

NASA

the JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

VOLUME XXXVIII NUMBER 9

SEPTEMBER 1998

From coast to coast



YLE RADIO FINLAND

in North America

www.yle.fi/rfinland

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Eight hours a day in English, Finnish and Swedish via Galaxy Five (124 deg W, 3.820 GHz, Ch 6, Audio 6.20 MHz). Broadcast times 06.00-07.00 am, 10.00-12.00 am, 6.30-11.00 pm and 02.00-02.30 am Eastern. Available throughout North America. Enjoy Finnish music and a variety of programming – including weekly lessons in Finnish as well as features in easy-to-understand "selkosuomi".

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Audio files in English, Finnish, Swedish and other languages available at www.yle.fi/rfinland

Radio Finland is the international radio service of Yleisradio Oy. All broadcasts originate in Helsinki. Audience Service in North America at: 1-800-221-9539. Fax: 1-800-688-0113. Email: yleus@aol.com or rfinland@yle.fi. Postal address Box 462, Windsor CT 06095 USA.

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BE PREPARED

for Summer power outages!

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The SONY ICF-B200 AM/FM emergency radio will be your information source while camping or during natural disasters. Wind the generator handle for up to 15 hours of listening.



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FREELAY AM/FM/SW



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GRUNDIG YB-400PE NEW

The legend of the famous Yacht Boy 400 lives on in this latest model the YB-400 Professional Edition. Larry Magne, Editor-in-Chief of *Passport to Worldband Radio* says the YB-400PE is "... the best compact shortwave portable we have tested." Coverage is complete including long wave (144 - 353 kHz), AM band to 1710 kHz and shortwave from 1711 to 30000 kHz. FM stereo is provided to the headphone jack. A thumb wheel knob on the side of the radio provides smooth single sideband (SSB) tuning. The illuminated digital display provides tuning resolution at 1 or 5 kHz on shortwave. Two bandwidths are featured. The narrow position affords maximum selectivity, or the wide position may be chosen for best audio fidelity. The keypad will quickly get you to any frequency or store up to 40 of your favorite stations in the presets. The presets may be accessed directly or you can scan through them by using the radio's second set of UP/DOWN buttons. The YB-400PE can also frequency search. The dual digital clock is visible while the radio is playing. Other refinements include: snooze and sleep buttons, lock, HV/LW/low switch, LOCALDX switch, and 9/10 kHz MW scan selection. External jacks are provided to earphone (3.5 mm), antenna (3.5 mm) and 9 VDC input. The YB-400PE comes with: Grundig brand AC adapter, stereo ear plugs, wind-up antenna, Owners Manual, Grundig Shortwave Guide and vinyl carry case. Requires six AA cells (not supplied). The cabinet has a stunning titanium colored finish. 8"Wx5"Hx1.5"D. 1 Lb. 5 oz. One year limited warranty. This new model is in stock now.



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Universal's free 1998 Summer Catalog 98-06 covers everything for the shortwave, amateur and scanner enthusiasts. With informative photos and full descriptions. To request your copy please call toll-free: 1 800 431-3939

NASA Notes

Richard A. D'Angelo

2216 Burkey Drive

Wyomissing, PA 19610

Genie: R.D'ANGELO3

Internet: r.dangelo3@genie.com

Welcome aboard to **Dan Cashen** (1335 Harrington Road, Havertown, PA 19083) who replaces **Kris Field** as the Manager of the Company Store. Dan is our infamous organizer of the Philadelphia NASWA Chapter meetings in beautiful Kulpsville, PA. Thanks to Kris for his many years of service to the club by managing the store's activities. Naturally, Kris will continue his extensive "behind-the-scenes" activity for the club.

The DXpedition season is rapidly approaching. From time-to-time, I write Musings about our adventures to Gifford Pinchot State Park in central Pennsylvania (see this month's Musings for the latest). Periodically, some of our members have contributed Musings on this theme. It would be nice to read more from our members about DXpeditions or their listening adventures while traveling on business or vacation. How about sending me a Musing about your listening from remote locations?

Ludo Maes of the Transmitter Documentation Project ("TDP") announced in August that there are now 100 detailed specification sheets of shortwave broadcast transmitters available on it's website at <<http://www.ping.be/tdp>>. If it is related to shortwave transmitters, you will probably find it on the TDP website: links to the stations that broadcast on shortwave, links to manufacturers of shortwave transmitters, antennas and tubes, links to stations that offer airtime on shortwave transmitters, info about digital shortwave radio and links to the shortwave radio DX clubs. Access all this info through

ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave, medium wave and longwave listening, DX tips, and up to the minute hobby news. Contributors share their DX tips via their own amateur radio stations or by telephoning a "gateway" station who then broadcasts the relayed tips. Contributions are also accepted via the Internet Relay Chat (IRC) channel #swl while the net is in progress. Net Controls Dave Kirby N1DK, Hausie WB4JSP, and Bob Curtis W1EXZ host an always lively gang of DX monitors. (Best heard in the eastern half of NAM) Net info is also available at <http://www.trsc.com/swl_net.htm>. If you miss the net, you can hear it in RealAudio on the Internet, on Dave Kirby's home page, <<http://www.ncweb.com/users/dkirby/>>. Dave also posts text versions of loggings.

the main page at <<http://www.ping.be/tdp>>. Of course, where all those shortwave transmitters are installed, how many and when can be found in the publication TDP SW-98 which is available from Dan Cashen at the Company Store for only US\$10.00 in North America and US\$13.00 worldwide. Many readers keep it right next to the World Radio TV Handbook and Passport to World Band Radio in their library.

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



Our Motto is - "Unity and Friendship"

Calendar Of Events

- Sep'98 Convention.** The annual **National Radio Club Convention** will be held 4-7 September 1998 at the Best Western-Oak Hills; 7401 Wurzbach Road, San Antonio, TX 78229. 1-800-468-3507 (\$52 Singles; \$47 each for Double Rooms (two beds) and breakfast is included). Registration is \$40 and includes Saturday banquet and all the soda/beer and snacks during the weekend. Registration should include your name and the name of any guest. Send that along with \$40 each to: Mr. Dale Hamm, 11313 January Drive, Austin, TX 78753-2915.
- Sep 18 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 215-446-7831.
- Sep 18 Meeting. Boston Area NASWA Chapter.** The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Mark Meece at 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <<http://www.anarc.org/naswa/badx/>>.
- Oct 9 Meeting.** The **Tidewater SWL's** meet at 6:30 PM. For more information plus meeting location contact Joe Buch at joseph.buch@dol.net
- Oct 9 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX)** meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at <mmeece@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>
- Oct'98 Convention. Radio Fest 98** will be hosted by the Ontario DX Association (ODXA, P. O. Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada or e-mail at 70400.2660@compuserve.com) at the Mohawk College in Hamilton, Ontario on 2-4 October 1998. The registration fee is \$15.00 for the entire convention and \$5.00 for one-day.
- Mar'99 Contest. 1999 North American DX Championships.** Further information will be published in the Journal or you can send a self-addressed stamped envelope to 1999 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606.
- Mar'99 Convention.** The **12th Annual Winter SWL Festival** will be held at the Kulpsville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 12-14 March 1999. Organized by the infamous "gang of three" (Messrs. Brown, Cones, and Field) this all wave gathering attracts about 200 hobbyists each year.
- Apr'98 Convention.** The **35th Annual International World Wide Continental DX Association (IWWCDXA)** will be held in Tahiti at the Charlie Loudenoomeer Estate on April 1, 1998 from noon until midnight. Charlie will lecture continuously during this 12-hour period on a variety of boring subjects some of which may actually pertain to shortwave radio. Registration fee is a modest \$150.00 with an extra \$50.00 charge for the traditional hamburger helper banquet. More information is available from Charlie at <cl@sucker.com>.
- Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: r.dangelo3@genie.com) or Ralph Brandi (Internet: ralph@mcs.com).

NASWA

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

Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Fred Kohlbrenner** (2641 South Shields Street, Philadelphia, PA 19142). He will forward them to the appropriate editor. Remember, Fred has now expanded his business to include QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: fkohl@ix.netcom.com.

Musings

This column provides a forum wheras 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 are soley those of the submitters. Please submit all Musings to Richard A. D'Angelo, 2216 Burkey Dr., Wyomissing, PA 19610 or via email - r.dangelo3@genie.com

Doug Robertson, 4045 Sunset Lane, Oxnard, CA 93035

Allan Weiner's tug MV Electra, complete with shortwave radio transmitting station and all equipment and electrical generators, was auctioned and sold as a seized vessel by the United States Marshall's Service at Savannah, GA on 15 July 1998. As a tug owner and operator I receive periodic gratis copies of Boats & Harbors, a thrice a month trade publication from Crossville, TN. There were two printings of the auction notice in the first July issue 1998. Legal notice of the auction probably was published at least 30 days prior to the auction date in prior copies.

When I read this I suspected the targeted trade notices would escape most of NASWA's readership habits, so I immediately forwarded one of the notices to Chris Lobdell, NASWA's Pirate Radio Report editor. Chris deserves credit for his timely follow up and column report in the August NASWA Journal. Good work!

There may be more detailed information on this development in the September issue of Monitoring Times. Depending upon who purchased the vessel and for what reason or purpose, the saga of this embryo high seas pirate shortwave station may or may not be over.

73, Doug

Rich D'Angelo <r.dangelo3@genie.geis.com>, 2216 Burkey Drive, Wyomissing, PA 19610

The beginning of another DX season brings thoughts of Dxpeditions. The Gifford Pinchot gang is busy planning its agenda for the coming year shortwave listening period. We are checking with the weather forecasters at Penn State for any long range disaster weather predictions. Our adventures at Gifford Pinchot usually center around unusual weather patterns which add to the unpredictable nature of Dxpeditions. While uncle Fred Kohlbrenner is busy wiping out the local grocery store of its junk food isle, Bob "Mr. Coffee" Montgomery is traveling to South America to stock up on his favorite beverage. My preparation usually begins by trying to locate my receiver and being amazed at the dust that has accumulated over the summer months.

73 - RAD

Easy Listening

John Figliozi
45 Algonquin Road
Clifton Park, NY 12065-7703
Internet: jfiglio1@nycap.rr.com

Welcome to the new SWL/DX season, where all times are in UTC, all frequencies are in kHz., all the men are strong, all the women are good-looking and all the children are above average (with apologies to Garrison Keillor).

Radio New Zealand International

The reductions described in last month's EZL went into effect as scheduled on August 3. As has been the case with *RCI* and *Radio Australia*, there is now much greater reliance on relays of domestic services in an effort to maintain, insofar as possible, *RNZI*'s presence on the shortwave bands.

The good news is that *National Radio*, *Radio New Zealand*'s main domestic network, is excellent. Many swls enjoy "eavesdropping" on domestic service broadcasts as it gives the listener a real "feel" for the local media and creates more of an atmosphere of vicariously visiting the country. Further good news is that *RNZI*'s listener contact/DX program, *Mailbox*, has survived the cuts. It has been retimed, though, to *Mondays 2135, Wednesdays 1735 and Fridays 1930 on the 1st and 3rd weeks of the month*. That means it will be much harder-if not impossible altogether-to hear it reliably or consistently, at least here on the east coast.

Perhaps *RNZI* could be convinced to include the program in its small Internet audio archive at <<http://www.audionet.co.nz/ranz.html>> which currently carries regular editions of the programs *Pacific News* and *Sports* and *Dateline Pacific*. To make this suggestion or to express support for this excellent broadcaster going through some difficult times write to: *RNZI*, P.O. Box 123, Wellington, NZ; or e-mail them at their new address: <mail@rnzi.com>.

Now that it's September, the early nighttime (prior to 0500) window for reception of *RNZI* on the east coast will start to close for the season, but reception will still be possible for the next few weeks. Here's the program schedule for *RNZI* for the times I've noted it to be listenable on the east coast. (If west coast listeners want to clue me in on reception of *RNZI* there, I'll be happy to supplement this schedule next month.) A "*" denotes an *RNZI*-produced program. All others are National Radio relays. All National Radio programs will shift one hour earlier UTC from the first Sunday in October. Live action sports broadcasts often supersede the regular schedule, especially on weekends.

First, the full frequency schedule:

[From 1650 M-F on 6145; from 1752 M-F and 1855 Sa/Su on 11675; from 1952 Su-Th. and from 1958 F/Sa on 17675; from 0459 daily on 11905; from 0707 to 1015 closedown daily on 9700.]

2200(Su-Th) World and Pacific News*, (F/Sa) RNZ News; 2204(F) continuing from 2007 Top o' the Morning [including *Comedy* at 2210, *Fun with Food* at 2310, *CD Review* at 2330-, *The Last Word* at 2350], (Sa) Arts Week; 2210(Su-Th) Sports News; 2215(Su-Th) Drama/Literary features; 2245(Sa) Film Show; 2300(F/Sa) RNZ News; 2304(Sa) Bookmarks; 0000(M-F) Midday Report [including *Business News* at 0016, *Sport* at 0034, *Rural News* at 0036, *Worldwatch* at 0042, *News in Maori* at 0053], (Sa/Su) RNZ News; 0012(Su) This Week in Parliament, (Sa) Focus on Politics; 0033-(Su) Spectrum, (Sa) Feature music series; 0100(Daily) RNZ News; 0107(Su) Future Indicative, (M-F) Cadenza, (Sa) Home Grown; 0130(Sa) Live from the Helen Young Studio; 0135(Su) Time Will Tell; 0200(Su-F) RNZ News; 0204(M-F) In Touch with NZ

w/Wayne Mowat [including Wayne's Music at 0206, Feature Drama at 0330, Moving Right Along with David Hill(W) at 0425, In Touch w/Wanganui(M), Taupo(Tu), Waikato(W), Hawkes Bay(Th), South Canterbury(F) at 0430, News in Maori at 0450]; 0206(Su) Crosstalk; 0235(Su) Feature music series; 0300(Daily) RNZ News; 0304(Sa/Su) Literary feature series; 0330(Sa) Drama/Literary feature series; 0345(Su) Feature program series; 0400(Sa/Su) RNZ News, (M-F) Pacific Regional News*; 0406(Sa) Music feature series, (Su) In a Mellow Tone [jazz]; 0500(Sa/Su) RNZ News, (M-F) Checkpoint; 0508(Sa) Tagata o te Moana, (Su) Whenua; 0600(Sa/Su) RNZ News; 0606(Sa) Focus on Politics, (Su) Once Upon a Twice [children's program]; 0607(F) Into the Night [including Change of Pace at 0630, Country Life at 0703, City Talk at 0806, The Band Programme at 0830, BBC One Planet at 0906, BBC Bookshelf at 0930]; 0630(Sa) BBC Meridian [arts]; 0700(Daily) RNZ News; 0703 (Sa) Saturday Night [including drama at 0930], (Su) Mauri!; 0706(M) BBC Letter from America, (T) Spectrum, (W) Film Show, (Th) Bookmarks; 0720(M) The Natural World of Matthew Lark, (Th) Pacific This Week; 0727(Su) This Week in Parliament; 0730(W) Wednesday Night Country, (Th) Crosstalk; 0735(M) Music feature series, (Tu) Time Will Tell; 0745(Su) Sunday Supplement; 0800(Daily) RNZ News; 0806(Su) Sounds Historical, (M) Insight, (Tu) Live from the Helen Young Studio, (W) Playhouse, (Th) Whenua!; 0845(M) Relationships; 0900(Daily) RNZ News; 0904(M) Arts Week; 0906(Tu) Best of Brian Edwards, (W) BBC Discovery, (Th) BBC Andy Kershaw's World of Music; 0930(M-Th) BBC Bookshelf; 0950(M-Th) Mana Tangata; 1000(Daily) RNZ News.

[Sources: Radio New Zealand and Radio New Zealand International]

The Program Exchange

This month we have listening suggestions from Bob Barr and Gene Borowski. Copying a Blockbuster Video practice, I'll add an "If you like this, then you'll like..." suggestion to theirs. First, from Bob:

El Mundo Futuro (HCJB, Wed. 0130 and 0430 on 9745 and 12015) is HCJB's science and technology program. The diversity of the subjects covered and the caliber of the reporting are outstanding. "Rare is the time I don't find something of interest on this program", says Bob. Periodically they devote the entire half-hour just to new developments in health and medicine. The typical program, though, may cover subjects from outer space to under the sea and anything in-between. The subjects are covered in-depth, but not on a high academic level. In other words, the program is easy to listen to and you will learn something. This is one of those programs that makes shortwave shine.

If you like **El Mundo Futuro**, I suggest you might also try...

Quirks and Quarks (Radio Canada International, Sat. 2308 on 5960/9755/11895/13670/15305 and Sun. 1208 on 9640/11855/13650), which also is a very well-presented general science program produced by the domestic broadcaster, **CBC Radio**. It specializes in taking timely and often complex scientific topics and making them not only accessible, but also interesting and entertaining to the everyday person.

Gene takes a "wholistic" approach with his recommendation this month:

"Saturday Night with CRI" (**China Radio International, Sun. 0300-0400 on 9560 and 0400-0500 on 9560/9730**) is not the name of a program. Rather Gene suggests that a nice way to wind up a Saturday evening (especially, as he says, "if you're like me—married with children and a wife who refuses to permit me to date") is to tune into **CRI's** hour-long broadcast. After the usual news segments, there are a series of interesting short features. First is **Chinese Folk Tales**, a collection of splendid and entertaining Chinese lore. Next comes the **Chinese Cooking Program** in which a regional specialty is prepared on-air with recipes provided for the more adventuresome among us. (Cold Tsing-tao Beer is optional.) Then there's **Chinese Scrapbook**, which reports on ev-

eryday life of the peoples of China including their customs and traditions. The hour ends with **Music from China**, featuring a popular or classical artist.

Gene goes on to describe **CRI** as very listener friendly in that it is quick to reply to letters and QSL requests and is very generous with station souvenirs. The station sponsors many listener contests and issues an interesting bi-monthly newsletter, "The Messenger", which is free for the asking.

If you like listening to traditional Chinese music, I also suggest:

Jade Bells and Bamboo Pipes (*Radio Taipei International*, Mon. 0215 and Tue. 0315 on 5950/9680), which provides thirty solid minutes of traditional instrumental music interrupted only briefly by performance, cultural and historical information serving to place the music in some context for the listener. Frequencies are **WYFR** relays, so the signal is usually strong with little or no interference making the listening truly "easy".

BBC World Service Highlights

[Listings are for the Americas/Europe stream. Frequencies for North America at 1000-1800 and 2100-0700 include from time to time 5965, 5975, 6175, 6195, 9515, 9590, 9895, 11865, 15220 and 17840.]

Aspects of Age

By 2030, it is projected that one-sixth of the world's population will be over 60. Launched to coincide with the UN International Year of Older Persons, beginning in September BBC World Service is broadcasting more than 200 programs in 21 languages looking at aspects of old age around the world.

The Passage of Time, in six parts beginning Sept. 22, 24 and 25, draws on the personal testimonials of people all over the world to explore the different faces of growing old. (Tue. 0145; Thu. 0530; Fri. 1230)

Beginning Sept. 26 and 28, **The Ageing Future** is a four part series that looks 25-30

years into the future to find out people's plans for an aging population. (Sat. 1030; Mon. 0430, 2130)

The Proms '98

Concert broadcasts for the Americas this month are on the 3rd, 6th, 7th and the 10th beginning at 0301, 0305 or 0310. Only a recording of the second half of **The Last Night of the Proms** will be broadcast at 0301 on the 13th. It will not be broadcast live on any of the World Service's program streams.

New and Returning Features

Beginning Sept. 7 and 11, **Along the Great North Road** journeys for six weeks on the road from London to Edinburgh to see the sites and talk to the people along the way (Mon. 0130; Fri. 0630)...Among the consistently excellent **Play(s) of the Week** (Sat. 2230; Sun. 0530) this month is *Les Liaisons Dangereuses* (Sept. 12 and 13)...Classic lyric poems are complemented by specially commissioned works from leading contemporary poets in a new six part anthology, **The Lyrics**, beginning Sept. 13 and 15 (Sun. 1700; Tue. 0630, 1130)...Premiering Sept. 13 and 18, **Soundworks** is ten part series examining the mechanics and essence of the universal language of music (Sun. 0130; Fri. 1730)...On Sept. 18 (at 0530 and 1030) is another chance to hear the award winning documentary **First Contact: The Korubo Indians** which describes the Brazilian government's efforts to establish peaceful relations with one of the country's most isolated tribes....From Sept. 19, 21 and 25, **Code Breakers** reveals five of the most significant decipherings of the last two centuries (Sat. 0130; Mon. 0615; Fri. 1515)...On Sept. 24 at 2330, the BBC will broadcast highlights from the **32nd annual Country Music Association Awards**...A **Question of Science** returns for eight weeks starting Sept. 27 to explore some of the moral and ethical dilemmas raised by the scientific world (Sun. 1400)...Starting Sept. 27, 29 and 30 is a new 10 week series of **Chill Out** which examines issues of interest to young people (Sun. 1730; Mon. 1430, Tue. 0730)...Beginning Sept. 28 is another 8 week run of **Pop the Question**, which allows you to pose questions to your favorite rock music personalities (Mon. 1530).

A reminder that several programs carry over from June or July. Check June's and July's EZLs for details. [Sources: BBCWS Press Information and *BBC On-Air*]

Radio Budapest Highlights

0100-0130 on 9580/15685 (All broadcasts begin with News.) Sun.—**Heading for Hungary*** (1st); **Cultural Review** (2nd); **Insight** (3rd); **What's On in Hungary** (4th). Mon.—**Classical Touch** (1st); **Blues World** (2nd); **Edge 2 Music** (3rd); **Jazz Release** (4th). Tue. to Sat.—**Hungary Today**.

0230-0300 on 9840/11910 (All broadcasts begin with News.) Sun.—**Hungary Now**. Mon. and Fri.—**Report on Religion** (1st); **Talk Hungary** (2nd); **Spotlight** (3rd); **Minority Report** (4th). Tues.—(same as 0100 Mon. broadcast). Wed.—(same as 0100 Sun. broadcast). Thu.—**DX Blockbuster**. Sat.—**Education in Prison**** (1st/3rd); **Europe Unlimited** (2nd); **Tracking Integration** (4th).

*Weekly tourism tips.

Three life term prisoners are getting higher education in Hungary. There are also twelve theological students among the inmates. Others are learning English. What's the point? Find out in the special feature **Education in Prison. [Source: Radio Budapest International bi-monthly magazine]

Radio Neth. Documentaries

3rd/4th—**A Curse and a Blessing**. Bangladeshis have an extreme and passionate relationship with water. They celebrate its beauty in song and poetry, but they spend much of their time and money trying to tame and control it. Francis Rolt explores the positive and negative poles of water and creator and destroyer in Bangladesh.

10th/11th—**Landscape in the Lowlands**. Louise Williams takes an historical and contemporary look at the creation of nature in Holland.

17th/18th—**Ageing**. Pete Myers examines how, as Dutch society gets greyer, the middle-aged have become a political force in Holland.

24th/25th—To be announced. [Source: *On Target*]

Random Notes

Germany is having an election on September 27, so coverage of German politics will likely be stepped up on *DW*, the *BBC*, *RFI* and other European broadcasters as the date approaches.... Glenn Hauser reports that *RFPF* has two new programs. **A Public Affair**, a current affairs discussion program, is aired Tues. 1700, Wed. 0100, 1600 and Fri. 0000. **Pacifica Nightly News**, the daily half-hour flagship newscast from the California-based "third" US national public radio network, begins on Sept. 2nd. Time was not announced at column deadline, but look for it Mon. to Fri. (US local time) around the dinner hour or early evening.... HCJB has established a web archive for some of its programs at <<http://www.hcjb.org./radio/index.htm>>.

Reader Comments

Following on to my comments last month, Gary Rose of Springdale, AZ points out that far from listener inaction, it was massive listener protests—including some from Pacific heads of state—that saved RNZI from being axed completely. True, Gary, but the cuts eventually forced by the NZ Government came only weeks after the latter promised "stable funding" and actually published a budget that first showed no reductions for RNZI in response to those protests. Sneaky, eh?

Bob Barr says that concerted individual and collective listener action is essential and suggests the use of e-mail to regularly fire off a comment to stations and producers whenever one hears something "interesting". He says that's his practice and that he almost always gets a reply. Bob also suggests periodically sending a local post card to stations with a comment or two. Two excellent suggestions, Bob. Thank you.

That's all for now. Until October, good listening!



The Informed and Organized DXer

by Hans Johnson

Listeners overemphasize the importance of receivers and antennas in great DXing. Other critical elements, such as time, information, and organization, receive scant attention. A new receiver hits the market and captures the hobby's attention for months. The folding of a shortwave bulletin is barely mentioned, yet the publication played a greater role in what DXers heard than the receiver. The most successful DXers exploit these elements in addition to paying close attention to their receiver and antenna.

This article, while providing some general information on receivers and antennas, will focus on the elements of time, information, and organization.

Receivers

Americans love technological solutions to 'problems' and this hobby is no different. Often the first question asked in an interview with a well-known DXer is: "What kind of receiver(s) are you using?" The interviewer assumes that the secret to success lies in technology—a superior receiver. Yet a study of contributors' pages to shortwave magazines reveals that virtually all of the well-known DXers only have one receiver. Quite a few of them use rather modest receivers, such as the Sony 2010. Great DXing cannot be achieved solely by purchasing an expensive receiver.

Having said that, what constitutes an adequate receiver? Accurate dial readout, whether digital or analog. Single sideband

capability and both wide and narrow filters. A notch filter, passband tuning, and an automatic gain control are also nice. Many new and old receivers, both tabletop and portable models, fit this bill. DXers lacking most of these elements in their current receiver should consider purchasing a different receiver. Receivers are best purchased through major U.S. suppliers who offer demo and used equipment at reasonable prices. \$600 is all it takes, from a receiver standpoint, to be on equal footing with any DXer.

Antennas

Antennas are also an overrated element. Some listeners assume that they cannot hear certain stations because of their antenna setup. Or they jump to this conclusion after reading about a certain DXer's elaborate antenna setup and surmise that they won't be able to hear the same stations. Yet they conveniently ignore the other side of the ledger, that is, good listeners with simple antennas. What is true for receivers is also true for antennas, as many well-known DXers use simple and inexpensive antennas.

If possible, antennas should be strung outside and as high as possible. Insulated wire will work as well as bare and lasts a lot longer. Start off with a simple piece of wire strung in the yard. If this is not satisfactory, be willing to experiment and try different types of antennas. The NASWA Journal offers reprints of several different antenna articles. Antenna experiments will be much cheaper by building the antennas rather than buying them ready-made.

Apartment dwellers who cannot have outside antennas can tack a wire around the walls of their radio room. A temporary outside antenna, which can be taken in and out quickly, should also be considered. Most DXing occurs at night, so the chances of the antenna being discovered are minimal. String the best antenna possible, but do not allow the antenna to determine what stations to go after.

With an adequate receiver and the best antenna possible, the DXer should now focus attention on the critical areas mentioned earlier. The first of these is *Time*.

Time

Time is when a listener tunes the dials and how often. The best catches are not audible every day, they may only be heard twice a month or once a season. Alternatively, a station may only be on the air for a short time due to political or financial circumstances.

Some DXers tend to have one or two big listening sessions on the weekends, but then not listen during the week. Break those big sessions down into daily 20 minute to 1 hour blocks and the odds of hearing unusual stations jump dramatically. Unusual propagation conditions do not escape the DXer who is listening everyday nor does he miss the station that was only on the air for a few days.

Published logs describe what was heard, but they do not reflect how many times the DXer tried for the station before hearing it. Nor are there any logs of stations that a DXer has attempted to hear for years, but failed to do so. Great catches can be luck, but they demonstrate persistence much more often.

When to listen depends on what the objective is. DXers scanning the bands can listen at any time, but some times are more productive than others. In most areas of the world, the DXer tuning the Tropical Bands will want darkness or near darkness at his location. The DXer trying for a particular region of the world studies loggings sections to see when that region is heard by other DXers in

his part of the world and then listens at these times. The same method is used for hearing a particular station. If the station has not been heard for a while, a DXer should try for it when other stations from the same region are being heard.

Information

Successful DXers spend time obtaining information in order to focus and improve their listening sessions. The well-informed DXer now knows when and where to tune. Even if only weak signals are detected, this listener knows they are of interest and will make the best logging possible. The ignorant DXer will be very lucky to 'discover' this signal while just tuning around through the bands. Logging it, particularly if it is a weak signal, is much more difficult as the listener has a lot less information to work with. The knowledgeable DXer will know of tests and special broadcasts that the ill-informed one is unaware of.

Tuning and station information is available via printed materials, over the Internet, and on DX shows. However it is delivered, the information can be broken down into two broad categories. Listening guides are annual publications that either cover the entire spectrum or narrow the focus based on criteria such as region, frequency, or station network. Other media publicize loggings in addition to providing information on new stations or changes with existing ones.

An informed DXer's media list includes (see side bar for details):

DXers should get both the *World Radio TV Handbook (WRTH)* and *Passport to Worldband Radio (PWBR)* annually.

There are several excellent soft-copy publications for the DXer with Internet access: *DX Window*, *BCDX*, *EDXP*, and *Cumbre DX*.

Those without Internet access should take out a subscription to the *North American Shortwave Association's Journal* and the *Danish Shortwave Club International's*

Shortwave News. Study the loggings in both and the section entitled, *Listener's Notebook* (NASWA), *World News*, and *DX News and Tips* (DSWCI).

DXers without a computer and unable to afford the above-mentioned subscriptions should focus on shortwave shows. The programs providing the most information are: *World of Radio*, *Dxing with Cumbre*, *Media Network*, *DX Partyline and Communications World*.

Organization

Successful DXers must do more than just monitor the above media. They must organize the gathered data in order to take advantage of it. Use the *PWBR* and *WRTH* as baselines and then pencil new information into the appropriate sections of these books. The books remain up to date and new information is organized and easily found.

Copies of Internet publications are best kept as soft copies with each publication being placed into a different file. The files quickly become important references in themselves, as any data can quickly be located using the 'search' tool.

Interesting schedules and lengthy station information from printed materials can be clipped or photocopied and then place into a *WRTH* or *PWBR*.

Important audio clips from DX shows, such as interval signals or national anthems, should be recorded.

Additional processing occurs with items of great interest. These tips are made into a 'hit list'. The hit list, organized by time, also has fields for the country, station, and frequency. The list is placed near the radio and serves as an instant and constant reminder of targets that a particular DXer is especially interested in.

Conclusions

A receiver and antenna are necessary for DXing, but so is information. Without any information, every DXer would slowly be attempting to create a radio database from scratch.

A more expensive receiver or antenna may improve reception, but following the above ideas improves listening dramatically and are virtually free. Use the above media guide to obtain the latest information. Organize that information to keep reference books current and in creating a hit list. Armed with a hit list, listen daily, even if it is only for 20 minutes. Be persistent and never give up on a station. The greatest joy and rewards are for those who put in the most effort.

This article originally appeared in Monitoring Times.

A Mirage in Washington— "Radio Free Iraq"

By Hans Johnson

There are growing calls in the Clinton Administration and the American Congress for a new radio station, a "Radio Free Iraq". Born out of frustration with Saddam Hussein, such agitation breeds desperate measures such as Radio Free Iraq. Supporters can only vaguely articulate the objectives of the station, but they seem to fall into two broad categories. One group desires a propaganda

station that will play a part in ridding the United States of Hussein. Others see a station will serve as a news source for information-starved Iraqis. In either case, Radio Free Iraq will be redundant and ineffective.

The United States wants Saddam Hussein out of power. America has the ability to do this, but not the will. So, unwilling to take real action, the United States plans to settle on Radio Free Iraq along with other steps.

Radio Free Iraq serves as a neat cliché, the appearance of doing something, however ineffective that might be. "If you can't shoot them, you shout at them," explains John Nichols, associate professor of Communications at The Pennsylvania State University at Pennsylvania, USA, and co-author of *Clandestine Radio Broadcasting*.

The model for US government-sponsored propaganda station goes back to the 1950's. The CIA's Voz de Liberacion played a key role in overthrowing the Arbenz government of Guatemala in 1954. Its very success made the CIA overconfident that "psychological warfare could achieve the same goals as real warfare at a substantially lower human and monetary cost" according to *Clandestine Radio Broadcasting*.

Some proponents of the proposed Radio Free Iraq apparently harbor this fantasy. In this dream, Radio Free Iraq inspires an uprising that sets the stage for Saddam Hussein's downfall. This fantasy is also history. Voice of Free Iraq, established on the eve of the Gulf War and almost certainly a creation of the United States government, repeatedly urged Iraqis to overthrow Saddam Hussein in its broadcasts. Iraqis bravely took up the challenge in 1991, only to be slaughtered while powerful US forces stood by and watched. Voice of Free Iraq failed to overthrow Hussein, but its broadcasts resulted in real warfare at real warfare costs for Iraqis. At least one high Clinton administration official is warning Radio Free Iraq backers not to continue to shelter such desires. "If you encourage and almost incite people to rise up against their government, you incur a moral obligation to come to their defense at a moment of peril," Sandy Berger, national security advisor, cautioned in a recent *Associated Press* item by Walter Mears. Berger added that the 1991 Iraqi uprising was a case "where perhaps our rhetoric has gone ahead of what we are prepared to do."

Radio Free Iraq supporters speak of the station as though it is a new idea, something that the United States has not tried before. The reality is that American-backed stations have

transmitted to Iraq for years. The CIA built radio and television facilities in northern Iraq for the Iraqi National Congress (INC), headed by Ahmed Chalabi. In total, the Agency gave the INC 12 million dollars between 1992 and 1996, according to *ABC News*. The Washington Post reported that the Clinton Administration gave 6 million dollars to the Iraqi National Accord (INA) in 1996. Apparently, some of this money financed the radio and television broadcasts. US Congressman Christopher Cox stated in early March that the INA continues to broadcast from a US-owned transmitter facility in Kuwait. The INC, which also used this facility at one time, would like to resume its usage.

Using radio and television, these groups beamed messages into Iraq for years. What was the objective? If it was to overthrow Saddam Hussein, then they failed. But it just wasn't the INC and INA that were broadcasting, as Iran sponsors at least two clandestine propaganda stations broadcasting into Iraq. Syria also sponsored a propaganda station for years. They all have failed and a Radio Free Iraq would also fail. "Radio propaganda really doesn't change much," relates John Nichols. He adds, "These stations are preaching to the choir." So if Radio Free Iraq is to be a propaganda station, it will be ineffective.

If the objective of the station is not to incite, but to educate Iraqis, the problem of redundancy arises. The Voice of America (VOA), the official voice of the United States government, already broadcasts to Iraq several hours a day. Kim Andrew Elliott is the former head of VOA's Audience Research Department. Stressing that he was speaking independently and not as a VOA official, he argues that VOA is an important source for Iraqis for news about Iraq. "VOA doesn't get credit for this and some decision makers embrace the incorrect theory that VOA broadcasts only U.S. and general news," explains Elliott.

Supporters of Radio Free Iraq define the problem as Saddam, so why create a whole new station just to deal with him? Some

backers of Radio Free Iraq cite Radio Free Europe/Radio Liberty's success in eastern Europe and the former Soviet Union, believing that Radio Free Iraq should follow this mode. Elliott argues that it would be far more effective for VOA's Arabic branch to start a special program for Iraq. VOA's Spanish service had a similar program for Cuba in the pre-Radio Marti days. When the Iraq crisis ends, it would be much easier to eliminate the VOA program than it would be to dismantle a Radio Free Iraq station.

The British Broadcasting Corporation (BBC) spends much less money on broadcasting than the United States, yet it has a much larger audience in Iraq than any other station, including VOA. The reason is that BBC concentrates all its efforts in one station, according to Elliott. Radio Free Iraq would result in a duplication of effort that hurts U.S. broadcasting. "No matter how much money Congress may provide to U.S. international broadcasting- frequencies, transmitting sites, and talent remain scarce commodities," explains Elliott.

Then there is the problem of who controls the programming. Representative Cox appears to favor giving the INC use of American facilities in Kuwait, even though the INC's competitor, the INA, uses the same facilities. This has already been tried and resulted in failure. The CIA established Radio Swan in

1960. Hoping to repeat its success in Guatemala, this station was directed at Castro's Cuba. Competing Cuban exile groups used the station and rendered it ineffective. The exile groups vied with one another over the air, destroying the station's credibility. The expectation that the INA and INC will use the same facilities cooperatively is not realistic.

The Iraqi opposition should establish its own Radio Free Iraq with no U.S. government ties. Exile groups from Nigeria, Ethiopia, Tibet, and Burma all have radio programs. It is possible to purchase time on transmitters in Europe, Africa, the former Soviet Union, and other locations at quite reasonable rates. These groups have done it, so why can't the Iraqis do the same?

If the American powers that be deem that Iraqis need more news, then an expansion of VOA is in order. A propaganda station isn't going to work, but if so desired, let the Iraqis fund it and run it themselves. The proposed U.S.-backed Radio Free Iraq is simply a mirage of decisive action.

Hans Johnson is a freelance writer based in Conroe, Texas, USA. He has written extensively about international radio. This article originally appeared in the Washington Report on Middle Eastern Affairs.



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Okay let get back to real radio books this month. Once again we can depend on our hams friends to give us a whole bunch of useful information.

Tinkering a bit with radio circuits is a great way to get to understand more about how radio works and maybe even how you can improve your home station. It's a wonder what can be done with a fist full of junk box components. A grand name in the radio hobby leads us down this path.

Ham Radio Communication Circuit Files

By Ed Noll W3FQJ

90 pages

\$9.95

MFJ Enterprises, Inc.

PO Box 494

Mississippi State, MS 39762

Over the years Ed Noll has written fifty-two books and countless articles and manuals. He has been intimately involved in short-wave listening since 1933. Many of us in the hobby have learned a thing or two over the years from one or more of Ed's publications. I am personally very happy to see that MFJ continues to make some of Ed's greatest works available to the radio hobby once again. This book is no exception to that feeling.

Ham Radio Communications Circuit Files is a collection of simple circuits that can be taken at several levels. First, they represent a group of practical circuits that can be used to modify, improve and enhance your current hardware in dozens of ways. Each of the circuits discussed in the book is fully documented with all associated component values. You can pick a page and warm up your soldering iron. Second, the books 61 circuits include educational discussion and supportive experiments so you can use this book to

further your understanding of the radio hobby through practical "hands on" training. Finally, and the thing I enjoyed the most about the book, is that the simple circuits can be built in a "stand alone" environment and then they can be tweaked and tinkered and modified in dozens of ways. Hmmm... I wonder what would happen if I changed the value of this capacitor or that resistor. Get the idea. As Ed suggests in the preface, you can build up these circuits on a piece of solderless circuit board and then start good old fashioned fooling around. Most of the componentry used is nickel and dime type stuff. If you were to smoke on or two pieces you can chalk it up to the whole learning experience. With a cover price of less than \$10.00, you get a lot of learning and experience for less than the cost of a movie with a bag of popcorn.

Okay so you think that Ed's book is too easy and you want a real challenge. Are you ready to take the BIG step???

Build Your Own Intelligent Amateur Radio Transceiver

By Randy L Henderson

355 pages

\$29.95

McGraw-Hill

New York, New York

ISBN 0-07-028264-1

I first encountered this book as one of the door prizes at this year's Kulpsville Winterfest. I didn't win it but I was on the phone to the publisher the next day. I had to share this book with you folks. This book is the real deal. If your ready to go for the ultimate radio hobby experience, this is it. Building your own full featured transceiver would clearly be a demonstration of your home-brewing ability. This book goes well beyond anything I ever put together from the

likes of Heathkit of Ramsey Electronics. This book is no less than a step by step, stage by stage design and assembly of a modern microprocessor controlled radio system.

Initially I would have thought the whole thing well beyond most folks when I saw the programming lists for the 80C31 microcontroller. But then I found out that a set of PC boards and a preprogrammed controller chip were available through sources such as Far Radio Circuits. Then I realized that this thing might actually be within the scope of the moderate to advanced hobbyist.

Beyond just showing you how to do the construction techniques as you would find in many kits. Henderson's book takes you through the full scope of designing the radio system literally from scratch. In the course of this process a great deal of attention is given to explaining how the various stages work so that you will come away with a piece of equipment you thoroughly understand. You begin your study with the basic audio circuits and then build yourself up through the whole transceiver. At each step of the way you build and test the various subassemblies with no need to move along faster than you can understand.

Some of Randy's construction techniques are novel to say the least. Building the tuning system around a mayonnaise jar lid is a stroke of genius. Also along the way you will even learn how to make a few pieces of test gear to get things running right.

The book includes a comprehensive parts source list that will point you in all the right places. I would judge the skill level necessary to pull this project off as being somebody who has put a few kits together or made a number of significant, could have hurt it bad if I goofed, modifications to their existing equipment. In other words, this is just the challenge that any dedicated radio hobbyist has been looking for.

Okay, you may not be ready to order the board set just yet, but the book remains a great learning tool even if you don't take the plunge and start building. Randy Henderson has a great teaching style that will give any-

one a better understanding of how radio works. Like Ed Noll's book above, you'll get more than the cover price out of this book in terms of learning alone.

And Now For a Bit of Fun

As most of you know, I am very involved in those aspects of the radio hobby where home brewing, experimenting and just plain going against the grain are appreciated. One group of folks I truly admire are Mobile HF Operators. Hence my enjoyment of this book.

Everything You Forgot to Ask About HF Mobileering

By DK "Don" Johnson W6AAQ

64 pages

\$8.00

Worldradio Books

PO Box 189490

Sacramento, CA 95818

Don's book should be subtitled "Never Lose Your Car in the Parking Lot Again". It is worth the cover price not just for its level of knowledge dissemination as the two above books. It's worth the cover price for the amazing photographs of teeny cars with great big antennas stuck on their roofs. These are folks who are not afraid to have people know there are radios in their cars.

Don's book is a thorough and essential study of the DK3 mobile antenna system, its prior manifestations and its current modifications at the hands of dozens of mobile radio people. The DK3 is a marvelous antenna that allows for continuous HF band coverage at resonance without resorting to tuners or taps. This uncompromising design works well but generally turns the users motor vehicle into something that is guaranteed to turn heads. The first time I saw a "deployed" DK3 it was folded around the roof line of a Geo Metro. I'm not sure how long I actually stood there staring but my foot fell asleep. This antenna may scare away small children but it is well known as an excellent performer. If you have any specific interest in W6AAQ's antenna designs, a broader interest in HF mobile operation, or if you just appreciate innovative thinking, you should add this fine book to your collection.



The Sun And Short-Wave Reception (Part 4)

This month the glossary of terms associated with the sun and shortwave propagation continues.

EQUATORIAL ANOMALY A depression in F layer frequencies at the geomagnetic equator relative to frequencies at low latitudes. A daytime phenomenon. This depression results from the solar wind pushing against the particles that make up the ionosphere.

EQUATORIAL ELECTROJET A thin electric current in the ionosphere over the magnetic equator normally flowing eastward. The electrojet may reverse its direction during geomagnetically disturbed conditions and magnetically quiet times. The reversals during quiet times have been related to lunar tides. There is a strong correlation between the electrojet and equatorial sporadic E propagation.

EQUINOX When the sun crosses the geographic equator. Day and night are of equal lengths. Occurs in March and September.

ERUPTIVE PROMINENCE ON LIMB (EPL) A solar prominence that becomes activated and is seen to ascend from the sun.

EUV RADIATION See Extreme ultraviolet radiation.

EXTRAORDINARY WAVE A radio wave may split into two oppositely polarized components due to, in the case of ionospheric physics, the geomagnetic field. The ordinary wave obeys the laws of refraction and is

unaffected by the magnetic field. The extraordinary wave however, is affected.

EXTREME ULTRAVIOLET (EUV) A portion of the electromagnetic spectrum above visible light, above ultraviolet, but below gamma rays.

EXTREMELY LOW FREQUENCY (ELF) That portion of the radio frequency spectrum from 30 to 3000 Hz.

F CORONA That portion of the corona seen by the eye at a total solar eclipse which is caused by sunlight scattered or reflected by interplanetary dust.

F REGION The upper layer of the ionosphere, about 200 to 400 miles in altitude. The F region is responsible for most long distance short-wave propagation.

FIBRIL A linear pattern in the Hydrogen-Alpha chromosphere of the sun, as seen through an H-alpha filter, occurring near strong sunspots and plage or in filament channels.

FILAMENT A mass of gas suspended over the photosphere by magnetic fields which appears as dark lines threaded over the background chromosphere. A filament on the limb of the sun seen in emission against the dark sky is called a prominence.

FILAMENT CHANNEL A broad pattern of fibrils in the chromosphere, marking where a filament may soon form or where a filament recently disappeared.

FLARE A sudden eruption of energy on the solar disk lasting from minutes to hours. Flares emit radiation and high-energy particles. Flares are more likely to occur at peaks of the 11 year solar cycle.

FLUX The rate of flow of a physical quantity through a reference surface.

fmin The lowest frequency which is reflected from the ionosphere when an ionogram sounding is taken. Provides an indication of the amount of absorption occurring in the ionosphere.

foE The critical frequency of the E layer. The maximum frequency which can be reflected from this layer when a wave is vertically incident upon the layer.

foF2 The critical frequency of the F2 layer. It is the maximum frequency which can be supported by the F2 layer when a wave is vertically incident upon the layer.

GAMMA RAYS High energy radiation observed during large solar flares.

GEOMAGNETIC ACTIVITY Natural variations in the geomagnetic field classified into quiet, unsettled, active and storm conditions. Descriptive levels of activity such as these are determined by the A index defined as follows: described as follows: A index less than 8 - "quiet"; A index from 8 up to and including 15 - "unsettled"; A index from 16 up to and including 24 - "active"; A index from 25 up to and including 35 - "minor storm"; A index from 36 upwards - "major storm".

GEOMAGNETIC DIPEQUATOR Where the geomagnetic field is horizontal to the earth. Where the inclination is zero.

GEOMAGNETIC ELEMENTS The components of the geomagnetic field at the surface of the earth.

GEOMAGNETIC FIELD The magnetic field observed in and around the earth.

GEOMAGNETIC LATITUDE The angular distance above or below the geomagnetic dip equator. The geomagnetic dip equator is a great circle around the earth where the magnetic field is parallel to the earth's surface. The magnetic poles have a geomagnetic latitude of 90 degrees.

GEOMAGNETIC STORM A worldwide disturbance of the earth's magnetic field but distinct from regular daily variations.

Minor Geomagnetic Storm: A storm for which the Ap index was greater than 29 and less than 50.

Major Geomagnetic Storm: A storm for which the Ap index was greater than 49 and less than 100.

Severe Geomagnetic Storm: A storm for which the Ap index was 100 or more.

GEOPHYSICAL EVENTS Flares, Centimetric Outbursts, and/or strong SID. Sometimes these flares are followed by Geomagnetic Storms.

GMT Greenwich Mean Time. See Coordinated Universal Time.

GRADUAL COMMENCEMENT The commencement of a geomagnetic storm that has no well-defined onset.

GRANULATION Cellular structure of the photosphere visible at high spatial resolution.

GREEN LINE The green line is one of the strongest and visible coronal spectral lines. The green line identifies moderate temperature regions of the corona.

GROUND WAVE The radio wave which propagates close to the earth's surface. Not greatly attenuated or enhanced by solar activity.

GROUND-LEVEL EVENT (GLE) A sharp increase in ground-level cosmic ray count to at least 10% above background. GLEs are relatively rare and occur only a few times each solar cycle.



A Shack On Wheels— The VW Westfalia Camper

OK, I realize that this is a pretty unusual topic for an equipment review, but there's not much new equipment available currently and many NASWA members may not realize the potential of the "accessory" listed in the title. This review also ties in nicely with the reprint in the August Journal of Hans Johnson's Monitoring Times article on "Car Dx'ing". A Westfalia camper will serve admirably for both quick jaunts and extended DXpeditions. The "Westy" is smaller and easier to drive and park than a traditional recreational vehicle and is less hassle than a trailer. It has more room than a traditional sedan, but is just as easy to drive.

I became interested in VW campers about a year ago. My wife and I like to camp and, due to the high levels of electrical interference at my home listening environment, I was interested in a vehicle that I could use for quick DXpeditions. My selling point was that we needed a second four-wheel drive vehicle for the winter. There is a local shop that specializes in brokering and repairing VW vans and I obtained the version I was interested in January of this year. I've had it out several times now and have been pleased enough with its performance that I wanted to share my experiences.

Some history

The Volkswagen bus (or Transporter in the factory jargon) has been around since 1950. There are four main versions based on body style, engine type and years of manufacture. The specific variant that we are concerned with here is the "Westfalia", which had aftermarket variations to turn the vehicle into a self-contained camper. This model is easily recognized by the plastic roof panel. This

panel can be raised to increase the headroom in the rear portion of the van. Canvas panels enclose this extra headroom. This modification was supposedly not officially sanctioned by the factory, since it reduced the strength of the roof.

The initial bus is known as the "split-screen", since it has a two-piece windshield. It was produced from 1950 to 1967 and used the Beetle's air-cooled engine. The 1500cc engine used after 1963 produced a whopping 42 horsepower. This version was the classic "hippy" van of the Sixties. I have not seen too many of this vintage with the Westfalia modifications.

The next model of the VW bus was the "bay window" version produced from 1967 to 1979. It gets its nickname from its one-piece, curved windshield. It still used an air-cooled four-cylinder engine, which in the final production years had a displacement of two liters and produced 70 horsepower. Most of the "Westies" I see are this model; certainly they are the most economical to acquire.

In the eighties, the body style was changed to a "boxier", less rounded design. This incarnation was named the "Vanagon". The engine was changed to a water-cooled, four cylinder model with 90 horsepower. The big advantage of this design was that the heater actually heated the passenger compartment, unlike the previous air-cooled models. There were three sub-variants in this model run: the standard bus, the "L" and the deluxe "GL", with each variant having different interior appointments. Also unique to the bus in these years was the "Synchro", a four wheel drive version.

The VW camper, now designated the Eurovan, is still available new today. The engine is now front mounted and has six cylinders. The camper modifications for the US model are now done by Winnebago. The current price for the new model is in the high \$30K's. Fortunately, the older models are much more reasonably priced.

The Features

The model I purchased is a 1990 GL Synchro and the features that will be mentioned in this review will be solely based on my experience with this model. Things will be different in other models.

First, let me list the basic camping features. There is a 15 gallon fresh water tank and a small sink with faucet. There is an electric pump that can either pump water from the tank or from a connection on the side of the van that can be connected to the local water supply, if you're in a developed RV park. There is a two burner propane stove, fed from a propane tank under the vehicle. This tank also feeds the small refrigerator. The fridge will also run off the van's battery (when the engine is running) or from 115 volt AC, if you're at a RV park (there's a connector on the side that takes a female three prong receptacle). Although the fridge works reasonably well, you'll still need an ice chest to keep things really cold or frozen. Near the fridge is a standard household AC outlet that is active if you're hooked up to "shore power". There is also an extra battery well beneath the driver's seat that can hold a battery for powering radios, etc. This battery can be set up so that it is recharged when the engine is running.

Accommodations

There is a bench seat towards the back of the bus that folds down to form a bed, in conjunction with a pad over the engine compartment. Once the top is raised, there is a foldover panel that opens to create an upper berth. I found the beds to be on the hard side, so I added an additional foam rubber pad. But who's going to sleep on a DXpedition, anyway? My Westy can be configured so that there are two operating positions. There is a

swingout tabletop at the rear of the fridge/stove cabinet. This permits using a radio from the bench seat/bed position. At the front, the driver and passenger seats are "captain chairs", which swivel, recline and have fold-down arm rests. The driver's seat swivels only 90 degrees (for practical purposes), but the passenger's seat can be swiveled for a full 180 degrees, so that it faces the back of the van. There is another swing arm just behind the driver's seat for a smaller tabletop. This table, in conjunction with the passenger side captain's chair, is my preferred operating position because it is very comfortable. There is plenty of room on the tabletop for a radio, log book, gel-cell battery and beverage of choice.

Ventilation has been well thought out. There is a large screened panel in the front of the popup canvas, which can be covered by a cloth panel. There is a screen panel that can be snapped into the rear of the van with the rear hatch open. In addition, there are sliding screened windows on either side of the passenger compartment. There is no heater that can be used with the engine off, but I've been fine in fifty degree evening temperatures by just closing the van up. I think there is something called a catalytic heater that is safe to use in enclosed spaces, such as tents, but I have not followed up on this.

There is lots of storage space in the van for radios, accessories and supplies. There are various cabinets and cubbyholes along the left side of the vehicle and a generous storage area beneath the bench seat. I haven't researched this, but it appears that brackets could be mounted to the roof panel to allow mast material to be carried. The interior lighting is somewhat limited—there is a small light above the driver's seat and a larger light at the roofline just aft of the stove. Be careful what you use for additional lighting—I tried a small, battery operated fluorescent light that put out an obnoxious whine on MW. The framework that is used to raise the roof could be used as a hanger for a battery lantern to provide wide-area lighting—holding a standard flashlight in one hand while trying to tune, log and consume "tuning oil", quickly becomes tiring.


Operation

I've been very pleased with my Westfalia, both as a camper and as a radio shack. It drives well and will hold 65 mph on the highway fully loaded, although hills usually require downshifting to maintain a reasonable speed. Although I'm trying to keep the miles down, I often use it for the commute to work and for errands. It handles quite well in city traffic. I am hoping that it will maintain the usual VW reputation for durability and ease of repair (there are certainly a lot of old VW vans out there!). It makes a great shack—there's room to move around and comfortable seating. The stove is great for a quick cup of coffee or tea for those late-night listening sessions, as well as for a hot meal without having to mess with a campfire or camp stove. After just two outings, my wife has vowed to never camp in a tent again!

So far, my listening while camping can best be described as casual. I've used a Sony ICF-2010 and Lowe HF-150 (the lack of dial lighting is a big drawback to using this radio under such conditions) as the receivers. The antenna has just been fifty feet of wire tossed up into a tree. Although that doesn't sound like much of an antenna, it's amazing what just a small antenna will do when there is no local noise—remember, it's the signal to noise ratio, not the overall signal level, that is important. I want to follow up on Bob

Montgomery's tip from the last SWL Winterfest and try an active antenna sometime. It's certainly easier to put up an active whip than string out 500 feet of wire!

Get Out There!

If you haven't tried listening in a non-urban area, look up Hans' article in the April 1998 issue of *Monitoring Times* or the August 1998 *NASWA Journal* for tips on how to get started on car DX'ing. Unless your home is in a low electrical noise environment, I think you'll be amazed at the difference that a low RF noise environment can make to your listening. If you want to extend your listening sessions and like the great outdoors, you should take a look at VW campers. They can be very reasonably priced, depending on age and condition. They can be very practical, since unlike RV's and trailers, they can be used for daily driving. I would recommend finding a mechanic in your area who specializes in VW's and have him inspect any potential purchases. He may also be a lead for vehicles for sale, in addition to the classified ads in your local paper. The following websites are good sources of additional information on all of the various models of VW vans: <http://members.aol.com/johnbmt/westfalia.html>, <http://www.vanagon.com> and <http://pwp.usa.pipeline.com/~tforhan/swhome.htm>. 



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AFGHANISTAN *Radio Voice of Shari'ah*: Since the takeover of Radio Afghanistan by Taleban forces in late September 1996, the station has identified itself as Radio Voice of Shari'ah.
0030-1840 Pashto/Dari 7200v

Shortwave only active "part of the day" (BBCM doesn't specify which "part"—AQ)(BBCM) 7199.5v, *Radio Voice of Sharia*, 0218-0232, Mostly M singing without musical accompaniment, 0230 news in Dari or Pushto—poor (12-Aug/Timofeyev-RUS/DSW-CI DX-Window/van den Boogert-TWN) 7200.2v *Radio Voice of Sharia*, 1504-1840*, Mostly in Dari or Pushto with 3 distorted time pips at 1530, 1730 and 1830 and ID's as "... (some unknown words)... Afghanistan, Kabul, Radio Sedoye Sharia," also simple ID's as "Inja Afghanistan..." or "Radio Afghanistan," many mentions such as Taliban, Rabbani or Mazari Sharif and long M songs without any musical accompaniments, also in some other languages: 1600-1630 in Urdu (tentative), 1630-1645 in Hindi (tentative), 1645-1700 in ENGLISH (with opening two ID's as "This is Radio Voice of Sharia, Kabul, Afghanistan," then—"Newsdesk" and news comments mostly about Taliban's victory in the northern part of the country and final "Goodnight everybody" slogan), 1700-1715 in Arabic—mostly poor, but sometimes fair and even almost good as on 7197.6v between 1543 and 1711. (12-Aug/Timofeyev-RUS/DSWCI DX-Window/van den Boogert-TWN)

Radio Voice of Shari'ah of Takhar Province, Taloqan: Since the takeover of Taloqan by Taleban forces in mid-August 1998, this station has identified itself as Radio Voice of Shari'ah of Takhar Province. (Until 9th August 1998, Takhar Radio broadcast in support of Borhanoddin Rabbani, the former president of Afghanistan, who was ousted from Kabul by Taleban forces in late September 1996.)
1230-1325 Dari/Pashto 7085
(BBCM)

ALBANIA Presumed *RTV Sqiptar* 2nd home service noted at 1015 varying around 7150.2, playing non-stop a terrible selection of commercial dance and pop music from some five years ago. (10-Aug/Ludwig-GER/EDXP/Padula-AUS)

ANTARCTICA 15476 *LRA36 Radio Nacional Arcangel* San Gabriel, is operating still now with 1 kW power and according to my friend there, only in the next year the station probably will be equipped with a new transmitter. Currently the station is on air at 1230-1430 on Mon, Wed & Fri. The technical operator of LRA36 also has tasks in the power station of the Base Esperanza, the heart of Base Esperanza, and his job also is to give support when some group go to patrol, etc, etc, because this also some days the programs of LRA36 not are on the air. (22-Aug/Barrera-ARG)

AUSTRALIA 15635 *Australian Defense Forces Radio*, Belconnen, 0410-0421 & 0500*, MOR vocals, M announcer introducing 'American Dance' at 0421. Off mid-sentence without any form of ID a few seconds past 0500. Quite strong here, although some slip from very strong Kol Israel on 15640 at 0455+. Weak-fair on // 14790 which also suffered some ute QRM. Seemingly neither channel on the air next evening when checked at 0355. Both frequencies USB and power presumably 10 kW. (3-Aug/Clark-ONT/DSWCI DX-Window/van den Boogert-TWN)

BANGLADESH Schedule for *Bangladesh Betar*:

1230-1300	English	9550 7185
1315-1345	Nepali	9550 7185
1400-1430	Urdu	9550 7185
1515-1545	Hindi	9550 7185
1600-1630	Arabic	9550 7185
1630-1730	Bengali	9550 7185
1745-1815	EE-VO Islam	9550 7185
1815-2000	English	9550 7185
1915-2000	Bengali	9550 7185

(BBCM)

BELARUS Belarusian Radio's external service identifies itself as "*Radiostantsiya Belarus*" in Belarusian. In English it uses the identification "*Radio Belarus International*" or "*Radio Minsk*."

0100-0130	Belarusian	11670 7210
0130-0200	Belarusian	11670 7210 Mo-Sa
0130-0200	Russian	11670 7210 Su
0200-0230	German	11670 7210 Th
0200-0230	English	11670 7210 Su/Mo/We/Fr/Sa

0200-0230 Belarusian 11670 7210 Tu
 0230-0300 Belarusian 11670 7210 Tu-Sa
 0230-0300 Russian 11670 7210 Mo
 0230-0300 German 11670 7210 Su
 0300-0500 Belarusian 11960 11670
 0900-1100 Belarusian 11960 11670
 1500-1730 Belarusian 11670 7210
 1900-1930 Belarusian 11960 7210
 1930-2000 German 11960 7210 Su/We/Sa
 1930-2000 Russian 11960 7210 Fr
 1930-2000 English 11960 7210 Tu/Th
 1930-2000 Belarusian 11960 7210 Mo
 2000-2030 Russian 11960 7210 Mo/Tu/We/
 Sa
 2000-2030 Belarusian 11960 7210 Su
 2000-2030 German* 11960 7210 Th/Fr
 2030-2100 German** 11960 7210 Su/We/Fr/Sa
 2030-2100 Belarusian 11960 7210 Mo
 2030-2100 English 11960 7210 Tu/Th
 ="Das Wort"="Das Wort" Fridays only (BBCM)

Additional info re Belarus regionals in August
 LN: *Novoye Radio Mahiliou* is also called *Mogilev Radio*. *Radio Hrodna* is also called *Grodno Radio*. "Presumed Brest" is indeed *Brest Radio*. (Voice of Russia/BBCM)

BHUTAN BBS, Thimpu, good level on 5030 with English news 1315-1330, dominant over co-channel Kuching. News items about the King's activities and tourist information about the Kingdom. (22 Jul/Padula-SEAsia/EDXP)

BOLIVIA Bolivian survey of activity by Tony Jones, Paraguay: active AM = 1000-1300; active PM = 2200-0200

3391v *R. Camargo*, active PM (Mon-Fri)
 4408.8 *R. Eco*, active PM
 4450.0 *R. Frontera*, active AM & PM
 4472v *R. Movima*, active AM & PM
 4549.4v *R. Tropico*, active AM & PM
 4599.3 *R. Villa Montes*, active AM
 4600.0 *R. Perla del Acre*, active AM (Mon-Sat), active PM (Mon-Sat)
 4649.0 *R. Santa Ana*, active AM & PM
 4682v *R. Paititi*, active AM & PM
 4702.2 *R. Eco* (San Borja), active PM
 4719.8 *R. Abaroa*, active AM & PM
 4732.2 *R. La Palabra*, active AM & PM
 4777.8 *R. ANDES*, active AM & PM
 4845.0 *R. Fides*, active AM, active PM irreg. (Sun only-?)
 4855.0 *R. Centenario*, active AM & PM
 4875.0 *R. La Cruz del Sur*, active AM & PM (Mon-Fri)
 4885.6 *R. Sararenda*, active AM (Mon-Fri)
 4900.6 *R. San Ignacio*, active AM
 4926v *R. San Miguel*, active AM & PM
 4939.3 *R. Norte*, active AM & PM (Mon-Sat)
 4945.0 *R. Illimani*, active AM & PM
 4965.0 *R. Juan Veintitres*, active AM & PM (Mon-Sat)

4991.0 *R. Animas*, active AM (Mon-Fri), active PM (Mon-Fri, irreg. Sat)
 5927.0 *R. Minería*, active AM & PM
 5952v *R. Pio Doce*, active AM & PM (Mon-Sat)
 5964.7 *R. Nacional Huanuni*, active AM
 5994v *R. Loyola*, active AM
 6025.0 *R. Illimani*, active AM & PM
 6085v *R. San Gabriel*, active AM & PM
 6105v *R. Panamericana*, active AM & PM
 6135.0 *R. Santa Cruz*, active AM & PM
 6155.0 *R. Fides*, active AM & PM
 6194v *R. Carlos Palenque*, active AM
 9624.8 *R. Fides*, active AM, irreg. PM (Sunday only?)

No trace was found of the following stations:
 3200-R. *9 de Abril* (not heard in years), 3475v-R. *Padilla*, 4530.3-R. *Hitachi*, 4864.4-R. *16 de Marzo*, 5153v-R. *Galaxia*, 5504v-R. *2 de Febrero*, 5580.2-R. *San Jose*, 6014.8-R. *El Mundo*, 9717-R. *La Plata*, nor any others. (Jones-PAR/NU/EDXP/Padula-AUS)

BULGARIA On Fridays, *Radio Varna* 9774.8v re-lays national service *Horizont*, and from 2115-0100 runs its own program, "Hello Sea," the latter incognito of the Bulgarian National Radio. The transmitter is put together from old former jammer parts, with an estimated output power of 100 kW. (28-Jul/Pankov-BUL/BCDX/EDXP/Padula-AUS)

CAMBODIA I have been hearing *National Voice of Cambodia* daily from around 1230 to sign off at 1310v on 11940 with some pretty good signals. I have to date not been able to hear much EE as they only seem to fade in at (as I mentioned) 1230. Asian language programming (mostly music) sign on with IDs that mention Kampuchea. (19-Aug/Delmage-AB/Review of International Broadcasting/Hauser-OK)

CANADA [non]. *R. Voice of Canada* sked per their web pages:

0000-0200	Tamil	9560
0200-0400	Tamil	9700
1300-1400	Tamil	11720 15510
1400-1430	English	11720 15510 Mo-Fr
1400-1600	Tamil	11720 15510 Sa/Su
1600-1630	English	15510 Sa/Su
1630-1700	English	11720
1800-2000	Tamil	15210 Sa/Su
2000-2200	Tamil	15560
2200-2400	Tamil	11975

(RAC webpage)

CENTRAL AFRICAN REPUBLIC *Radiodiffusion-Television Centrafricaine* noted with very weak signal on July 31 at 1626-1631* on 7221.3v, on August 1 at 1604-1628* on 7221.5v and on August 11 at 1602-1629* on 7221.4v (Timofeyev-RUS/DSWCI DX-Window/van den Boogert-TWN)

CHILE You might still be scratching your head about the listing under CHILE in last month's LN. What I mistakenly printed was my scratchpad frequencies for *Voz Christiana*, with no information whatsoever! Sorry about that. I've culled monitoring info from as many sources as possible for this frequency lineup:

6070 noted around 1100 20-Aug
 9535 not heard 25-Jul or since
 11890.07 noted around 0830 end of July, but not since
 15374.8 noted from 1145-1300 on 8 Aug
 17860 noted from 1500-1640 on 15-Aug
 21549.96 noted from 1500-1640 on 15-Aug

These guys have been testing now for several months. I dare say it's high time they quit jumping around, publish a schedule and stick with it...AQ

CHINA Fujian People's Broadcasting Station (Mandarin ID: "Fujian Renmin Guangbo Diantai"):

0000-1600 Chinese 5040 4975 2340
 2155-0000 Chinese 5040 4975 2340

(BBCM)

Hubei People's Broadcasting Station, Wuhan (ID: "Hubei Renmin Guangbo Diantai" (Wuhan People's Broadcasting Station)):

0000-1630 Chinese 3940
 2125-0000 Chinese 3940

(BBCM)

From my reception location in the far north of Thailand, on the Laos/Myanmar borders, there were many interesting signals, and this summary may be of interest:

4735 Urumqi, Xinjiang. Uighur Network *2300, audible to past 0000
 4750 Lhasa, Tibet. *2300 CC audible to 0200+, fade-in 1030 to past 1300
 4815 *CRI*-Huhhot. Mongolian 1200-1230
 4820 Lhasa, Tibet. *2300 Tibetan network, good signals
 4865 Lanzhou, Gansu. CC 2200-2300; also 1200-1300
 4900 Fuzhou, Fujian. Haixia-2 CC 1300-1330, separable from Colombo
 4902 Shanghai, *V. of Pujiang*. CC 1235-1300 // 4950 9705
 4975 Fuzhou, Fujian. CC 1200-1300
 4975 Fuzhou, Fujian. Language Lessons in CC 1220-1230
 4980 Urumqi, Xinjiang. Mongolian network 1200-1315
 4990 Hengyang, Hunan. Satellite Network. CC, 2200-0000 and 1215-1300 but co-channel AIR Gangtok from 1250
 5020 Nanchang, Jiangxi. CC 1215-1300
 5030 *CNR2*, Beijing. CC 1215-1300 QRMing co-channel Kuching
 5040 Fuzhou, Fujian. CC 1000-1200

5050 Nanning, Guangxi. Vietnamese program 1000-1200, *2300-0130+; CC segment 1200-1300. QRM to co-channel AIR-Aizawl after 1200+
 5060 Urumqi, Xinjiang. Mongolian network 1220-1300
 5075 *CNR2*, Beijing. CC 1245-1300
 5915 *CNR1*, Changchun. CC 2330-2345
 5920 Nanning, Guangxi. Network-3, CC 1005-1030, also 2300-0000
 5935 Urumqi, Xinjiang. CC network, excellent 1000-1200; also at *2300-0100
 5995 Lhasa, Tibet. Tibetan network 1000-1100; also 0100-0130
 6010 *CRI*, Xian. *0900-1100 CC
 6025 Bayanhot, Alxa. CC network 2240-2245 (rare!)
 6035 Kunming, Yunnan. Vietnamese network, fade-in 0945 (4.45pm). No sign of a local morning service, listed some sources *2230-0130*
 6060 Chengdu, Sichuan. Language Lessons in CC 0715-0730
 6115 Fuzhou, Fujian. Haixia-1, CC 1000-1200
 6200 Urumqi, Xinjiang. Tibetan network //5995 0100-0200
 6937 Kunming, Yunnan. Local dialects 2315-0000
 7170 Lhasa, Tibet. CC network, 0500-0530, strong signals, local noon, co-channel Singapore not audible!
 7160 *CRI*-Xian. SS 0000-0050 strong signals
 7190 *CRI*-Beijing. JJ *0930-1530*
 7245 *CRI*-Kunming. Vietnamese *1100-1200* QRMing co-channel RVTM-Kuala Lumpur
 7275 Guiyang, Guizhou. CC network 0500-0530 strong. Audible 0205-0700
 7290 *CNR2*-Beijing. *1200-1230 CC
 9500 *CNR-1*, Xian, excellent strength 0815 // 11610 CC
 9705 Shanghai, *V. of Pujiang*. CC 1235-1300 // 4950
 9781 Xining, Qinghai. CC network, carrying EE pop songs (!) 0515-0530
 9810 *CNR-1*, Xian. Audible 0300-0700 (10am local!) CC
 11952 Lhasa, Tibet. Tibetan network, very strong 0500-0530
 (Padula-SEAsia/EDXP)

Nei Menggu Peoples' Broadcasting Station, Hohhot recently expanded its Chinese and Mongolian services from new transmitters. Latest sked is:

0120-0550	Mongolian	9750 7270
0120-0550	Chinese	9520 7105
0950-1515	Chinese	6045 4620 4000
0950-1515	Mongolian	6195 4785 4525
2150-0105	Mongolian	6195 4785 4525
2150-0105	Chinese	6045 4620 4000

(NDXC/EDXP/Padula-AUS)

CNR4 (Minorities Network) has rearranged its services, with a reduction of 27 mins daily in Mongolian programming. New sked is:

0000-0027	Tibetan	15670 12080 11740 11710
		11375 9500
0030-0057	Uighur	15670 11630 11375 10260
0100-0127	Kazakh	15670 11630 11375 10260
0500-0527	Mongolian	9920 8566
0530-0557	Tibetan	15670 15570 12080 11740
		11375 9500
0600-0627	Uighur	15670 11630 11375 10260
0630-0657	Kazakh	15670 11630 11375 10260
1000-1057	Korean	9920 8566
1100-1127	Tibetan	15670 15570 12080 11740
		11375 9500
1100-1157	Uighur	15670 11630 11375 10260
1200-1227	Kazakh	15670 11630 11375 10260
1230-1257	Mongolian	5420 4190
1300-1327	Tibetan	15670 15570 12080 11740
		11375 9500
1330-1357	Uighur	15670 11630 11375 10260
1400-1427	Kazakh	15670 11630 11375 10260
2130-2227	Korean	5420 4190
2430-1457	Mongolian	15670 11630 11375 10260

Some of the above channels are also used for CNR1 and CNR2 programs. (NDXC/Padula/EDXP/Padula-AUS)

5559.98 *China Southeast Broadcasting Company*, Fuzhou, 1553-1600*, Traditional Beijing Opera until 1558 lady with ID "Zhong-guo Dong-nan Guangbo Gongsi," address (only copied the zip code: 350001) for comments and suggestions, then one minute of music and off at exactly 1600. Heard again on Aug 22 around 1430. Very weak signal and not even sure if this is an official channel for them, a spur, harmonic, mixing product or what else you can think of. They're listed in the WRTH 98 under "China—Broadcasts to Taiwan—Station no. 5" on page 187 (21-Aug/van den Boogert-TWN/DSWCI DX-Window)

(also see MALI) **CHINA—TAIWAN** monitored station summary:

6040	CBS	Cantonese network 0900-1200 jammed
6085	CBS	News Network, CC, 0900-1200 heavily jammed*
6180	CBS	Variety Network, CC, 1000-1100 jammed
7105	CBS	Variety Network, CC, 1000-1200 jammed
7130	R. Taipei International	, well heard with Amoy 1030-1100
7285	RTI	Hakka, 0900-0930

(Padula-SEAsia/EDXP)

*x-6078 now moved back up to 6084 for the past few weeks in latest cat-and-mouse move against Chinese jamming. Signs on 1000, always clear ID just before 1030 'CBS Taipei Guoji Zhi Sheng Xinwen Guangbo Wang' (CBS, Internat VoTaipei Nx Network) into sports nx. (6-Aug/Davies-MLY)

CLANDESTINE—AFRICA *Ogene Ndigbo Radio* is believed to have begun broadcasting in July 1998. It is operated by the Eastern Mandate Union Abroad (a pro-democracy group of Igbo exiles) and the World Igbo Council. It hires airtime via US commercial shortwave station World Harvest radio WHRA in Greenbush, Maine. Associated broadcasts by Yoruba and Ijaw groups are broadcast on the same frequency and at the same time on Mondays and Fridays, respectively. Address: Ogene Ndigbo Radio, PO Box 91425, Washington, DC 20090, USA
2100-2200 Igbo 15460-(via WHRA) We (BBCM)

Voice of Oromo Liberation is sometimes referred to as "SBO" after its title in the Oromo-language, "Sagalee Bilisumma Oromoo." It supports the Oromo Liberation Front and other groups opposed to the Ethiopian government. Transmission are via Deutsche Telekom in Germany.

1700-1800 Oromo/Amharic 11605 Su/Th/Fr

Radio Rainbow, Voice of Peace and Brotherhood (Amharic: Kestedamena rediyo ye selamena yewendimamach dimtse) is reportedly operated by an Ethiopian opposition group called Research and Action Group for Peace in Ethiopia and the Horn of Africa (RAGPEHA). It broadcasts via hired shortwave transmitters in Germany.

0100-0200	Amharic	9855 Sa
0900-1000	Amharic	5910 Su
1600-1700	Amharic	15105 Th

(BBCM)

CLANDESTINE—ASIA (from Lithuania to China): *Radio Free Tibet of the Overseas Chinese*. I asked my wife, who is fluent in Chinese, to listen to a recording of this one. The exact station announcement is "Ziyou Xizang Huayi Diantai," meaning "Radio Free Tibet of the Overseas Chinese." The whole program from 1301-1332 UT was in Standard Chinese rather than in any kind of Tibetan dialect. Announced schedule: Mondays and Wednesdays at 1900 Lhasa time, 2100 Beijing time (=1300 UT). No address was given. They also announced something for Tuesdays and Thursdays; so may be in Standard Chinese on Mondays/Wednesdays, Tibetan on Tuesdays/Thursdays? Or are the transmissions on Tuesdays/Thursdays repeats of the ones on Mondays/Wednesdays? This one needs more research. I will pass on a recording to some Chinese friends for further analysis. (Kuhl-GER/Clandestine Radio Watch/Schoech-GER) *Radio Free Tibet*, Sitkunai, 9710, 1302 Tibetan tune, M and W speakers with presumed station ID, beginning talks with a mention of the Dalai Lama. (28-Jul/Schaay-HOL)

CLANDESTINE—MIDEAST *Voice of Iraqi Kurdistan* (Kurdish: era dangi kurdistana iraqiya; Arabic: sawt kurdistan al-iraq, sawt al-hizb al-dimuqrati al-kurdistani al-iraqi) broadcasts in support of the Kur-

distan Democratic Party (KDP) led by Mas'ud Barzani.

0245-0500 Kurdish/Arabic 4085v

1645-1900 Kurdish/Arabic 4085v

(BBCM)

Voice of the People of Kurdistan (Kurdish: "aira dangi gelli kurdistana," Arabic: "sawt sha'b kurdistan") supports the Patriotic Union of Kurdistan (PUK) led by Jalal Talabani.

0200-0500 Kurdish/Arabic 4060v

1130-1330 Kurdish/Arabic 6015-6030v

1445-1800 Kurdish/Arabic 4060v

(BBCM)

CLANDESTINE—RADIO FREE ASIA RFA uses International Broadcasting Bureau (IBB) transmitters in Delano (USA), Holzkirchen (Germany) and Saipan (Mariana Islands); it is also believed to use hired facilities in Kamo (Armenia), Alaska (KNLS), Hawaii (KWHR), Ulaanbaatar (Mongolia), Palau (KH-BN) and Dushanbe (Tajikistan).

0000-0030 Vietnamese 15560 13720 11580 9975

0000-0100 Laotian 9920 9365 7530

0030-0130 Cambodian 15695 15655

0030-0130 Burmese 13820 13710 11590 11580

11540 9975

0100-0200 Tibetan 9920 9670 9365 7460

0300-0500 Chinese 17880 17615 13820 11540

0500-0700 Chinese 17880 17615 17525 17495

1100-1200 Laotian 17805 15715 15660 13750

1130-1200 Cambodian 15705 15695 11510

1200-1300 Cambodian 15705 15695 13750 11510 9930 9925

1300-1330 Cambodian 15705 15695 11510 9930 9925

1300-1400 Tibetan 17855 13830 11590

1400-1500 Vietnamese 13775 11535 11510 9930 9455

1400-1500 Cantonese 11510 11500 9955

1500-1600 Tibetan 13835 11580 11510

1500-1600 Burmese 13820 11590 11530

1500-1630 Chinese 15510 11945 11520 9905 9445

1530-1630 Korean 15660 9955 5855

1630-1800 Chinese 15510 11945 11520 9905 9455

1800-1900 Chinese 15510 11945 11710 11520 9420

1900-2000 Chinese 15510 11945 11710 11520 9905 9420

2100-2200 Chinese 15515 11765 11710 9910 9455 9420 9355

2200-2300 Korean 15515 11785 9455 9395 7470 7460

2200-2300 Cantonese 11500 9955 9355

2230-2330 Cambodian 11570 11510 9930 9570

2300-0000 Chinese 15515 13800 11785 9910 9420

2300-0000 Tibetan 9920 9875 9365

2330-0000 Vietnamese 15560 13720 11580 9975

(BBCM)

CONGO—REPUBLIC 5985, Radio Congo, Brazzaville, 2140-2200, French about "la Festival du Congo." Free channel until 2200 with "musique Congolaise." Fair (15-Aug/Krone/DSWCI DX-Window/van den BoogertTWN)

9610 *RTV Congolaise*, Brazzaville, 1510-1530, Vernacular. M with talk program, Brazzaville mentioned many times. A station announcement was made at 1530. Better in USB. (11-Aug/Clemitsop/DSWCI DX-Window/van den Boogert-TWN)

CONGO—DEMOCRATIC REPUBLIC RTV Nationale Congolaise, Kinshasa, 15244.5, 1805 M Afro speaker in French with presumed news, talk, at 1829 W announcement, African songs, talks again. (27-Jul/Schaay-HOL)

That reminds me—thanks a LOT, Radio Asia Canada, for moving onto Congo's only high frequency, 15245v! (Hauser-OK)

COSTA RICA Radio For Peace International (RFPI) broadcasts in English and Spanish on the following schedule:

0000-0800 6975 15050

0800-1530 6975

1530-1800 21460

1800-2330 15050 21460

2330-0000 6975 15050

(BBCM)

Despite the announced and published sked above, while it has only one transmitter operational (10 or 30 kW?), *RFPI* seems to be switching from 15049 to 6975 around 0300, and then stays on until about 1200. 0300 seems about the right time to switch as 15049 is beginning to fade and 6975 has darkness to most of NAM (17-Aug/Hauser/Review of International Broadcasting/Hauser-OK) [Checking on 23-Aug revealed 15049 already off, 6975 on its own by 0205-AQ]

TIFC, Lighthouse of the Caribbean, is 24h on 5055 plus AM and FM; English at 0300-0400, 1600-1745. Will soon add French. 31mb was off but hoped to have 9645 back soon. Reports welcome to P.O. Box 2710, 1000 San Jose (HCJB/WDXC Contact/Review of International Broadcasting/Hauser-OK)

CUBA 5025 Radio Reloj, Bauta 0848 noted with talk in Spanish over time pips, frequent "Radio Reloj" IDs. Change in nets, ex-Radio Rebelde. (5-Aug/Bueneman-MO)

Radio Havana Cuba now using 13720 (ex-13715) for 1930-2000 Esperanto (Su only), 2000-2030 French, and 2030-2200 English; transmitter is 50 kw plate modulated AM with a 17 dB gain curtain array. (Coro-RHC)

CYPRUS Cyprus Broadcasting Corporation (CyBC), broadcasting authority of the Greek Cypriot govern-

ment. Service for Cypriots in the United Kingdom, transmitted from Merlin Communications facilities near Limassol.

2215-2245 Greek 9760 7205 6180 Fr-Su
(BBCM)

ECUADOR 4019.93Hz, *LV de Su Amigo*, Esmeraldas, 3 x 1340, 0205 to 0500*, as heard by Rodriguez August 8; tropical uptempo selections and "Billie Jean," mentions of "Programa La Fiesta" and "Su Amigo" by M DJ, S7 signal, entertaining mx, and great audio, despite QRN. Signed off with full ID mentioning 1340 and 96.3 "FM Digital," and vocal version of Ecuadorian NA. (23-Aug/Novello-NC)

ETHIOPIA Program schedule *Radio Fana*, P.O.Box 30702, Addis Ababa:

0330-0530	Amharic/Oromiffa	6120 6940 (8335)
0530-0730	Amharic/Oromiffa	6120 6940 (8335) Sa/Su
0900-1100	Amharic/Oromiffa	6120 6940 (8335)
1200-1500	Oromiffa	6120 6940 (8335) Sa/Su
1500-1700	Amharic	6120 6940 (8335) Mo-Fr
1500-1800	Amharic	6210 6940 (8335) Sa/Su
1800-2000	Oromiffa	6120 6940 (8335) Mo-Fr

(8-Aug/Lippert/Ludwig-Ger/WWDXC TopNews/
Bueschel-GER)

GERMANY *Voice of Hope*/High Adventure Ministries via Deutsche Telekom:

1330-1530 English 15715
1800-2200 English 6015

(BBCM)

Voice of Hope in English via Juelich noted at 1940 on 6015, strong with slight splatter from neighboring channels. According Glenn Hauser, this replaces 12125 from Georgia and is on air 1800-2159. I doubt that the Georgians will find new foreign clients for their bad-shaped Dusheti transmitters. Maybe they rent airtime for a good price, but other companies offer much higher technical standards. (8-Aug/Ludwig-GER)

Suddeutscher Rundfunk (SDR 6030 kHz) and *Sudwestfunk* (SWF 7265 kHz) have merged as of 29 August. The new entity is called *Sudwestrundfunk* (SWR), and both frequencies are supposedly simulcasting the 24h pop music service called "SWF 3." (Ludwig-GER)

GUYANA 3289.90 *GBC* 0700 NOT noted 17 August and last ten days absent from this frequency and not noted 5950v during the same period of time, 0800 to 1000 (Wilknor/DSWCI DX-Window/van den Boogert-TWN)

HUNGARY There is an error in the printed edition of "Budapest International," for *Radio Budapest* English schedules. An incorrect freq of 15685 is shown for the service to NAM 0100-0200: this should be 11685. The complete English sked is:

0100-0130	9580 11685
0230-0300	9840 11910
1900-1930	3975 7170
2100-2130	3975 11700

Regrettably, the error is being published without editorial correction in some electronic DX bulletins. [As if editors have time to cross-check all schedules!-AQ] (12-Aug/Padula/EDXP/Padula-AUS)

INDIA Summary of observations from Southeast Asia:

3223	Shimla 1450-1500+
3245	Lucknow 1445-1500+
3315	Bhopal 1230-1500+
3390	Gangtok 1200-1300
4760	Port Blair 1030-1400+; also *2315-0300*
4775	Imphal 1040-1400+; also *0030-0130 (some days *2330)
4790	Chennai *0000-0045* Tamil to Sri Lanka (External Service)
4800	Hyderabad 1200-1400+; also *0025-0100
4820	Calcutta 1200-1400, QRMing co-channel Lhasa
4840	Mumbai 1200-1400
4850	Kohima 1040-1400+; also *0030-0200
4860	Delhi 1200-1400 (EE nx 1230)
4880	Lucknow 1200-1400+; also *0030-0100, QRMing co-channel Dhaka
4895	Kurseong QRM co-channel Kuchung 1200-1400
4910	Jaipur 1215-1400
4920	Chennai 1215-1400; also *2330-0130, with EE nx 0035
4940	Gauhati 1215-1400; *0030-0130
4970	Shillong 1215-1300+; also *0030-0130
4990	Itanagar *0025-0130; also 1000-1400+
5050	Aizawl *0030-0100, with EE nx 0035; also 1200-1400+
6065	Kohima very strong with local songs 0700-0900, EE nx 0710
6110	Srinagar fade-in 1010-1100(rare)
6155	Delhi (Kingsway) Urdu to Pakistan 0015-0130;
7105	Lucknow fade-in 0850-0900
7115	Port Blair *0700-0850* with EE nx 0830
7125	Delhi (Bangalore) Sindhi to Pakistan 0100-0200
7130	Shillong *0658 with EE program "Top Hits;" also 0100-0115
7140	Hyderabad fade-in 0715-0900
7150	Imphal 0500-0845*, also 0300-0400 (varied sked on Sundays) (*0700 some days)
7160	Chennai 0950-1030*
7180	Bhopal 0800-0900
7210	Calcutta 0845-0900

7230 Kurseong *0630-1030*
 7230 Kurseong 0700-1015
 7240 Mumbai (-Bombay) 0845-0900
 7280 Gauhati *0600-1200
 7295 Aizawl *0700-0930*
 9595 Delhi (Kingsway) Nepali *0700-0800* //
 11850
 11850 Delhi (Kingsway) Nepali *0700-0800* //
 9595

Actual sites are as advised by AIR of some months ago, and I understand that there has been a minor rationalisation of Regions since, which may affect the accuracy of some of the data. (Padula-SEAsia/EDXP)

Official sked of AIR Jeypore is: 0000-0400 & 1030-1830 on 5040 and 0700-1000 on 6040.

AIR Gangtok scheduled for local midday broadcast on 6085 has yet to be started. (16-Aug/das Gupta-IND/EDXP/Padula-AUS)

INDONESIA 3325.0 RRI Palangkaraya, 2205-2250, Warta Berita into own program 2210. Fade out around 2250. Before that fair (15-Aug/Krone-DEN/DSWCI DX-Window/van den Boogert-TWN)

3395.1 RRI Tanjung Karang, 2205-2305, Best and 2300 Warta Berita; also //3325 at 2205 (15-Aug/Krone-DEN/DSWCI DX-Window/van den Boogert-TWN)

4606.4 RRI Serui, 0959, Choir singing and into news in Bahasa Indonesia. Weak to fair. (7-Aug/Norie/DSWCI DX-Window/van den Boogert-TWN)

4845.2v RRI Ambon, 1100-1136*, Local news, ID, 1103 NA + choir, 1104 ID, international music, INS pop music, abrupt S/off, no Love Ambon. 33443 (2-Aug/Schulze-PHL/DSWCI DX-Window/van den Boogert-TWN)

Latest official sked for RRI Ujung Pandang:

2490 2 kW 0800-2100 Network 2
 4753 20 kW 2100-0000, 0800-1600 Network 1
 (extended sked some days 1900-2100)
 9552 7.5 kW 0000-0400, 0500-0830 (extended sked some days 0400-0500)

(Yamada-JPN)

RRI Biak is still inactive on shortwave. (Yamada-JPN)

The evening program of RRI Serui on 4606.4kHz reactivated after about a month's absence. (Yamada-JPN)

According to Akbar Indra Gunawan, a staff of Indonesian DX Club, the commercial stations (Radio Swasta) have not relayed RRI Jakarta news on the hour except at 2300, 0600, and 1300 since one or two months ago. When I visited Indonesia from August 6 to 14, I confirmed this change at Jakarta and Ujung Pandang. But at Jayapura, the commercial

stations still relayed the news on the hour. (Yamada-JPN)

RRI Tual left shortwave on April 1, 1996, and has no plans to return. RPDtk2 Maluku Tenggara has replaced the service that RRI Tual was serving on shortwave. (Kusalik-AB/Yamada-JPN)

IRELAND (REPUBLIC) This external service from Radio Telefis Eireann, the Irish state broadcaster, is transmitted via hired shortwave transmitters in Nashville, USA (WWCR), Ascension Island (a) and Singapore (s), as indicated below.

0900-0930	English	5070-(WWCR)	Mo-Fr
1000-1030	English	5070-(WWCR)	Sa/Su
1000-1030	English	11740-(s)	
1730-1800	English	17885-(a)	
1830-1900	English	12160-(WWCR)	Mo-Fr
1900-1930	English	12160-(WWCR)	Sa/Su

(BBCM)

ITALY IRRS-Shortwave (formerly called Italian Radio Relay Service) is operated by NEXUS-International Broadcasting Association. Broadcasts include UN Radio, UNESCO, religious and IRRS-NEXUS programs in a number of languages, principally English, French, Russian, Spanish, German and Italian.

0200-0500	RR/English	7120	Sa/Su
0500-0630	EE/Italian	3985	
0630-1600	Multilingual	7120	Sa/Su
1600-2000	Multilingual	3985	
2000-2200	EE/Ital/GG	3955	Fr-Su

(BBCM)

KYRGYZSTAN Kyrgyz Radio schedule, based on monitoring observations and Kyrgyz Radio program schedules. Programming mainly in Kyrgyz and Russian, with English as noted.

0000-0300	Multilingual	4050	4010
0200-0215	News in Kyrgyz/Russian/ English Tu/Th/Fr/Sa		
0300-0600	Multilingual	4010	
0430-0500	"Panorama," weekly news review in English Sa		
0600-0900	Multilingual	4050	4010
0600-0615	News in Kyrgyz/Russian/ English Su		
0820-0830	News in English Tu		
0900-1900	Multilingual	4010	
1000-1010	News in English Fr/Sa		
1100-1115	News in Kyrgyz/Russian/ English Su		
2300-0000	Multilingual	4050	4010
2310-2320	News in English		

(BBCM)

LAOS Vientiane noted on 6130 from *0930-1530*, also from *2200-0800*. Louang Prabang listed for 6975 UNHEARD during evening period 1000-1400 and possibly inactive. (Padula-SEAsia/EDXP)

MADAGASCAR *Radio Madagasikara* heard back on 5009.68 with distinct IS @0258. Poor, faded rapidly after open. (6-Aug/Quaglieri-NY)

MALAYSIA The "mystery" broadcast on 6025 from Kuala Lumpur, first noted in EDXP some weeks ago as monitored from Sarawak, does in fact include relays of the Domestic FM Network from Kuala Lumpur "Radio Lapan" (= "Radio 8"). Monitoring from Chiang Mai and Chiang Rai, in Thailand, confirms that this service operates *0300-1300*. The transmitter then reopens at 1400 with the External Service "Voice of Islam" in Malay, when parallel to other External Service freqs of 6175 and 9750. There is a relay of the RTVM national network news in Malay 0500-0510, which may be heard on 5965 as well. As I had suggested, language on 6025 is not Malay, but rather indigenous, with extensive telephone call-in segments. A report in BCDX from Alan Davies, Malaysia, advises that the service includes segments intended for the Orang Ulu, which is the collective given to the 21 groups of upriver people living in Malaysia's interior, particularly in Sarawak State, predominantly the Kayans, Kenyahs and Kelabits. When I first came across this new service, I thought that it was some sort of "external" program for Sarawak, originating in KL, as language heard in the period 0800-1000 was very similar to the daytime Kayan and Kenyah transmissions from Kuching on 4895 and 7270. The 6025 outlet fades in here in Melbourne at around 0900, often with strong signals, when not clobbered by co-channel R. Ilimani, La Paz. (12-Aug/Padula/EDXP/Padula-AUS)

MALI *China Radio International* has introduced several new frequencies for its Mali relay; entire sked is:

0100-0157	Spanish	9665
0200-0257	Chinese	9665
1730-1757	Hausa	11970 15125
1800-1827	Hausa	11970 15125
1830-1937	Arabic	13685 15530
1930-1957	Portuguese	11975 15500
2000-2057	English	11975 15500
2100-2127	English	11975 15500
2130-2227	French	11975 15500
2230-2257	Chinese	11975 15500
2300-2357	Chinese	11975

(NDXC/Padula/EDXP/Padula-AUS)

MYANMAR Observed sked for *Radio Myanmar*:

7185	0030-0230	(EE 0130-0230)
5985	1000-1600	(EE 1430-1600)
9730	0330-0830	(EE 0700-0830)
4725	0900-1600	(Indigenous languages)

Military Station - Myawddy Radio. Observed on 5973 at sign-on at 1030, sign-off variable between 1200-1400. Carries extensive reviews of military and political events, Thai and local languages.

Defence Forces Broadcasting Unit. Listed for 6570 but not heard in evenings 1300-1400. Possibly operating at other times to variable sked. (Padula-SEAsia/EDXP)

NEW ZEALAND *Radio New Zealand International*:

0459-0705	11905
0706-1015	9700
1206-1650	6100 occasional sporting broadcasts
1650-1751	6145 Mo-Fr
1752-1951	11675 Su-Th
1752-1958	11675 Fr-Sa
1952-0458	17675 Su-Th
1959-0458	17675 Fr-Sa

(Sainsbury-RNZI)

NICARAGUA R. *Miskut*, 5770 new transmitter running with full authorized power [previously given as 500 watts] to new dipole antenna. Future plans include the possibility of additional power. New towers are currently under construction for new SW and FM antennas. SW broadcasts currently run from 1200 to 0430. (3-Aug/Freeman, Tech Systems/Review of International Broadcasting/Hauser-OK/EDXP/Padula-AUS)

NIGERIA 6049.9, *Radio Nigeria-Ibadan*, 2145-2200. Nice Nigerian songs, Vernacular/English comments. Free until 2200 when Radio Japan blasted in. (15-Aug/Krone-DEN/DSWCI DX-Window/van den Boogert-TWN)

PAKISTAN After a brief stay on 11795, *Radio Pakistan* has moved to 11975 (to avoid DW in German on 11795) at 0045-0215 Urdu and 0230-0245 in English. (16-Aug/das Gupta-IND/EDXP/Padula-AUS)

4790 *Azad Kashmir Radio* noted with extended broadcast time on every Saturday, S/off is at 2010 instead of usual 1810 UTC. (28-Jul/Pankov-BUL/DSWCI DX-Window/van den Boogert-TWN)

PALAU *KHBN* now scheduled on new 15725 (ex-13840) 0700-1100. (17-Aug/German/EDXP/Padula-AUS)

PERU 3250.78 *Radio Comas*, Lima, signing on at 0954, with weak signal. Canned ID at 0958. (15-Aug/TIN-JPN/Relampago DX) Radio TV Comas, Gran Lima, 1037, local music and music "chicha," ann. and ID (2-Aug/Slaen/EDXP/Padula-AUS)

3339.96 R. *Altura*, Cerro de Pasco, 0959-1007 s/on with the following opening announcement: "Desde este momento, la señal de Radio Altura reviene al Peru entero para dar inicio a su programación del día de hoy. Radio Altura Sociedad de Responsabilidad Limitada es una empresa de radio legalmente constituida con autorización del Ministerio de Transportes, Comunicaciones y Vivienda del Peru, con res-

olucion No. 052-95-MTC-1517, opera comercialmente con los preceptos legales contemplados tanto en la Ley General de Radio y Telecomunicaciones como en sus reglamentos vigentes con sujecion a las demas leyes de la Republica del Peru. Radio Altura transmite a nivel nacional y interna cional a traves de los 750 kHz onda media, 3340 kHz onda corta tropical, banda internacional de 90 metros y 99.9 MHz frecuencia modulada estereo...." Then into the morning folklore show. (15-Aug/TIN-JPN/Relampago DX)

4886.71 *Radio Virgen del Carmen "RVC,"* in the clear at s/off 0300. Signal is undermodulated. Announces 4875, 1580, 105.3, so they seem to have taken over all of R. Villa Rica's channels. (8-Aug/Klemetz/DSWCI DX-Window/van den Boogert-TWN) 1100, Firm ID at top of the hour, monitored from 1008, they seemed to play the same song (a jingle) every so often with a young boy's voice through Andean music but distinctly like "steel band music" typical of the Carribean, mention of huancavelica and patriotica. (11-Aug/Norrie/DSWCI DX-Window/van den Boogert-TWN)

4890.13 *R. Chota, Chota, Cajamarca, 0205,* multiple selections in extremely exotic Andean style, crazy echoey W vocals with drum accompaniment and occasional flutes, a few comunicados by M announcer with ID in passing 0220, some QRM from SSB comms. (2-Aug/Novello-NC)

4905.0 *R. La Oruya, La Oruya, good signals at s/on 1009, long anthem and ID, (1-Aug/Padula/EDXP/Padula-AUS)*

5175.46 *R. Master, Moyobamba, noted 1109-1114. Huaynos and M talk. Many thanks Henrik Klemetz for tip via Dateline Bogota. (15-Aug/TIN-JPN/Relampago DX)*

5305.0 *R. La Inmaculada, 0139-0145. Announcer with music and time checks. Strong utility QRM. (1-Aug/Escoto)*

5500.6 *Radio Regional, Celendin, 2329, Program Folklore via satellite, reading letter from Rafael Rodriguez and postcard from yours truly, which was sent as an enclosure to RRR's report. The reports were said to be read once more on Aug 8, at the same time. (7-Aug/Klemetz/DSWCI DX-Window/van den Boogert-TWN)*

5678.2 *Radio Ilucan, Cutervo, 0154-0216. Bits of audio with Andean music, time check and a religious program. Signal has a strong het. (1-Aug/Escoto/DSWCI DX-Window/van den Boogert-TWN)*

5699.93 *R. Frecencia San Ignacio, San Ignacio, Cajamarca, 0050, pretty Andean mx, M and W vocals, comunicados, ID by M announcer; killer signal this evening. (23-Aug/Novello-NC)*

5981.42 *R. Chaski, Cusco, 1112 fair, hymn in Quechua. (15-Aug/TIN-JPN/Relampago DX)*

6479.78 *R. Altura, Huarmaca, 1105-1200 poor signal. The morning program was entitled as "Amanecer Andino" with OA folklore. At 1105 ID*

was given as "6 y 5 en los estudios de Radio Altura." and also at 1145 "...Radio Altura desde Huarmaca en Departamento de Piura..." (16-Aug/TIN-JPN/Relampago DX) Noted 1137-1200 poor w/ute QRM, playing rustic OA huaynos and carnavalitos. ID was given at 1142 as "Ud. esta en la sintonia de Altura Radio. La musica folklorica que domina esta manana, de la tocamos en su emisora favorita Radio Altura desde Huarmaca..." (1-Aug/TIN-JPN/EDXP/Padula-AUS)

6725.54 *R. Satellite, Santa Cruz* has seemingly started early morning operation on shortwave. It was first noticed at 1114-1200. Fair signal. As the electricity was formerly supplied in the local evening, in the Province of Santa Cruz, Radio Satellite had operated only at 2300-0300. Therefore, I assume that they have now electricity for 24 hours a day. According to announcement, the morning programming *Saludos Musicales* is broadcast at 1100-1300, and it was announced as "6 de la manana, 6 de la manana con 24 minutos. Buen os dias, buenos dias, hoy es sabado, 15 de agosto. Radio Satellite ingresando al hogar en estos momentos. Esta transmitiendo desde nuestra cabina dos, esta r ealizando por estos momentos...Buenos dias, buenos dias. Saludos para que nes estan sintonizando a Radio Satellite. Saludos para cada uno de Uds. los vecinos. Estamos transmitiendo desde nuestra cabina dos Estamos transmitiendo des de la cabina dos. Esperamos cualquier comunicacion para pasarles SALUDOS MUSIC ALES en horario de 6 a 8 de la manana." At 1126 ID was given as "6 con 26, musica folklorica a traves de Radio Satellite desde la Provincia de Santa Cruz." At 1130 ID "Es Radio Satellite que transmite desde la Provincia de Santa Cruz..." (15-Aug/TIN-JPN/Relampago DX)

6811.73 *R. Ondas del Rio Mayo, Nueva Cajamarca 1130-1136 fair. Canned ID "Transmite Radio Ondas del Rio Mayo...ciudad de Nueva Cajamarca, Departamento de San Martin. Transmite en la banda internacional de 6804 kHz." (1-Aug/TIN-JPN/Relampago DX)*

6895.24 *Radio San Miguel de El Faique, Piura,* noted at *1058-1143 s/on with long opening announcement including station identification, but it was difficult to copy the complete text due to heavy echo. Then into chicha show. (15-Aug/TIN-JPN/Relampago DX) 0125 w/bouncy accordion and horned local instrumental and vocal music, W announcer with lots of mentions of "El Faique," M announcer liked to shout over musical selections with mentions of "San Miguel." A couple of ads and a few comunicados, but mostly music. Signal peaking at an amazing S8. M shouted full ID over top of song 0158. 0224 man with informal signoff announcement, then NA to 0228*. (8-Aug/Novello-NC/DSWCI DX-Window/van den Boogert-TWN)

7003.4 *R. La Voz de Huarinjas* reactivated. Immediately, when tuning in, 0148, there was an unexpected greeting to yours truly, Shoji Yamada in

Japan, and an unnamed listener in South Africa (Vashek Korinek). (7-Aug/Klemetz/DSWCI DX-Window/van den Boogert-TWN)

7040.6 R. San Ignacio is reactivated, 0125, with good signal and audio. Recently reported address, Jr. Victoria 277, confirmed on the air. (7-Aug/Klemetz/DSWCI DX-Window/van den Boogert-TWN)

PHILIPPINES FEBC Philippines sked:

0000-0200	English	15450
0115-0130	Maru	15465 Mo-We
0115-0130	Atsi	15465 Th-Sa
0115-0130	Lushai	15465 Su
0130-0145	Meithei	15465 Mo-Th
0130-0145	Kuki	15465 Fr-Su
0145-0200	Naga-ao	15465 Sa/Su
0200-0215	Lushai	15465 Sa
0500-0900	Mandarin	15450
0800-0830	Sasak	12005
0830-0900	Javanese	12005 Su/Tu/Th/Sa
0830-0900	Sundanese	12005 Mo/We/Fr
0900-1000	Indonesian	12005
0900-1600	Mandarin	9405
0915-0945	Komering	15095 Mo/We/Fr
0915-0945	Ogan	15095
0930-1100	English	11635
0945-1015	Toba Batak	15095
1000-1030	Amoy	9475
1000-1030	Minangkabau	12005
1015-1045	Malay	15095
1030-1045	Mien	11610
1030-1100	Swatow	9475
1045-1100	Khmu	11610
1045-1115	Aceh	15095
1100-1130	White Hmong	11610 Su-We/Fr
1100-1130	Blue Hmong	11610 Th/Sa
1100-1230	Cantonese	9475
1115-1130	Nung	9795 Mo
1115-1130	Katu	9795 Tu
1115-1130	Muong	9795 Th
1115-1130	Stieng	9795 Sa/Su
1115-1130	Eastern Cham	9795 We
1115-1145	Bahnar	9795 Fr
1130-1145	Bru	9795 Tu
1130-1145	Chru	9795 We
1130-1145	Mon	15095
1130-1145	Jeh	9795 Th
1130-1145	Black Tai	9795 Mo/Sa
1130-1200	Lao	11610
1130-1200	Chrau	9795 Su
1145-1200	Tho	9795 Tu
1145-1200	Karen-sgaw	15095
1145-1200	Rengao	9795 Th
1145-1200	Roglai	9795 We
1145-1200	Sedang	9795 Sa
1145-1200	White Tai	9795 Mo/Sa
1200-1215	Rawang	15095
1200-1300	Vietnamese	9795
1200-1300	Khmer	11610
1215-1230	Lisu	15095
1230-1345	Burmese	15095

1230-1600	Mandarin	9475
1300-1315	Koho	9795 Mo
1300-1330	Rade	9795 We/Sa
1300-1330	Jarai	9795 Fr
1300-1330	Koho	9795 Su/Th
1300-1330	Hre	9795 Tu
1300-1430	Cantonese	1458
1300-1500	English	11995
1315-1330	Mnong	9795 Mo
1330-1345	Jingpo	9795
1345-1400	Mien	9795
1345-1400	Daai Chin	15095
1400-1415	Karen-pwo	15095 Sa/Su
1400-1415	Pale Palaung	15095 Mo-Fr
1415-1430	Chin-haka	15095 Mo-We
1415-1430	Lushai	15095 Su
1415-1430	Chin-tidim	15095 Th-Sa
2200-2400	Mandarin	9405
2230-2300	Lao	9810
2230-2315	Khmer	9495
2230-2330	Indonesian	9780
2300-2315	Akha	11650 Sa/Su
2300-2330	White Hmong	9875 Su-We/Fr
2300-2330	Blue Hmong	9875 Th/Sa
2315-0015	Vietnamese	9495
2315-2330	Lahu	11635
2330-0115	Burmese	15465
2330-2345	Wa	11650
2345-0030	Shan	15520

(FEBC web page + subsequent corrections)

PORTUGAL RDP Internacional schedule:

0500-0600	Portuguese	15555 Mo-Fr
0600-0645	Portuguese	15555 9780 Mo-Fr
0600-2245	Portuguese*	21655 13745
0645-0800	Portuguese	15555 11780 9780 Mo-Fr
0700-0830	Portuguese	17725 15555 9780 Sa/Su
0700-0900	Portuguese	17740 Sa/Su
0800-0900	Portuguese	15555 9780 Mo-Fr
0830-1000	Portuguese	17725 15555 11850 9780 Sa/Su
0900-1055	Portuguese	21720 17725 15555 9780 Mo-Fr
1000-1200	Portuguese	17725 15555 9780 Sa/Su
1055-1200	Portuguese	15555 9780 Mo-Fr
1100-1200	Tetum	17740 Mo-Fr
1200-1300	Portuguese	17740 Mo-Fr
1200-1330	Portuguese	21515 Mo-Fr
1200-1700	Portuguese	17745 17725 15555 15200 9780 Sa/Su
1400-1900	Portuguese	21515 Su
1500-1800	Portuguese	21515 Sa
1600-2000	Portuguese	17680 15555 13625 11780 Mo-Fr
1700-2000	Portuguese	17745 17680 15555 15200 9780 Sa/Su
2245-0000	Portuguese*	21655
2300-0330	Portuguese	13700 13640 11840 11770 9520

*-RDP Africa Service (BBCM)

ROMANIA *Romania Actualitati* home service noted at 2320 on 5990, Galbeni 120 kW, modulation reminds heavily to Radio Cairo... This is not to be confused with possible *Radio Romania International* outlets for North America from the Tiganesti transmitters later at night. (3-Aug/Ludwig-GER)

RUSSIA *Voice of Russia* is booming in on new 7180 0100-0500 (ex 9665). 11675 continues to provide good afternoon reception 1800-2100. (4-Aug/Grishin-ONT/WoRadio/Hauser/EDXP/Padula-AUS)

SAN MARINO (OR NOT) Note attached to a *Radio San Marino International* QSL reads: "Due to excessive reaction of the San Marino Government and Postal Authority, RSMI is forced to stop its broadcasts until further notice. We hope to return to the air every year, same month, same week-end (in 1998, Dec. 19-20), same freq. (7580/11410 kHz). Thanks for your interest." (Buer-FL) [I still think this plainly-authorized transmission comes from elsewhere. -AQ]

SINGAPORE Observed sked for *Singapore Broadcasting Corporation* shows former outlets of 6155 and 6160 deleted, in favor of 6150. (DS=Domestic Service, RSI=Radio Singapore International External Service)

6000	CC DS	2300-1100
	CC RSI	1100-1400
	CC DS	1400-1600
6015	EE RSI	1100-1400
6070	ML RSI	1100-1400
6120	CC RSI	1100-1400
6150	EE DS	2300-1100
	EE RSI	1100-1400
	EE DS	1400-1600
7170	Indian langs DS	2300-1600
7245	ML DS	0000-1100
	ML RSI	1100-1400
	ML DS	1400-1600
7260	ML DS	2300-0000

(Padula-SEAsia/EDXP)

SPAIN *R. Exterior de Espana* broadcasts to Europe 2000 to 2100 Monday to Friday are on 9590 (ex-9855) and 11830. (3-Aug/Howship/British DX Club/Review of International Broadcasting/Hauser-OK)

SRI LANKA *SLBC* noted *2330-0100 on 4870 with Sinhala-B, 4902*2300-0100 with Sinhala-A. Also from around 1215 on 4870. (Padula-SEAsia/EDXP)

TAJIKISTAN *Radio Tajikistan* is the external service of Tajik Radio, the state broadcaster.

0100-0200	Dari	7245
0200-0300	Persian	11620 9905 7245
0300-0345	Dari	11620 9905 7245
0345-0400	English	11620 9905 7245

0400-0415	Arabic	11620 7245
0415-0500	Persian	11620 7245
1400-1500	Dari	7245
1500-1600	Persian	7245
1600-1645	Dari	7245
1645-1700	English	7245
1700-1715	Arabic	7245
1715-1800	Persian	7245

Tajik Radio First Program		
0030-0200	Tajik/RR/Uzbek	11635 4635
0200-0500	Tajik/RR/Uzbek	11635 5800 4635
0500-1630	Tajik/RR/Uzbek	11635 4635
1630-1900	Tajik/RR/Uzbek	11635 9905 5800 4635

Tajik Radio Second Program		
0030-1900	Tajik/Russian	7245
0500-1400	Tajik*	7245

*="Payk-i 'Ajam" service (BBCM)

TANZANIA 5050.05 *Radio Tanzania* noted in EE @0259 dance mx, 0300 6 tp's (5 lo/1 hi), M ID, brief newscast, back to mx 0302. Fair in summer QRN. (6-Aug/Quaglieri-NY)

THAILAND *R. Thailand*, Bangkok, observed sked for 4830 6070 7115 is 2200-1730. All three channels audible throughout Northern Thailand. On some days, there is a break in transmission from 0100-0200. 4830 was subject to fade-out at times during local midday period (0500-0600).

Or Sor, Bangkok, 6149.9, observed 0900-1000 with typical Thai vocals, QRMing Singapore BC 6150 EE service. (Padula-SEAsia/EDXP)

UKRAINE I heard *Radio Ukraine International* back at their usual time and freqs, UT 0000 on 9550 & 12040 with excellent reception on both. (30-Jul/Grishin-ON/World of Radio/Hauser-OK). Following your reports on RUI I checked out the 2100 transmission on July 25. I heard them on 6020 7180 7240 7380 7410 and 13590. They had the DX program at 2145. At the end, the presenter announced that 12040 and 9550 had been off the air since late June. They were broadcast from Mykolayiv to NAM. Transmissions on these frequencies had ceased due to the failure of the National Radio Company to pay rental fees. Announced sked at the end for English was:

0000	5905 5915 6020 7240
0400	5905 6020 7410
2100	7380
2100	5905 6020 7240 7410 9560 13590

Presenter also said 7150 and 12050 at 0400-1600 had ceased. (26-Jul/Barracough-UK/World of Radio/Hauser-OK) R.I.B.)

Radio Ukraine observed with German service (=European program stream) at 2310 varying around 5937. Seemingly this is the nominal 5940 outlet, a

100 kW transmitter at Brovary, 2300-0500. The shape of the faulty transmitter at Kharkov seems also to worsen more and more, I found him at the same time on 5905 to have its unmistakable growl very loud and bothering. (3-Aug/Ludwig-GER)

UNITED KINGDOM Merlin Network One is a service of Merlin Communications International Ltd., the privatized UK-based transmission company which carries BBC World Service and other international broadcasters.

0000-0100	English-RRN	13690	11985	9645	Th
1700-1900	English-RC	15200	We		
1900-2100	English-MZ	15565	13690 We		
2100-2200	English-HC	13690	11985	11915 We	
2200-2300	English-HC	13690	11985	11915	
		9780	9645 We		
2300-0000	English-RRN	13690	11985	9780	
		9645	We		

HC-Hard Country MZ-Media Zoo RC-Radio Caroline RRN-Rock Radio Network (BBCM)

It would appear that BBC has finally shaken the ute on 12095 [12098?] that has plagued this frequency for so many years. I have not heard the interference for a week now. It is interesting to note that only recently, Worldservice has started using 12095 for the Americas after 2000 UT [via Ascension]. I wonder if this had anything to do with it. (Reid-ON/Review of International Broadcasting/Hauser-OK)

USA The last few weeks the DX-ing world has been all hyped about finding that **AFN/AFRTS** is broadcasting on shortwave, for the first time since the station left shortwave in 1986. Now it turns out to be more of a special US Navy utility transmitting, than regular shortwave broadcasting. After all excitement the AFRTS broadcast center in California explained this: "The U.S. Navy is relaying the AFRTS signal from their Key West, Florida transmitters," said to Charles P. Barker, Armed Forces Radio and Television Service Broadcast Center. Why? According to Larry van Horn, speaking with "contacts" within the US Navy, the reason is loss of a transmitting satellite, forcing the Navy to "replace that service with HF for West land ships." The transmissions can be heard on 4278.5, 6458.5 and 12689.5 kHz. Reception reports could possibly be addressed to:

Armed Forces Radio and Television Service Broadcast Center

Affiliate Relations Customer Service

1363 Z St. Bldg 2730

March ARB CA 92518-2017, USA

(Nordic Shortwave Center) [12 MHz outlet only one heard here all weekend (22-23 August)-AQ]

KTBN, Salt Lake City, Utah

0000-1500 English 7510

1500-0000 English 15590

(BBCM)

7415 **WBCQ**, Monticello, Maine, tuned in at 0122 UTC, to a rock solid signal and test program of rock and roll, with frequent test announcements. Test ran until 0208, when off with a test tone. Absolutely perfect audio. Announced this was the first day of testing for the station. Gave address for reports:

WBCQ

97 High St.

Kennebunk, ME 04043 (21-Aug/Bishop-FL/DSWCI DX-Window/van den Boogert)

Revised schedule on George Jacobs' web site shows that **WBCQ** in Maine is authorized to use 7415 between 22 and 06 UTC, effective September 1. (Moats-OH/World of Radio/Hauser)

WGTC-2 planned to resume testing 10 Aug from around 1500 on 9505, and continue the rest of the week; with 340-degree rhombic. This unit is about to go into regular service. Dave Frantz tells me that yet another FCC surprise inspection took place a month ago, and everything was OK. WGTC continues to be harassed, perhaps by land-development interests in the neighborhood. He is gathering evidence that other stations pose a far greater risk of RF radiation, such as WSB-750 whose tower is in the middle of a shopping center it owns; and WWBS Macon GA is likely to have even more severe risks and problems transmitting from downtown rather than a rural area. (8-Aug/Hauser/Review of International Broadcasting/EDXP/Padula-AUS)

World Harvest Radio WHRI/WHRA/KWHR:

Angel 1 (**WHRI**—South Bend, Indiana)

0000-1000	English/SS	7315
1000-1300	English/SS	9495
1300-1800	English/SS	15105
1800-0000	English/SS	9495

Angel 2 (**WHRI**—South Bend, Indiana)

0000-1000	English	5745
1000-1500	English	6040
1500-2100	English	13760
2100-0000	English	5745

Angel 3 (**KWHR**—Hawaii)

0000-0400	English	17510
0400-1000	English	17780
1000-1800	English	9930
1800-2000	English	13625
2000-2200	English	15405
2200-0000	English	17510

Angel 4 (**KWHR**—Hawaii)

0700-1600	English	11565
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Angel 5 (**WHRA**—Greenbush, Maine)

0300-0500	English	9400
0500-0800	English	11565
1800-2000	English	17655
2000-2200	English	15460
2200-0000	English	13760

(BBCM)

WSHB change as from 1 Sep: NF 18910 (ex 18930) 1600-1900. (13-Aug/German/EDXP/Padula-AUS)

WMLK Upgrade plans announced in the July 1998 "The Sacred Name Broadcaster:"

1. Improve the original 50 kw (converted MW) transmitter, and construct a new antenna capable of higher power.
2. Convert their second 50 kw (MW) transmitter to 100 kw SW.
3. Recondition original transmitter, and upgrade it to 100 kw.
4. Then combine the two for 200 kw of power.

They say they've "cut back on some of the broadcast time in order to begin work on improving the transmitter." (12-Aug/Russell-MI/WOR/Hauser-OK)

The US Congress has authorised an expansion of US international broadcasting to China. This includes 24 hours of transmissions each day in Mandarin. The **VOA** and **RFA**, both US government funded stations based in Washington, will each transmit 12 hours a day in Mandarin. But until **RFA** can hire some more staff they are transmitting 11 hours a day in that language and **VOA** 13 hours. On 25 Jul **VOA** added 3 new hours in Mandarin from 0200-0300 and 0700-0900. On 2 Aug **RFA** added Mandarin transmissions at 0500 to 0700, frequencies include 17615 and 17880 via **KHBI** in Saipan. There is an agreement that **VOA** and the US surrogate international stations, **RFE**, **RL** and **RFA** will not broadcast in the same language at the same time. But both **VOA** and **RFA** are broadcasting in Mandarin at 0400-0500. Neither station wants to give up the spot. Eventually the Broadcasting Board of Governors, which supervises all US international broadcasting will decide who gets this hour. (15-Aug/Communications World/DX Partyline/Ogrizek/EDXP/Padula-AUS)

UZBEKISTAN *Uzbek Radio*, based on monitoring observations and information published by the broadcaster.

First Program "Uzbekistan"

0000-2200 Uzbek 5995

Second Program "Mashal"

0400-1300 Uzbek 4850 15165 15200
1300-1400 Uzbek 4850 9545 15165 15200
1400-1799 Uzbek 4850 9545
2100-2300 Uzbek 4850 9540

(BBCM)

VENEZUELA After Paraguay, I found an open carrier on 9540, and expected this **R. Nacional** to have even lower modulation; it was a bit low, but im-

proved over previous situation. Weaker signal made it hard to copy. Promptly at 1100 began IS of about 16 treble notes repeated a few times, sounded like steel drum. ID and address as Apartado Postal 30-7-9(?), Caracas 1050, Venezuela; and introduced program personnel by name. Tough copy with fading. (7-Aug/Hauser-OK) Correct address for station is:

Radio Nacional de Venezuela
Director de la Onda Corta Sr. Miguel Angel Cariel
Apartado Postal 3.979
Caracas 1010-A Venezuela

(18-Aug/Monges-VEN/Review of International Broadcasting/Hauser-OK)

R. Barquisimeto, 690, plans to reactivate SW 9510 starting in October in order to broadcast 98-99 season Lara Cardinals baseball games to Venezuela and abroad; will also have website and RealAudio, per Aug 14 stories in three local newspapers (**Brandt-VEN/World of Radio/Hauser**) Same station previously publicized 9510 reactivation plans which never happened; maybe this time? (Hauser-OK)

VIETNAM V. of Vietnam, Hanoi, observed sked 2200-1600 on 4960 12035 (Network 2) and 5925 10060 (Network 1). Both channels audible in Northern Thailand for entire broadcast period.

Hmong Service: is not on the air continuously, and sked seems variable. However, evening service noted at *1200-1400 on 6165, announcing "**Hmong Radio Station**"—phonetically this is heard as "H-moong" (with the "oo" heard like "oo" in the English word "room"). Also noted 0500-0600. Listed 5030 not heard at all at any time and possibly inactive.

Lao Cai on 5597 noted at fade-in at 1005 with local songs. Also noted on 4681 (formerly heard on 4677) in period 1000-1300.

Radio Son La 4740 noted throughout the day with local programs, 0300-1400. Sign-on appears to be 0300.

Bac Thai noted on 7153 from fade-in 0930 to past 1300, also 0300-0600*. Good steady signal during day in Northern Thailand. (Padula-SEAsia/EDXP)

5597.50, **Lao Cai**, active at 1320-1330*, but not //6696. (29-Jul/Schulze-PHL/DSWCI DX-Window/van den Boogert-TWN)

6386.40, **Lai Chau** 1 (p), S/on around 1015-1031*, again S/on around 1210-1300*, S/off varying. Vietnamese + dialects, Vietnamese pop music, native music, political talks. 35432. 1215 IS gongs, a piece of Vietnamese music, mention on "Lai Chau..." 1228 flute intervals, "Yen Bai..." mentioned. S/off at 1225 on Aug 2. (2-Aug/Schulze-PHL/DSWCI DX-Window/van den Boogert-TWN) **SW**

Pirate Radio Report

Chris Lobdell

P.O. Box 146

Stoneham, MA 02180 0146

Internet: clobdell@medicone.net

Hello and welcome to the September 1998 edition of **THE PIRATE RADIO REPORT**. This is a special issue as we are announcing the winners of the Second Annual Pirate Radio Popularity Poll, so without further ado, here is the results.

WREC/Radio Free East Coast

was the station voted number one. Comments from those responding mentioned the excellent SSB audio quality and drift free signal from the transmitter operated since 1993 by P.J. Sparx. Many also appreciated the many relays done over the past year by WREC. The bad news is that P.J. announced that WREC shut down in early July! This is one station that will be missed by the pirate audience.

Our second most popular station this year was **RADIO METALLICA WORLDWIDE**. This super powerful voice is operated by Dr. Tornado and Senor El Nino. Those voting for this station thought that the programming was mediocre but gave it recognition because of it's super powerful signal.

Last but not least, most popular station number three goes to Joe Momma of **RADIO NONSENSE**. Those responding liked the interesting mix of comedy and music and the effort put into making a broadcast.

So there you have it. We only had 12 entries. What about the rest of you? Why not make it a point to vote in next year's poll!

Loggings...

We've got lots of loggings this month, including some that originated from Europe, so let's get to them!

The **FREE DYLAN EXPERIENCE**, a parody station poking fun of the Free Hope Experience and Bob Dylan Radio was heard on July 14th at 0300 UTC. [B. Wilkins-MO]

LASER HOT HITS, a Europirate was heard with listenable audio at 0411 UTC playing US and British pop music on 6218.79 kHz. The date was July 26th. [C. Rippel-VA]

MYSTERY RADIO was logged on August 3rd from 0212-0249 sign off on 6955 kHz USB. They were broadcasting their Spanish version of the station "*Radio Misterioso*". [B. Wilkins-MO]

WACK RADIO was heard on July 14th at 0313 with fake Ads and made up songs on 6955 kHz USB. [D. Krause-OH]

RADIO BLUE STAR, a Dutch pirate was heard on August 9th from 0058 UTC on 6294.4 kHz. Programming included Dutch drinking songs, numerous IDs, talk in both English and Dutch. A phone number was given along with their address. [J. Novello-NC]

RADIO METALLICA WORLDWIDE, the station that came in second in our popularity poll was noted on July 15th at 2143 UTC on 6955 kHz AM. This seemed to be an old show that featured Dr. T, Sr. El Nino and Jade. Another broadcast was heard on August 2nd at 2347 UTC with Heavy Metal and German rock. [D. Krause-OH]

RADIO TWO, the station that uses the slogan "We may not be Radio One, but we're still gonna have some fun" was heard with a fair signal with hum in the audio on August 8th at 2314 UTC on 6955 kHz AM. Canadian oldies were featured. [J. Fisher-MA]

The **SHORTWAVE RELAY SERVICE** is a pirate operating from Europe. They test quite frequently between 2200-0100 on the weekends. They were heard on their usual frequency of 11470 USB at 0114 UTC on August 9th with rock music, IDs, announcing the Wuppertal drop. [J. Fisher-MA]

That's it, Happy pirate DX!

-Chris

SWR

QSL from

WINB

Red Lion, Pennsylvania USA

This is to confirm your reception of WINB.

Ltr 16/77. At 2030 UTC, Frequency 13790 kHz.

Remarks: 1700-2200-13790 also 0400-11950

World Inter-National Broadcasters, INC.

By: ed W. Wass

WINB broadcasts with a 50 kW transmitter into a Rhombic antenna system which can deliver greater than 1000 kW effective power in the main beam. Red Lion, Pennsylvania is located at approximately 40N, 76 5W.

6933 f/d cd. in 3 mo. (Barto-CT). f/d "Three Gorges of the Yangtze River" cd. in 1 mo. (Humenyk).

CLANDESTINE: Voice of Sudan

* 12008 and 7999.5 f/d 8½ x 11 "Verification Certificate" in 17 ds. via the UK address. This was for \$1.00. v/s Ahullahi F. Elmandi, Director. (Kusalik). 9025.1 and 7999.6 same as above w/ 6 page ltr. about the National Democratic Alliance. (Barto-CT).

COSTA RICA: Radio Universidad de Costa Rica

6105 f/d cd. in 58 ds. for \$1.00. (Mann). **United Nations Radio** 7385 via **Radio For Peace International** f/d cd. w/ schedule in 5 wks. for \$1.00. (Molander-CA).

CROATIA: Croat Radio 13830 rcvd. an appologetic ltr. which stated that the station does not issue OSL cds. I rcvd. schedule, travel brochure. This was after a f/up rpt. (Molander).

EGYPT: Egyptian Radio and TV 17690 p/d cd. in 3 mo. (Barto). 9900 p/d cd. in 2 mo. (Barto). 17670.1 via **Abu Zaabal** p/d "Cairo" cd. in 3 mo. (Barto). 12050 and 9850 via **Abis** p/d cd. in 3 mo. (Barto). 9900 f/d 3rd cd. in series w/ postcards, sticker and schedule in 15 wks. after a

NOTES: Steve Martin from Garden Valley, CA says a little trick he was told by **Hill Plum** was not to seal envelopes going to certain destinations. has paid off with OSLs from Pakistan and Armenia. The goodies or \$ may disappear but the report may reach the station. Good tip. **Ed Tilbury** says the recent OSLs he has received may be enough to inspire him to install a few beverage antennas down at his cabin. It sounds like a great place. Wish I was there with you... Sam. A big thank you goes out to **Jim Moats** from Ravenna, OH. He supplied your editor with the info on the Radio Free Asia sites for 1997. Also, thanks for the new RFA schedule. I've been monitoring their broadcasts... Sam.

f/up rpt. (Molander). **Voice of the Arabs** 9700 and 15285 via **Abu Zaabal** f/d cd. in 2½ mo. (Barto). **Radio Cairo** 9475 f/d cd. in 3 mo. for 1 IRC. v/s Sahar Kailil. Also rcvd. newsitr., stamp and postcards. (Pollack-MD).

ENGLAND: Canadian Forces Network

* 11835 via **Skelton** f/d "RCMP" cd. in 16 ds. for 2 IRCs. v/s Bill Westenhaber. Also rcvd. schedule, info. package and sticker and a plastic pennant. (Wilkins-MO). **Merlin Network One** 13690 f/d personal ltr. in 13 ds. for \$1.00. v/s Michelle Franks, Assistant Schedule Manager. (Sgrulletta-NY). same in 1 mo. (Humenyk).

ETHIOPIA: Radio Fana 6210 f/d cd. w/ schedule via registered mail in 3 mo. after a f/up rpt. for \$1.00. v/s Hamelmal T. Haimcnot, General Manager. (Myers-VA).

Radio GUATAPURI
VALLEDUPAR, CESAR, COLOMBIA

ESTACION H.J.N.S. ONDA LARGA
740 KILOCICLOS

50 KILOVATIOS DE POTENCIA EN ANTENA

RADIO CON CALIDAD TOTAL,
LIDER Y MAESTRA DE LA
RADIODIFUSION
VALLENATA.

Dear Mr. Norman Constanti;
 This card verifies your reception of
 The Lebanese Broadcasting System, Beyrouth,
 on 26/6/70
 at 0128-0255 GMT
 Frequency: 11925 KHz
 Power: 100 Kw
 Thank you!

(Signature - stamp)



FINLAND: Radio Finland 11735 f/d
 "Pori Site" cd. in 3 wks. for
 a \$1.00 and a rpt. sent direct
 to the site. (Molander-CA).

GEORGIA: Voice of Hope 12125
 f/d "Mosaic" cd. in 10 ds.
 via the UK addr. (Mann-NE).

GERMANY: Deutsche Welle 9505
 via **Wertachtal** f/d cd. in 7
 wks. (Barto). 3995 p/d cd.
 in 2½ mo. (Barto). 9545, 7130
 6145 and 5100 via **Nauen** p/d cd
 in 3 mo. (Barto). 9545, 6075 &
 1 mo. (Humenyk). **Voice of Hope**
 ds. (Mann).

* 6140 f/d cds. in 1 mo. (Barto). same in
 15715 via **Julich** f/d cd. w/ site in 12
GREECE: Voice of Greece 7448 and 6260 f/d
 schedule in 5 wks. for \$1.00. (Molander).
GUAM: KTWR Trans World Radio 9865 f/d cd. in 26 ds. v/s Kathy Gregowske.
 (Constanti-MO).

VERIFICATION SIGNERS: Democratic Voice of

Iran 5835 Taji Azar, Project Leader:
 DVI, BCM, Box 5842, London WC1N 3XX.
Radio Cristal International 5012 Fern-
 ando Hermon or Margarita Reys, Secre-
 tary. Addr: P.O. Box 894, Santo Domingo.
Radio El Buen Pastor 4815 Juana
 Guaman, Secretary. **Sunrise Radio** 5850
 Addr: Sunrise House, Southhall, Middx
 UB2 4AU, England. **All India Radio** 3315
 via Bhopal A.K. Bhatnagar, Director of
 Frequency Assignments. **RRI Palu** 3960
 Untung Santoso, Kepala Seksi Teknik or
 Chief Engineer. Addr: Jalan R.A. Karti-
 ni 39, Palu 94112, Sulawesi Tengah...
 via PLAY DX.....Sam.

HAWAII: Radio Free Asia 9930 via **KWHR**
 p/d ltr. in 5 wks. (Barto). **KWHR** 17555
 f/d "Globe/Satellite" cd. w/ schedule
 in 124 ds. v/s Loren Holycross. (Hu-
 menyk:-ONT).

ICELAND: Rikisutuarpid 11402 f/d "Main
 Roads - Geographical" cd. in 3 wks.
 for \$1.00. (Molander-CA).

INDIA: All India Radio 5010 via **Thiru-
 vananthapuram** f/d cd. for a taped
 rpt. in 266 ds. v/s A.K. Bhatnagar, Director.
 The QSL was direct from the station. Addr: AIR, Thiruvananthapuram -
 695014, Kerala, India.
 (Washburn-ME).

**IRAQ: Radio Baghdad Inter-
 national** 11785 f/d cd.
 in 105 ds. (Constanti).

ISRAEL: Kol Israel 11605
 "Logo" cd. in 50 ds.
 w/ schedule and rpt.
 forms. (Humenyk-ONT).

ITALY: RAI f/d "Buildings
 of Torino" cd. w/
 ltr. and schedule in
 1 mo. (Humenyk).

JAVA: Voice of Indonesia
 11785 p/d "Three Color
 Lake" cd. w/ friendly
 ltr. in 4 mo. for 1
 IRC and ms. (Myers-VA)



Estimado oyente:
 Tenemos el gusto de confirmar su control
 de nuestra emisión en 5014 KHz
 de fecha 22 Noviembre 1998
 hora 20:24 a 21:04 local UTC.
 Le saludamos atentamente
 Fernando Hermon Gross
 Director Programación.
 Avanzada 894
 Calle Príncipe Salvador No. 18, Altos,
 Santo Domingo, República Dominicana
 tel: (809) 566 3411

Sr. CARLOS MANN
 6711 South 139 th
 Avenue Circle,
 Omaha, Nebraska 68137
 U.S.A.

f/d paper QSL in 2 mo. for \$1.00 (Molander)
JAPAN: Radio Tampa 3925 f/d cd. w/ stickers
and a thank-you note in 10 ds. for \$1.00
(Molander-CA).

KOREA, REPUBLIC OF: Adventist World Radio
9515 f/d "AWR Special Relay Endorsement"
cd. in 3 mo. for \$1.00. This was via the
Kimje site. v/s Adrian Peterson. (Kusalik).
5975 via **Hwasong** site in 3 mo. w/ same cd.
Schedule was rcvd. (Kusalik-ALB).

VERIFICATION SIGNERS: Namibian Broadcasting Corporation 3270 S. Lind, Head Officer.
Federal Radio Corporation of Nigeria 4770
via Kaduna. R.B. Jimon, Assistant Director
of Technical Services, Studios, Links
and O.B. **BBC Masirah** 15310 David Plater.
Addr: P.O. Box 6898, 112 Ruwi. **Radio East**
Sepik 3335 Elias Albert, Assistant Provincial
Station Manager. **Radio Santiago**
5730 Juan Tuchia Oscate. Addr: Municipal-
idad Distrital Rio Santiago Puerto Galilea,
Condor Canqui, Amazonas. **Radio Union**
6115 Carlos A. Gonzales Solimano, Director Gerente; **Far East Broad-**
casting Company 15450 Dorothy Niebling, QSL Secretary... via PLAY DX.

LAOS: Lao National Radio 6130 p/d ltr. w/ used stamps in 166 ds. for a

SPECIAL OFFER: Our customers have spoken. The
enclosure of used postage stamps as a form
of gift with your reception reports seems
to be working. For 1998 we are now offering
the following:
\$10.00 will bring you
1300 foreign stamps;
\$15.00 will net you a
total of 2300 stamps.
With either order you
will receive an addi-
tional 600 stamps (US). That's 1900 total for only
\$10.00 or 2900 for only \$15.00. You will not be
disappointed. Please try to
include an extra \$3.00 for over-
night USPO delivery. Mail your
order to your **NASWA** QSL Editor.



Dear Friend,

Thank you for your report, which we
herewith verify as fully correct. *Hesaru*
IBRA RADIO was heard over Radio **Teas**
Europe/Radio-Mediterran as follows:

Hesaru
Date: June 6, 1997
Hour: 2000 - 2100 GMT
Frequency: 12220 MHz (.....m)

Your interest in the IBRA RADIO broad-
casts is much appreciated and we shall
be glad to hear from you again.



S-105 36 Stockholm
Sweden

tion. She collects used stamps and postcards. (Washburn-ME).
LIBYA: Radio Jamahiriya 15415 f/d "African Service" cd. in 77 ds. for a
taped rpt. and \$1.00 mailed to the Malta addr. (Stewart-MO). rcvd. two
9x7 inch "Temple" photo w/ rpt. form in 1 mo. for \$1.00. (Molander-CA).
MALAGASY REPUBLIC: Adventist World Radio 3215 via **Volondry** f/d "Hellville
* House" cd. in 64 ds. for a taped rpt. and \$1.00. v/s E. Gysin-Ruf, Lis-
tenser Mail Dept. Also rcvd. personal ltr, QSL stamp and a calendar.
(Sgrulletta-NY). f/d "WWCR Silent Period" cd. w/ personal ltr. in 2 mo.
for \$1.00. (Maroti-NY).

MALAYSIA: Radio Malaysia
Sarawak 5005 via **Sibu**
f/d "Station Facility"
cd. in 2 mo. for \$1.00
(Molander-CA)... Sorry, I
should list this under
Sarawak... Sam.

MEXICO: Radio Mil XEOI 6010
attractive blue and gold
f/d "Logo" cd. in 115 ds
for \$1.00 and a f/up rpt
via E-mail. (Mann-NE). f/
f/s "Logo" cd. w/ sked.,
stickers and a personal
ltr. in 7 wks. for a SP
rpt. and \$1.00. Station
said that this is the



QSL card that they have ever sent to a listener. (Molander)



RADIO PORTUGAL INTERNATIONAL

Radio Mexico International
XERMX 9705 p/d "Festival Dance" cd. w/ schedule and stickers in 11 wks. for \$1.00. Also rcvd. personal ltr. (Molander). **XEPPM Radio Educacion** 6185 f/d cd. w/ stickers, station literature and a calendar for \$1.00. (Molander).

Date: 29 December 1995
Hour (UTC): 0230 - 0300
FREQUENCY (KHZ): 9570 (21)

QSL

To: **GEORGE CLEMENT**
Your report is hereby verified as fully correct.
We would be glad to hear from you again.

MONGOLIA: Voice of Mongolia 12085 f/d "Horse Racing" cd. w/ postcards and stickers, stamps and a schedule in 6 wks. for \$1.00. (Molander). same in 2 mo. w/ tourist brochure for 1 IRC. Also rcvd. schedule. (Myers-VA).
MOROCCO: Voice of America via **Briech** 9760 and 17895 f/d "Alaska" and the "Golden Gate Bridge" cds. in 43 ds. w/ schedule and a VOA ruler. (Humenyk-ONT). (Constanti).
OMAN: BBC 15310 via **Mashira Island** f/d ltr. in 1 mo. v/s David Plater.
PAKISTAN: Radio Pakistan 11570 via **Islamabad** p/d ltr. in 94 ds. w/ pen-nant, business cd., and schedule. (Humenyk).
PALAU: Voice of Hope 9985 f/d cd. in 33 ds. (Constanti).

VERIFICATION SIGNERS: Radio La Voz de Chiriaco 5264 Santos Castaneda, Gerente and Hildebrando Lopez P., Director. **Radio SODRE** 9620 Dr. Jorge L. Mascheroni, Director. or Luis Ignacio Moreira. **Voice of Russia** 4975 via Yangi Yul. Olga Troshina, Secretary. **Radio Australia** 12080 via Brandon, Michelle Franks QSL Secretary. **Radio Jornal a Critica** 5055 Cotreire (sr.), Gerente. Addr: Av. Andre Araujo s/n., Alexio 69060-001 Manaus. **Radio Liberal Belem** 4775 Flavia Vasconcellos, News



QSL No. 1

Confirmado QSO de la estación Yaghjee

RADIO HABANA CUBA

Fecha 27-5-95 Hora UTC 04:31
(Date) (Time)
Frec. (kHz) 9985/31 SINPD 21141

INX QSO, 73's

Announcer. **National Radio of Cambodia** 11940 Kem Yam, Director of International Relations. **HCJB** 21455 John E. Burk, QSL Manager... via **PLAY DX**.

PAPUA NEW GUINEA: NBC 9675 via **Port Moresby** p/d ltr. in 6 wks. for \$1.00. (Molander).

PHILIPPINES: Radyo Philipinas 15120 f/d "Mt. Makiling" cd. in 9 wks. for \$1.00. (Molander). **Radio Veritas Asia** 9670 via **Palauig** f/d cd. w/ schedule and sticker in 43 ds. v/s Mrs. Regie de Juan Galindez. All

for 2 IRCs. (Name?) **FEBIC Radio International DZH7** 9475 f/d "Entrance to FEBIC Recording Studio" cd. in 2 mo. w/ personal ltr. (Barto). **DZF5** 9780 f/d "Harvest of the Sea" cd. w/ personal ltr. in 2 mo. v/s Roger J. Foyler, International Broadcasting Group - English Service. (Barto).
POLAND: Polish Radio Warsaw 11820 f/d cd. in 53 ds. (Mann-NE). 9525 f/d cd. in 1 mo. w/ decals, postcards and rpt. forms. (Borowski-NY).

PORTUGAL: Radio Portugal 9600, 9570, 11840 and 13640 f/d "Tore de Belem & Centro Cultural de Belem" cd. w/ schedule, ltr., and stickers in 49 ds. (Humenyk-ONT).

RHODES: VOA 9865 f/d cd. in 12 ds. (Constanti-MO).
ROMANIA: Radio Romania International 6155 and 9690 f/d "The Moldovita Monastery" cd. in 80 ds. w/ schedule and sticker. v/s F. Dochinov. (Humenyk) 11830 f/d "Manuc's Inn" cd. in 49 ds. (Humenyk).
RUSSIA: Voice of Russia 7300 cd. w/ schedule and postcards in 271 ds. after 2 f/up rpts. (Name?)

Thank you for your report on the reception of our transmission from the

Hoffnung Shortwave Station (100kW)

DATE: 16.09.96
TIME: 18.00 GMT.
FREQUENCY 3090 Kcs

nbc Radio

Box 221, Windhoek, Namibia

Kind regards
P. Schalkenbach

HR NAWENDEA VAGHJEE
5, Mc IRVINE STREET
BEAU BASSIN
HAUETIUS

RWANDA: Deutsche Welle 11785 p/d cd. in 1 1/2 mo. (Barto).
SAINT HELENA: ZHH Radio St. Helena 11092.5 f/d "Map" cd. in 269 ds. for 3 IRCs. v/s Derek Richards, Stat-



ion Manager. (Washburn-ME). same in 2 mo. for \$2.00. (Wilkins-MO).
SAIPAN: KPBS 15380 FEBC Radio International f/d personal ltr. in 49 ds. for 2 IRCs.
SAN MARINO: Radio (Name?) San Marino International 7580 f/d "The First Tower" cd. in 166 ds. for \$2.00. v/s S. Gasperoni, Chief Engineer. (Buer-FL).
SERBIA: Radio Republic Serbia 6195 f/d cd. in 3 mo. after a f/up rpt.

NOTES: Denis Pasquale in New Brighton, PA says that he has a pen pal from Slovakia staying at his residence. He wrote to him via the HCJB Pen Pal Program. Its interesting to note that both of our wardrobes are dominated by radio station T-shirts.

CBS 台北國際之聲
 Radio Taipei International

茲將明(知)為 君於台北時間一九九八年元月一日中華民族時鐘送入中央廣播電台而播之日。在收聽「台北國際之聲」於國際標準時間時分至時分。以 稱平播山之 際而日。所播報告與本台節目內容完全相同。謹此致謝。 via Hosoya

This is to verify your reception report on January 1, 1998, the day on which HRC's national radio station "Radio Taipei International" was established. Your reception report on "Radio Taipei International" on 1/1/98. The time 11:00 to 11:05 UTC correspond with our station log. Thank you for your interest.

13830 f/d "Swedish Summer" cd. in 1 mo. w/ schedule and sticker. (Humenyk). 9745 f/d cd. in 2 wks. w/ sticker and sked. for 1 IRC. (Griffin-VA).

SYRIA: Syrian Arab Republic Broadcasting Service 13610 via Adra f/d cd. w/ sticker via registered mail in 4 mo. (Barto-CT).
Radio Damascus 12085 f/d "Globe and Tower" cd. in 109 ds. w/ sticker, schedule and a newsltr. (Humenyk).

TADZHIKISTAN: Radio Free Asia 11540 via Dushanbe p/d ltr. in 5 wks. (Barto).

TAIWAN: Radio Taipei International 9610 f/d cd. in 27 ds. (Mann-NE). 9985 and 5950 f/d "Fist Day QSL" w/ pennant in 56 ds. for 2 IRCs. (Kusalik). 7130 and 11745 f/d "Staff" cd. w/ pennant, postcard and other goodies in 9 wks. (Bart-THAILAND: Radio Thailand to)

9810 f/d "Graceful Thai Doll" cd. w/ schedule in 4 mo. after a f/up rpt. and \$1.00. (Molander)
TURKEY: Voice of Turkey 9655 via **Emilia** f/d cd. w/ site in 33 ds (Mann). 7300 f/d "Native Dress" cd. w/ sked. and pennant in 6 wks. for \$1.00. (Molander).

For a 95 reception. (Barto-CT).
SINGAPORE: BBC 9740 f/d cd. in 58 ds. (Constanti-MO).
SLOVAKIA: Adventist World Radio 13715 via **Rimavska Sobota** f/d "Flowers" cd. in 19 ds. for 2 IRCs. Also rcvd. newsltr., rpt. form and a calendar. (Wilkins-MO).
SWAZILAND: Trans World Radio 9500 f/d fold out cd. w/ schedule and station literature in 7 wks. for \$1.00. (Molander-CA).
SWEDEN: Radio Sweden International 15240 and 17870 f/d cd. for a test transmission in 3 mo. for an E-mail rpt. v/s H. Widenstedt. (Maroti-NY). 9440, 9495 and

Trans p/s: SATungjio Kart
 Aramp. Xingjiao 22040
 P. R. China

ش ئۇ ئا راتىق رادىئو ئىستانسىلا مالە لىقىرى
 Feb 20 1998

Dear Mr General Radio
 021-5215. Frequency 45.0 dBm
 396: KHz. 450 KHz. 450 KHz. 7552 KHz.
 756: KHz. 756 KHz. 377 KHz. 4725 KHz.
 53: KHz. 756 KHz. 756 KHz. 9220 KHz.
 4730 KHz. 5760 KHz. 8450 KHz. 5000 KHz.
 4770 KHz. 4220 KHz. 1107 KHz.

Here we received very kind letter
 with so good you way thankst.
 I will continue to be very very happy
 and to mail you report in 2 weeks.

20

Reg. 07/10/017 MALAWI BROADCASTING CORPORATION
Telephone: 871 222 ... Telex: 971 251/253

Box 30 333 Chichil
Blantyre, Z MALAWI

Date: 11th July, 1996

MANAGERS: VACIEEC
SNC: JAVINE EPIKET
BEAC: BAKSIN
MAURITZES



RECEPTION REPORT

Dear DX Colleague,

Thank you very much for your reception report dated 26 June, 1996 on our short-wave transmission of 17 Mhz., 1996 on 3380 KHz, from 11:30 hours, to 12:30 hours GMT.

According to the programme details in your report, I am pleased to confirm that you were indeed heard to the transmission from the Malawi Broadcasting Corporation. On this particular day you were tuned to our 1.20 Show programme which is broadcast every Sunday.

Thank you for your efforts in tuning into our station and sending us the reception report. Our prime intention is to cover Malawi, yet reports from distant places like Mauritius are welcome with special interest.

11715 p/d cd. w/ station literature in 5 wks. for \$1.00. (Molander).
Voice of Greece 11730 via **Delano** f/d "White Tower" cd. in 20 ds.

* (Borowski-NY). **WHRA** 7465 f/d "First Day" cd. in 174 ds. for SASE. (Neal-TX). same w/ schedule and rpt. 中国国际广播电台 form in 176 ds. (Clement-GA).

NOTES: **George Maroti** sends his greetings and hopes everyone had a great summer season. **Norman Constantini** enjoys the QSL Column and the valuable information contained within. **John Sgrulletta** says the upper SWBC frequencies seem to be quite active. Several new countries were added especially on the amateur bands. Nice hearing from all of you... Sam.



USA (Pirates): Radio 510 International 9955 via **WRMI** f/d "Winter SWL Festival" cd. in 46 ds. for 2 IRCs. Also rcvd. sticker. (Wilkins-MO). **Radio Free Massachusetts** 1685 f/d blue form ltr. in 16 ds. for 3 ms. and \$1.00 (Sgrulletta-NY). **Radio Azteca** 6955 f/d yellow cd. w/ frog sticker in 75 ds. (Humenyik). **KRAP Radio** 6955 f/d QSL sheet in 100 ds. for ms. (Kusalik). **WGTC** 6955 via **Radio Eclipse** f/d cd. in 135 ds. for 3 ms. (Neal-TX). **One Voice Radio** 6955 ltr. w/ cd. in 11 ds. for 3 ms. Addr: OVR, P.O. Box 1, Belfast, NY 14711. (Washburn-ME). **Radio Metallica Worldwide** 6955 blue cd. in 5 1/2 mo. for SASE. (Kusalik). **Betty Boop Radio** 6950.8 f/d QSL sheet in 82 ds. (Kusalik). **Radio Eclipse** 6955 f/d "Season Finale" cd. in 232 ds. for 3 ms. v/s Steve Mann. (Wilkins-MO). **WPAP(WPAT)** 6955 E-mail QSL in 20 ds. (Kusalik). **Take It Easy Radio** 6955 f/d QSL sheet in 6 mo. for ms. (Kusalik).

The Voice of Shortwave Radio 6955 2 f/d "OSL Certificates" in 4 mo. for ms. (Kusalik). **WUNH** 6955 f/d OSL sheet for a rpt. in ACE in 46 ds. (Kusalik). **WLIO** 6955 p/d ltr. in 53 ds. for ms. (Kusalik). **Laser Hot Hits Radio** 6955 via **Anteater Radio** f/d cd. in 52 ds. 100 watts. Stickers rcvd. (Kusalik). **Anteater Radio** 6955 f/d "Skull and Bones" B&W OSL "License Plate" w/ sticker and decal in 52 ds. My best pirate OSL! (Kusalik-ALB).

RADIO MYANMAR



URUGUAY: Emisora Ciudad de Montevideo CXA42 9650.3 3 f/d prepared cds - signed and stamped in 19 ds. after a f/up rpt. in SP v/s Ahamazd Yizmeyian, Director General. I also sent \$1.00. This was my 1000th station OSLed! (Kusalik).

UZBEKISTAN: Radio Nederland 13795 via **Tashkent** f/d cd. in 2 mo. (Barto). **Radio Tashkent** 9715 f/d cd. in 2 mo. w/ schedule, and a personal ltr. typed on USSR stationery which was "whited out" I sent \$1.00. (Molander-CA).

VANUATU: Radio Vanuatu 4960 f/d "Slit Gong" cd. in 122 ds. after a f/up rpt. for \$1.00. (Mann). f/d cd. in 75 ds. (Constanti-MO).

VATICAN: Radio Vatican 15540 and 13765 f/d "Marconi Conference Room" cd. in 1 mo. w/ schedule. (Barto-CT).

VIETNAM: Lang Son Radio 6509.9 f/d cd. in 2 mo. w/ schedule. (Barto). **Quang Ninh Radio** 4708 f/d cd. in 2 mo. w/ stamps and pennant for a 77 reception. (Barto-CT). **Pleiku Radio** 4787.3 f/d cd. w/ 2 pennants & used stamps in 3 mo. for a 93 reception. (Barto-CT).

Voice of Vietnam 9840 f/d "Map" cd. w/ pennant in 9 wks. for \$1.00. (Molander-CA).

ZAMBIA: ZNBC 6265 f/d cd. in 2 mo. v/s Patrick Nkula. (Barto).



Least we forget the good letter "n"

NEW ZEALAND: Radio New Zealand International 9795 f/d "New Zealand Birds" cd. in 23 ds. for 3 IRCs. (Washburn-ME).

NORWAY: Radio Norway International 11640 cd. in 2 mo. w/ schedule for 1 IRC. (Griffin-VA). 9945 for **Radio Denmark** via **Kvitsoy** p/d "Logo" cd. in 11 ds. v/s Kate Sand. (Rorowski).



DEPARTEMEN PENERANGAN R. I.
DIREKTORAT JENDERAL RADIO-TELEVISI-FILM
STASIUN RRI REGIONAL KUPANG
Jl. TOM PELLO NO. 8 TELP. (0391) 33437, 33149 (FAX. 33149) KUPANG-NET

Kupang, 21 Juni 1997

No. : 180/1.501/97
Lampiran :
Hal : Surat balasan

Kepada
Yth. Mr JOHN L. SORULLITA
337 Buliet Hole Road
NAHOAC,
NEW YORK 10541-2605
United States of America

Hope everyone had a great summer DX season.

Sam

Kami senang dan bangga menerima surat tentang laporan penerimaan siaran kami di daerah/wilayah Saudara.
Surat Saudara tanggal 10 Februari 1997, telah kami terima tanggal 21 Juni 1997 di Kupang.

Berdasarkan surat Saudara, kami ingin mengemukakan bahwa Stasiun kami adalah RRI STASIUN REGIONAL 1 KUPANG, Jl. Tom Pello no. 8 Kupang

- Kami mengudara dengan pemancar - pemancar :
- SW 10 KW Freq. 3385 KHz Pkl. 05.00-08.30 Wita
 - SW 1 KW Freq. 3259 KHz Pkl. 17.00-22.30 Wita
 - SW 5 KW Freq. 1107 KHz Pkl. 08.30-17.00 Wita
 - SW 1 KW Freq. 1107 KHz Pkl. 05.00-08.30 Wita
 - SW 1 KW Freq. 1107 KHz Pkl. 12.00-22.30 Wita
 - SW 1 KW Freq. 1107 KHz Pkl. 08.30-12.00 Wita
 - SW 1 KW Freq. 1107 KHz Pkl. 22.30-05.00 Wita

Perlu kami kamukakan bahwa, apa yang didengar oleh Saudara pada tanggal 24 Mei 1997, adalah benar acara - acara yang kami siarkan dari Stasiun radio kami.
Atas perhatian Saudara untuk mendengarkan siaran kami, disampaikan banyak terima kasih.

Net Notes

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

Well-known Indian DXer Alok Dasgupta of Calcutta writes "Now South Asia Radio Guide is on the Internet - started with edition # 11 June 1998 but updated regularly. More features like Media News from this part of the world, sound file and pictures will be added shortly. Any comments will be appreciated." When we looked we also found the Indian receiver survey recently done for Radio Netherlands' RealRadio Web site.

Do you have a Lowe HF-150 receiver and the IF-150 computer interface? We have these items, but no Windows 95/98/NT software to control the HF-150. Even Lowe UK no longer offers a software solution. But now Mark Fine has a new "Smart Lowe Control 32" program that additionally makes use of the schedules database that he also distributes. The HF-150 control program works great!²

Speaking of receivers, Willem Bos and Media Network staff com-

pleted a comprehensive review of the German-made Kneisner + Doering KWZ 30 DSP (digital signal processing) communications receiver. It appears to be a very good receiver. Check out the 20+ page review.³ It is available as an Adobe PDF download.

Following up last month's report on WBCQ, on July 20 the station appeared on the air testing on 7415 kHz. Participants around the eastern USA in the IRC #swl (Efnct) chat channel reported good signals. Though the expected Web URL⁴ was not active, something called the "Public Desktop for The Planet WBCQ Shortwave"⁵ was activated. It appears to be some kind of chat room, and apparently WBCQ staff were participating. We have only been able to connect to this site when WBCQ is on the air.

In the listings below, "http://" is implied. Have a safe Labor Day (in the US)!

¹ www.angelfire.com/in/alokdg/

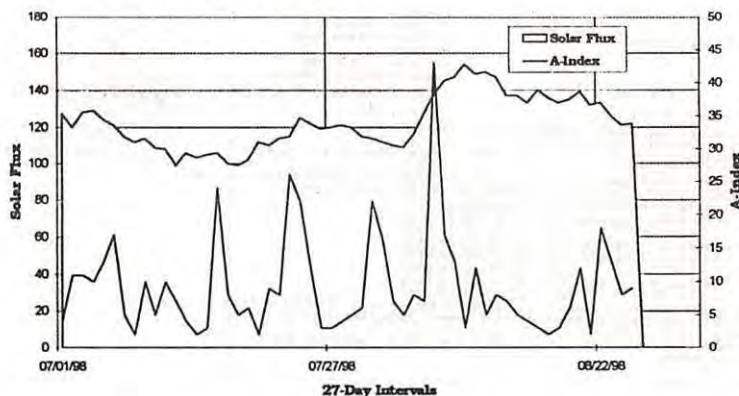
² www.crosslink.net/~mfine/

³ www.rnw.nl/realrealradio

⁴ www.wbcq.com/

⁵ 208.144.183.169/desktop/public.htm

Solar Flux & A-Index: July-August '98



Scoreboard

Jerry Lineback
220 West Third
Garnett, KS 66032

Welcome to NASWA SCOREBOARD. Thanks to all participants. The SPOTLIGHT this quarter is on Europe. You must update totals at least once a year to remain on the SCOREBOARD. C/H = Countries Heard, C/V = Countries Verified. Country counts are according to the NASWA Radio Countries List. Just a reminder that my address is 506 S. Lawrence, Scranton, KS 66537 and e-mail is jalinebk@satelephone.com Next deadline is November 15 for the December Journal. Spotlight then will be on North America.

Name, State	Total		Europe		Best European QSL
	C/H	C/V	C/H	C/V	
Dan Henderson, MD	242	234	47	46	WMR Scotland
Marlin Field, MI	240	239	46	46	EMR 6235
Jerry Berg, MA	240	238	47	46	Polish Pathfind
William Flynn, OR	240	225	45	43	R. Dublin Int.
John Sgrulletta, NY	236	236	47	47	R. Andorre
Gerry Bishop, FL	233	215	45	42	WMR
Steven Lare, MI	230	209	44	43	Karelo-Finnish
Don Hosmer, MI	227	195			
Nobuaki Takahashi, Japan	226	201	39	36	R. Andorra
Sheryl Paszkiewicz, WI	220	213	40	40	WMR Scotland
Richard Davis, NM	219	211	40	40	RIAS Berlin
Paul Buer, FL	217	205	44	42	R. Dublin Ltd.
Rick Krzemien, CA	216	212			
Christos Rigas, IL	214	194	44	44	Petrozavodsk
Fred Kohlbrenner, PA	213	191	43	42	WMR via Andorra
Stephen E. Pitts, MN	207	196	38	37	Iceland
Jerry Lineback, KS	206	108	38	29	R. Andorra
Stephen Price, PA	191	167	40	40	Belarus
Daniel McCarthy, GA	189	164	42	40	R. Dublin Int.
Bob Fleck, TX	184	161	39	38	R. Andorra
Jim Renfrew, PA	183	147	41	39	RAI Sicily
George Maroti, NY	182	138	42	39	R. Free London
Ross Comeau, MA	178	145	41	39	WMR Scotland
Gary Froemming, AZ	178	44	39	14	RID Russia
Bill Bergadano, NJ	177	116			Iceland 11402
Andy Rugg, Que.	176	157	43	41	NIRS 6273
Mark Hymenyk, ONT	169	135	38	37	R. Budapest
Robert E. Gearing II, FL	155	122			VoMed. Malta
Darren White, MS	154	110	36	33	Peace &Progress.
Bob Raymond, NH	153	124	38	34	R. Mayak Moscow
Dan Ziolkowski, NY	152	70	35	24	Poland
Joseph P. Zobro, MI	130	94	35	32	Luxembourg
Jill Dybka, TN	123	88	34	30	R. Luxembourg
Gary R. Neal, TX	117	108	34	34	R. Croatia
Norm Constanti, MO	117	90	32	29	Iceland
Bret Pollack, MD	82	54	31	25	
Gene Borowski, NY	67	56	30	28	R. Austria Int.
Don Dacus, AR	65	31	26	19	R. Dniester
Sean Warner, MN	59	34	26	20	
Signee Hoffman, CA	39	28	15	12	

Thanks again to all contributors. Share your DXing progress with others through the SCOREBOARD. 73, JAL


Contributors' Page

Fred S. Kohlbrenner
2641 S. Shields St.
Philadelphia, PA 19142
Internet: fkohl@ix.netcom.com

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Jerry BERG, Lexington, MA	R8 165' LW
Bruce BARKER, Exton, PA	NRD-535D 40' sloper
Eric BUENEMAN, Hazelwood, MO	ATS-803A MFJ-1778 G5RV antenna
Jim CLAR, Rochester, NY	R8 Sony 2010 Eavesdropper LW
David CLARK, Thornhill, ONTARIO	R8A NRD-515/SE-3 ANC-4 Carolina Beam
Peter COSTELLO, Matawan, NJ	AR3030 DX-390 YB400 70' LW Tun-4A
Nicolas ERAMO, Buenos Aires, ARGENTINA	Sony 2010 ICF-7600 7600G LW's
Bill FLYNN, Cave Junction, OR	R8 R7A DX-Ultra inverted V
Mark HUMENYK, Weston ONTARIO	Magnavox D-2935 AN-60 DX-SWL sloper
David KRAUSE, Eastlake, OH	Kenwood R600
Steve LARE, Holland, MI	2 Drake R8's
Jerry LINEBACK, Scranton, KS	R7A beverage antennas
Jeff MOLANDAR, Elk Grove, CA	YB400 45' LW
Gary NEAL, Sugarland, TX	Grundig YB-400
Bob MONTGOMERY, Levittown, PA	R388 DX Pro active antenna
Ed NEWBURY, Kimball, NE	WJ-1000 R8 60'Sloper 20' loop
Jay NOVELLO, Wake Forrest, NC	R8A LW's
Takayuki Inoue NOZAKI, Tokyo, JAPAN	
Bret POLLACK, MD	
Chuck RIPPEL, Comland, VA	WJ-HF1000A R8B R390A/SE-3 51S-1 LW's
Betsy ROBINSON, Clinton, TN	Sony 2010 Indoor antenna
David ROSS, Hamilton, ONT	R8B R8A+Sherwood SE-3 50' inverted L
Giovanni SERRA, Rome, ITALY	NRD-525 AD Sloper
John SGRULETTA, Mahopac, NY	NRD-515 AD Sloper Moseley trap dipole
Randy STEWART, Springfield, MO	FRG-100 w/Collins filters
Patrick VAN LOO, Washington, DC	R8B FRG-100 DX-390 Delta Loop Dipole
Terry WOLF, Bellville, OH	Sony 2010 LW
Dan ZIOLKOWSKI, Hanburg, NY	R8 Sloper SPS NRF-7 SEM QRM Eliminator

New member Jeff Molandar, back in the hobby after a twenty year hiatus, has logged more than one hundred countries in the past five months and has verifications from about fifty of them. Jeff is looking to borrow or buy a copy of Gerry Dexter's out of print Spanish Language Lab. If you can help, write to him at: 6808 Storia Way, Elk Grove, CA. 95758. 

Welcome to the following new NASWA members

John Boone, Spring, TX	Ray Moore, Labelle, FL
Jeremy Clark, Charlottesville, VA	Robert S. Parsons, Gloucester City, NJ
Chris Clayton, Salt Lake City, UT	James W. Shaw, Santa Barbara, CA
Bill Finn, Philadelphia, PA	Harry K. Still Jr., Elsmere, DE
Charles H. Gooden, Rockford, IL	Hiroyuki Usami, Mission Viejo, CA
Harvey Kivel, Tucson, AZ	Jerry Witham, Hilo, HI
John G. May, Holbrook, NY	

Tropical Band Loggings

Sheryl Paszkiewicz

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- 3205 BRAZIL *Ribeirao Preto* 8/7 0038 tlk, mx, sounded rel (Ziol-NY)
 3215 MADAGASCAR AWR 7/24 0329* rel mx, closing anmt, IS (Clar-ON)
 3220 NEW GUINEA R *Morobe* 8/1 1136 EG rap, pops (Line-KS)
 3235 NEW BRITAIN RWNB 8/1 1135 EG pops, poor (Line-KS)
 3255 SOUTH AFRICA BBC Relay 7/02 2010 Newshour, ID (Serr-IT)
 3260 NEW GUINEA R *Madang* 8/1 1133 C&W, tlk, good (Line-KS)
 3265 SULAWESI RRI *Gorontalo* 8/1 1132 IN pops, good (Line-KS)
 3270 NAMIBIA NBC 8/7 0052 low modulation //3290 (Ziol-NY)
 3280 ECUADOR LV *del Napo* 7/19 0930 ID, rel tlk, flute (Robi-TN)
 3287.7 MADAGASCAR R *Madagasikara* 7/24 0320 tlk, mx //5009.7 (Clar-ON)
 3300 GUATEMALA R *Cultural* 8/2 0105 tlk, EZL, ID (Boon-TX)
 3315 ADMIRALTY R *Manus* 8/1 1129 C&W mx (Line-KS)
 3324 GUATEMALA R *Maya* 8/2 0200 ranchera mx, ID, long tlk (Boon-TX)
 3325 NEW BRITAIN R *Bougainville* 8/1 1127 tlk mix w/R Maya (Line-KS)
 3335 UNID 5/7 1949 classic mx, tlk (Serr-IT)
 3338 UNID 8/1 1125 lang tlk, poor (Line-KS)
 3340 PERU R *Altura* 8/2 1000 buenas dias, tlk, huaynos (Robi-TN)
 3345 SOUTH AFRICA AWR 7/20 1830* song, anmts, IDs (Serr-IT)
 3360 GUATEMALA LV *de Nahuala* 8/8 0205 rel tlk, ID (Boon-TX)
 3365 BRAZIL R *Cultura* 8/7 0112 anmts, jingle, tlk (Ziol-NY)
 3365 INDIA AIR 7/20 1834 EG/lang nx (Serr-IT)
 3380 GUATEMALA R *Chortis* 8/8 0215 anmts, nx, ID (Boon-TX)
 3385 NEW BRITAIN RENB 8/1 1118 mx mix w/Malaysia (Line-KS)
 3395 NEW GUINEA R *E Highlands* 8/1 1118 tlk, mx, poor (Line-KS)
 3925 JAPAN R *Tampa* 7/14 0946 JP tlk, mx bridges, weak //6055 (Ziol)
 4060 CLAND Kurdish pgm 7/14 1852 patriotic hymn, vcls (Serr-IT)
 4755 BRAZIL R *Educ Rural* 8/1 0930 mx, tlk, ment Lisbon (Robi-TN)
 4760 ANDAMAN AIR 8/7 0100 yl Weekend pgm, fade 0125 (Boon-TX)
 4765 BRAZIL R *Rural* 7/4 0330 romantic mx, canned tlk (Serr-IT)
 4770 NIGERIA R *Nigeria* 2 7/19 2003 EG nx, ID (Serr-IT)
 4775 PERU R *Tarma* 8/1 1000 ID, huaynos (Robi-TN)
 4779 GUATEMALA R *Coatan* 8/8 0130 tlk, IDs (Boon-TX)
 4783 MALI ORTM 7/12 1954 tlk, FR anmts, mx bridges (Serr-IT)
 4799 GUATEMALA R *Buenas Nuevas* 7/26 0115 rustic mx, ID (Boon-TX)
 4800 MEXICO XERTA 8/2 0245 ballads, ID as R Mexico (Boon-TX) 7/18 1000 romantic ballads, desde Mexico, cha cha (Robi-TN)
 4810 ARMENIA Vo *Armenia* 7/20 2034 EG //9965 tlk, pop mx (Serr-IT)
 4828 ZIMBABWE ZBC 7/19 2012 lang afropop mx, tlk (Serr-IT)
 4835 GUATEMALA R *Tezulutlan* 8/8 0120 long tlk, Ids, marimba (Boon-TX)
 4845 GUATEMALA R *Kekchi* 8/8 0120 ment San Cristobal, ID (Boon-TX)
 4870 BENIN ORTB 7/3 2300* NA (Sgru-NY)

- 4885 KENYA KBC 7/19 *0258 IS, chorus //4935 (Clar-ON)
 4890 PAPUA NBC 7/18 1005 natl nx, tlk abt tidal wave (Cost-NJ)
 4890 PERU R Chota 8/2 0205 Andean mx, echoy, drum, ID (Nove-NC)
 4915 GHANA GBC 1 7/19 2016 EG nx, ID, sports (Serr-IT)
 4915 KENYA KBC 7/14 *0259 IS //4935, NA, tlk (Clar-ON)
 4919 ECUADOR R Quito 7/18 0311 tlk, poor (Serr-IT)
 4920 ECUADOR R Quito 7/19 1030 SP mx, singing ID (Robi-TN)
 4925 SUMATRA RRI Jambi 8/1 1153 IN pops, SCI (Line-KS)
 4930 HONDURAS R Internacional 7/26 0230 EZL, ID (Boon-TX)
 4935 BRAZIL R Capixaba 7/6 0120 tlk, ment Vitoria, ads, ID (Sgru-NY)
 4935p KENYA KBC 7/6 0142 tone, ID, NA (Sgru-NY) 7/19 2022 Western Pops (Serr-IT) 7/14 *0259 IS, TP, NA, EG FC (Clar-ON)
 4945 BOLIVIA R Illimani 7/11 1104 ment Bolivia, poor (TIN-JP)
 4945 BRAZIL Emis Rural 7/2 0120 call in pgm, TC, ID (Sgru-NY)
 4950 SAO TOME VOA 7/19 2031 nx, mx, ID (Serr-IT)
 4955 COLOMBIA RN 7/7 0225 EG ask for rpts, ID (Sgru-NY)
 4976 UGANDA RU 7/20 2058 lang tlk, afropop (Serr-IT)
 4991 PERU R Ancash 7/25 0345 kids singing, chimes, IDs (Boon-TX)
 5018.7 PERU R Horizonte 7/19 0105 hip hop & lcl melodies, ID (Nove-NC)
 5020 SOLOMON SIBC 7/18 1027 choral mx, weak (Cost-NJ)
 5025 CUBA R Reloj 8/5 0848 SP tlk, TP, Ids. Ex-R Rebelde (Buen-MO)
 5030.1 COSTA RICA AWR 7/18 0331 rel sermon, jingle ID (Serr-IT)
 5047 TOGO Rdf Togolaise 7/20 2102 FR political tlk (Serr-IT)
 5305 PERU R La Inmaculada 7/19 0205 pop mx, flutes, ID (Nove-NC)
 5522.2 PERU R Sudamerica 7/19 0217 promo (Nove-NC)
 5770 NICARAGUA R Miskut 7/21 0047-0125* mx, echo IDs (Maro-NY) 7/11 1109 romantic mx, IDs (TIN-JP)

Thank you to all contributors. We only got loggings via post from one member. I hope this doesn't mean those of you without E-mail are discouraged from sending in their logs. There is no plan to drop the Journal in its printed format. So please send those loggings to Fred.

This month contributors from 6 states, 1 province & 2 foreign countries. Next deadline to me is September 18.

Your ad could be here.



FRENDX: Twenty Five Years Ago....

In the Shortwave Center, Larry Magne writes about how to make the first-rate Drake R-4B receiver even better while John Campbell writes about his adventures with unofficial radio and Don Jensen discusses identifying rare DX stations. Around 50 radio enthusiasts attended the July 27-30, 1973 ANARC Convention in San Diego, CA. Publisher Dan Ferguson was looking for a replacement for Al Sizer, the Shortwave Center editor, who is unable to continue due to increased work responsibilities. In the QSL Report, editor Larry Yamron announces that the Scoreboard will be postponed due to some changes and that Fred Willshaw will become the new Scoreboard editor. Larry notes the "Scoreboard will probably be done by computer!!!"

International Band Loggings

Wallace C. Trelbel
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- 5915 ISRAEL *Kol Israel* in AR 1759, mx, ID, tlk, lcl songs, anmts, QRM splat (Serra ITALY 7/20)
- 5985 TANZANIA *R Tanzania* in SH 0310, native mx, excited tlk by YL, //50501 (Clark ONT 7/24)
- 59933 MALAWI *MBCC* in lang 0432, native vcl, tlk by OM, heavy adjacent chan QRM (Clark 7/18)
- 5995 UZBEKISTAN *Uzbek R* in lang 1840, lcl instrml mx, chants, QRM UK relay (Serra ITALY 7/20)
- 6005 SEYCHELLES *BBC* relay in EG 2200*, cmntry on World Cup, African svce (Sgrulletta NY 7/11)
- 6060 BRAZIL *R Universo* in PT 0937, long speech, weak sig in the clear, //9565 (Ziolkowski NY 7/13)
- 6065 ZAMBIA *R Christian Voice* Lusaka in EG 0445, inspirational songs, ID, fqy, IS (Clark ONT 7/18)
- 61351 BRAZIL *R Aparecida* in PT 2152, tlk, jingle, pop songs, nx, TC, ads, ID (Serra ITALY 7/20)
- 6160 CANADA *CKZU* Vancouver in EG 0505, CBC nx, wx rpt, long tlks, classical mx (Clark 7/18)
- 6165 ZAMBIA *ZNBC* Radio 2 Lusaka 2205*, tuned in just in time to hear NA*, g (Novello NC 8/6)
- 6165 CHAD *Rdf Nationale N'Djamana* *0427, just a snippet of IS under SRI, alt to 49045 (Clark 7/24)
- 64797 PERU *R Ondas del Rio Mayo* in SP 1137, rustic huaynos & caravalitos, ID, p w/ute QRM (Nozaki JAPAN 8/1)
- 68117v PERU *R Ondas del Rio Mayo* in SP 1130, canned ID ment Nueva Cajamarca (Nozaki JAPAN 8/1)
- 68952 PERU *R San Miguel* in SP 0125, accordion mx, vcls, ads, shouted ID over the mx (Novello NC 8/8)
- 7250 RUSSIA *V of Vietnam* relay Armavir in EG 0100, lcl & intl nx, ID, interview, g (Barker PA 7/6)
- 7260nf7 THAILAND *R Thailand* WS in EG *1100, bells, gave fqy as 7265 but definitely 7260 (Barker 7/26)
- 7285 GERMANY *D Welle* Wertachtal in EG 0242, ID, "Insight" re Vietnam, TC, fqys (Krause OH 7/15)
- 7375 BOTSWANA *VOA* relay in EG 2215, U.S. nx, sports update, g, //7340 (Ross ONT 7/10)
- 9022 IRAN *VOIRI* Teheran in EG 0030, Holy Qu'ran, soccer nx, stringed mx, exc (Robinson TN 7/9)
- 9200 SUDAN *R Omdurman* in EG 1802, nx, ID, pop mx, cmntry, rtly QRM, f-p (Serra ITALY 7/14)
- 9275 ICELAND *Rikisutvarpid* in IC 2316, rpts and interviews, ments Reykjavik, f-g (Clar NY 7/7)
- 9445 TURKEY *VoT* Ankara in GM 1836, nx, ID, pop mx, cmntry re TK history, f (Serra ITALY 7/14) in TK 0130, great traditional mx and vcls, ID's, exc (Robinson TN 7/18)
- 9450 RUSSIA *Deut Welle* relay Novosibirsk? in CH * 0955, Russian style test tones, D Welle IS 0959, excerpt from Beethoven's 9th, tlk in CH, p (Ziolkowski NY 8/8) ED: LN Nov 97 lists xmtr site on page 29 as Novosibirsk though Dan rpts Petropavlovsk-Kamchatsky as listed site??? Recent change?
- 94898 ABKHAZIA *Rep of Abkhazia R* in lang? 0332, nx, tlks, mx bks, repl 94947 fqy (Clark ONT 7/14)
- 9500 SWAZILAND *TWR* Manzini in EG 0515, relig pgm, recommending TWR Web site (Barker PA)
- 9510 SOUTH AFRICA *TWR* relay in EG 1920, story re violence against women, mx, g (Humenyq ONT)
- 9540 VENEZUELA *R Nacional* in SP 0200, pgm accenting Paraguay, exc (Robinson TN 7/9)
- 9565 INDONESIA *RRI* Jakarta in IN 0922, Doris Day song, male vcl, SCI song, p (Ziolkowski NY 7/13)
- 9580 BOSNIA *R Yugoslavia* relay in Serb 0030, IS, nx re Macedonia, sports, exc (Robinson TN 8/1)
- 9585 BRAZIL *R Globo* Sao Paulo in PT 2109, canned tlk & ID, Brazilian mx, p (Serra ITALY 7/19)
- 9595 JAPAN *R Tampa* Tokyo in JP 0902, sports rpt, excerpts from games, f, //6055 (Ziolkowski 8/10)
- 9615 BRAZIL *R Cultura* in PT 0921, male vcl, tlk, weak sig but clear, //6170 (Ziolkowski NY 7/16)
- 9615 ALASKA *KNLS* Anchor Point in EG 0810, Sinatra tribute, features, ID (Barker PA 7/11) in RS 0921, female vcls, ID in RS twice, QTH, p w/co-chan QRM from R Cultura (Ziolkowski NY 8/10)
- 9645 BRAZIL *R Bandeirantes* Sao Paulo in PT 0025, acoustic ballads, samba mx, ad for shopping center, //119251, exc (Novello NC 8/7) in PT 0952, YL tlk, very weak sig, //11925 (Ziolkowski 7/16)
- 9675 BRAZIL *R Cancao Nova* in PT 2042, tlk re Brazil, pop song, TC, ID's, fqy (Serra ITALY 7/19)
- 9705 MEXICO *RMI* Mexico City in SP 1200, ID, QTH, fqy, nx, tlk re World Cup, promo (Clar NY 7/10)
- 9730 FRENCH GUIANA *China R* Int relay in EG 0404, world nx, ID, //9560 (Serra ITALY 7/4)
- 9735 PARAGUAY *R Nacional* in SP 0130, romantic ballads, nx, tlk, g (Robinson TN 7/9)
- 97416 INDONESIA *RRI Sorong* in IN 1115-1221*, ezl mx, long tlk, Jakarta nx, NA, p (Clark ONT 7/15)
- 9750 MALAYSIA *VoM* Kajang in Bahasa Malaysia 1802, lcl pop song, anmts, tlk, ID (Serra ITALY 7/5)
- 9840 HUNGARY *R Budapest* in EG 0243, DX World pgm, vg, //11910 also vg (Ross ONT 7/2)

- 9855 GERMANY *R Vilnius*, Lithuania relay Julich in EG 0030, ID, sports items, vg (Ross ONT 8/11)
- 9870 AUSTRIA *RAI Vienna* in GM 0217, cmntry re rock group, OM w/voice over (Humenyk ONT)
- 9935 NORWAY *R Norway Int* in EG 2306, "Norway Now", TC, f (Ross ONT 8/2) ED: in EG Suns only
- 9945 CHINA *CRI Xi'an* in EG 1344, CH song, ID, tlk re China, //11660, 11675 (Serra ITALY 7/19)
- 9950 INDIA *AIR Delhi* in EG 2121, "India Calling", QTH, ID, lcl song, //1150, 7410, 11620 (Serra 7/20)
- 9965 ARMENIA *VoArmenia* in EG 2041, ID's, ancmts, fqy info, OC until 2046*, f-p (Ross ONT 7/23)
- 11600 CZECH REPUBLIC *R Prague* in EG 2245, OM reading listeners' mail, vg (Ross ONT 7/24)
- 11645 GREECE *VoGreece* in EG 0130, nx, sports rpt, ID "This is Athens...", g (Ross ONT 7/31)
- 11675 CHINA *China R Int* Urumqui in EG 1238, ID, "Welcome to Focus on China...", f (Ross 7/30)
- 11685 HUNGARY *R Budapest* in EG 0109, tlk re hotels & tourist sites in Hungary, exc (Krause OH 7/6)
- 11710 JAPAN *R France Int* relay in FR 1102, tlks, ID, signal poor w/co-chan QRM (Ziolkowski NY 7/25)
- 117166 ALGERIA *R Algiers Int* in EG 2010, nx, ID, into contemp AR lang, pop mx, g (Novello NC 8/13)
- 11735nf? SOUTH AFRICA *TWR* relay Meyerton in EG 0605, rept on TWR's HD svce, into preaching and hymns (Barker PA 7/22) ED: Both Meyerton Website & PWBR list this xmsn on 11730.
- 11815 BRAZIL *R Brasil Central* in PT 1012, ID, tlk, mx (Ziolkowski NY) 2115 soccer live (Serra ITALY)
- 11830 INDIA *AIR Delhi* in lang *0125, IS, nx(p), TC, tlk w/ments of Pakistan, f (Ziolkowski NY 8/2)
- 11850 THAILAND *R Thailand* in Mandarin 1315, ID in EG 1316, then into Mandarin, f (Ross ONT 7/18)
- 11890 PHILIPPINES *R Pilipinas* in lang 1821, nx?, World Cup championship cmtry (Serra ITALY 7/14)
- 11925 SINGAPORE *R Roma* relay in IT 1035, interview, tlks, vcl, //15240-Rome direct (Ziolkowski 8/2)
- 119257v BRAZIL *R Bandeirantes* Sao Paulo in PT 0705, "Copa Mundial Franca 98" cmnty (Nozaki JP 7/11)
- 11940 ROMANIA *RRI* Bucharest in EG 0250, sports rpt, contest ancmt, ID, TC, fqy (Krause OH 7/14)
- 11965 SRI LANKA *D Welle* relay in EG 0157, IS, ID, "Week in Review", sports nx, //7285 (Ross ONT)
- 12040 UKRAINE *RUI* in EG 0015, back on this fqy, nx, interviews, "Close Up", g (Ross ONT 7/30)
- 12080 SAO TOME *VOA* relay in FR 2123-2130*, some nx clips in EG, ID, signal flutter (Ross 7/23)
- 126895u USA *Armed Forces Radio*- Key West, FL in EG 1050, relay NPR pgm, PSA re servicemen's rights under 1951 agreement, //42785 (Sgrulletta NY 7/31) also hrd at 2050 with, mx, Armed Forces Radio ID, features, PSA's (Ross ONT 7/28) ED: These AFN SW xmsns are expected to continue until Nov as repls for lost satellite coverage to Atlantic ships participating in maneuvers (per CUMBRE DX)
- 14790u AUSTRALIA *Armed Forces Defense Radio* in EG 0315, DJ w/pop rx, //15635 (Costello NJ 7/23)
- 15095 PHILIPPINES *FEBC* in Burmese Tribal 1415, excited sermon, 1430* w/ID in EG, IS (Treibel WA)
- 15120 NIGERIA *VoN* in EG 0640, nx re polit turmoil (Barker PA) in EG 2000, drums, ID, nx (Ross ONT)
- 15170 GUAM *KSDA* in EG 1044, relig tlk, ID as "AWR", QTH, into lang 1100, p (Ziolkowski NY 7/11)
- 15170 FRENCH POLYNESIA *RFO Tahiti* in FR/TT 0300, back on the air again, ID, relig pgm, Tahitian songs, tlks, QRM from WYFR *0400, g (Sgrulletta NY 8/2, Costello NJ 8/12, Clark ONT 7/24)
- 15205 UNITED KINGDOM *VOA* relay in EG 1645, nx re publishing industry, f-g (Ross ONT 7/24)
- 15295 MALAYSIA *VoM Kajang* in lang 1810, domestic mx, fair but choppy signal (Clark ONT 8/8)
- 153749v CHILE *Voz Cristiana* Santiago in SP 1145, canned ID, ancd //6070, f (Nozaki JAPAN 8/8)
- 15395 UNITED ARAB EMIRATES *R Dubai* in EG 1600, tlk on ancient libraries in the Arab world, req recep rpts, exc (Barker PA) in EG 1629, pgm details, 5 pips, world nx, f (Ross ONT 7/24)
- 15395 THAILAND *R7* in EG 0030, ID, pgm notes, "Sound of Thai Mx", nx, good w/flutter (Clar NY 7/7)
- 15400 UNITED ARAB EMIRATES *R Dubai* in EG 0337, nx, ID, QTH, tlk re writers, vg (Krause OH 7/4)
- 15415 SRI LANKA *D Welle* relay in IN *1400-1425*, nx to 1410, peppy SEA mx, fqys, ID (Treibel 7/26)
- 15425 SRI LANKA *SLBC* in EG 1313, western pop mx, anmts, pips, ID, QRM, f-p (Serra ITALY 7/19)
- 15445 SEYCHELLES *FEBA Radio* in Bengali 1437, relig sermon, oriental song, QTH, fqy, IS, ID, relig choral chant, f (Serra ITALY 7/5)
- 15475 GABON *Africa #1* in FR 1748, Afro pop mx, anmts, promos, jingles, TC, ID, nx, g (Clar NY 7/7)
- 15485 PAKISTAN *R Pakistan* in Urdu(p) 0106, chanting, f (Ross ONT 8/6) in EG 0230, dictation speed nx, exc signal w/250 ft wire aimed at Pakistan in remote Michigan DX site (Lare MI 8/2)
- 15615 ISRAEL *Kol Israel* in HB 1830, song "Yum Yum", Julio Iglesias "Crazy", g (Robinson TN 7/18)
- 15635u AUSTRALIA *Australian Defense Forces Radio* in EG 0410-0500*, MOR vcls, "American Dance" pgm, stoff in mid-sentence w/o ID, //14790, xmtr power 10 kw(p) (Clark ONT 8/3)
- 15650 ISRAEL *Kol Israel* in EG 1405, nx re 8 yr old boy killed in bike accident (Humenyk, Ross ONT)
- 15705nf? NORWAY *R Norway Int* in NO 1915, phone interview, bridge mx, //15220 (Humenyk ONT 7/12)
- 15710 CHINA *CPBS Taiwan Service* in CH 1100, //s 11100, 11935. Best fqy 11100 (Treibel WA 8/3)


- 15755nf? GERMANY *The Overcomer Ministry* relay in EG 0835, Brother Stair pgm, f-p (Bueneman MO 8/5)
 17585nf? BULGARIA *R Bulgaria* in lang 1008, tlk, piano mx, ID, into hosted pgm, f (Ziolkowski NY 7/19)
 17675 SOUTH AFRICA *Channel Africa* in EG 1406, tlk re aircraft, interviews, ID, mx (Serra ITALY 7/5)
 17675 NEW ZEALAND *RNZI* in EG 0046, ID's, "World Watch", Maori nx, g (Clar NY 7/7) in EG 0400,
 6 pips, nx, jazz pgm (Sgrulletta NY 8/2) in EG 2135, ID, QTH, agriculture tlk (Serra ITALY 7/7)
 17715 AUSTRALIA *RA* in EG 0443, cmntry on human rights, ID 0500, //15240 (Costello NJ 7/31)
 17775 UZBEKISTAN *R Tashkent* in EG 1330, ID's, fqys, TC, nx w/mx bridges, "Partnership in the name
 of Peace", tlk re relations w/ Pakistan, f (Clar NY 7/5)
 17780nf HAWAII *KWHR* Naalehu in EG 0840, "Life in the World", ID, relig pgm, f-g (Bueneman MO 8/5)
 17840 ANTIGUA *BBC* relay in EG 1655, World Cup soccer 98 results, vg (Ross ONT 7/4)
 17895 MOROCCO *VOA* relay in EG 1700, "News Now", //11975 Sao Tome (Humenyk ONT, Ross ONT)
 21605 UNITED ARAB EMIRATES *R Dubai* in EG 1633, world nx, ID, lcl wx rpt (Krause OH 7/9)
 21695 RWANDA *Deut Welle* relay in EG 1626, tlk on World Cup finals, ID, Africa rpt (Krause 7/9)
 21725 AUSTRALIA *RA* in EG 0435, nx features, pgm notes, cmntry (Costello NJ 8/12, Sgrulletta NY 8/2)

Clandestine, Tentatives, Presumed, or Unknown

- 5970 BRAZIL *R Italiaia*(p) in PT 0915, tlk by OM, jingle, back to tlk, f-p (Ziolkowski NY 7/28)
 7125 GUINEA *R Conakry*(p) in lang 2345, hi-life mx, covered by V of Russia 2358 (Sgrulletta NY 8/5)
 9365 CLANDESTINE *R Free Asia* in Lao 0050, pop tune, YL vcl, ID in EG 0058 (Ziolkowski NY 7/12)
 95688 SAUDI ARABIA(?) *VO Iraqi People* in AR 2253-2303*, wailing in AR, f-g (Ross ONT 7/3)
 11935 CHINA *CNR Taiwan Service*(p) in CH 1040, tlks, occasional mx, weak but clear (Ziolkowski 8/2)
 15510nf CLANDESTINE *R Free Asia* in Mandarin 1530, tlks, //9445, 9905, 11520 and 11945. All of these
 fqys bothered by the same Chinese? jamming xmtrs underneath with normal? CH programing. 11520
 strongest RFA outlet (Delano CA?). The 15510 outlet was logged at this QTH on 15515 in July (also
 Delano presumably). 11945 has been reported as being based on Saipan. (Treibel WA 8/17)
 15565 CLANDESTINE *R Free Asia* Delano CA relay in Mandarin/EG 0100, IS, ID, g (Ross ONT 6/27)

Hardware Bits

by Alan Johnson

TENTEC RX-320 DSP RECEIVER—Ten-Tec has introduced their version of the PC interface black box receiver, the RX-320. It is a 3 x 6.25 x 6.5 inch (HxWxD) steel box that connects to a PC's serial port via a DB-9 connector. The control software is designed to run under either Windows 3.1 or 95 with a minimum of one megabyte of free hard disk space. The frequency coverage is from 100 kHz to 30 MHz, with degraded performance below 500 kHz. Although the RX-320 only covers HF, unlike the Icom PCR1000, which goes up to 1300 MHz, the RX-320's published specs for sensitivity, dynamic range and third order intercept point are much better than those found in the review of the Icom in the July 1998 issue of the ham magazine QST. The unit's IF bandwidths are 6, 3, 2.5, 1.8 and 0.5 kHz, with shape factors of 1.5:1 or better. The info at Ten-Tec's Website give no mention of whether or not DSP noise reduction or synchronous detection is incorporated in the receiver. Power (13.5 to 15 volts) comes from a wall transformer and either a built-in telescoping whip or an external 50 ohm antenna can be used. Audio can be routed to an external 4 ohm speaker (one watt output) or to the PC's sound card. The suggested price is \$295. Ten-Tec also makes the commercial grade RX-330B and RX-331 DSP receivers, which are rack mount models, with more advanced features. Ten-Tec's Website is <http://www.tentec.com>. Their mailing address is 1185 Dolly Parton Parkway, Sevierville, TN 37862; phone (423) 453-7172 for info; (800) 833-7373 for sales. 

FOR SALE: (1) ICOM R-9000 with 100% unblocked coverage and improved with Collins BW filters. Comes with SP-20 matching speaker. Price \$4,125.00. (2) JRC 535-D with matching NVA-319 speaker. Used less than two hours. Price \$1,075.00. (3) Sony ICF-SW-77. Newer model with elongated antenna. Price \$370.00. (4) Sony ICF-7600G. Price \$135.00. (5) Sangean 909. Price \$165.00. (6) Grundig YB-400. Price \$135.00. Buyer pays shipping on all items. Al Buckalew, 2123 Rodney Drive # 301, Los Angeles, CA 90027-2094. Phone (323) 665-8585. If recorder answers, please leave detailed message. Thanks.

FOR SALE: Shack Stuff Sale Goes On! SW sation booklets, memorabilia, bulletins and magazines, dozens of books on radio and related topics. Ten-page list for SASE or \$1.00 or e-mail request to <gdex@genevaonline.com>. Gerry Dexter, 213 Forest Street, Lake Geneva, WI 53147.

NOTICE, PLEASE: Ads are printed in the Journal when space permits at no charge to NASWA members. Send all ads to NASWA, 45 Wildflower Road, Levittown, PA 19057-3209 and stipulate the price and who is to pay postage or shipping charges on all items. NASWA requires the residential address of the sender although this may not necessarily be included.

WORLD OF RADIO and CONTINENT OF MEDIA SCHEDULE--
as of Aug 24, 1998 from Glenn Hauser

CONTINENT OF MEDIA (COM) is an additional half-hour carried only by RFPI, produced about once a month and repeated weekly until a new edition arrive, on this schedule: Fri 1930, Sat 0330, 1030, 1730, Sun 0130, 0830. RFPI currently uses 15049 before 0000, 6975 afterwards; 21460 to be reactivated soon until 0300. A new edition starts in September. COM deals primarily with domestic media developments in America.

WORLD OF RADIO SCHEDULE, SHORT VERSION as of Aug 24:
NOTE: this is posted only when there have been changes since last time. UT; Times may vary on all the SW stations.

On RFPI Costa Rica: Fri 2000, Sat 0400, 1100, 1800, Sun 0200, 0900, 2300, Mon 0700, Tue 1900, Wed 0300, (1000 currently off) on 15049 until 0000, 6975 afterwards. 21460 to be reactivated soon, until 0300.

On WWCN Nashville, Thu 1600 [NEW] 15685, Thu 2030 15685, Sat 0600 5070, Sun 0630 5070, Sun 0930 5070, Tue 1230 15685.

On WGTG, Georgia, Sat 2330 on 5085-USB.

W.O.R. is a listener-supported, public-service program about communications around the world, especially, but not limited to, Shortwave Broadcasting. Look for separately distributed rundowns of topics in each half-hour edition, or on our frequently-updated, text-only website:

<http://www.angelfire.com/ok/worldofradio>

also usually in RFPI Weekly Updates, previews by E-mail or newsgroups. This site also gives complete details of all our broadcasts on satellite, cable, AM and FM, Internet, in Spanish, and about our publications, contact info, etc.

the **CPRV** page

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Speaker - JAIR VASCONCELLOS



Radio Diffusora São Paulo

A ESTAÇÃO DO SOM DE CRYSTAL

A diversion into medium wave this month for an example of a phenomenon that was popular in the early days or DXing: club-arranged special broadcasts from foreign MW stations. Here is a 1937 clipping about a second NNRC special from Brazilian station PRF3, the first of which brought in 230 reports. Shortwave stations also had such broadcasts from time to time. +++ I would like to suggest that we are not doing ourselves or our QSLs any favors by mounting them directly on what are sometimes called "magnetic" pages, i.e. the album pages with adhesive ribs. These may be all right for photographs, which are on heavier stock, but they are often deadly to regular cards and letters. The adhesive gets stronger with age, and it eventually becomes very difficult, if not impossible, to remove things without damage. Use a paper backing under the card or letter, or, better yet, use old-fashioned mounting corners. They permit you to mount the card with no damage, now or in the future. You can even buy corners made of clear plastic and mount things directly onto clear plastic pages for viewing of both sides. +++ More info on CPRV is yours for a business size SASE. 73--

Finally ... a really easy-to-use and up-to-date handbook!

New clearly arranged alphabetical list of stations

BAHRAIN

Bahrain RTV Corporation, Abu Hayan

Ar	03.00	21.15	dom	9745
En	03.00	21.05	dom	6010

BANGLA DESH

Bangladesh Betar, Dhaka

Bg	19.15	20.00	Eu	7185
Bg	19.15	20.00	Eu	9548
En	12.30	13.00	As	7185
En	12.30	13.00	As	9548
En	17.45	18.15	Eu	7185
En	17.45	18.15	Eu	9548
En	17.45	18.15	Eu	15521.4
En	18.15	19.00	Eu	7185
En	18.15	19.00	Eu	9548
En	18.15	19.00	Eu	15521.4
Hi	15.15	15.45	As	7185
Hi	15.15	15.45	As	9548

BELGIUM

Radio Vlaanderen Internationaal, Wavre w, + Germany (Jülich J)

Madagascar (Taitata-Volondry t)

Netherlands Antilles (Bonair b)

Russian Federation

(Petropavlovsk-Kamchatskiy p)

Uzbekistan (Tashkent u)

Du	04.30	05.00	Na	8120b
Du	06.00	06.25	Al	13745w
Du	06.00	06.25	Eu Af	9925w
Du	08.30	06.55	Eu Af	9925w
Du	08.30	06.55	Eu Pa	9940w
Du	07.00	08.25	Eu	6130w
Du	07.00	08.25	Eu	9925w
Du	09.00	09.25	Eu	6130w
Du	09.00	09.25	Eu	9925w
Du	10.00	10.25	Af	15145t
Du	10.30	11.30	Af	17690w

The most detailed broadcast frequency list in existence. Modern layout allows quick information access!

Freq.	Station	Loc.	ITU	Start	End	Lang.	Target	Remarks
3569.1	Radio Difusora	Brasilela	B	10.00	04.00	Po	dom	Sun-03.00
3578.3	R Pemerintah Daerah Tingkat	Maluku	INS	09.00	14.20	In	dom	s/off varies
3580	R Pemerintah Daerah Tingkat	Poso	INS	09.00	15.00	In	dom	obs. 3524
3607.5	Nippon Hoso Kyokai	Tokyo	J	08.00	13.00	Ja	dom	SSB, irregular
3635.9	R Pemerintah Daerah Tingkat	Buol	INS	09.30	14.00	In	dom	alt. 3742.9, drift
3646.8	Radio Republik Indonesia	Fak-Fak	INS	16.00	20.00	In	dom	time varies
3660	Our Kashmir	Islamab	PAK	02.30	03.00	Km Ur	clan: IND	

Stations broadcasting on the same frequency are listed in start time order: Immediate identification of all stations transmitting here at the same time

Freq.	Station	Loc.	ITU	Start	End	Lang.	Target	Remarks
11785	Deutsche Welle	Kigali	RRW	00.00	02.00	Ge	Af La Na	
11785	Radio Iraq International		IRQ	00.00	03.00	Ar	Na La	nominally 11890
11785	Voice of Indonesia	Cimang	INS	00.30	01.00	Sp	La	alt. freq. 9525
11785	Voice of Indonesia	Cimang	INS	01.00	02.00	En	As Na	alt. freq. 9525
11785	Voice of Indonesia	Cimang	INS	02.00	03.00	In	As Na	alt. freq. 9525
11785	Deutsche Welle	Kigali	RRW	02.00	03.55	Ge	Af La Na	
11785	Voice of Indonesia	Cimang	INS	03.00	04.00	Ar	Me	alt. freq. 9525
11785	Radio Iraq International		IRQ	03.00	04.00	En	Na La	nominally 11890
11785	BSKSA Holy Quran Program		ARS	03.00	09.00	Ar	dom	
11785	Radio Republik Indonesia	Cimang	INS	04.00	14.00	In	dom	irregular
11785	Deutsche Welle	Kigali	RRW	05.00	05.15	Po	Af	
11785	Radio Gualaiba	Pto Aleg	B	07.00	04.00	Po	dom	drift, alt. 11794.4
11785	Radiostantsiya Mayak		RUS	07.00	14.00	Ru	dom	

Plus 11,808 frequencies of utility radio stations!

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<i>Shortwave Listening Guidebook</i> by Harry Helms. Covers equipment, antennas, propagation, station profiles, utilities, clandestines, QSL'ing, etc. 315 pages.	\$19.95 +2.00 s/h
<i>Secrets of Successful QSL'ing</i> by Gerry Dexter. The complete guide to Reception Reports and QSL collecting. Going out of print! Get it while you can. 125 pages.	\$12.95 +1.00 s/h
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<i>Language Lab</i> by Gerry Dexter et al. Guides to reception report writing. Editions available for French, Portuguese, and Indonesian. When these are gone, they're gone for good! Tiare Publications.	\$12.00 Each +1.00 s/h
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