRAZIL R Aparecida** in PT 2338, PT ballads w/DJ, ID's, ads, promos, p-f. //11855 (Clar NY 4/28)
- 6140 **TURKEY V of Turkey** in EG *0300, IS, ID, pips, fqy, sked, report on Iraq. g (McGuire MD 4/9)
- 6155 **SPAIN REEN** Noblejasin FR 2326, pgm of SP mx in a variety of styles, ID's, pips 2330, lite QRM (Clar NY 4/18)
- 6160 **CANADA CKZN** St Johns Newfoundland in EG 2004, interview w/African man re Apartheid in Africa, heavy QRM from some kind of jammer after 0050 (Stroh IL 4/29)
- 6175 **CANADA V of Vietnam** relay Sackville in EG 0230, tlk by YL saying Vietnam is trying to keep South Asia free of nuclear weapons, ID, cultural nx, rpt on Iraq (McGuire MD 4/14, Peck NY 4/30)
- 6190 **GERMANY Deutschlandfunk** Berlin in GM 2258, ballad, ID 2300, nx, financial cmntry w/slow, deliberate reading of numbers, long electric jazz-funk tune, pips, nx? (Barbour NH 5/3, Clar NY 4/25, D'Angelo PA 5/11, Brandi NJ 4/21)
- 6957 **PERU L Voz del Campesino** Huarmaca in SP 0123, nice SP ballads, fast-paced tlks, ID, s/off 0141, g (Barbour 4/23)
- 6973 **ISRAEL Galei Zahal** Tel Aviv in HB 2326, phone tlks, ID's, Israeli pop mx, fair w/fading & ute QRM (Clar NY 4/20)
- 7130 **SRI LANKA Deut Welle** relay in EG 0010, rpt on problems of YL Jewish rabbi being accepted in orthodox areas, contest details/promo, ID's, QTH, poor w/QRM and fades, //9825 Wertachtel (Clar NY 5/9)
- 7160 **ALBANIA RTirana** in EG *0145, guitar-flute IS, ID, fqy, sked, tlk re meeting of Albanian PM w/Polish counterpart, other national nx, f-p w/slight het and "crackling fire" noise (Peck NY 4/30, McGuire MD 4/11)
- 7210 **BENIN ORTB** Cotonou in FR 2243-2310*, pops, ballads, tribal mx, tlk over flutes, ID, f (Clar NY 5/4) in FR *0558, NA, ID, fqys, tlk w/mentions of Benin, reggae mx (Brandi NJ 4/18)
- 7240 **CHINA Tibet People's PBS** Lhasa in CH 2248, tlks, mx bridge, ID, lang lesson?, p-f (Barbour NH 5/7)
- 7255 **NIGERIA V of Nigeria** Ikorodu in FR 0500, IS, NA from brass band, ID, tlk on import of UAE goods (Peck NY 4/30)
- 7275 **TUNISIA RTV7** sfaxin AR0400, abrupts/onw/local pop mx, zinther & drums, ID, vg, //7190 (Peck NY 4/30)
- 7280 **ROMANIA RRI** in EG 2320, feature on surrealist RM poet, "RRI Encyclopedia" program, fair w/QRM (Clar NY 5/8)
- 7295 **MALAYSIA RTM Radio 4** Kajang in EG 1040, EG pop rx, tlks, slogans, ID's, vpw/severefades/QRM (Clar 4/13)
- 7305 **VATICAN STATE VR** in FR/EG 0247, ending FR service, into EG 0250, IS, ID in Latin, g (McGuire MD 4/2)
- 7345 **CZECH REPUBLIC R Prague** in EG *0100, IS, ID, rpt on Czech leader's visit to China, g (McGuire MD 4/12)
- 7365 **RUSSIA FEBA** relay via Irkutsk in EG *1500, IS, ID, feature sounded like dramatic readings from scripts (sermon?) website, Toronto mail address, poor w/QRM, QRM (Treibel WA 4/24)

- 7400 **BULGARIA R Bulgaria** in BG 2144-2224, OMw/tlk, popmx/ballads, nx?, ID's, fair signal (Barbour NH 5/2)
- 7475 **GREECE VOGA** Avlisin GK0344, tlk by OM, British popmx, sports, ID "EdhoAthina", vgw/QSB (Peck NY 4/29)
- 7545 **UKRAINE RUT** Simferopol in EG 0000, "Ukraine Today", "Close Up", ID, "Ukraine Diary", DX pgm emphasizing stations that best in Ukrainian, fuzzy audio but good signal (Barbour NH 4/23, McGuire MD 4/13, Clar NY 5/9)
- 9345 **ISRAEL Reshet Bet** Jerusalem in HB 0301, pips, ID, comedy pgm w/stuttering sounds and rather drunk-sounding crowd, p-f w/QSB (Peck NY 4/30) in HB 2355, ads/promo for "Magic Voices" w/mx backing, nx (Clar NY 4/27)
- 9415 **CZECH REPUBLIC R Prague** in EG 2230, Elvis rx, IS, ID, fqy, sked, mention of Easter, g (McGuire MD 4/12)
- 9440 **SLOVAKIA RSI** in EG 0120, tlk re Slovakia soon to become member of European Union, representative from Ireland comparing pension systems in Ireland vs. Slovakia w/Slovak rep, g/vg (Peck NY 4/30)
- 9455 **NORTHERN MARIANAS Radio Free Asia** relay via Saipan in VT 1455, ID in EG 1500, good signal until change in pgm to CH at 1500 when heavy CH mx jamming came on clobbering xmsn (Treibel WA 4/25)
- 9460 **TURKEY V of Turkey** in TK 0000, pips, ID, national nx, mx (McGuire MD 4/22, Muehling NH 5/8)
- 9510 **GREECE Radio Farda** relay via VOA xmtr in Farsi 0718, Western & Arabic popmx, ID 0721 (Brandi NJ 4/22)
- 9525 **SWAZILAND TransWorld R** relay in FR 2015, religtlk, inspirational mx, handbell US, fw/fades (Clar NY 4/11)
- 9560 **SOUTH KOREA RJK** in EG 0200, IS, ID, rpt on train accident in No Korea, econ nx for NY and HongKong, YL tlk re status of Sulaimaniya a Kurdish region in No Iraq, //15575 (Peck NY 4/30, McGuire MD 4/26)
- 9560 **GREECE VOA** relay Kavalla in HD *0030, IS "Yankee Doodle", pgm note, nx in HD, mentions "Bin Laden", "Iraq" and Paul Bremer, f-g with QRN and fading (Clar NY 5/7)
- 9570 **THAILAND R Thailand** in EG *0000, TC and "Good morning", nx, tlk re elections in Bangkok, p w/QRN (Clar 5/7)
- 9580 **SERBIA AND MONTENEGRO IRSM** in EG *0000-0028*, ID, fqy, cmt, "News and Press Review", s/offancmt "Radio Yugoslavia, the International Radio of Serbia and Montenegro", g (D'Angelo PA 5/7, Clar NY 4/20)
- 9600 **VATICAN CITY Vatican R** in VT 2313, IS, ID, "Laudetur Jesus Christus", organ flourishes, f-gw/QRN (Clar 4/18)
- 9640 **CANADA Deut Weller** relay in GM *0000, ID, rpt on meeting in Oslo, ment Afghanistan, g (McGuire MD 4/27)
- 9650 **VATICAN CITY VR** in EG 0148, drama/documentary on St. Anselm, xmsn to S Asia, ID, IS at 0159 (Clar NY 4/27)
- 9690 **SPAIN China R Int** relay in EG *0300, IS, ID, rpt on kidnapping of Chinese in Iraq, g (McGuire MD 4/12)
- 9695 **BRAZIL R Rio Mar** Manaus in PT 1032, tlks, echo effects, promos, slogans, ment "Rio Mar" (Clar NY 4/13)
- 9705 **INDIA AIR** Panaji, Goa in EG 0030, nx re India & Pakistan, cmtry re technology, ID, brief mx, p (Clar NY 4/25)
- 97207 **PERU R Victoria** Lima in SP 0045, live coverage of mx event/festival, break to studio, fair until 0059 (Barbour 4/25)
- 9737 **PARAGUAY R Mac de Paraguay** in SP 0100, tlk re Bush's plans for dealing w/terrorism and bombing of American Embassy in Syria, listener call-ins to mx pgm, rare ID's (Barbour NH, Peck NY, Clar NY, Stroh IL, Brandi NJ)
- 9755 **FRANCE China R Int** relay in EG *0400, IS, ID, report on VP Cheney's visit to China, g (McGuire MD 4/13)
- 9755 **CANADA R Monte Carlo** relay in AR *0300, IS, time pips, ID, regional nx, g (McGuire MD 4/13)
- 9760 **CYPRUS Cyprus BC Corp** Limassol in GK 2225, tlk, opera mx, interesting folk mx, s/off 2241, vg (Muehling NH 5/8)
- 9780 **YEMEN Radio San'aa** in AR 0315, tlk by OM in almost robotlike voice, ID's, local folk mx by various groups, native drums and flutes, fair w/QRN (Peck NY 4/29)
- 9790 **HUNGARY R Budapest** in EG 0245, HG folk mx ensemble "Muzsikás", ID, f-g, half hr xmsn to NA (Peck NY 4/30)
- 9820 **CUBA R Nacional de Venezuela** relay in SP 2320, IS, ID, sked, target areas, mail addr, orch mx, vg (Barbour NH 4/26)
- 9830 **TURKEY V of Turkey** in EG *2200, IS, ID, fqy, sked, nx, "The Balkans" (Fraser ME, Muehling NH, McGuire MD)
- 9840 **VIETNAM V of Vietnam** Hanoi in EG 1022, nx, tlk re econ incentives for Viet farmers, traditional VT mx, ID and s/off ancmt 1027, f-g with QRN (Clar NY 4/13)
- 9880 **KUWAIT R Kuwait** in AR 1856, "Breathless" OM over vocal mx, ID, nx bulletin 1900, g (Barbour NH 5/3)
- 9880 **RUSSIA China R Int** relay from Moscow are in EG 2209, nx, Beijing wx, ID, promo, feature, f-p (Clar NY 5/2)
- 9905 **IRAN VOIRI** Kamalabad in SP 0120, political cmntry, ment GW Bush and C. Rice, sked, fqys, IS, ID followed by NA and chanting in AR, fair w/fading (Clar NY 4/18)
- 9925 **GERMANY V of Croatia** relay via Juelich in CR *2300, ID, mainly nx, g (McGuire MD 4/14) in CR 0220, pop mx by various groups, "Glas Hrvatska" ID 0232, into tlk in SP, vg (Peck NY 4/30)

- 11570 **PAKISTAN R Pakistan** in Urdu 1815-1904*, tlks b/w ballads, OM w/lengthy "sing-song" chanting followed by prayer and into Koran w/brief ancmts, solid ID and NA at s/off, fair w/improving signal (Barbour NH 4/21)
- 11600 **CHINA R France Int** relay via Beijing in FR 1107, nx, tlk re violence in Najaf, Iraq and Al Italia strike, pgm promo, ID's, into some sort of feature, f-p with fading, //11845 (Clar NY 5/8)
- 11655 **NETHERLANDS RNF** fveoin EG 2020, "Vox Humana" re Latin American baby adoptions, f (Fraser ME 4/11)
- 11690 **JORDAN R Jordan** in EG 1616, press review, reaction to situation in Iraq, ID, promo, mx, fair w/QRM (Clar NY 4/12)
- 11690 **LITHUANIA R Vilnius** Sitkunai in EG 0042, tlks re presidential election in Lithuania, ID, f-g w/QRM (Peck NY 4/30)
- 11700 **BULGARIA R Bulgaria** in EG *2300, IS, ID, fqy, sked, nx, g (McGuire MD 4/12) in EG 0213, tlks re investments in the Bulgarian economy and land consolidation in Bulgaria for more usable use of arable land, ID's, f-g (Peck NY 4/30)
- 11715 **INDIA AIR** Panaji Goa in EG 2132-2207, long political tlk, mx, pgm preview, ID, nx, f, //9950 (D'Angelo PA 5/1)
- 11725 **EGYPT R Cairo** in EG 2315, pips, NA?, ID, nx re Gaza withdrawal and Africa Telecom Conference in Cairo, sked, "The Book of Koran" w/translations, fair w/muffled audio and QRM (Clar NY 5/3, Branco NY 4/5)
- 11815 **BRAZIL R Brasil Central** in PT 2348, relig tlk, ID, QTH, ad, jingle, inspirational mx, fair w/QRM (Clar NY 5/4)
- 11850 **UZBEKISTAN Voice International** Tashkent in HD 0249, tlk, vcls, EG ID, India address (Brandi NJ 4/15)
- 12020 **ECUADOR HCJB** Quito in PT 2329, pips, ID, QTH, fqy, slogan, sked, religious tlk, g-vg (Clar NY 5/5)
- 120799 **ALBANIA Trans World Radio** relay Cerrik in Armenian 1535, mostly tlk in lang, ID and IS at s/off (Brandi NJ 4/12)
- 13610 **SYRIA R Damascus** in SP 2347, political tlk, Mideast mx, ID's, fanfare, p-f w/muffled audio (Clar NY 4/21) in EG 2008-2211*, ancmts, ID's, sked, nx, AR mx, (Alexander PA 4/17)
- 13630 **AUSTRALIA R Australia** in EG 0005, ID's, nx for Asia and the Pacific, items re planned Chinese satellite launch and dengue flu mosquito, f-p w/fading (Clar NY 4/19)
- 13640 **TURKEY Vof Turkey** in GM 1728, IS, pips, ID, fqy, nx, tlk re new Bin Laden tape, good signal (Clar NY 4/15)
- 13685 **AUSTRALIA Voice International** via Darwin in EG 1144, Christian pops, nx re ABBA and upcoming hip-hop concert in Kuala Lumpur, Malaysia, promo for "Real Sport", abrupt s/off in mid-song 1257 (Clar NY 4/16, Brandi NJ 4/23)
- 13740 **CUBA R Nacional de Venezuela** relay in SP 1900-1950, 16 note IS, YL/OM ancrs w/mx and presentations, ID's, audio cut out suddenly at 1941 but carrier remained; audio resumed 1947 (Beattie CA 4/24, Clar NY 4/15)
- 13740 **VIETNAM Vof Vietnam** Son Tay in EG 1913, tlk re recent visits to Vietnam by U.S. servicemen for first time since war ended, ID's, xmsn completely obliterated at 1920 by s/on of Venezuelan relay, p-f (Clar NY 4/25)
- 13795 **INDIA AIR** Bangalore in HD 2353, subcont mx, tlk, ID at 0000, //11740, p-f with QRM & fading (Clar NY 5/3)
- 13865 **ICELAND Rikisutvarpid** Reykjavik in IC *2258-2329*, OM in tlk, instrum'l's, ID 2300, nx, fair (D'Angelo PA 5/12)
- 15075 **INDIA AIR** Bangalore in HD *0313-0351, ID, ancmts, HD vocals, cmntry, features, p-f, //13695 (D'Angelo PA 5/11)
- 15140 **INDIA AIR** Delhi in RS 1621, talk and ID's, pgm of HD pop mx, fair w/fading, //11620 (Clar NY 4/13)
- 15155 **INDIA AIR** Aligarh in EG 1935, tlk re rpt by trade minister on import-export imbalance, ID, subcont mx (Clar 4/24)
- 15170 **ROMANIA RRI** in FR 1706, tlk re US and British troops fighting Iraq militia, ID's, mx, f w/fading, //11765 (Clar 5/8)
- 15225 **UNITED ARAB EMIRATES AWR** relay via Abu Dhabi in EG 1550, low key sermon, IS, ID at 1558, fair reception with splatter from China relay Canada on 15220 (Treibel WA 4/26)
- 15245 **SOUTH AFRICA Channel Africa** in FR 1644, pgm of pops and reggae, ID's, pgm notes, off abruptly 1655, f (Clar 5/8)
- 15255 **GREECE VOA** relay Kavalla in EG 1800*, "Issue in the News", fair signal (Fraser ME 4/18)
- 15280 **AUSTRIA AWR** relay Moosbrunn in AR 1850, tlk in lang, AR mx, ID in EG at 1859 s/off (Brandi NJ 5/7)
- 15385 **SPAIN REE** Noblejas in EG 0045, "Africa Today", tlk on sustainable agriculture, ID, SP lesson, f w/QRM (Clar 4/17)
- 15395 **UNITED ARAB EMIRATES R Dubai** in EG 1335, "Images of Arabia" re Arab physicians, AR mx, Koranic recitation ID, pgm about the Koran and how it deals with women, //13675, 21605 (Alexander PA 4/9, Brandi NJ 4/23)
- 15410 **MADAGASCAR Deut Welle** relay in EG 0527. "Deutsch - Warum Nicht?", ID, "Africa This Week" (Brandi NJ 4/18)

- 15450 **TUNISIA RTV Tunisienne Sfax** in AR 1434-1504, two OM ancrs at sporting event, numerous ments of Mauritaine and Mubarak, post game tlks, nice vocal ballad, quick ID 1500, nx 1502, vg-f, // 17735 weak (Barbour NH 4/14)
- 15455 **RUSSIA V of Russia** via Yekaterinburg in EG 2022, ID's, interesting discussion re "privatization" in Russia and upkeep/preservation of historic sites and monuments in Moscow, f-g (Clar NY 5/1)
- 15495nf **UNITED KINGDOM "Leading the Way"** bcst via Rampisham relay in EG/Farsi/RS *1700-1730*, OM preaching with YL translating in to Farsi on May 7, closing orch mx, pgmg stopped at 1725 but carrier remained. Checked again on May 9 with EG story of Abraham translated by OM into RS, no ID hrd but ment of Dr. Michael Youseff, principal official of "Leading the Way", archair signal quality, bcst on Tue/Fri/Sat/Sun (Berg MA 5/7-8-9)
- 15530nf **ECUADOR HCJB Quito** in JP/EG 1130-1230, 40th anniversary Japanese special, mostly talk with a little EG here and there, "Amazing Grace" song, req rpts at s/off, g (Berg MA 5/1) ED: Final SW pgm in JP after 39 yrs of ministry.
- 15650 **GERMANY Pan American BC** via Juelich in EG 1505-1514*, Bible preaching, British Columbia QTH, YL quoting Psalms, ment listeners in the Middle East, abrupt s/off in mid-sentence, muddy audio (Barber NH 4/14)
- 15695 **GERMANY IBRA Radio** via Juelich relay in Swahili 1749-1802, tlks and phone sfx, Afropop-like mx, w/talk over several ments of "studio" and "Tanzania", ID "Radio Tanzania"? at 1800, presumably pgm was produced in Tanzania, fair signal (Barbour NH 5/7)
- 15810 **DENMARK World Radio Music Randers** in EG 2156-2238, pop songs at t/in, jingle 2203, pop ballad, a simple ID "W-M-R-D" at 2207, Steely Dan's "Reeling in the Years" at 2234, fair w/long periods with no audio (Maroti NY 5/16) ED: Nifty logging since listed power of xmtr is 400 watts, not kilowatts)
- 17485 **CZECH REPUBLIC R Prague** in FR 1639, nx, ID's and ments of Prague film competition, good w/fades (Clar 4/13)
- 17515 **FRANCE RFI Issoudun** in EG 1428, sports pgm, ID 1430, into world nx, f (Fraser ME 4/14)
- 17535 **ISRAEL Kol Israel Jerusalem** in EG 1913, nx re Likud vote and weekend violence, stock rpt, wx, "Shalom" at 1924, six minute IS loop until FR service at 1930, fair signal, //15640 (Barbour NH 5/3) in EG 1916, tlk re settlements and security fence, US and UK say Israel must not harm Arafat, sked promo on Independence Day, ID's, g (Clar NY 4/24)
- 17635 **FRANCE R Jamahiriya (Libya)** relay in AR 1845, OM with long serious cmntry, ID 1856, g (Crisler-Smith MD 5/9)
- 17705 **USA V of Greece** relay via Delano, CA in GK 1600-1700, tlk of the upcoming Olympic Games in Athens and cmntry on Greek-American business partnerships, good signal w/some fading (Lord MA 5/15)
- 17715 **AUSTRALIA RA** in EG 0005, nx for Asia and the Pacific, tlk re protests in central highlands of Vietnam and human rights abuses in East Timor, ID's, promos, fair with fading (Clar NY 4/14)
- 17800 **NIGERIA V of Nigeria** Ikorodu in EG 2200, ID, nx - conference on better treatment of women in Africa, tension b/w Syria and Israel, feature on hard work as the secret of success, distorted modulation (Clar NY 5/2, Peck NY 5/9)
- 17820 **PHILIPPINES VOA** relay in EG 0020, feature on retrospective of VOA history, ID, TC, sports, poor (Clar NY 4/19)
- 17860 **RWANDA Deut Welle** relay Kigali in GM 2000, IS, ID, African service, ment G.W. Bush, good (McGuire MD 4/14)
- 21725 **AUSTRALIA RA** in EG 0223, musical pgm w/interview of a musician, ID (Stroh IL 5/1)

Clandestine/Opposition Stations

- 9745 **TAIWAN Voice of Han** in CH 1045, tlks by OM, a few lite pops, some choir singing, OM said "Bye bye" at 1058. then singing, big fanfare 1100, ID(p), into more tlk, nx?, moving bubble jammer, checked again next day against computer website version of pgm and noted the same OM w/"Bye bye", decent carrier level but very low audio, apparently run by the Taiwan Defense Dept (Berg MA 4/18-19 and 25)
- 11665 **UNITED KINGDOM Sudan Radio Service** relay via Wooferton in Vern *0259-0335, s/on w/guitar IS, multi-lingual ID's incl EG fax #, fqy, ment studios are in Nairobi, nx, "The Road to Peace" (Alexander PA 4/8, D'Angelo PA 5/5)
- 15370 **SOUTH AFRICA Clandestine "Mustaqbul"** relay via Meyerton in Somali *1200, carrier already on at 1155 tune in, s/on with Horn of Africa mx, ID, mostly tlk by YL, some mx at the end, EG ID 1227, off 1230 (Berg MA 4/8)
- 15470 **UNITED KINGDOM R Ndeke Luka** relay via Wooferton in FR 1832, nx re Saddam Hussein at tune-in, also items re Congo b/w Afropop instrumental bits, several ID's w/FM and SW fqys, f-g (Barbour NH 5/3) ~~SW~~

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