

The **NASA** Journal

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APRIL 2001

The North American Shortwave Association

2001 William P. Eddings Award
Member of the Year

Sam Barto

*Presented this 10th day of March, 2001
at Kulpsville, Pennsylvania on the occasion
of the 14th Winter SWL Fest.*

Richard A. D'Angelo, Executive Director

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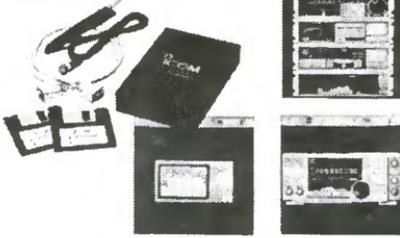
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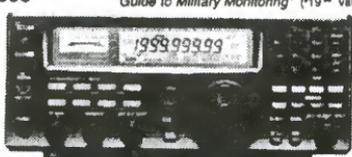
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NASWA Notes

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

This year's NASWA sponsored Winter SWL Festival in beautiful Kulpsville, PA was terrific. The celebrations began early and ended late. Thanks to **FESTmeisters Richard Cuff and John Figliozzi** for another great show and a special thank you to all the volunteers that make this event work. It really is a special time. If you have never attended a Winter SWL Festival, now would be a good time to begin making your plans for March 2002. It's only eleven months away so pencil it in on the calendar before something gets in your way later.

Congratulations to **Sam Barto** who was selected by the Executive Council as the club's member of the year for 2001. At the Winter SWL Festival banquet, it was my pleasure to announce that Sam was the recipient of the **2001 William P. Eddings Award** in recognition of over two decades of terrific service to the North American Shortwave Association. The selection of Sam Barto by the Executive Council for this honor is well deserved.

Member **Bob Padula** announces the current release of two hard-copy publications from the Electronic DX Press (Australia). The new edition of the *Australasian Shortwave Guide* (No. 11) covering the new international shortwave radio transmission period commencing on March 25, and concluding on 28 October (known as the A-01 period) is now available. *The Guide* has been published twice annually for many years, and is regarded as the most detailed and accurate listing available. It's 36 pages, A5 format, and saddle-stitched. It is available *only* as a hard-copy publication. It provides comprehensive information of English shortwave transmissions beamed to Australia and the

Pacific, and for broadcasts in all languages intended for Australia, with some 1500 entries.

For the many world radio listeners who do not have E-mail or Internet access, either by choice or circumstance, the *Australasian Shortwave Digest* (No. 5) is now available. *The Digest* brings together in hard-copy format the best articles and stories which have been distributed electronically to members of the Electronic DX Press in recent weeks. The 28-page A5 format Digest includes the following essays: Broadcasting in Vietnam, Radio Free Asia, HF Broadcasting in the 21st Century, The IBB Transmitting Station in Pals (Spain), Audience Research for HF Broadcasting, HF Digital Radio Transmission, Tuning in to "sw" Stations on the Internet, Solar Activity for 2001, Expedition to Northern Queensland, Digital Radio Mondiale, the Spanish DXing Hobby, Indonesian Shortwave Station Addresses (very comprehensive), Radio Monitoring in Vietnam and Malaysia, Internet and DXing, New and Expanded Frequency Allocations for HF Broadcasting, International Frequency Management, the History of the EDXP, the HF Coordination Conference and other goodies.

The Guide and Digest are available for A\$10 each, which includes postage to any address in Australia. Airmail to addresses outside of Australia: US\$10—international money order (or bank draft) payable at an Australian bank to yield A\$20, cash (any currency to yield A\$20), 14 IRCs. Orders should be sent to Bob Padula, 404 Mont Albert Rd, Surrey Hills, Victoria 3127. Payment may be by cash, or international money order, for credit of Bob Padula.

Our Motto is - "Unity and Friendship"

NASWA

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

Let's quickly cover some interesting hobby-related publications mentioned last month that you will want to add to the shack. *The China Shortwave Guide* is a comprehensive tabulation of data for broadcasters known to be operating in China (international and regional) and in Taiwan (excluding clandestine stations). The Guide contains over 1000 entries in frequency order, in frequency order, and is free via electronic delivery. It is an Excel 7.0 .xls file of about 400-kb, not compressed. A free copy may be requested electronically from Bob Padula at bobpadula@bigpond.com. A print version of the 20-page *China Shortwave Guide* is available in A4 format for Australia addresses, \$5.00 (cash, checks, postal orders, mint stamps) to Australian addresses; US\$5.00 (A\$10.00) (cash, 7 IRCS, international money orders in Australian currency, mint Australian stamps; no checks) airmail elsewhere in the world from: Bob Padula, 404 Mont Albert Road, Surrey Hills, Victoria 3127, Australia.

Willi Passmann's *Tropical Band List* ("TBL") is now available in a standard version, up to 7 MHz, and a new, expanded version, up to 30 MHz. Both lists are now offered as PDF documents, which are mailed as e-mail attachments. Beat the high German postal costs by ordering the standard TBL in PDF format for only US\$5.00; the expanded TBL costs only US\$7.00 (checks can only be accepted in DM, 10 and 15, respectively). Both versions of the TBL, or further information, can be obtained direct from Willi Passmann (info@radio-portal.org), Oberhausener Str.

100, D-45476 Mülheim/Ruhr, Germany. This publication is highly recommended.

Finally, *Dangerous Crossings*—the story about the first modern polar expedition of 1925, written by NASWA members John H. Bryant and Harold "Dr. dx" Cones is available at bookstores, online (www.nip.org) or direct by calling 1-800-233-8764. Published by the Naval Institute Press in Annapolis, Maryland, the book contains 232 pages, 31 illustrations, 5 maps and extended notes and bibliography and costs US\$27.95 plus shipping/handling. I found it can be ordered online from Amazon.com and Borders.com for only US\$22.36 plus shipping and handling. This is a great read!

Have a look at this month's *Shortwave Center* for a Listeners Library feature in the Journal for reviews on the last two mentioned items. However, I can tell you now both are recommended highly. Passmann's TBL is excellent and the Radio Professor's have done it again with another terrific book. Both are well worth the modest price.

Please note that the e-mail address for NASWA Headquarters in Levittown has changed to naswa@earthlink.net. All communications for NASWA Headquarters should be directed to Bill Oliver at that electronic address or to the familiar 45 Wildflower Road, Levittown, PA 19057 address.

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

FRENEX: Twenty Five Years Ago....

In the *Loudenboomer Report*, Charlie updates readers on technical terms and abbreviations. Alan Thompson was appointed to represent NASWA in Great Britain. It was hoped the cost of membership could be reduced for perspective overseas members. Myron Smith was announced as the new *Scoreboard* editor replacing Neal Perdue. In the *Shortwave Center*, Ed Shaw presents a compilation about a broadcasting analysis of Africa with 64 shortwave broadcast countries possible according to the club's list. It was reported in Glenn Hauser's *Listeners Notebook* that Eddie Startz, popular host of the *Happy Station* program over Radio Netherlands for many years, died on March 17th at the age of 77. In Bill Oliver's *QSL Report*, Jim Conrad reports a verie from Yemen and Alan Anderson QSL'd French Guiana. Sixty-five contributors verified 106 countries. In Ralph Perry's *DX Hotline* it was reported that Harris Corp signed a deal to supply Indonesia with eleven 10 kw and one 50 kw shortwave transmitters. Dan Robinson's first *Log Report Section A* column appeared in April. Sixty-six members reported to the various *Log Report* columns.

Contribute!

Send your loggings and QSL information off to our Distributing Editor, **Bob Montgomery** (Address: P O Box 1458, Levittown, PA 19058). He will forward them to the appropriate editor. Remember, Bob also distributes QSL report information and totals for the **Scoreboard** column. He can also be reached through the Internet at: RMonty3@worldnet.att.net.

Calendar Of Events

- Apr 20 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831 or Internet: dcsckp@aol.com.
- Apr 20 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 Paul Graveline at 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <http://www.anarc.org/naswa/badx/>.
- May 11 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>
- May 12 Annual General Meeting.** The **Danish Shortwave Club International** will hold its AGM at the Restaurant Grantoppen, Grandtoftestraede 11, DK-2750 Ballerup, Denmark (telephone +45 44 97 59 26 for reservations) on Saturday, May 12th. Scheduled activities include a visit to the Radio Museum of Denmark with 250 receivers on display and a lecture by Sonja Persson about her 40 years working for HCJB.
- Jul 27-29 Convention. The 2001 WTFDA Convention** will be held in Boise, Idaho at the Super 8 Motel (2772 Elder Street, Boise, ID 83704) from 27-29 July. A double room is \$62.10. When calling the motel (208-344-8871) mention Frank Aden while making your reservation in your name for the convention room rate. Convention fee is \$20.00 with the banquet at a nearby Perkins being an extra charge. Featured activities include station tours, DXpedition, TV history quiz, auction and DX seminars. Inquires can be sent to Frank Aden, 4096 Marcia Place, Boise, ID 83704 or by e-mail at WTFDA@aol.com.
- Aug 24-27 Conference.** The annual **EDXC Conference** is scheduled to be held from 24-27 August 2001 in Budapest, Hungary. All DXers, shortwave listeners, international broadcasters and other radio enthusiasts are cordially invited to attend. Additional information is available from risto.vahakainu@helsinki.fi.
- Mar 8-9, 2002 Convention.** The **15th Annual Winter SWL Festival**, sponsored by NASWA, will be held at the *Best Western—The Inn at Towamencin* (Kulpsville to the rest of us), located at Exit 31 on the Northeast Extension of the Pennsylvania Turnpike, on 8th and 9th March 2002. Richard Cuff and John Figliozzi co-chair the organizational committee. It's never too early to begin planning. See you there!

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

Musings

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

Harold O. Smith, 8604 Eastside Drive N.E., Tacoma, WA 98422

I am a recent member to NASWA. As for me, since retiring DXing seems to claim my interest, all because a medical colleague gave me a Zenith Transoceanic following his hip operation. Those were the days of professional courtesy. Later on I made a freighter trip to Europe out of Montreal having a Sony 2010 and reception was perfect.

Recently I purchased a Grundig 800 fed by an antenna in the attic. I am interested in the RF Systems Mini Window you mentioned. While reception on the Pacific Coast is much less than for you in the East, would there be any advantage in putting one in the attic as well? Thank you very much.

Yours, Harold

I have written to Harold about my experience to date with the Mini Window—positive—and sent him a copy of Alan Johnson's excellent Equipment Review column from September 2000. Any other members have something to say about this topic?—RAD

Bob Fraser, P. O. Box 174, Cohasset, MA 02025-0174

I have a couple of portable SW radios whose screens either display the time or the frequency of a station, not both. They both run off the same set of batteries.

Recently changing a set of batteries in one radio, I realize that what a nuisance it is. The frequency memories remain for a long time once the batteries are removed. One time, I had the batteries out of one set for a little over three weeks and when I finally put in a new set of batteries, the frequencies were still there. But remove the old batteries and the time immediately disappears. Why is this? Cannot some memory for the clock be installed? Even thirty seconds would be adequate for most of us. Imagine you go on a DXpedition alone carrying only the very basics including just one radio of the type described above. Then you have to replace the batteries out in the boondocks. How do you set the time? You have no other timepiece for help. Well, it does take time. One tunes to WWV (or CHU) and hears the time, then the radio is turned off to set the clock, then back on to fine tune it via WWV. After a few times, you do get the time close but it is not accurate.

What a pain.

73, Bob

Tom Sundstrom <trs@trsc.com>

The 14th Winter SWL Festival was fun, and if you were not there you missed a party. We have year 2001 photos at <http://www.trsc.com/winterfest_photos.html>, both ours and links to other Web sites. If you have a page of 'fest photos on the Web, please let me know at trs@trsc.com and we'll add a link. If you have suggestions for the 'fest pages' content, that too is welcome.

Paul Brouillette, 611 Illinois Street, Geneva, IL 60134

The two oldest of my three sons have picked up an interest in doing their own DXing/SWling after having shared with them lots of samples of shortwave programming. In order for them to make their own DX discoveries at their own pace, they needed their own radios. Now, these are young children, ages 10 and 7, and we are on a budget, so inexpensive and durable radios are needed.

In terms of durability, I can highly recommend the "modern classic" Sangean ATS-803A portable. Back when my oldest son Danny was about 7 or 8, he inherited my 803A when I upgraded my portable to a Sony 2010. I had finally put about 10 years of use on the 803A when I passed it on. Now, as many of you know, young boys are kind of hard on things! Well, the 803A has admirably survived over two years of Danny's relatively careful use combined with occasional misuse by his two younger brothers. Everything still works fine, except for the whip antenna (as you might expect—fortunately the 803A has an external antenna jack that works well even with a short length of wire). So if anyone out there is considering picking up a durable used digital portable, this one is well worth considering. In our experience, it has survived the shock test.

Last November, my second oldest son, Kevin, had his 7th birthday and wanted a radio of his own also. He was more comfortable with analog tuning. While there are a few inexpensive analog sets still available, my past experiences had shown them to be of very poor quality. So it was with some skepticism that I decided to purchase him a DX-397 from the local Radio Shack store. My skepticism turned out to be unwarranted. This little analog-tuned set actually works quite well, and is priced (on sale anyway) at under \$50. While this musing does not pretend to be a complete review, there are a few points worth mentioning that set this radio apart from popular view of cheap analog sets.

The DX-397 tunes MW, FM and ten shortwave bands covering 4.5 to 22.1 MHz. There are gaps in coverage between each of the ten bands, but it covers all the major broadcast bands from 60 through 13 meters. The 60-meter band is not too useful, however. Signals there are weak and therefore difficult to receive on any portable, and this set, like all inexpensive single-conversion analog sets, suffers strong images from 49 meters in the 60-meter range. But, for listening to the major broadcasters on the higher bands, the radio performs quite well. Sensitivity is surprisingly excellent with just a short (only 30 inches) internal whip antenna, so that even stations without a blockbuster signal can be received without much difficulty. Selectivity is fair but sufficient. Audio is only fair via the small internal speaker, but actually very pleasant through a pair of headphones (which are not supplied with the set). Tuning requires some patience because the stations are a bit crowded onto the dial, as expected for this kind of design. But, once a station is tuned in, the set has good enough mechanical and electrical stability that it stays tuned.

The set is constructed compactly (6.5 x 3.5 x 1.25 inches) and is reasonably lightweight (13 ounces with 3 AA batteries). Construction quality seems good, but the whip antenna does not rotate and is rather thin and so could break easily. Also, the radio uses a 12-position sliding bandswitch that has a rather "uncertain" feel to it, and possibly may wear out quickly, but is still OK after a few months use.

The Sangean SG-622, shown on page 20 of Universal Radio's latest catalog, appears to be identical to the DX-397 and is priced at only \$42.95. In my opinion, this radio represents a good value for someone wanting to get a younger child interested in SWling or as an "expendable" but still reasonable performing travel portable for anyone.

Now I'm waiting for the radio bug to bite Robert, my littlest guy....

Ed Sylvester, NI6S <Aidehua@aol.com>, Los Angeles, CA

My name is Ed Sylvester and I have subscribed to NASWA for the past three years. I lived the transient life of a Naval officer in recent years, but am finally settling down and setting up my "dream" listening post.

I was looking forward to taking part in the North American DX Championships, but recently learned of its demise. I hope this is a temporary situation since I'll be very enthusiastic about this next year.

I've been a SWL since 1976 and feel I can score major points in the contest. Please don't be discouraged. I will help you advertise it next year!

73 de Ed, NI6S

Guy Dunn <DunnArmE8@aol.com>, 95 East 4th St., Clifton, NJ 07011-1054

At about 11:30 PM East Coast time I received a telephone call from Radio Japan. The announcer wanted an interview. Was I shocked to say the least? I do send them reception reports from time to time and do thank them for cards and notes they send me. My first QSL to NHK was back in 1972.

They know I am Retired US Army and that sparked the phone call. He wanted to know my opinions on current events such as the Sub incident and other worldwide situations. He asked me if I thought that the Armed forces today differed from the Armed Forces of my time also.

I was honored that they did call. The Interview will be aired over NHK on the 24 of March on a segment of the program called "Hello Tokyo" I think it is called.

Regards, Guy

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

The 14th annual Winter SWL Festival, sponsored by your club, was another smashing success. It was good to see so many familiar faces and to meet some new folks as well. Our hosts, Messrs. Cuff and Figliozzi, did an excellent job once again. They assembled an superb cast of volunteers to help make the event take off. It was great! A special thank you is in order for Fred Kohlbrenner and Ed Mauger who did the usual yeoman chores manning the club table during the weekend. Special thanks to George Zeller who successfully pinch-hit for Dr. DX during Saturday evenings festivities. Thank you to all the club's that participated, all the fine folks that attended, all the presenters, and especially the nice NASWA folks that kept the hospitality room the "place to be"—Marie Lamb, Maryanne Kehoe and Mike Wolfson.

Highlights included the announcement of Sam Barto as the club's Member of the Year (William P. Eddings Award), Marie Lamb as the ANARC recipient of the Don Jensen Service Award, a stellar program and many new faces. Of course, no Winter SWL Festival would be complete without the infamous midnight ride of the 'Fest fabled pirate Pancho Villa. Nevertheless, the biggest highlight for Bill Oliver and I was all the money Fred and Ed took in for the club while manning the NASWA table, hi!

73—RAD

Easy Listening

Richard D. Cuff • 327 Springhouse Road, Apt. 102 • Allentown, PA 18104 • rd cuff@sprintmail.com

That was the 'Fest that was

It was great to meet many NASWANS at the 14th annual Winter SWL Festival! I truly wish I had more time to visit with everyone at the 'Fest; unfortunately, the 'Fest itself seems to streak by so quickly it's over almost as soon as it began. Most people I've spoken with had a good time in Kulpsville, and I hope more can participate next year. Judging by the enthusiasm of both the broadcasters and listeners, shortwave listening and broadcasting both have plenty of useful years ahead. Joe Buch's demonstration of digital shortwave audio quality from the **Digital Radio Mondiale** tests also added enthusiasm for the potential for continued efficiency of shortwave as a means for international broadcasters to distribute their programming. If you have E-mail access, we keep the 'Fest E-mail discussion group open all year for general conversation, reminiscing, and planning for the 15th Fest. To participate in the list, send a blank E-mail message to swlfest-subscribe@topica.com.

Swiss Radio International to exit shortwave

Unfortunately not all the news from this past month was positive. **Swiss Radio International** announced they would be gradually phasing out shortwave broadcasting over the next 21 months, through the end of 2002. Of immediate concern to us in North America is the loss of the French Guiana-based relay providing near-armchair-quality audio in the evenings. We are reduced to listening to Swiss Radio International (SRI) via their direct transmitters; good, but not great.

Clearly SRI's English language service has suffered in recent years. When I first got back into shortwave listening in the mid-

'80s, SRI served two roles: First, it was the voice of Swiss culture, with many broadcasts punctuated by snippets of Swiss folk music, and with a decent DX/SWL program, **Swiss Shortwave Merry-go-Round**. SRI's second role was as a voice for refugees: since Switzerland was (and is) the home of the International Committee of the Red Cross, SRI emphasized news from regions where human rights were under siege, from South Africa to the Kurds to the Balkans.

Later, SRI switched its emphasis to satellite distribution as European shortwave listening fell off. We in North America, though, were lucky enough to have a full hour of SRI programming as the French Guiana relay featured cultural programming (**Rendezvous with Switzerland**) in the half hour following the news and current events program. As far as I was concerned, this second half hour was more interesting than the half hour of news and current affairs, because there were several other good sources for European current affairs. SRI's offering was good, but not unique—but its cultural program emphasized the uniqueness of Swiss culture and domestic life. Approximately two or three years ago, though, this second half hour was eliminated, and most of SRI's uniqueness seemed to be eliminated as well. Recent years have also seen an apparent lack of interest in constructive listener feedback, as SRI seemed intent on withering away even when listeners proposed changes in content to help make programming more interesting.

Switzerland has chosen to emphasize Internet content as the primary means of telling the world about Switzerland. Its website, www.swissinfo.org, emphasizes text more so than audio, though its daily English program is available for on-demand download. For those who are already motivated to find out information

about Switzerland, the site isn't half bad. However, the Internet doesn't lend itself to bandscanning as readily as the radio, so people are less likely to stumble across SRI as they're browsing for news. I think the decision is shortsighted and wrongheaded; while I am an enthusiastic supporter of the Internet as a tool for broadcasters to reach listeners, its role is *complementary* to the capability of shortwave to reach an audience; the Internet can't yet replace shortwave, especially in the majority of countries where Internet access, even if feasible, is more expensive due to higher telephone costs.

Seasonal programming changes

The semiannual shuffle of frequencies and program lineups has recently come and gone, and here's a summary of programming changes from the major broadcasters:

Radio Canada International

RCI tweaked its schedule in several ways with the change in seasons; Joe Buch, who closely follows CBC and RCI activities, summarized the changes as follows:

The biggest downside change is that *Basic Black*, one of the most entertaining programs on CBC Radio, has been dropped from RCI. Hopefully it will still be available on Saturday morning on CBC North Quebec on 9625 kHz. It appears RCI has substituted *Vinyl Cafe* at 1405-1459 on 9640, 15305 and 17800. Just to make things more difficult for the regular listener, the 16 meter band frequency is different on weekends from Monday-Friday.

Also, another popular program, *Tapestry*, continues to only be available in Southeast Asia but now via the relay transmitter in Xian China Monday UTC 0000-0057 instead of Yamata Japan on UTC Monday at 1200 UTC.

The Asian beam of *Quirks and Quarks*, the CBC's excellent science and technology program, is now on Sunday 1200-1259 via Yamata Japan. It was on Mondays.

Quirks and Quarks is once again carried on Saturday morning to the USA and Caribbean from 1505 to 1559 UTC. The program continues to be aired on Saturday evening at 2305-2359 to the USA.

Also, while we tend not to dwell heavily on frequencies in this column, it appears the longstanding USA evening frequency of 5960 kHz has been dropped.

Netherlands

Howard Shannon reports the following seasonal programming changes for **Radio Netherlands**:

David Swatling's *Aural Tapestry* will return for another season (replacing the current series of *Sound Fountain*). *Aural Tapestry* will air each Sunday with a repeat the following Saturday, with its first edition on Sunday, April 1st (Monday UTC in North America).

The name of Radio Netherlands' archive program is changed from *Encore* to *Base-ment Sessions* and continues to air Thursday evenings (UTC Fridays). The program now has a permanent host, Hans Mantel.

Germany

Margot Forbes reports that **Deutsche Welle** programming will remain in its current timeslots, but the sports program is being renamed from *Spotlight on Sport* to *Hard To Beat-The World Of Sport*.

Sweden

The evening relays of **Radio Sweden** to North America via RCI have been expanded to 0230 and 0330 UTC, but Nidia Hagstrom reports there will be no changes in the Radio Sweden program lineup.

Australia

The only change among regular programs noted from the schedules published in the February and March *Journal*: 0400 weekdays—Margaret Throsby (interviews/music) returns to the schedule. Nighttime (USA perspective) audio from Radio Australia should improve as we move into spring and summer.

There is one very interesting new series from the ABC: *On the Record—Media and Political change* is a seven-part radio series and website exploring some of the momentous social transformations in Southeast Asia through the voices of those working in the media. The series will explore the views of leading academics and commentators. The series is co-produced by Radio Australia and Government and International Relations at the University of Sydney. The series premiered the weekend of the Fest in mid-March, but will continue through April. Shortwave airings include Saturdays 0030, 0330 and 2230, along with Sundays 2130. Even if you've missed the early weeks, the program is archived on the Web for on-demand listening. This series is presented by Peter Mares, who also

hosts most editions of *Asia Pacific*, Radio Australia's daily regional news program. *On The Record* continues the trend of a parallel website offering extensive background supporting the audio program, as well as archived audio from episodes that have already aired.

United Kingdom

The **BBC World Service** schedule for the Americas appears to follow the pattern established last fall: local mornings generally remain the same (except for the regionally focused *World Update* and *Europe Today*), and local evenings shift back one hour. The following should help you find your way around the schedule, first on weekdays:

Winter Time	Summer Time	Program
0000	2300	<i>Outlook / World Insight</i> (religion / various)
0100	0000	<i>Meridian / Popular Music</i>
0200	0100	<i>World Insight</i> (science / features)
0300	0200	<i>World Today</i> (20-30 minutes) / <i>Business / Analysis / FIOC</i> (Wednesdays)
0400	0300	<i>Music / Religion</i>
0500	0400	<i>World Today</i>
1000	0900	<i>World Update</i>
1200	1200	<i>Newshour</i>
1300	1300	<i>Outlook, Off The Shelf</i>
1400	1400	<i>Meridian</i>
1500	1500	<i>World Insight</i> (science / sport)
1700	1600	<i>Europe Today</i> / business / sport
2300	2200	<i>World Today</i>

On UTC Saturdays, you can expect the following:

Winter Time	Summer Time	Program
1200	1200	<i>Newshour</i>
1300	1300	<i>Global Business / People and Politics</i>
1400-1700	1400-1700	<i>Sportsworld</i>
2230	2230	<i>From Our Own Correspondent</i>
2330 Saturday	0030 Sunday	<i>Arts In Action</i>
0000 Sunday	2300 Saturday	<i>Play of the Week</i>

On UTC Sundays, here are the key changes:

Winter Time	Summer Time	Program
0130	0130	<i>Religion / Letter From America</i>
0230	0230	<i>From Our Own Correspondent</i>
1030	1030	<i>Agenda</i>

1200	1200	NewsHour
1300	1300	Jazzmatazz / In Praise of God
1400	1400	Talking Point
1600	1500	Classical Music (Concert Hall)
New	1600	Sunday Sportsworld
2200	2200	World Today / Agenda
2300	2300	World Today / Greenfield Collection
0000-0200 Mon	0000-0100 Mon	World Briefing / World Today
0200 Monday	0100 Monday	Wright Round The World
0330 Monday	0230 Monday	Assignment
0430 Monday	0330 Monday	Westway Omnibus

Radio Netherlands—Upcoming Documentaries

Selected highlights from **Radio Netherlands' Documentary Feature:**

Thursday/Friday, April 19th/20th: **The North Sea Fisheries**—The European Union recently agreed on a ban on cod fishing in certain sectors of the North Sea. The Dutch claim they are hardest hit as the banned areas cover most of their coastline, but thousands of fishermen from a half a dozen countries have been affected. While most fishermen say the ban is unfair, scientists say it's long overdue. Stocks of most fish, including herring and sole are low and the cod stocks are in crisis. Michele Ernsting looks at the problems of conservation connected to a common resource and asks why the European fisheries policy introduced in the 1970's has failed so dramatically.

Thursday/Friday, April 26th/27th: **Chernobyl, 15 Years Later**—In the early hours of April 26, 1986, the largest radiation accident ever involving a nuclear reactor erupted in the Ukraine, unleashing 200 times as much radioactivity as the atomic bombs dropped on Hiroshima and Nagasaki combined. About 30 people died within the first weeks. Some 3 million people living in the Ukraine, Belarus and other parts of Russia were exposed. Now, 15 years later, several major health research projects are drawing to a close. Liesbeth de Bakker examines to impact on health to people in the region and asks what scientific and human lessons have been learned.

Thursday/Friday, May 3rd/4th: Martha Hawley begins a two-week series focusing on Egypt, with **Egypt: Dry Winds**.

BBC World Service—April Highlights

Tuesdays, 0105, and Wednesdays, 1505, beginning April 3rd—**International Check-Up** returns in **Health Matters** for a new six-part series of listener questions on health issues. Barbara Myers (remember her from **Outlook?**) hosts; phone questions to +44-20-7240-7975, E-mail internationalcheckup@bbc.co.uk or postal mail to Room 630, Bush House.

Fridays, 0130, and Mondays, 1530, beginning April 27th—BBC is soliciting listener input to help produce a new 10-part, 13-week series of programs called **True Lives** in the **People and Places** program block. What do you think are the most important issues affecting your life in the new century? Racism? Pollution? Religious persecution? The producer, Jenny Waters, wants to know. She can be E-mailed at jenny.waters@bbc.co.uk or contacted via postal mail at Room 607SE, Bush House. No direct fax number was given, but you could probably use the Audience Relations fax at +44-20-7557-1258.

That's all the room we have; until next month, 73 DE Richard 

Shortwave Center

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Shortwave Center Views

By Jerry A. Lineback, Editor

I have not taken the opportunity to rant and rave to the reader in a while, so thought I would take the space this month to comment on the late and unlamented so-called DX season and other things. I don't know how things were at your QTH this past winter, but here things were pretty slow. Amateur Radio propagation pundits have noted that, after the peak of the current solar cycle was reached in the summer of 2000, the sun has been relatively quiet, even though solar flux and sunspot numbers have continued to be high.

What I have noted in regards to the 1100-1300 UT path to SE Asia that I monitor nearly every day is that the really good days correspond to the monthly solar flux peak and the rest of the time conditions are generally poor. Geomagnetic storm activity has been minimal in the post-cycle-peak period and this has resulted the generally unexciting propagation conditions between monthly peaks. Solar flux is still high enough to keep the 10 and 15 meter amateur bands open during the day and conditions have generally been good for 10 meter daytime DX this winter. But these bands shut down after the terminator passes. At times, even 20 meters has dropped out a couple of hours after sunset.

There were very few days where reception of AIR stations were noted beyond 4920, 4860, 4760, and 3365 and no really good Indian DX days such as I have noted in previous years. I did demonstrate this year that morning reception of Leh and Delhi was best on the NE Beverage prior to spring equinox. After equinox, the best reception changed to the NW Beverage.

The Vatican is in trouble with the Italian government over its shortwave transmitter site, which is located on Italian territory outside Rome. It seems that over the years since the Vatican established its antenna farm, Italian entrepreneurs have placed housing developments nearby and nearly 100,000 people live in an area where stray RF may exceed Italian safety limits. Local residents are annoyed that they can hear Vatican Radio broadcasts on a variety of home appliances not designed for radio reception. Computers and telephones are probably affected. The Vatican claims diplomatic immunity by treaty. How this will be resolved remains to be seen, but such a fate may befall other transmitter sites around the world as burgeoning billions of people crowd each other for living space.

My stupid computer seems to be infested with some kind of worm that fills up the memory and makes it difficult to work with. It was a piece of junk to begin with, though.

I currently have a back-log of material for SWC, but don't let that deter you from preparing an article. We do need a steady supply of timely, current, and interesting feature articles related to shortwave radio broadcasting coming in. Otherwise, I draw on the file, some of which is rather dated, but still interesting. Thanks to those who have contributed this month and in all months.

Please note that, due to space restrictions in the Journal, from time to time material from other columns may find its way into SWC and vice versa. We have some book reviews this month.

Passport to World Band Radio—2001

By International Broadcasting Services,
Ltd.

ISBN 0-914941-51-8

592 pages

\$19.95

Available from various outlets

Reviewed by Alan Johnson

Passport to World Band Radio (PWBR) has become the premier publication for SWLs, replacing the World Radio TV Handbook in utility to the active DXer, in my opinion. The 2001 edition continues the standards for accuracy and thoroughness established by the publisher, Larry Magne. This edition has feature articles on broadcasting in Bhutan, the top ten shows for 2001 and several for the beginner on how to get started listening to world band broadcasts. In the receiver review section, there are articles on listening to shortwave in the car (featuring the Sony XR-C5600X) and AM/FM mini-transmitters for retransmitting SW signals around the home and yard.

The equipment review sections cover portables, computer radios and tabletop receivers. Highlighted in this edition are reviews of active antennas and professional receivers, including extensive reviews of the BAE Systems (ex-Watkins-Johnson) 8711A and

the TenTec RX340. I have a slight concern about a possible conflict of interest, as the receiver bench testing is done by Sherwood Engineering, which also produces the SE-3 synchronous detector, which is heavily promoted in the reviews as a way to overcome deficiencies in the review receivers. In defense of Sherwood Engineering and the Passport staff, the SE-3 is an outstanding receiver accessory and the receivers are also reviewed by various listeners using the equipment under real-life conditions "in the field".

Continued from previous editions are the hour-by-hour program guides, station addresses plus other useful info for QSLing, and broadcasts in English arranged by country. The feature that is probably of most value to DXers is the "Blue Pages" (now blue type on white glossy pages), a listing by frequency of known SW stations and the times and languages of their broadcast. This very useful feature is a great help in identifying stations.

For me, Passport is a required annual buy, both for the equipment reviews and the Blue Pages and is well worth the price, especially if one takes advantage of the pre-publication special offers provided by shortwave suppliers.

Tropical Band List Expanded Edition PDF Version

Edited by Willi H. Passmann

Reviewed by Richard A. D'Angelo

In just a few short years, the Tropical Band Survey (TBL) produced by DXer Willi Passmann in Germany has become one of the top DX resources around. It is a comprehensive listing of domestic and clandestine broadcasters operating on frequencies below 7 MHz. Now, a very good publication has just gotten better. The TBL has been expanded and, thanks to the use of technology, a lot cheaper to obtain. Yes, it is possible to make a good thing even better.

Earlier this year, I received some very exciting news from Willi Passmann about the latest version of his excellent TBL. The latest edition was now available in new versions and formats. The traditional "standard" version continues to list Home Service and Clandestine stations up to 7 MHz. However, a new, "expanded" version was now being offered covering Home Service and Clandestine stations in the entire shortwave spectrum up to 30 MHz. In addition, both the standard version (up to 7 MHz) and the expanded version (up to 30 MHz) lists are now offered as PDF documents, which are mailed as e-mail attachments. The introduc-

tion of the PDF format technology results in a much lower unit prices of either version of the TBL since the high-cost German postal system is eliminated from the distribution process.

The TBL is issued in two parts. Part A is sorted by frequency and within frequency by continents and within continents by countries in alphabetical order. Part A is divided into two sections. The first section, called The Frequency List, contains all current active stations within the frequency range of the publication; up to 7 MHz in the standard edition and up to 30 MHz in the expanded edition. My PDF copy was 34 pages long containing almost 2,500 entries. The first column, Code, provides information as to how well the station is heard worldwide and in Europe. The second column, QRG, provides the frequency in kHz. Column three, PWR, gives transmitter power in kW. The fourth column, ITU, provides the ITU country code. For clandestine stations the target country is used. Column five provides the station name and location. Column six and seven, SR and SS, provide the sunrise and sunset times of all known transmitter locations in the month the TBL was printed (more on that a little later). Finally, the last column, Notes and UTC, provides other interesting and useful information such as operating schedule, services, etc.

The second section of Part A of the TBL is the Inactive Station List. All the same type of information in column form contained in The Frequency List is contained in this section. The section contains ten pages, over 600 entries, of domestic and clandestine broadcasters no longer operating on shortwave. This section can be extremely valuable when a station from "long ago" returns to the bands.

Part B of the TBL is sorted by countries and within countries by frequency and within frequencies by output power in declining order so that the strongest station will always be listed on top. Part B takes all the useful information displayed in section one but rearranges it into country list format. Again, the ITU country code symbols are used but that should not be a problem for any of

our members. This 31-page section is extremely valuable if you find there is a good opening to Peru and you want to quickly check for other Peruvian broadcasters. Just thumb through the this section until you reach PRU. There you will find about 125 domestic broadcast stations in frequency order for you to chase. This is another one of those extremely useful features that I find very handy while on a DXpedition patrolling the bands for openings. Once an opening to a particular region is discovered, such as Bolivia or Indonesia, you quickly page to this section and begin chasing other stations conveniently listed in the TBL by frequency. A very useful feature in any critical listening situation.

The TBL is probably the only DX publication in the world bringing shortwave listeners up-to-the minute information on a monthly basis. Willi Passmann can customize your order. You can order it monthly or use his easy four editions in 3-month intervals package. However, the best part about any TBL product is it is hot off the press when you order it. That's right, the data base is constantly being updated so when you place an order for either version of the TBL you are getting what the computer has currently stored in memory. That makes the TBL the freshest DX reference source around.

The standard TBL in PDF format costs just US\$5.00; the expanded TBL costs only US\$7.00 (checks can only be accepted in DM, 10 and 15, respectively). The standard TBL in print format costs US\$20.00; the expanded TBL in print format costs US\$25.00 (checks can only be accepted in DM, 35 and 40, respectively). Either version in either format of the TBL, or further information in general, can be obtained direct from Willi Passmann (), Oberhausener Str. 100, D-45476 Mülheim/Ruhr, Germany. This publication is highly regarded throughout the hobby community for its accuracy, timeliness and attention to detail. A must for any DXers shack!

The standard and expanded versions of the Tropical Band Listing in PDF format is a very useful and reliable DXing resource that should be in the shack of every active shortwave monitor. For those without the capability to

benefit from the PDF format, the print version works too although it costs considerably more due to the postage costs experi-

enced in Germany. Nevertheless, the TBL in any form is a highly recommended hobby resource!!

Dangerous Crossings: The First Modern Polar Expedition 1925

By John H. Bryant and Harold N. Cones
ISBN 1-55750-187-4
Naval Institute Press
Reviewed by Richard A. D'Angelo

Our good friends the Radio Professors have done it again. You may recall that these two gents teamed up previously in 1994 with their first book, *The Zenith Trans-Oceanic: The Royalty of Radios*. Their second effort followed in 1997, *Zenith Radio: The Early Years, 1919-1935*. Now these two popular radio enthusiasts and authors have turned their attention to following the exploits of Donald B. MacMillan and Eugene F. McDonald as radio brings polar expeditions a new dimension. McDonald was the man responsible for Zenith Radio Corporation's prominence in the radio industry. *Dangerous Crossings: The First Modern Polar Expedition 1925* By John H. Bryant and Harold N. Cones is a well written, 200+ page book that is laid out in six chapters with an Afterward, four appendices, Notes, a Bibliography and an Index.

Chapter One, Early Arctic Exploration, begins by recapping the early days of expeditions to reach the North Pole. It discusses the exploits of the early explorers and introduces us to Messrs. MacMillan, who made his first trip north with Robert Peary in 1908, and McDonald, who first met MacMillan in 1923. The success of shortwave radio, which is today's medium wave band, opened vast communications possible for the first time.

Chapter Two, Planning the First Modern Expedition, provides the dramatic backdrop to the "1925 MacMillan Arctic Expedition, under the auspices of the National Geographic Society." This was to be the first modern geographic expedition because of its effective use of aircraft. Prior expeditions were cut off from communications with the

outside world for long periods but the MacMillan expedition used the new science of shortwave radio to maintain almost constant two-way radio contact with most of the world. The success radio played in the expedition played a significant role in the adoption of shortwave radio for long-distance communication by military, governmental and commercial interests throughout the world.

Chapter Three, The Expedition Sails North, tracks the expedition as it makes its way from Wiscasset, Massachusetts to Battle Harbor and Hopedale, Labrador on its way to Etah, Greenland. The value of shortwave radio was first proven during a July 1925 stopover in Godhavn, Greenland. MacMillan needed permission from the Danish government to obtain much needed coal and shortwave communications with the US was possible in daylight to secure the necessary approvals. The old standard, longwave, would not have been possible for many weeks because of the all daylight summer conditions. The author's noted that if the expedition itself failed, the value of shortwave radio was solidified in a real life emergency situation.

Chapter Four, Etah at Last, describes the expedition adventures at Greenland's northern most outpost. Included is the dramatic accounting of the first over-fly of the ice cap of Greenland. On the radio front, one of the operators spent more time working amateur station contacts seeking QSLs then passing along vital communications to Zenith, the National Geographic Society and other US based associates. This led to the demotion and a change in radio room operations.

Chapter Five, Southbound for Home, recounts the perilous return voyage back to Wiscasset. Numerous near disastrous situations are described in detail as the crews of

the Peary and Bowdoin battled ice, wind and whatever Mother Nature tossed in their path during the return leg of the mission. The use of their two-way radio communications contact with each other and the world was invaluable. The return trip home was also noted for a number of excellent broadcasts of Eskimo music during stops along the Greenland coast. Once again the value and utility of operating on shortwave, instead of the longwave standard of the 1920's, was evident with transmissions heard in Australia and New Zealand.

Chapter Six, The Importance of the MacMillian Expedition, marked the first significant use of radio communication by a polar expedition, significantly influenced the history of long distance communication and marked the first successful use of aviation for polar expeditions.

The Afterward contains interesting insights into the key men of the 1925 MacMillian Polar Expedition based on the author's research. This section helps explain the historical omission of McDondald/Zenith role impacting long distance radio communications.

One of the brave aviation pilots, who received a commendation from the Secretary of the Navy for his work on the MacMillian Arctic Expedition, was Floyd Bennett. Later he was the pilot for Commander Byrd on the first flight recognized to reach the North Pole. He died of pneumonia prior to departing with Byrd for the Antarctic. I grew up just minutes from an airfield named after him without ever knowing why the name

was important. Thanks to *Dangerous Crossings* I do now!

Dangerous Crossings: The First Modern Polar Expedition 1925 By John H. Bryant and Harold N. Cones is a 232 page, hardbound book, which includes 31 photographs, 5 maps and extensive notes appendices, bibliography and index. It is available direct from the publisher (Naval Institute Press, 291 Wood Road, Annapolis, MD 21402-5034) for us\$27.95 plus us\$4.00 shipping and handling in the United States and us\$6.00 elsewhere. Also, orders may be placed by telephone (1-800-233-8764) or FAX (1-410-224-3378) or through the publishers' website <<http://www.nip.org>>. Orders can be charged to VISA, MasterCard, AMEX, or Discover cards. The book is available via other Internet booksellers where price competition could lead to bargains, e.g. <<http://www.amazon.com>>, and <<http://www.barnesandnoble.com>>, and <<http://www.waterstones.com>>. I checked the Amazon and Borders websites where *Dangerous Crossings* can be found for only us\$22.36.

Dangerous Crossings combines the excitement of polar expeditions with the new communications medium of shortwave radio. It is a radio-related book that should be in every listener's library. When it is time to sit down to read a book, this one should be at the top of the list. Anyone with an interest in early shortwave radio communications, polar expeditions or history will find this terrific reading. This book is another one of those that fall into the category of a "must read" for every radio enthusiast.

ITU Clears the Way to Digital AM Radio

By A. Magenta, RAI via ITU and the 02/01 bulletin of the Worldwide DX Club, Germany.

Geneva—A new wave of broadcasting is about to reach the marketplace with the recent adoption, by the International Telecommunication Union (ITU) of worldwide standards for digital sound broadcasting. The technological breakthrough promises to

open up a new era of quality sound broadcasting for long, medium, and shortwave transmissions. With the FM bands nearly congested and the poor quality of AM, digital AM radio offers many substantial advantages to broadcasters seeking to recapture market shares. For consumers, the decision means additional sources of programs at FM like quality with low-cost simple to use receivers.

Because the same frequency bands based on the same allocation of channels will be used and the handsets will continue to be available in the same range of choices (fixed, portable, and mobile), the change-over to the new system will be completely transparent. What will be noticeable, however, will be the improved quality with crystal clear reception, the more diverse program content as a result of the increase of broadcasters that will be able to be accommodated in the existing AM bands as well as richer content that the new digital features will offer.

"It is a breath of fresh air" said Peter Senger, Chairman of Digital Radio Mondiale (DRM). "This landmark decision will bring affordable digital quality sound and services to the world radio markets that will surpass listeners' expectations and will revive the broadcasting market in areas whose development was stagnating" adding "This is the biggest advancement in broadcasting since the invention of the transistor."

Robert Struble, president and CEO of iBiquity Digital Corp. hailed the decision as a significant milestone on the road towards a global standard for AM digital broadcasting. "Digital broadcasting offers the potential for new and improved services to AM radio listeners who will greatly benefit from the existence of a worldwide standard for the transmission and reception of digital signals," he said.

For manufacturers, it brings a second lease of life to older AM technologies with increased market potential for transmitters and receivers. It also makes it possible to optimize the return on investment for dual technology components for low data rate systems applied to narrow-band transmission channels. Considering that there are potentially some 2.5 billion radio receivers that ultimately be candidates for replacement, of which some 700 million are for shortwave reception, combined with an estimated 1000 transmitters worldwide, the benefit for equipment and semiconductor manufacturers is clear.

For broadcasters, the new technology means that they will be able to bring FM quality to AM bands at substantially lower costs. Be-

cause the new technology is accommodating existing frequency plans, they will be able to modify and continue to use their existing transmitters provided they are fairly modern. Digital AM will also be much more spectrum-efficient, making it possible to reduce the power of transmitters by as much as 25% while maintaining the same coverage area. Broadcasters will also be able to transmit programs in two languages, a plus in bilingual countries or in border zones between countries that use different languages.

Better audio quality and value-added services for listeners (data, text, or still images) will also translate into increased audience interest and increased advertising revenue as a result and new business opportunities. This integration of audio and wireless data transmission will enable a variety of consumer applications, such as station and program content, local traffic and weather information, news, and much more. Because the digital signal is more reliable and robust, it can be nearly interference-free. Receivers will tune to the best possible reception quality of a given station, based on the strength of the signal and the AFS (Automatic Frequency Switching) system, within any of the long, medium, or shortwave bands.

Digital AM Radio is expected to reach mass market by 2003. In the transition period, transmitters and receivers will handle both digital and analog signals, thus enabling broadcasters who have large operations in the AM band to opt for simulcast to continue serving their customers while building a new market. Manufacturers are expected to provide the market with multistandard receivers to enable the simultaneous reception of analog AM and FM as well as digital AM stations. In vacant AM channels, broadcasters will be able to launch full digital AM as the receivers will recognize both analog and digital signals.

The approval of a worldwide standard could give the possibility to achieve economies of scale in the production and deployment of transmitters and receivers with potentially lower costs to consumers while giving broadcasters the flexibility to migrate to digital AM radio according to market demand. 

Adrian Peterson's Diary

Dr. Adrian M. Peterson • Box 29235 • Indianapolis, IN 46229

BBC Malaysia

Back in the year 1976, I took a two week vacation in Singapore to spend time with my schoolboy son who was attending an academy located on the edge of the populated areas. Quite early one Sunday morning, we took a bus and a taxi out from suburban Singapore along the well paved highway that runs north across the island.

At the border check post, our travel documents were examined briefly and we walked across the wooden causeway that leads to the Malaysian city of Johore Bahru. Surprisingly, there was no second check of our documents on the Malay side, so we continued our walk into the center of the first town on the Malay peninsula. Here it was that we caught another taxi and asked the driver to take us to the BBC relay station out in the nearby countryside at Tebrau.

The modern Japanese taxi whisked us quickly through the lush, verdant Malaysian countryside with its palm trees, green fields, and plantations of rubber trees. We soon found ourselves at the huge radio station, with its mass of tall antennas, miles of long, long feed lines, and an immaculate white building surrounded by green lawns and tropical gardens.

The BBC relay station located at Tebrau, out from the city of Johore Bahru, was constructed on a huge, rolling estate of several hundred acres in the year 1953. The original transmitters were six in number; four new units at 7.5 kw. and two 100 kw. units transferred from the old BFBS base at Jurong on Singapore island.

In the early 1960s, a modernization plan was implemented at Tebrau. The low powered 7.5 kw. units were removed and six more transmitters were installed, making a

total of six at 100 kw. and four at 250 kw.

When the lease at Tebrau expired, the Malaysian authorities gave approval for the BBC to continue on air until a new station was erected at Kranji on the northern edge of the island of Singapore. The final broadcast from the BBC Tebrau took place on March 18, 1979, and the two BBC relay stations located at Kranji on Singapore and at Masirah in Oman took over.

At the height of its power, BBC Tebrau was on the air with a total output of 1.6 megawatts, using 10 transmitters and a bevy of more than 20 curtain antennas. The long, long feed lines exited the transmitter building and ran down into the valley and across the green fields for more than a quarter mile, the longest known feed lines in the history of shortwave broadcasting.

At the end of our guided tour, my son and I marvelled at the magnitude of this electronic wonder, and we knew that this, our first visit, would be the last time we would see the station this way. A total of eight transmitters from Tebrau were re-installed at the new BBC base at Kranji on Singapore, and they are still in active service today as a BBC relay into all areas of Asia.

And what happened to the BBC Tebrau after it was closed? The two old transmitters of 100 kw. were abandoned, the antennas removed, and the building swept clean. The huge estate of several hundred acres is now a plantation area again, with very little to remind anyone of its one time grandeur as a powerful shortwave relay station. The AWR Historic Collection contains two dozen BBC QSL cards verifying the reception of transmissions from the BBC Far Eastern Relay Station, the station that once was BBC Tebrau.

What Happened to them Afterwards? Swiss Radio at Lenk

Switzerland is a delightful tourist country, with high snow covered mountains, huge valleys with rapid streams flowing through them, and picturesque, clean villages. This country is a photographer's delight, with beautiful flowers growing profusely, contented cows grazing on deep green pastures, and pretty girls dressed in colorful folk costumes.

Switzerland is noted also for its long time neutrality during times of nearby warfare, for its humanitarian aid with the International Red Cross, and for its locale as the scene for the League of Nations and the United Nations. Swiss watches have become famous worldwide, as is also the delightful quality of their folk music.

On the international radio scene, Switzerland is also held in very high regard for the quality and the reliability of their shortwave broadcasts. Millions of people throughout the world have become familiar with the beautiful music box rendition of their tuning signal.

The story of radio in Switzerland goes back to the early wireless days, and it is linked with the watchmaking industry. Before the advent of wireless and the telephone, the only way that country clockmakers could get an accurate time was to travel with a clock to the capital city and check it against a reliable public clock. When the clockmaker returned home, then he could share the accurate time setting with other clockmakers in nearby areas.

When spark wireless stations were established in several countries of Europe, it was no longer necessary for the clockmaker to travel in order to obtain accurate time. He could simply tune in to a wireless station on his wireless receiver. In the year 1911, Swiss watchmakers began making wireless receivers that could tune in to the time signals from station FL on the Eiffel Tower in Paris.

The first official radio broadcasting station in Switzerland was inaugurated on August 22, 1922 under the callsign HB2. This station was located in Lausanne and its programming consisted mainly of weather reports and locally produced Swiss folk music.

On shortwave, the first station was located at Schwarzenburg. It was constructed in the year 1939, and before it became fully operational it was mysteriously burned down. However, it was quickly rebuilt.

The next location in Switzerland for a shortwave transmitter was Beromunster, followed by Sottens, Lenk and Sarnen. The transmitter base at Lenk was located near the common Swiss borders with France and Italy.

The station at Lenk became operational in 1974, and, at full capacity, it was on the air with two BBC transmitters at 250 kw. This station was on the air for a period of 24 years, and it was closed in 1998. Many international radio monitors all around the world have received prized QSL cards from Swiss Radio International verifying their reception of the Lenk radio station.

At a regional radio meeting last year, I talked again with George Zeller who is a columnist with the monthly magazine, *Monitoring Times*. I asked him what happened to SRI at Lenk. George, an American, has visited Switzerland on several occasions, checking out his ancestral heritage and also visiting major radio stations. He stated that the two transmitters at Lenk were installed in an underground bunker. The antennas are also gone, and the site is once again a cow pasture.

Maybe a visiting photographer will see the restored beauty of this country scene and will take a picture of it in color, little realizing that this was the location of a large and important international shortwave station operated by Swiss Radio International.

Technical Topics

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The NASWA Resort

DXing Paradise

Have you ever wanted to go on a DXpedition but found it never worked out because you could not find a suitable place? Do you require civilized amenities at your DXpedition site like running water and flushing toilets? Do you dislike fighting your way through thick bramble bushes to string out temporary Beverage antennas? Do the antennas you end up with limit what directions you can hear? Are you tired of trekking out to the hinterlands only to find that the ionosphere has gone into "absorb" mode?

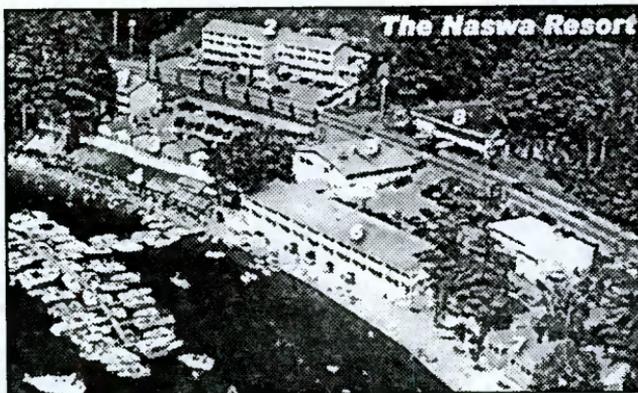
Now the NASWA Research Lab (NRL) once again comes to the rescue with a new service to benefit the NASWA membership. Because NRL has made so much money recently on lucrative government research contracts, the NASWA directors had a problem—too much money. One faction of the NASWA directors wanted to give a refund of dues to the members. Another group wanted to pay off the mortgage on the NRL campus outside Washington, DC. Another segment of the Board wanted to invest the money.

With global stock markets tanking daily and interest rates tumbling as governments hasten to head off a depression, none of these options seemed to make any sense. Members who received dues refunds would only squander the money on some new radio gizmo. There is no point in paying off the NRL mortgage now when it will likely be able to be refinanced soon at much lower interest rates. So the Board decided to invest the money in something that would both pre-

serve our capital for future activities while providing members a place to do their DXpeditions in comfort.

The directors decided the best place to invest the NRL windfall would be real estate. Knowing of the tremendous demand for a good DXpedition location, the Board wisely decided to meet both needs. They decided to invest in a lush resort located in a pristine area of New England where the DXing is easy and the amenities are already in place. The chosen site is near Laconia New Hampshire at the north end of beautiful Lake Winnepesaukee. The site is within a one day drive of anyone in the

The Naswa
RESORT



populous corridor that runs from Washington DC to Boston. Canadian members in Ontario, Quebec, and the Maritime Provinces will also find the location within an easy day's drive. That transaction is now complete. The resort signs now reflect the NASWA name, proclaiming that this is the NASWA Resort.

Initially sixteen units will be outfitted with 4 receiving positions each. Members will bring their own favorite radios, computers and recorders. Radios will interface to the

antenna system via SO-239 connectors in the wall. These units are reserved for NASWA members only and can accommodate up to 64 operators per shift. The 64 operating positions will be able to independently select any of the four Beverage antenna outputs.



Four permanent Beverage antennas are now being strung through the woods. One points to Africa, one to South America, one to the South Pacific and Southeast Asia, and the fourth is aimed over the North Pole to pick up those interesting stations in Central Asia and the Indian Subcontinent. Each antenna will connect to a "1-in/64-out" multicoupler designed by NRL on a previous NSA contract. The 256 outputs will be routed to the 64 operating positions allowing operators the ability to instantly change directions with a wall-mounted switch. NRL engineers expect that the antenna installations will be complete in time for next fall's DXing season.

There has been some discussion about relocating the annual SWL Winterfest to the NASWA Resort, but these plans are now only in the formative stage. Of course the advantages would be obvious. The Fest would not have to compete with other organizations for schedule time. The Fest would automatically have preference. Off-season rates would save members and non-members alike and the money would stay with NASWA to further the good works of the club.

Photos show the aerial view of the NASWA Resort facility and some of the rooms. The facility features both a hotel building and several two-room cottages. Whatever your

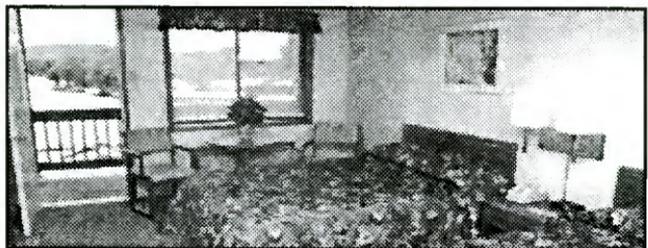
pleasure, you will be able to do it in comfort at the NASWA Resort.

Pictures of the site are included in this article and may also be seen in glorious color at the NASWA Resort web site. Go to: <<http://www.naswareort.com>> with your Internet browser. There you will find all the details on the types of activities available for the whole family.

Get your reservation in early for the next DXing season. Room rates listed on the web site are for

normal people. NASWA members will be afforded a substantial discount so please tell them you are a member of NASWA when you call to make a reservation. The web site does not reflect the NASWA membership rate because we do not want normal people to know that we are giving preferential treatment to NASWA members.

Now remember that NASWA has retained most of the existing resort staff to ensure a seamless transition. Not all the reservation clerks may yet be aware of the special discount for NASWA members reserving one of the 16 radio rooms. If your reservation clerk sounds puzzled by your request, hang up and try again later. Eventually you will get somebody who has been trained during the special NRL behavior modification sessions.



If you have any trouble getting a reservation for one of the radio rooms or if you have trouble getting the NASWA member discount, write to NASWA at 2216 Burkey Drive, Wyomissing, PA 19610 or via e-mail rdangelo3@aol.com.

Listener's Notebook

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

Lots and lots of schedules in for the summer broadcasting season, most all of which have been collected and forwarded by the tireless Wolfgang Bueschel, who alone has become a more accurate and comprehensive source of broadcasting info than either BBC Monitoring or the WRTH.

Rather than consume this entire Journal, I'll present some of these schedules this month and the rest next month.—Al Q.

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ALBANIA *Radio Tirana*

0145-0200	English	6115 7160
0230-0300	English	6115 7160
0300-0800	Albanian	6100
0800-0900	Albanian	7110
1400-1700	Albanian	5985 7270
1701-1715	Turkish	6100 7260
1715-1730	Greek	6100 7260
1730-1800	German	7185 9570
1800-1830	Italian	6100 7240
1845-1900	English	7210 9510
1900-1930	French	7210 9520
2030-2200	Albanian	7295 9575
2115-2130	Ser/Cro	6135 7110
2130-2200	English	7130 9540
2300-0330	Albanian	6090 7270

(via Andreas Volk-D, ADDX Mar 13/Bueschel-GER/
BC-DX/BC-DX/Bueschel-GER)

AUSTRALIA Combined transmitter usage

Radio Australia

0000-0100	English	9660B 12080B 15240S 17580S 17750S 17795S 21740S
0000-0100	Vietnamese	15415S
0100-0200	English	9660B 12080B 15240S 15415S 17580S 17750S 17795S 21725S
0200-0500	English	9660B 12080B 15240S 15415S 15515S 17580S 17750S 21725S
0500-0600	English	9660B 12080B 15240S 15515S 17580S 21725S
0500-0600	Khmer	15415S 17750S
0600-0700	English	9660B 12080B 15240S 15415S 15515S 17580S 17750S 21725S
0700-0800	English	9660B 9710S 12080B 15240S 15415S 17580S 17750S 21725S
0800-0805	English	5995B 9710S 12080B 13605S 15240S 15415S 17750S 21725S

0805-0900	English	5995B 9580S 9710S 12080B 13605S 15240S 15415S 17750S
0900-1000	English	9580S 13605S 21820S
0900-1000	Indonesian	11880S 17750S
0900-1100	Tok_Pisin	5995B 6020S 9710S 12080B
1000-1100	English	9580S 11880S 12080B 13605S 17750S 21820S
1100-1200	English	5995B 6020S 9580S 12080B 13605S 21820S
1100-1230	Chinese	9475S 11880S 13605D
1200-1300	English	5995B 6020S 9580S 11650P 21820S
1230-1330	Vietnamese	9475S 11880S
1300-1400	English	5995B 6020S 9580S 11650P 21820S
1330-1430	ADF	9475S 11660P
1400-1430	English	5995S 6080S 9580S 11650P
1430-1600	English	5995S 6080S 9475S 9580S 11650P 11660S
1600-1700	English	5995S 6080S 9430S 9475S 9580S 11650P 11660S
1700-1800	English	5995S 6080S 9430S 9580S 9815S 11880S
1800-1900	English	6080S 7240S 9430S 9580S 9815S 11880S
1900-2000	English	6080S 7240S 9580S 9655S 9815S 11880S
2000-2100	English	9580S 9655S 9815S 11880S 12080B
2000-2100	Tok_Pisin	6080S 7240S
2100-2130	English	9580S 9655S 11880S 12080B 17715S 21740S
2100-2200	Tok_Pisin	7240S
2130-2200	English	11880S 12080B 17715S 21740S
2130-2400	Indonesian	11695S
2130-2400	Indonesian	15415S
2130-2400	Indonesian	15425D 21725S
2200-2300	Chinese	15240D
2200-2300	English	17715S 17795S 21740S
2300-2400	English	9660B 12080B 17715S 17795S 21740S
2300-2400	Khmer	15240D

BBC via Australia
2200-2300 BBCWS_E 9660B 12080B

Christian Vision via Darwin
0700-1000 English 17710D
1000-1200 English 13775D 17730D
1200-1400 English 13775D 15400D
1400-1700 English 13730D 15400D
1700-1900 English 9715D 11815D
1900-2100 English 9715D

(BC-DX/Bueschel-GER)

Via Prayer word March 2110 **HCJB** circular, states: On 1st Feb 2001 HCJB Australia received a provisional licence from the Australian communications authority for shortwave broadcasts from their Kununurra site in W Australia. Now need a content licence from the ABA, content & National interests (licence) from the Dept of Foreign Affairs. (Don Rhodes-AUS, edxp Mar 3/BC-DX/Bueschel-GER)

AUSTRIA Radio Austria International

0000-0030	German	9870
0030-0100	Spanish	9870
0100-0130	German	9870
0130-0200	English	9870
0400-0500	German	6155 13730
0500-0530	German	6155 13730 17870
0532-0600	English	6155 13730 17870
0600-0630	German	13730
0630-0700	French	13730
0700-0800	German	13730
0800-1100	German	6155 13730
1100-1130	French	6155 13730
1130-1200	English	6155 13730
1200-1300	German	6155 13730
1300-1330	German	6155 13730 21780
1330-1400	English	As/Aus 6155 13730 21780
1400-1500	German	6155 13730
1500-1600	German	13730 17865C
1600-1730	German	6155 13730
1730-1800	French	6155 13730
1800-1830	German	5945 6155
1830-1900	English	5945 6155
1900-1930	German	5945 6155
1930-2000	Spanish	5945 6155
2000-2005	German	5945 6155
2005-2030	Arabic	5945 6155 Fr/Su
2030-2100	Esperanto	5945 6155
2100-2130	German	5945 6155
2130-2200	English	5945 6155
2200-2300	German	5945 6155
2300-2330	German	5945 6155 13730
2330-2400	Spanish	5945 6155 13730

C- Relay RCI Sackville

(ORF via WWDXC-Germany/Mike Bethge/BC-DX/Bueschel-GER)

Beginning with the summer transmission period, **Adventist World Radio (AWR)** is relaying 12 hours

daily via Moosbrunn, Austria. This replaces relays via Rimavska Sobota in Slovakia. (Dr Adrian M. Peterson DX Editor Co-ordinator, Feb 27/BC-DX/Bueschel-GER)

AZERBAIJAN Today I heard (presumed) Baku starting on 9155 at 0900 with what appeared to be Russian. The audio was harsh as usual. The strength was very modest and the signal was badly squeezed between a SITOR station on 9157 and a strong local buzz on 9153. The exact freq was about 20 Hz low. Yesterday there was a very strong utility station right on 9155. (Olle Alm-SWE, Feb 28/BC-DX/Bueschel-GER)

BANGLADESH Radio Bangladesh External Service

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

*Voice of Islam (BBCM)

BELGIUM Radio Vlaanderen Internationaal

schedule, I am somewhat confused by what's on weekdays and what on weekends, so I'll leave it the way I received it and let you sort it out:

Weekdays		
0400-0430	English	15565B
0430-0500	Dutch	15565B
0500-0600	Dutch	5985W 9925W
0600-0700	Dutch	9925W 13685W
0700-0800	Dutch	9925W 13685W
0700-0730	English	9865J
0800-0900	Dutch	9925W 13685W
1100-1130	Dutch	9925W 13685W
1130-1200	English	9865P 9925W
1200-1230	Dutch	9865P 17690T 21630W
1600-1630	Dutch	9925W 13710W
1630-1645	French	9925W
1645-1700	German	9925W
1700-1730	Dutch	9925W 13710W
1730-1800	English	5910W 9925W 13710J
1800-1900	Dutch	5910W 7195M 9925W 13710J 15515J
1900-1915	German	5960W
1915-1930	French	5960W
1930-2000	English	9925R
2000-2100	Dutch	5910W 9925W
2230-2300	English	15565B
2300-2330	Dutch	15565B

"EXCEPTION ON SATURDAYS:"

1800-1900	Dutch	7195M 9925W 13710J 15515J
1800-2000	Sports	5910W

"EXTRA ON SUNDAYS:"

1000-1100 Dutch 17690W 21630W
 1300-1600 Sports 9925W 13710W

Transmitter sites:

B=Bonaire, Netherlands Antilles

J=Juelich, Germany

M=Madagascar

P=Petrovavlovsk-Kamtchatsky, Russia

R=Moscow, Russia

T=Tashkent, Uzbekistan

W=Wavre, Belgium

(Brems/BC-DX/Bueschel-GER)

BULGARIA Radio Bulgaria

0000-0100 Bulgarian 9400 11700
 0000-0100 Bulgarian 9500 11600
 0100-0200 French 9400 11700
 0100-0200 Spanish 9500 11600
 0100-0200 Spanish 9700
 0200-0300 English 9400 11700
 0200-0300 Russian 5900 7500
 0300-0400 Bulgarian 5900 7500 9400
 0400-0430 Greek 7300 Mo-Fr
 0400-0500 Greek 7300 Sa/Su
 0430-0500 Albanian 7300 Mo-Fr
 0430-0500 Turkish 6000 7400 Mo-Fr
 0500-0545 German 9400 12000
 0500-0600 Serbian 7300 Mo-Fr
 0500-0600 Turkish 6000 7400 Sa/Su
 0600-0700 Albanian 7300 Sa/Su
 0600-0700 French 12000 13600
 0700-0800 Serbian 7300 Sa/Su
 1000-1030 Bulgarian 12000 13600
 1000-1100 German 15700 17500
 1100-1200 English 15700 17500
 1200-1400 Bulgarian 12000 15700
 1400-1500 Russian 13800
 1400-1500 Russian 7500 9900
 1500-1545 Serbian 7300
 1500-1600 Bulgarian 13600
 1500-1600 Bulgarian 17500
 1500-1700 Bulgarian 7500 9900
 1545-1630 Albanian 7300
 1600-1700 Spanish 15700 17500
 1615-1700 German 9400 11800
 1630-1715 Greek 7300
 1700-1800 French 9400 11800
 1700-1800 Russian 7500 9900
 1715-1800 Turkish 7400
 1800-1845 German 9400 11800
 1800-1900 Bulgarian 6000
 1800-2000 Bulgarian 7400
 1800-2000 Bulgarian 7500
 1900-1945 Albanian 6000
 1900-2000 English 9400 11900
 1945-2030 Greek 6000
 2000-2100 French 9400 11900
 2030-2115 Serbian 6000
 2100-2200 English 9400 11900

2100-2200 Spanish 11800 13800
 2300-2400 English 9400 11700
 2300-2400 Russian 12100
 2300-2400 Spanish 9500 11600

(BC-DX/Bueschel-GER)

CANADA Radio Canada International

0000-0057 En-CBC 11895Xi
 0000-0059 Spanish 9755 11895 13670 15170
 15305 Su/Mo
 0030-0059 Spanish 9755 11895 13670 15170
 15305 Tu-Sa
 0100-0159 En-RCI 5960 9755 13670 13770
 15170 15305
 0200-0257 En-RCI 15260Xi 17860Xi
 0230-0259 Arabic 5865Hb 11835Vi
 0330-0359 Arabic 11835Vi 15215We
 0500-0529 En-RCI 6145Sk 7290Sk 9595Sk
 11710 13755 15330We
 17740Md
 0530-0559 En-RCI 13755 15330We 17740Md
 0530-0559 French-RCI 6145Sk 7290Sk 9595Sk
 11710
 0600-0659 French-RCI 13755 15260Sk 15460We
 1100-1159 French-RC 5990 9640 11910 Mo-Fr
 1100-1259 French-RC 5990 9640 11910 Sa/Su
 1200-1259 En-CBC 9660Ya 15190Ya
 1200-1459 En-CBC 9640 15305 17820
 1300-1329 Chinese 6150Ki 9660Ya 15190Ya
 1300-1559 En-CBC 9640 15305 17800 Sa/Su
 1430-1459 Chinese 7150Ki 9680Ya 11890Ya
 1500-1557 En-RCI 15455Xi 17720Xi
 1500-1559 Russian 9920Ms 11935Sk 15325Rm
 17820Wo
 1600-1659 French-RC 9755 15305
 1600-1659 Ukrainian 11935Sk 15325Rm
 17820Wo
 1800-1859 En-RCI 13690Sk 15200Ar
 17820Dh 21570Rm
 1900-1959 French-RCI 5995Sk 7235Sk 13670Sk
 15120As 15325 21570
 1915-1944 Arabic 15200Vi 17630Hb 17820We
 2000-2059 En-RCI 5995Hb 11690Sk 15325
 17870 21570
 2100-2129 Arabic 11920We 15325 17820
 2200-2229 En-CBC 9755 13670 15305 17695
 17880 Mo-Fr
 2200-2259 French-RC 13710Ki 17835Ya
 2200-2259 Spanish 11920 15305 17880 Sa/Su
 2200-2359 En-CBC 9755 13670 17695 Sa/Su
 2230-2259 Spanish 11920 15305 17880 Mo-Fr
 2230-2359 En-CBC 9755 13670 17695
 2300-2329 Chinese 13660Ya 15360Sn 17835Ya
 2300-2359 French-RCI 5960 15305 17880
 Ar=Armavir, Russia
 As=Ascension
 Dh=Dubai, UAE
 Hb=Horby, Sweden
 Ki=Kimjae, Korea
 Md=Madagascar

Ms=Moscow
Rm=Rampisham, England
Sk=Skelton, England
Sn=Singapore
Vi=Vienna, Austria
We=Wertachtal, Germany
Wo=Woofferton, England
Xi=Xian, China
Ya=Yamata, Japan
(from website/BC-DX/Bueschel-GER)

[note from editor to RCI: your schedule is by far the most difficult and time-consuming to parse into any kind of a usable format, just FYI...AQ]

CLANDESTINE—MIDEAST Expanded schedule of *Voice of Mojahed*, out of the band freqs 10050 and 12450. Chaotic use of freqs 10050, 10250, 12450, 13450 on Feb 21: 1000-1030 10050 12450 13450 1030-1100 10050 13450 1100-1130 13450 1130-1430 10050 12450 13450 1430-1530 10050 12450 1530-1730 10050 10250 12450 1730-1910 10250 12450 The other remaining lower freqs are same as earlier in use.

Voice of Mojahed-2 is back on air *1705-2101* on 7073. Observed in Nov 2000, silenced til Jan 26. Now as follows *1703-2105* in Persian, 1730-1825 in Arabic on v7073, jammed by Iran. The other "*Vo-Mojahed - 1*" is jumping also in 40 m Amateur radio band, together with two Iranian jammers.

Observed schedule: *0225-0640*; *1425-1910(irr 1840) on 5350 5650 6450 6850 7050 7450 8350 8850 9930 10250, and 13450(x7850). All jumping +/- 30 kHz. New time *1125-1325*, but Suns *1025-1240* on 7050 8350 8850 9330 10250 13450(x9230).

On Feb 5th at 1905 on 8830 they announced two MW freqs and eleven on shortwave.

Irregular broadcasts are aired now from *Radio Kurdistan* 4030. *Voice of the Toilers of Kurdistan* 4245. *Voice of Kharkuditi Kurdistan* is already on 4197 (x4177). There is the new *R Bopishawa / Forward of Iraqi Communist Workers Party* (pro-Soviet orientation), presumed replacing the previous "The Voice of ICWP," *1530-1805* on 4000, which reported last time on Oct 28th, latter known as a close friend to PKK—ist successors are maybe R Anternacional, R Bopishawa.

3875 & 4375 *Voice of the Iranian Revolution*, *1427-1527* in K&P. *Voice of the Communist Party of Iran* *1655-1755*, Fris *0427-0527* In P, presumed both pro-Soviet, tx site in UZB?

3903 *Radio Freedom - VOCP of Iraqi Kurdistan* *1550-1650* in K

3903&5890 *VoIraqi People*(1)*0355-0525*, *1725--1855* in A, presumed both pro-CHN, tx site in CHN.

3985 *Volranian Kurdistan* *0255-0455*, *1325-1525* in K&P, jammed by Iran, progr originate from presumed tx site in Iraq.

4000 *VoIraqi Communist Workers Party* *1530-1805, not active now! presumed pro-Soviet, tx site in UZB.

4062&6995 *VoPeople of Kurdistan*, *0308-0750*; *1325-2100* in K&A

4085&5860 *VoIraqi Kurdistan* *0335-0635*, *1330-1430*, *1455-2050*, Suns -1950* in K&A. TX site in Iraq.

4030(x4130) *Radio Kurdistan-VoKurdistan-n* SDP, *0300-0450, *1435-1630*, irr. 1630- 1730, *1938-2108* in A&K. TX site presumably in SYR.

4197 *VoKharkutiti Kurdistan* (x4177), now varies 4190...4200. *0300-0455*, *1500- 1657*. TX site presumably in SYR.

4200/4225 *VoWorker*, *1527-1616* in K&P 4225. *1727-1816* in P 4200., both Mon-Fri, but irreg Sat&Suns. presumed pro-CHN.

4245 *VoToilers of Kurdistan*, *0250-0600*, *1355--1700* in A&K, Presumably tx site in SYR.

5830 *Radio Iran of Tomorrow*, *1800-1830*, in P, tx site in TJK.

7480 *VoIran*, *1630-1830*, in P, CIS site(ex Moldova). Heavily jammed by [Kamalabad?] Iran 7481.00.

7520 *Radio Anternacional*, *1730-1815* in P. Maia Grigoriopol 500 kW stn in Moldova.

9450 *Radio Bopishawa*. Mon/Wed/Fri in A; Thur in Kurd. *1500-1600*. Site unknown, Yerevan-ARM?

9563/9568/11710 *VoIraqi People*(2), see 3903 above. *1430(Fri 1330)-0430* in A. TX site in ARS.

9677 *VoJustice*, Wed&Sat *0600-0635* in Azeri & Armenian. TX site in Nagorno- Karabakh Republic.

Radio Iran of Tomorrow on 7120 7520 12055 at *1830-1900* in P, from tx site in Moldova, but tx-ion seems to be closed now.?

(Rumen Pankov-BUL, Feb 22; A=Arabic, K=Kurdish, P=Persian/Farsi/BC-DX/Bueschel-GER)

CONGO Here is a review and update on the clandestine radios in the Congo: Kisangani In 1998, Kisangani was heard on 11455, perhaps using an old PTT tx. The old RTNC complex here eventually fell under Rwandan and rebel control. It was reported on FM, but was destroyed by Ugandan forces in May 2000 when much of Kisangani was destroyed. For its part, Uganda provided a safe haven for a radio stn of the rebel group it was backing. Known as *Radio Liberte* [aka R Liberty, R Freedom] this one was on FM

from Ugandan Army HQ at La Foreste, about 15 km south of Kisagani. This is the stn of Bemba's MLC, now the CLF. No SW from here for the moment.

Gbadolite—*R Liberte* [see above] operated on SW from here, last heard July 2000. Vowed to return by Dec 2000, but still untraced. Usually reported on 15725. No real proof that this is really in Gbadolite, just the stn's claims.

Goma—Acc to Cumbre's sources, rebels operate on FM here, but are working on MW as well. They didn't know of any SW.

Bukavu—*RTNC* was last heard on 3278 and second harmonic 6556 in 1998. This facility was captured by rebels as well as a humanitarian stn [perhaps R Kahuzi?] More recently, a rebel stn was heard on 6713 operating from Bukavu, but hasn't been reported since March 1999. Rebels do seem to still operate on FM from Bukavu though.

Bunia—Rebel-controlled Bunia radio was heard in Jan on 6828 and there was a report in last week's Cumbre of it on 6698. The old CANDIP stn was reported on 3390 and 5066 by BBCMS last Nov. This was when Ugandan forces in Bunia seized the stn during inter-rebel fighting.

I asked Joerg Klingenfuss if perhaps the operations from Bunia and Bukavu were old PTT txrs. He doubted it, given the extensive fighting in the Congo. (Johnson Mar 7/BC-DX/Bueschel-GER)

6210 *Radio Kahuzi* reactivated on SW from Bukavu, started Feb 22nd after HCJB personnel installed a 1 kW tx. Running at 810 watts they feel it will get out about 300 miles. Time schedule not known. All this per HCJB. This is the stn of the Christian group Believers' Express, website is <http://www.besi.org> Kahuzi is still on FM and schedule we have had previously is: 0700-1030, 1200-1400, and 1430-1830. Not sure if this is still current or if it even applies to the SW. The stn is named after the highest mountain in this area. (DIRECT via Johnson Mar 14/BC-DX/Bueschel-GER)

0700-0800	English	11680 11755 21455
0800-0930	Portuguese	9745
0800-1100	English	11755 21455
0830-1000	Quichua	3220 6080 9765
0900-1100	Spanish	9780
0930-1000	German	11980
1000-1400	Quichua	3220 6080
1030-1100	Huarani	6050
1100-1300	Spanish	6050 11960 15140
1100-1430	English	12005 15115 21455
1300-1430	Spanish	6050 15140 15295
1430-1500	Spanish	6050 15140 15295 21455
1500-1530	Spanish	6050 21455
1530-1800	Portuguese	15295
1530-2030	Spanish	6050
1600-1615	Bashkir	11760R Su
1600-1615	Tajik	11760R Tu/Th
1600-1615	Tatar	11760R Fr/Sa
1600-1615	Uzbek	11760R Mo/We
1615-1630	Georgian	11760R Su
1615-1715	Russian	11760R Mo-Sa
1630-1715	Russian	11760R Su
1715-1730	Ukrainian	11760R
1900-1930	French	17795 21470 Tu/We/Sa/Su
1900-2030	English	17660
1930-2000	Czech	17795 21470 Tu/We/Th/Sa/Su1011101
1930-2000	Slovak	17795 21470 Mo/Fr
2000-2030	German	17795 21455 21470
2030-2100	Spanish	6050 17795 21470
2030-2200	English	17660 21455
2100-2130	Quichua	3220 6080
2100-2130	Spanish	6050 15140 17795 21470
2100-2230	Arabic	12025R
2130-2200	Spanish	6050 15140
2130-2400	Quichua	3220 6080 9745
2200-2300	Spanish	6050 15140 21455
2300-0230	Portuguese	11920
2300-2400	English	17660
2300-2400	German	11980
2300-2400	Spanish	6050 15140 21455

R=via Rampisham, UK

(HCJB Douglas Weber, Mar 14/BC-DX/Bueschel-GER)

GERMANY *Deutsche Welle*

0000-0100	Russian	5925SA 7105W 9690W 11865T 11975V 12045P 15135T
0000-0200	German	3995W 6075S 6075W 7130N 9545W 11785K 13780S 13780W 15275K 15410A 17860K 17875T
0100-0145	English	60405K 9640W 11810A 13720S
0100-0150	Bengali	9615T 13690W 15105T
0200-0245	English	11965T 13720W 15370T
0200-0400	German	3995W 6075A 6075S 6075W 6100W 9735N 11785K 11795N 15205T

ECUADOR *HCJB*

0000-0100	English	9745 15155 17660 21455
0000-0100	Spanish	6050 15140
0000-0300	Quichua	3220 6080
0030-0100	French	11840 Su/Mo/We/Th
0100-0400	English	9745 15155 21455
0100-0500	Spanish	6050 15140
0330-0430	Russian	11865
0400-0600	English	9745 15155 21455
0430-0500	Czech	11830 Tu/We/Th/Sa/Su
0430-0500	Slovak	11830 Mo/Fr
0500-0515	Kikongo	12005 Mo-Fr
0500-0530	German	11875
0530-0600	French	11875 Tu/We/Sa/Su
0600-0630	Spanish	11875
0600-0700	English	9745 11680 15155 21455

0300-0345	English	9535SK 9640A 13780S 15105B	1000-1200	German	6075W 9545N 9900P 13720I 13780W 15135K
0300-0400	Kiswahili	7225K 9565K 9765K 13690W			17560W 17845NO 21640T 21680N 21790W 21840N 17650S
0300-0400	Russian	5955W 7105W 9545W			
0400-0445	English	7225K 9565K 9765K 13690W	1030-1055	Chinese	9760P 12025I 17715T 17770T 21780W
0400-0500	German	3995W 6075A/S/W 6100W 9640SK 9700K 9735N 13780N 17810W	1100-1130	Albanian	9770W 11905W
0430-0500	Russian	9545W 11655W	1100-1145	English	6140J 11785K 15410K 17860K 21780W
0430-0500	Ukrainian	9780W 11820W	1100-1200	Romanian	11695W 13790N
0500-0515	French	7225K 9565K 11785K 13720W	1130-1230	Bosnian	9770W 11905W
0500-0530	Bulgarian	7190W 9750N	1145-1600	English	6140J
0500-0530	Russian	9545W 11655W	1200-1230	Polish	7130W 9735W
0500-0545	English	9670A 9785S 11985B	1200-1250	Indonesian	15105T 17820T 21650W
0500-0600	German	3995W 6075A/S/W 6100W 9640SK 9700K 9735N/W 13780N 17810W	1200-1300	French	13790S 15410K 17570W 21665W 21745K
0515-0530	Portuguese	9565K 11785K 17860W	1200-1400	German	6075W 9545N 9900P 13720I 13780W 15135K 15480M 17560W 17650S 17730A 17845NO 21640T 21680N 21790W 21840N
0530-0600	Turkish	11865W 15215W	1230-1300	Croat	9770N 11905W
0545-0600	Albanian	7190W 9750N	1300-1330	Bulgarian	15470W 17875S
0600-0615	Bosnian	7190W 9750N	1300-1330	Macedonian	9770N 11905W
0600-0630	German	6075S/W 9545N 9690A 9735W 11795W 11865N 11985A 13780W 17845N 21600W 21640T	1300-1350	Chinese	15275T 15605I 17820T 21650W
0600-0645	English	6140J 11925S 13790S 17860W	1300-1350	Hausa	15410K 17800K 21665W 21745K
0615-0630	Serbian	7190W 9750N	1330-1400	Dari	17835W 21590W
0630-0700	Macedonian	7190W 9750N	1330-1400	Turkish	11945W 15470W
0630-0800	German	6075W 9545N 9690A 9735W 11795W 11865N 11985A 13780W 17845N 21600W 21640T	1330-1430	Serbian	9770N 11905W
0645-0900	English	6140J	1400-1420	Pashto	17835W 21590W
0700-0730	Hausa	13790S 15275S 17860W	1400-1450	Amharic	11810K 15410K 21840W 7395KR
0730-0800	Albanian	7190W 9650W	1400-1500	Russian	9715W 9800SA 11915W 17560W
0800-0815	Dari	15525KR 17570W	1400-1600	German	6075W 9545N 9655T 13780W 15275N 15480M 17730A 17765A 17845N 17845W 17875SK 21560K
0800-0830	Croat	7190W 9650W	1430-1515	Urdu	6170T 7225T 17595W
0800-1000	German	6075W 9545N 9690A 9735W 11795W 11865N 13780W 15135K 17845N 21640T	1430-1530	Albanian	17835S 21590S
0815-0830	Pashto	15525KR 17570W	1500-1600	French	13790S 15135K 17715W 21790W
0830-0930	Romanian	11655W 13790N	1500-1600	Kiswahili	9735K 11665K 21840N
0900-0930	Macedonian	9770W 11905W	1500-1600	Russian	9715W 9800SA 11915W 15425W
0900-0930	Persian	17570W 17675SA 21840W	1515-1600	Hindi	6170T 7225T 17595W
0900-0945	English	6140J 6160A 12035K 15410K 15470I 17715KO 17770T 17800TA 17820T 21560K 21680W 21790W 9770W 11905W	1530-1600	Macedonian	17835S 21590S
0930-1000	Serbian	11655W 13790N	1600-1645	English	6140W 6170T 7225T 9735K 11665K 17595W 21840N 13790S 15135K 17715W 21790W
0930-1030	Bulgarian	6140J	1600-1700	French	6075W 9545N 9655T 13780W 15375N 17730A 17765A 17845N/W 17875SK 21560K
0945-1100	English	9565K 11785K 15410K 21600W	1600-1700	German	9715W 9800SA 11915W 15425W
1000-1050	Kiswahili	9565K 11785K 15410K 21600W	1600-1700	Russian	9715W 9800SA 11915W 15425W
			1600-1700	Serbian	7185W 17835S

1630-1700	Polish	9650W
1640-1900	English	6140W
1700-1800	French	13790S 15215W 15390K 17700K 17745W
1700-1800	German	6075W 9545N 9655T 13780W 15375N 17845N/W 21560K
1700-1800	Persian	9835SA 11705KR 15360N
1700-1800	Russian	9715W 9800SA 1915W 15425W
1730-1800	Albanian	11905W 17835S
1800-1900	Hausa	11805K 15390K 17845W
1800-1900	Russian	5955N 9715W 11915W
1800-2000	German	6075S 6075W 7185N 9545N 9735K 11765T 11795W 13780W 15275W 17860K
1830-1859	Bosnian	15115S 13790S
1900-1945	English	11805K 11965T 13720W 15390K 17810T
1900-2000	Russian	5955N 9715W 11915W
1900-2130	Arabic	9690W 11695W 13640N 15520S
2000-2015	Serbian	6130W 13790S
2000-2045	English	7130W 9670T
2000-2050	Portuguese	7285K 9875K 17595W 17820T
2000-2200	German	3995W 6075S 6075W 6075W 7185N 9545N 9735K 11765T 11795W 15275W 17810A 17860K
2015-2030	Albanian	6130W 13790S
2100-2145	English	9765W 9875K 11865W 11915T 15135K
2200-2250	Indonesian	9670T 9815W 11915T
2200-2400	German	3995W 6075S 6075W 9545W 11785K 11795NO 11895N 13690NO 13780S 13780W 15250T 15275K 15410A 17860K
2300-2345	English	9815W 12055NO 13610T 21790P
2300-2350	Chinese	11850N 11870I 13705T 15605I

A=Antigua
 B=Bonaire
 G=Grigoriopol
 I=Irkutsk
 J=Juelich
 K=Kigali
 KO=Komsomolsk
 KR=Krasnodar
 M=Moscow
 N=Nauen
 NO=Novosibirsk
 P=Petrovavlovsk
 S=Sines
 SA=Samara
 SK=Sackville
 T=Trincomalee
 TA=Talata Vo.

V=Vladivostok

W=Wertachtal

(via Andreas Volk-D, ADDX Mar 13/BC-DX/Bueschel-GER)

**Radio Santec/The Cosmic Wave/The Word—
The Universal Spirit**

0100-0130	English	9435J
0230-0300	Spanish	7330 9450 9470 9810 9965 12010 12060 Mo
0930-1000	German	7120M Sa/Sa
1200-1230	German	9710 Su
1553-1630	German	9795 15455
1600-1630	French	15715J Su
1630-1700	German	6015J Tu/W/Th
1700-1730	German	9795 15455 Su
1730-1800	German	9795 15455 Sa
1730-1800	German	9795 15455 Tu
1800-1830	English	13855J
1830-1900	German	9795 15455 11980 We
1930-2000	French	7310 7420 9450 9810 9865 11930 12000 12015 15455 15535 Fr

J=via Juelich

M=via IRRS Milano

other shortwave frequencies are relayed via Russia.
(BC-DX/Bueschel-GER)

GEORGIA Taken from "Weekly Political Review" of **Radio Rep Abkhazia** in Russian on Feb 3rd at 0700, repeated at 1100 adn 1400 on v9489.75: "The people in Georgia have now an electricity for only 12 hours per day...that's why the Georgian Radio and TV are on the air irregularly...Russia wants from Georgia to pay ist debts—only Azerbaidjan is helping them...etc.."

9490 Observed schedule in Febr, of non-registered tx, presumably location at Sochi-RUS:

0400-0500	Mo-Fr
0500-0800	Mo-Sa
1100-1200	Sa/Su
1400-1430	
1430-1600	Mo-Sa
1530-1600	Sa
1600-1800	Mo-Fr

Program relay of **Radio Rossii**, except Radio Republic Abkhazia in Russian, Abkhazian, Georgian

0400-0500	Mo-Sa
0700-0800	Mo-Sa
1100-1200	Sa/Su
1400-1430	
1430-1500	Sa

Radio Kuban, from Krasnodar

0400-0430	Mo-Fi (irr)
0445-0500	Mo-Fr
0610-0700	Sa

1500-1525 Mo-Fr
1548-1600 in Russian

Radio Sochi from Sochi

0430-0445 Mo-Fr (irr)
1525-1548 in Russian

(Rumen Pankov-BUL, Feb 19/Bueschel-GER)

Radio Georgia is again audible on v11805.3, heard with English commencing at 0630. German followed as usual from 0700. Prior to that, was only a het on VoA Kavala, which goes off at 0630 (M-F). Reasonable amount of carrier in evidence, but usual poor modulation. (Craig Seager-AUS, Feb 26, WOR, DXLD Mar 1/BC-DX/Bueschel-GER)

I heard what I think was **Radio Khara** on 4875 on Mon 6th. A dx friend in Leeds called to ask what he could be hearing, and we listened to a good signal, peaking to 9 on my meter, until s-off 1732. (Noel R. Green-UK, Mar 7/BC-DX/Bueschel-GER) Radio Khara is financed by the Open Society Georgia, OSI Budapest Media Network progr. I previously gave you a somehow incorrect description of the R Khara's progrs: it does NOT touch Georgian-Abkhazian conflict-related topics, but gives information in the Abkhaz lang on the political and social situation in Georgia, the arts, sports and other general topics. Contributors to the progr are refugees from Abkhazia presently living in Tbilisi. (Pataridze, Cumbre Mar 4/BC-DX/Bueschel-GER)

HONDURAS 5010usb, **Radio Misiones Internacionales**, 0212-0410 Mar 7, reactivated and x5890, tune-in to huge signal with SP man in Christian tlk, then modern, soft SP Christian vocals; at 0310 man ment. "1480 kHz A-M, 5010 kHz onda corta. . . Honduras, Centroamerica. . ." then back to songs; 0314 finally a clear "Radio M-I Internacional," also at 0320 "Radio M-I" and at 0323 into ranchera vocal, man with "R. Misiones Internacionales" (never any "La Voz" de Misiones Internacionales). (Terry Krueger-FL-USA, Nuero Uno Mar 7/BC-DX/Bueschel-GER)

INDONESIA 9525 freq for **Voice of Indonesia** is no longer used 0800-1300. All programs are now on 11785 incl Japanese 1130-1200. (Craig Tyson-AUS, edxp Feb 27/BC-DX/Bueschel-GER) Voice of Indonesia now on 11785, 1730 Sp, 1800 Ge, 1900 Fr, 2000 English. (Rumen Pankov-BUL, Mar 1/BC-DX/Bueschel-GER)

ISRAEL *Kol Israel*

0100-0500 Hebrew* 9390
0300-2115 Arabic** 5915 9815 12140
0330-0500 Hebrew* 11590
0400-0415 English 9435 15640 17545
0500-0515 French 15640 17545
0500-1800 Hebrew* 15760
0500-2100 Hebrew* 17535
1000-1030 French 15640 17545

1030-1035 English 15640 17545
1200-1215 Bucharian 15640 17545
1215-1230 Georgian 15640 17545
1400-1500 Persian 13850 15640 17545
(+21665 from May 1) Fr/Sa
1400-1525 Persian 13850 15640 17545
(+21665 from May 1) Su-Th
1500-1525 Sp/Ladino 15640 17545 17705
(+21665 from May 1) Sa 11585
1600-0330 Hebrew* 9435 15640 15650
1600-1625 Yiddish 15615 17545 (+21665 from May 1)
1600-1630 English 15640
1625-1635 Mugrabian 15640
1625-1645 Romanian 9435 15650
1630-1655 French 11605 15640 17545
(+21665 from May 1)
1635-1645 Spanish 15640
1645-1700 Hungarian 9435 15650
1645-1700 Ladino 15640
1700-1725 Yiddish 9435 15650
1730-1900 Russian 9435 11605
1800-0500 Hebrew* 9345(15760 from May 1)
1800-1850 Hebrew* 15640
1900-1925 English 11605 15615 15640 17545
1945-2000 Spanish 11605 15615 15640 17545
2000-2115 Hebrew* 15640
2030-2045 French 11605 15615 15640 17545
2100-0100 Hebrew* 13635

*Reshet Bet

** Reshet Dalet

(website via Joel Rubin, USA in rec.radio.shortwave Mike Barraclough-UK, WDXC-UK Mar 20/BC-DX/Bueschel-GER)

OMAN *Radio Oman*

0000-0100 Arabic 9760
0100-0200 Arabic 7235
0200-0300 Arabic 6085 7235
0300-0400 Arabic 6085
0300-0400 English 15355
0400-0600 Arabic 9515 15355
0600-1000 Arabic 13640 17630
1000-1400 Arabic 13640
1400-1500 Arabic 15375
1400-1500 English 15140
1500-1800 Arabic 15140 15375
1800-2000 Arabic 6190 15355
2000-2200 Arabic 6085 9735 15355
2300-2400 Arabic 9760

(Alokesh Gupta/EDXP/BC-DX/Bueschel-GER)

ROMANIA *Radio Romania International*, broadcasts in English:

0200-0300 9570 9690 11740 11830 11940 15370
0400-0500 9570 11830 15335 17735
0600-0700 9530 11830
0640-0700 11940 9510 7105 6135

0700-0800 21480 17720
 1300-1400 11940 15290 15335 17805
 1700-1800 9625 11740 11940 15365
 2100-2200 5955 7195 7215 9690
 2300-2400 7195 9570 9690 11940
 (BC-DX/Bueschel-GER)

RUSSIA Voice of Russia, Russian service

0100-0300 11750 17565 17620 17650 17660
 17690
 1200-1300 7315 7330 11640 15460 15510
 1300-1400 9495 11640 15510
 1500-1600 7130 9820 12055 15540 17580
 1700-1800 7300 7420 9820 15540
 1900-2000 7370 11630 11745 12020 15350 17725
 2000-2100 9450 9685 11630 12000
 (Mar 20/BC-DX/Bueschel-GER)

SOUTH AFRICA Complete Sentechn transmitting schedule:

Channel Africa

0300-0325	Swahili	6095
0300-0330	English	6035
0330-0355	French	6035
0400-0430	English	5955
0430-0455	French	9525
0430-0455	Portuguese	3345 5955
0500-0530	English	11720
0530-0555	Portuguese	11720
0600-0630	English	15215
0630-0655	Portuguese	15215
1300-1455	English	11720 17780 21725
	Sa/Su	
1500-1525	Swahili	17780
1500-1530	English	17770
1530-1555	French	17770
1600-1630	English	9525
1600-1630	Swahili	17860
1630-1655	French	17860
1630-1655	Portuguese	3345 9525
1700-1730	English	17860
1730-1755	Portuguese	17860
1800-1830	English	17870
1830-1855	French	17870

Radio Sonder Grense

0500-0800	Afrikaans	7185
0800-1620	Afrikaans	9650
1620-0500	Afrikaans	3320

BBC

0300-0330	Swahili	6050
0300-0500	English	3255 6190 7120
0400-0430	Swahili	9610
0430-0500	Portuguese	3390 6135 7205
0500-0700	English	6190 11940 11765
0530-0600	Swahili	15400 Sa/Su
0700-0730	French	17695
0700-1500	English	6190 11940
1500-1530	English	6190 11940 21490

1530-1615	English	6190 11940
1615-1700	English	6190 11940 Mo-Fr
1615-1700	English	6190 11940 21490 Sa/Su
1530-1615	Swahili	21490
1615-1700	Swahili	21490 Mo-Fr
1900-2200	English	3255 6190
1700-1730	English	3255 6190 15420
1730-1745	English	3255 3390 6190 7230 9525
		15420
1745-1900	English	3255 6190 15420
1745-1800	Swahili	7230
1800-1830	French	7230
1900-2000	English	15400
2030-2100	Portuguese	3390 6135 7205

African Beacon

1530-1800	English	6145 Mo-Fr
1600-1800	English*	6145 Sa/Su
1800-1900	English	3230 17665
1900-2200	English	3230 11640

Trans World Radio

0330-0400	Tig /Or/Am	7215
0600-0615	English	11640
1600-1630	Kirundi	9680
1625-1655	Somali	9650 Mo-Fr
1630-1700	Borana/Oro	9680
1630-1700	Tigrinya	11705
1657-1712	Shuwa/Juba	9650 Mo-Sa
1657-1727	Arabic	9650 Su
1703-1803	Amharic	9535
1703-1733	Sena/Yao	7265
1830-1900	Fulfulde	9510
1830-1900	Hausa	9460
1900-1930	Yoruba	9510
1900-1930	Kanuri	9460
1900-1930	Bambara	9700
1930-2000	Nupe/Igbo	9510
1930-2015	Fr/Songh/Mr	9700
2000-2030	Twi/Ewe	9510
2015-2020	French	9700

United Nations Radio

1700-1715	French	6125 Mo-Fr
1700-1720	French/Po	21490 Mo-Fr
1725-1745	Po/English	6125 Mo-Fr

Radio France International

0257-0359	French	5925
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Adventist World Radio

0330-0400	Somali	9600
0330-0400	Amharic	6155
0400-0500	Swahili/En	11975
0500-0530	English	5960 6015
0500-0600	Yoruba/En	11970
0530-0630	Ibo/Hausa	15345
1500-1600	Afar/Tigrinya	15115
1530-1600	Oromo	12020
1600-1630	Amharic	15115
1630-1700	Somali	15620
1700-1800	Swahili/En	12130

1800-1830	English	5960 6100	1500-1600	Turkish	9460 11955 13655
1900-1930	Fulfulde	7230			15350 21715
1930-2000	Ibo	7130	1530-1630	Turkmen	11905
1930-2000	Hausa	9745	1600-1630	Croatian	11970
2000-2030	French	9745	1600-1700	Kyrgyz	11865
2000-2100	Fr/Yoruba	7170	1600-1700	Turkish	5960 5980 9460 9560
2030-2100	English	9745			21715
Radio Lusofonia			1630-1700	Spanish	15150
1800-1915	Various	3345 Su	1700-1800	Russian	9675
1800-1900	Various	3345 Sa	1700-1800	Turkish	5960 5980 7220 9460
South African Radio League					9560
0800-0900	English	9750 21560 Su	1700-1800	Uzbek	6115
1800-1900	English	3215 Mo	1730-1830	German	9590 13640
(Kathy Otto/direct March 25/BC-DX/Bueschel-GER)			1800-1900	Bosnian	5990
			1800-1900	Tatar	6175
			1800-1900	Turkish	5960 5980 7220 9460
					9560
TURKEY TRT Voice of Turkey			1830-1930	English	9730 9785
0000-0300	Turkish	5960 5980 9445 9460	1900-2000	Turkish	5960 5980 7220 9460
		11885 21715			9560 11910
0100-0200	Uzbek	9555	1930-2030	French	9535 9635 13665
0300-0400	English	7115 7270 11544 21715	2000-2100	Turkish	5960 5980 7220 9460
0300-0400	Turkish	5960 5980 9445 9460			9560 11910
		11885	2030-2130	English	7170
0400-0700	Turkish	9445 9460 11750 11910	2100-2200	Turkish	5960 5980 7220 9445
		11955 17580 17690			9460 9560 11910
		21715	2200-2300	English	7190 11845
0700-0800	Georgian	11690	2200-2300	Turkish	5960 5980 9445 9460
0700-0830	Azerbaijani	11730 17755			9560 11885
0700-0900	Turkish	9460 11750 17580	2300-2400	Turkish	5960 5980 9445 9460
		11955 15350 21715			9560 11885
0800-0900	Macedonian	11690	(BC-DX/Bueschel-GER)		
0830-0930	Persian	11795 17705	UKRAINE Radio Ukraine International		
0900-1000	Turkish	9460 11955 15350 21715	0000-0100	English	5905 7320 9640 13590
0900-1100	Arabic	11690 17600	0100-0300	Ukrainian	7320 9640 13590
0930-1030	Hungarian	13770	0300-0400	English	7320 7410 9640 11840
0930-1030	Rumanian	11930			13590
1000-1100	Turkish	9460 11955 15350 21715	0400-0500	Ukrainian	7320 7410 9620 11840
1000-1500	Turkish	17630 Fr			13590
1030-1130	Greek	9630 11930	0500-0800	Ukrainian	7410 9620 11705 11840
1100-1200	Chinese	21530			13590
1100-1200	Turkish	9460 11955 15350 21715	0800-0900	Ukrainian	9620 11705 11840
1130-1230	Albanian	11875	0900-1100	Ukrainian	15135
1130-1230	German	17760	1100-1200	English	15135
1200-1300	Turkish	9460 11955 13655	1100-1400	Ukrainian	12045
		15350 21715	1400-1500	Ukrainian	9560 9640 11840 12045
1200-1300	Urdu	17715	1500-1600	Ukrainian	6020 9560 9640 11840
1230-1330	English	17810 17830			12045
1230-1400	Persian	15180	1600-1700	Ukrainian	5905 6020 9560 9640
1300-1400	Russian	15450			11840 12045
1300-1400	Turkish	9460 11955 13655	1700-1800	German	5905 9560 9640 11840
		15350 21715			12045
1330-1400	Serbian	11860	1700-1800	Ukrainian	6020
1330-1430	Bulgarian	9870	1800-1900	Ukrainian	5905 6020 9560
1400-1500	Azerbaijani	11865	1900-2000	Ukrainian	5905 7410 9560 11705
1400-1500	Turkish	9460 11955 13655			11950
		15350 21715	2000-2100	German	5905 7410 9560 11705
1400-1600	Arabic	15225 17790			11950
1430-1530	Greek	9655	2000-2300	Ukrainian	13590
1500-1600	Kazakh	11860			

2100-2200	English	5905 7410 9560 11705 11950 13590	0300-0330	English	3255M 5975An 6005As 6135D 6175Sa 6190M 6195R 7120M 9410S/W 11730Se 12035C 12095C 15310Ma 15360K 15380N 15575Ma 17760N 17790N 21660N 21830C
2300-2400	German	5905 7410	0300-0345	Spanish	5995D 6110An 7325R/S 9515D
2300-2400	Ukrainian	13590	0330-0400	Bulgarian	5875R 9915C Mo-Fr
Alexander Yegorov—DX editor of RUI. Warm Regards, (Alokesh Gupta-IND/BC-DX/Bueschel-GER)			0330-0400	English	3255M 5975An 6005As 6135D 6175Sa 6190M 6195R 7120M 9410S/W 11730Se 12035C 12095C 15380N 15310Ma 15420Se 15575Ma 17760N 17790N 21660N 21830C
UNITED KINGDOM Strap yourselves in...here's the complete Merlin schedule!			0330-0445	Arabic	7140C 9875C 11740S 13660S 15185Ma
BBC World Service			0345-0400	Spanish	5995D 6110am/An 7325S/ R 9515D Tu-Sa
0000-0030	Burmese	6065N 9600Ma 11850K	0400-0415	Romanian	5875R Mo-Fr
0000-0030	English	3915K 5965Ma 5975An 6175Sa 6195K 7105K 9410C 9590D 9915S 11945Y 11955Ma 12095As 15280N 15310N 15360K 17615N 17790K	0400-0415	Serbian	6130W 7210R 9710S
0000-0115	Spanish	5875R/S 6110An/As 9925As 11765As	0400-0430	Russ Casia	13645R 17720C
0030-0100	BBC English	9600K 17615N	0400-0430	Swahili	7105As 9610M 11730Se
0030-0100	Bengali	6065N 9790Ma 11850K	0400-0430	Turkish	6010C 9915R Mo-Fr
0030-0100	English	5965Ma 5975An 6175Sa 6195K 7105K 9410C 9590D 9915S 11955Ma 12095As 15280N 15310N 15360K 17790K	0400-0500	English	3255M 5975An 6005As 6135D 6175Sa 6190M 6195R 7120M 9410S/W 12035C 12095C 15280N 15310Ma 15420Se 15575Ma 17640C 17760N 17790N 21660N 21830C
0100-0130	Hindi	6065Ma 7320C 11740Ma 13745Ta 15380N	0400-0500	Ukrainian	7130L 9895R 11770C Mo-Fr
0100-0200	English	5965Ma 5975An 6175Sa 6195K 9410C 9590D 9915S 11955Ma 12095As 15280N 15310N 15360K 17790K Mo-Sa	0430-0445	BBC English	6010C 9915R
0115-0130	Spanish	5875R/S 6110An/As 9825As 11765As Tu-Sa	0430-0445	Hungarian	9840C 11865S Mo-Fr
0130-0200	Urdu	6065Ma 7320C 11740Ma 15380N	0430-0500	French	6155As 7105As 17885Se
0200-0230	Pashto	11685Ma 13780C 15470C 17640N	0430-0500	Portuguese	3390M 6135M 7205M
0200-0230	Russ Casia	7320C 9825R 11845C	0445-0500	Serbian	9915R 11845C 13680R
0200-0300	English	5975An 6135D 6175Sa 6195R 9410C 9770Se 9915S 11955Ma 12095As/C 15280N 15310N 15360K 17790K	0445-0600	Arabic	7140C 7325W 9825R/S 11740C 13660C 15185Ma 9915R 11845C Mo-Fr
0230-0300	Hindi	11685Ma 15405N 17615N 17655Ir	0500-0515	Croatian	9915R 11845C Mo-Fr
0230-0330	Persian	9875C 11750Ma 15470C	0500-0515	Romanian	9875C
0230-0330	Russian	5875R 7130R 9510R 9670C 9875C 11845R 13745C Mo-Sa	0500-0530	English	6175D 6190M 6195R 7160As 5975An 6005As 9410S 9740K 11760Ma 11765M 11940M 11955R 12095C 15280N 15310Ma 15360K 15420Se 15575C 17640C 17760K 17790N 17885Se 21660N
0245-0300	BBC English	9610Se	0515-0530	Romanian	9875C Sa/Su
0300-0315	Romanian	6130R Mo-Fr	0529-0559	Great Lakes	15400M 17885Se Sa
0300-0329	Swahili	6050M 9610Se 11865C	0530-0545	BBC English	9875B 11675C Sa/Su
0300-0330	Arabic	7140C 11740S 13660S	0530-0545	Hungarian	9875B 11675C Mo-Fr
			0530-0600	Albanian	9915C 11845C 13680R

0530-0600	English	6175D 6190M 6195R 7160As 5975An 6005As 9410S 9740K 11760Ma 11765M 11940M 11955R 12095C 15310Ma 15360K 15420Se 15575C 17640C 17760K 17790N 21660K Sa	0705-0730	English	6175D 6190M 9410S 9580S 9740K 11760Ma 11765As 11940M 11955R 12095W 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17790Ma 17830R 17885Se 21660K Sa/Su
0530-0600	English	6175D 6190M 6195R 7160As 5975An 6005As 9410S 9740K 11760Ma 11765M 11940M 11955R 12095C 15310Ma 15360K 15420Se 15575C 17640C 17760K 17790N 17885Se 21660K Su-Fr	0705-0730	English	6175D 6190M 9410S 9580S 9740K 11760Ma 11765As 11940M 11955R 12095W 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17790Ma 17830R 21660K Mo-Fr
0530-0600	Hausa	6155As 7105As 9610As	0730-0800	English	6175D 6190M 9410S 9580S 9740K 11760Ma 11765As 11940M 11955R 12095W 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17790Ma 17830R 21660K Mo-Fr
0545-0600	BBC English	9875B 11675C			
0600-0615	Russian	9635R 11670R 13750R 15335C 17720C			
0600-0629	French	7105As 9610As 13740S 15405C			
0600-0700	English	6005As 6175D 6190M 6195R 7160As 9410S 9580S 9740K 11760Ma 11765M 11940M 11955R 12095W 15310N 15360K 15485S 15565R 15575C 17640C 17760K 17790Ma 21660K Mo-Fr	0730-0800	English	6175D 6190M 9410S 9580S 9740K 11760Ma 11765As 11940M 11955R 12095W 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17790Ma 17830R 21660K Mo-Fr
0600-0700	English	6005As 6175D 6190M 6195R 7160As 9410S 9580S 9740K 11760Ma 11765M 11940M 11955R 12095W 15310N 15360K 15485S 15565R 15575C 17640C 17760K 17790Ma 17885Se 21660K Sa/Su	0745-0945	Pashto	12030Ma 17720C Fr
0600-0715	Arabic	7140C 7325W 9825S 13660C 15185C	0800-0805	English	6190M 9580S 9740K 11940M 11955R 12095W 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17790Ma 17830As 17885Se 21470Se 21660K 21830R
0700-0705	English	6005As 6175D 6190M 9410S 9580S 9740K 11760Ma 11765As 11940M 11955R 12095W 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17790Ma 17830R 17885Se 21660K Sa/Su	0800-0810	Bengali	11685N 15405N 21780Ta
0700-0705	English	6005As 6175D 6190M 9410S 9580S 9740K 11760Ma 11765As 11940M 11955R 12095W 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17790Ma 17830R 21660K Mo-Fr	0800-0815	Romanian	15190R
0700-0729	French	15105As 17695M	0800-0815	Russian	11680R 13745R 15325R 17695L
0705-0720	BBC English	6005As	0800-0900	Turkish	6015C 9410C Su
			0805-0900	English	6190M 9740K 11940M 11955R 12095W 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17830As 17885Se 21470Se 21660K 21830R 15405N 17655Ir 17790N 21780Ta
			0810-0820	Hindi	15405N 17655Ir 17790N 21780Ta
			0820-0830	Urdu	15405N 17790N 21780Ta
			0900-0915	Turkish	6015C 9410C Mo-Fr

0900-0930	English	6190M 6195K 9740K 11760Ma 11940M 12095W 15190As 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17790Ma 17830As 17885Se 21470Se 21660K	1100-1120	English	5965Sa 6190M 6195An/K 9740K 9815N 11760Ma 11940M 11955N 12095W 15190As 15220An 15280N 15310N 15400As 15485S 15565R 15575C 17640S/W 17700Ma 17790As 17830As 17885Se 21470Se 1100- 1120English5965Sa 6190M 6195An/K 9740K 9815N 11940M 11940M 11955N 12095W 15220An 15280N 15310N 15400As 15485S 15565R 15575C 17640S/W 17700Ma 17790As 17830As 17885Se 21470Se Mo-Fr 7135K 9680K 11920K
0930-1000	BBC English	11945K 17655N			
0930-1000	BBC English	9605Y			
0930-1000	English	6190M 6195K 9605Y 9740K 11760Ma 11940M 11945K 12095W 15190As 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17655N 17760K 17790Ma 17830As 17885Se 21470Se 21660K	1100-1130	Indonesian	11680B
0930-1000	Russian	11845C 13745R 15325R 15335C 17695L Su 15175Ma 17870C Th/Fr	1100-1130	Romanian	6110Gv 6130D 9670An 15190As Mo-Fr
0945-1130	Persian	9410C 11970C	1100-1130	Spanish	9605Y 11945K
1000-1015	Bulgarian	11845C 13745R 15325R 15335C 17695L	1120-1130	Mandarin	5965Sa 6190M 6195An/K 9740K 9815N 11760Ma 11940M 11955N 12095W 15190As 15220An 15280N 15310N 15400As 15485S 15575C 17640S/W 17700Ma 17790As 17830As 17885Se 21470Se Sa/Su
1000-1015	Russian	6190M 6195An/K 9740K 11760Ma 11940M 12095W 15190As 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17790Ma 17830As 21660K Mo-Fr	1120-1130	English	5965Sa 6190M 6195An/K 9740K 9815N 11760Ma 11940M 11955N 12095W 15220An 15280N 15310N 15400As 15485S 15575C 17640S/W 17700Ma 17790As 17830As 17885Se 21470Se Mo-Fr
1000-1030	English	6190M 6195An/K 9740K 11760Ma 11940M 12095W 15190As 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17790Ma 17830As 21660K Sa/Su	1120-1130	English	5875S 9410C 9635R/S 11680B 11895R 15325R/W 17625L
1000-1030	English	6190M 6195An/K 9740K 11760Ma 11940M 12095W 15190As 15310N 15360K 15400As 15485S 15565R 15575C 17640S/W 17760K 17790Ma 17830As 21660K Sa/Su	1130-1200	BBC English	5965Sa 6190M 6195An/K 9740K 9815N 11760Ma 11940M 11955N 12095W 15220An 15280N 15310N 15485S 15575C 17640S/W 17700Ma 17830As 17885Se 21470Se
1000-1100	Mandarin	9605Y 9815N 11945K 11990V 15280N 17655N	1130-1200	English	9680K 11835K
1015-1030	BBC English	11845C 13745R 15325R 15335C 17695L Fr-Su	1130-1230	Pashto	15175Ma 17870C Th
1015-1030	BBC English	9410C 11845C 11970C 13745R 15325R 15335C 17695L Mo/Tu/We/Th	1130-1230	Persian	15175Ma 17870C Fr
1030-1045	Serbian	11680B 13650C 15325R 6190M 6195An/K 9740K 11760Ma 11940M 12095W 15190As 15310N 15400As 15485S 15565R 15575C 17640S/W 17885Se 17790Ma 17830As 21470Se Sa/Su	1200-1215	BBC English	7135K 11835K
1030-1100	English	6190M 6195An/K 9740K 11760Ma 11940M 12095W 15310N 15485S 15565R 15575C 17640S/W 17885Se 17790Ma 21470Se Mo-Fr	1200-1215	Russian	11865C 13670R 15325C 17625L
1100-1115	Croatian	11895R 15235R Mo-Fr	1200-1220	Bulgarian	9410C 11680B

1200-1220	English	5965Sa 6190M 6195An/K 9515Sa 9740K 9815N 11760Ma 11940M 11955N 12095W 15220An 15280N 15310N 15485S 15565R 15575C 17640S/W 17700Ma 17830As 17885Se 21470Se	1345-1430	Burmese	7135K 9680K 11740K 15595C
1200-1230	French	15105R 17780As 21640As	1400-1415	BBC English	11860Se 15420Se 21490C Mo-We
1200-1630	Arabic	7140C 11820C 13660S 15180R 15555C 17585S	1400-1415	Croatian	7110B 11980R Mo-Fr
1215-1230	Russian	11865C 13670R 15325C 17625L Mo-Fr	1400-1415	Serbian	11845R 13645R 15325R Mo-Fr
1215-1300	Hungarian	9635B 11895S Su	1400-1415	Somali	11860Se 15420Se 21490C Th-Fr
1220-1230	Bulgarian	9410C 11680B Sa/Su	1400-1430	English	6195K 6190M 9515Sa 9815N 11865F 11940M 12095W 15220Sa 15310Ma 15485S 15565R 15575C 17640S/W 17700Ma 17830As 17840An 21470As 21660C Mo-Fr
1220-1230	English	5965Sa 6190M 6195An/K 9515Sa 9740K 9815N 11760Ma 11940M 11955N 12095W 15220An 15280N 15310N 15485S 15565R 15575C 17640S/W 17700Ma 17830As 17885Se 21470Se	1400-1430	English	6195K 6190M 9515Sa 9815N 11865F 11940M 12095W 15220Sa 15245R 15310Ma 15485S 15565R 15575C 17640S/W 17700Ma 17830As 17840An 21470As 21660C Sa/Su
1230-1245	BBC English	15105R 17780As 21640As	1400-1430	Kazakh	11780N Mo-Fr
1230-1300	English	5965Sa 6190M 6195An/K 9515Sa 9740K 9815N 11760Ma 11940M 11955N 12095W 15220An 15280N 15310N 15485S 15565R 15575C 17640S/W 17700Ma 17830As 17885Se 21470Se	1400-1430	Kazakh	15245R Mo-Fr
1230-1315	Albanian	11680B 13755C 15225R Su	1400-1430	Ukrainian	12020L 13685S 15130R
1235-1300	Thai	7135K 9680K	1400-1445	Hindi	6140Ma 7205N 9865Ta 11920Ma 15520C
1300-1330	English	5965Sa 6190M 6195An/K 9515Sa 9740K 9815N 11760Ma 11865F 11940M 12095W 15220An 15310N 15420Se 15485S 15565R 15575C 17640S/W 17700Ma 17830As 17885Se 21470As	1400-1500	Russian	12005C 13745R 15225W 15365C Mo-Fr
1300-1330	Spanish	6130D 9670D 15325Gv Mo- Fr	1415-1500	Somali	11860Se 15420Se 21490C
1300-1345	Indonesian	7135K 9680K 11740K 15340Ma	1430-1500	English	6195K 6190M 9515Sa 9815N 11865F 11940M 12095W 15220Sa 15310Ma 15485S 15565R 15575C 17640S/W 17700Ma 17830As 17840An 21470As 21660C
1300-1530	Mandarin	6045Ki 7245N 9605Y 12025V 15285K	1430-1500	Vietnamese	7135K 9510K 11740K
1315-1330	Albanian	11680B 13755C 15225R	1430-1530	Persian	6195R 15470C 17860R
1330-1345	BBC English	15105As 21640As	1445-1500	BBC English	7205N 11920Ma
1330-1400	Bengali	7225N 9865Ta 11835K	1500-1530	English	5975N 6190M 6195K 9515Sa 9815N 11940M 11860Se 11865F 12095W 15220Sa 15310Ma 15400As 15420Se 15485S 15565R 17700Ma 17830As 17840An 21470As 21490M 21660C
1330-1400	English	5965Sa 6190M 6195An/K 9515Sa 9740K 9815N 11760Ma 11865F 11940M 12095W 15220An 15310N 15420Se 15485S 15565R 15575C 17640S/W 17700Ma 17830As 17885Se 21470As	1500-1530	Nepali	9865Ta 11685K 15540K
1345-1415	Hausa	15105As 17810As 21640As	1500-1530	Romanian	9840C
			1500-1545	Urdu	7205N 9680K 11920Ma 15520C
			1500-1600	Turkish	5875C 11780L 13645R
			1500-1800	Russian	9635C 11845C 13745R 15225W 17630R
			1515-1545	Sinhala	6140Ma 9510K
			1530-1545	BBC English	11685K 15540K

1530-1600	English	5975N 6190M 6195K 9515Sa 9815N 11865F 11940M 12095W 15220Sa 15310Ma 15400As 15420Se 15565R 17700Ma 17830As 17840An 21470As 21660C	1630-1700	English	3915K 5975N 6190M 6195K 7160K 9410C 9515Sa 9740K 11860Se 11940M 12095W 15310Ma 15400As 15420Se 15485S 15565R 17700Ma 17830As 17840An 21490M 21660C Sa/Su
1530-1615	Pashto	6195R 15470N 17870R	1630-1700	Great Lakes	11860Se 21490M Mo-Fr
1530-1615	Swahili	11860Se 15420Se 21490M	1630-1800	Arabic	6030Ma 7140C 11680R 11820C 13660S 15180R
1545-1615	Tamil	6140Ma 7205N 9510K	1700-1715	Croatian	11865S 13645R Mo-Fr
1600-1615	English	3915K 5975N 6190M 6195K 7160K 9410C 9515Sa 9740K 11940M 12095W 15310Ma 15400As 15485S 15565R 17700Ma 17830As 17840An 21470As 21660C Mo-Fr	1700-1730	Albanian	6050C 11955W 15585W
1600-1615	English	3915K 5975N 6190M 6195K 7160K 9410C 9515Sa 9740K 11940M 12095W 15310Ma 15400As 15485S 15565R 17700Ma 17830As 17840An 21470As 21660C Sa/Su	1700-1730	English	3255M 3915K 5975N 6005Se 6190M 6195R 7160K 9410C 9510Ma 9630Se 9740K 12095W 15400As 15420M 15485S 15575N 17830As 17840Sa 21470As
1600-1630	Bulgarian	6050W 11960S	1700-1730	Hindi	6065Ma 7205K 7235N 9605K
1600-1630	Serbian	5875C 9780S 11680B	1700-1730	Hungarian	11770W 13720S
1600-1630	Ukrainian	9535C 11705L 13645R	1700-1730	Uzbek	9915C 12045Mo 15310S
1615-1630	English	3915K 5975N 6190M 6195K 7160K 9410C 9515Sa 9740K 11860Se 11940M 12095W 15310Ma 15400As 15420Se 15485S 15565R 17700Ma 17830As 17840An 21470As 21490M 21660C Sa/Su	1700-1800	Azeri	5875C 12005B 15495W
1615-1630	English	3915K 5975N 6190M 6195K 7160K 9410C 9515Sa 9740K 11940M 12095W 15310Ma 15400As 15420Se 15485S 15565R 17700Ma 17830As 17840An 21470As 21490M 21660C Sa/Su	1730-1745	BBC English	3390M 7230M 9525M Su/ Tu/Th/Fr/Sa
1615-1630	English	3915K 5975N 6190M 6195K 7160K 9410C 9515Sa 9740K 11940M 12095W 15310Ma 15400As 15420Se 15485S 15565R 17700Ma 17830As 17840An 21470As 21660C Mo-Fr	1730-1745	BBC English	3390M 6050C 7230M 9525M 11955W 15585W Mo/We
1615-1630	Swahili	11860Se 21490M Mo-Fr	1730-1745	Urdu	6065Ma 7205K 7235N 9605K
1615-1700	Persian	6090Ma 6195R 9915C 15470N 17870N	1730-1746	English	3255M 3915K 5975N 6005Se 6190M 6195R 7160K 9410C 9510Ma 9630Se 9740K 9915C 12045Mo 12095W 15310S 15400As 15420M 15485S 15575N 17830As 17840Sa 21470As Su
1630-1700	BBC English	5875S 9535C 9660S 11705L 13645R	1730-1746	English	3255M 3915K 5975N 6005Se 6190M 6195R 7160K 9410C 9510Ma 9630Se 9740K 9915C 12045Mo 12095W 15310S 15400As 15420M 15485S 15575N 17830As 17840Sa 21470As Su
1630-1700	Bengali	5990N 78205K 9605K	1730-1800	Russ Casia	9915C 12045Mo 15310S Sa
1630-1700	English	3915K 5975N 6190M 6195K 7160K 9410C 9740K 11940M 12095W 15310Ma 15400As 15420Se 15485S 15565R 17700Ma 17830As 17840An 21660C Mo-Fr	1730-1800	Russian	12045Mo Mo-Fr
			1745-1746	Uzbek	9915C 15310S Mo-Fr
			1745-1746	Sig6	7230M
			1745-1800	BBC English	6065Ma 9605K
			1746-1800	English	3255M 3915K 5975N 6190M 6195R 7160K 9410C 9510Ma 9740K 12095W 15400As 15420M 15485S 15575N 17830As 17840Sa 21470As Mo-Sa

1746-1800	English	3255M 3915K 5975N 6190M 6195R 7160K 9410C 9510Ma 9740K 9915C 12045Mo 12095W 15310S 15400As 15420M 15485S 15575N 17830As 17840Sa 21470As Su	2100-2115	English	3255M 3915K 5965N 5975An/K 6005Se 6190M 6195C/K/R 9410C 9740K 11835S 11945Y 12095As 15400As Sa/Su
1746-1800	Swahili	6005Se 7230M 9630Se	2100-2115	English	3255M 3915K 5965N 5975K 6005Se 6190M 6195C/K/R 9410C 9740K 11835S 11945Y 12095As 15400As Mo-Fr
1800-1830	English	3255M 5975N 6190M 6195R 9410C 9510Ma 9740K 12095W 15400As 15420M 15575N 17830As 17840Sa 21470As	2100-2120	Bulgarian	6050R 7255R Mo-Fr
1800-1830	French	7230M 15105As 15180R 17885As 21630As	2100-2130	Hungarian	5875C 9635C
1800-1830	Romanian	6050C	2115-2130	English	3255M 3915K 5965N 5975K 6005Se 6190M 6195C/K/R 9410C 9740K 11835S 11945Y 12095As 15400As Sa/Su
1800-1830	Somali	6005Se 9630Se 15450W	2115-2130	English	3255M 3915K 5965N 5975An/K 6005Se 6190M 6195C/K/R 9410C 9740K 11675An 11835S 11945Y 12095As 15390Gv 15400As Mo-Fr
1800-1900	Russian	5875C 9635C 11845C 13745R 15225W	2130-2145	English	3255M 3915K 5965N 5975An/K 6005Se 6190M 6195C/K/R 9410C 9740K 11680R 11835S 11945Y 12095As 15400As Tu/Fr
1800-2115	Arabic	6030Ma 7140C 9915C 11680R 13660S	2130-2145	English	3255M 3915K 5965N 5975An/K 6005Se 6190M 6195C/K/R 9410C 9740K 11680R 11835S 11945Y 12095As 15400As Tu/Fr
1830-1900	English	3255M 6005Se 6190M 6195R 9410C 9630Se 9740K 12095W 15400As 15420M 15575N 17830As 17840Sa 21470As	2145-2200	English	3255M 3915K 5965N 5975An/K 6005Se 6190M 6195C/K/R 9410C 9740K 11835S 11945Y 12095As 15400As Su/Mo/We/Th/Sa
1830-1900	Persian	6090Ma 7210N 11970N	2200-2300	English	5965N 5975An/K 6175Sa 6195K/R 7105K 9410C 9590Sa 9660Br 9740K 11835S 11955K 12080Br 12095As 15400As
1900-1915	Bulgarian	11730R	2200-2300	Indonesian	3915K 5875R 6080K 9740K
1900-2000	English	3255M 6005Se 6190M 6195R 9410C 9630Se 9740K 12095W 15400As/ M 15575N 17830As Su-Fr	2200-2300	Mandarin	6035Ki 7160N 9875R 11945Y 15280N 17615N 6180C 7205C 9760C Fr-Su 9575As 11765An 15390As
1900-2000	English	3255M 6005Se 6190M 6195R 9410C 9630Se 9740K 12095W 15400As/ M 15575N 17830As 17840Sa Sa	2215-2245	C	6180C 7205C 9760C Fr-Su
1900-2000	Russian	5875C 7325C 9635C 11845R 13745R 15225W Mo-Sa	2300-2330	Vietnamese	6080K 7160N 9740K
1900-2000	SLBC	6010S Sa	2300-2400	English	3915K 5965An/N 5975K 6035Ki 6175Sa 6195K/R 7105K 9410C 9590Sa 9740K 11835S 11945Y 11955K 12095As 15280N 6080K 7160K Sa/Su
1915-1930	BBC English	15105As 17885As	Other broadcasters		
1915-2000	Bulgarian	6050C 11730R Sa/Su	0000-0030	ABC	21615Ti
1930-2000	Hausa	11855As 15105As 17885As	0100-0300	NHK Japn	11860K
1930-2000	Turkish	11730R Mo-Fr	0100-0300	VOV	9525SA
2000-2015	Albanian	6050C 7205S 12010R Mo-Fr	0130-0200	RTE	6155R
2000-2015	Romanian	6185R	0130-0230	RAI Italian	6110As 11765As
2000-2015	Serbian	6175R 7295W 9840C			
2000-2030	Russian	5875C 7325C 9635C 11845R 13745R 15225W Mo-Fr			
2000-2100	English	3255M 5975K 6005Se 6190M 6195C/R 9410C 9630Se 9740K 11835S 12095As/W 15400As 17830As			
2030-2100	BBC English	5875C 6050R 9635C			
2030-2100	Portuguese	3390M 6135M 7205M 11855As 13700R 15105W			

Commander Charlie Puckett, KSM State Representative, reached on Thurs by e-mail, said that KSMR "is a news stn and emergency communication alternative to the main stream media that has run amuck!" "The station," he said "is almost finished and ready for full operation "

Broadcasts, he continued, "will be monitored by various people in our organization for content and professionalism It is in our rules that (it) not interfere with any other bc stn in any way! (KSMR) will be approx 10 KC's from WWFV to accomplish this goal."

WWFV is a licensed SW radio station owned and operated by Dave Frantz. It is known to relay programming recorded by Christian religious groups and various militias.

KSMR "is a first amendment stn protected by the second amendment," Puckett said, citing the free speech amendments to the U.S. Constitution.

Acc to monitoring reports across the American East Coast, the stn occasionally bcs on 3260 and 6890 at 0300-0400 with an annnd 500 watts. Regular programming is scheduled for early January to coincide with a "massive" multi-state militia meeting in Norm Creek, Kentucky, on April 5.

Denying a report that KSMR bc responses on top of a txion by WWFV last Dec, Puckett said "the bc was in no way related to us. We would never tolerate such irresponsible behavior."

KSMR, having been confirmed by CRW as operating on behalf of the Kentucky State Militia, marks the first time in a decade that a "gray" clandestine radio stn has been launched on the shores of the United States. While the last gray bc, originating from a Puerto Rican farm in 1990, was aimed at the Cuban govt, this latest stn has directed its propaganda against the U.S. federal govt.

It is likely that the Federal Communications Commission (FCC), which enforces the radio spectrum in accordance with the Section 301 of the Communications Act of 1934, will take aim at KSMR. Without a solid national monitoring infrastructure, however, playing a game of cat and mouse with the stn will be a challenge for the govt. The FCC has not "busted" an unlicensed SW radio stn in nearly five years.

Nevertheless, should the FCC pay a visit to KSMR the question is not whether the KSM will resume txions from another location. No, the question is whether or not the armed militia group will defend a stn they believe is firmly protected by the U.S. Constitution. (Nick Grace C.-DC-USA, CRW, Mar 9/BC-DX/Bueschel-GER)

[I believe this station has already left the air as of this writing...AQ]

VIETNAM Voice of Vietnam

0000-0030	Cambodian	7285
0000-0100	Vietnamese	7145 11630
0030-0100	Lao	7285
0100-0130	English	9525Sa
0130-0230	Vietnamese	9525Sa
0230-0300	English	9525Sa
0300-0330	Spanish	9795Sa
0330-0400	English	9795Sa
0400-0500	Vietnamese	9795Sa
0830-0930	Mandarin	12020 15115
0930-1000	Indonesian	12020 15115
1000-1030	English	12020 15115
1030-1100	Indonesian	12020 15115
1100-1130	English	7285
1100-1130	Spanish	11630 13740
1130-1200	Russian	12020 15115
1130-1200	Thai	7285
1200-1230	Cambodian	7285
1200-1230	Japanese	12020 15115
1230-1300	English	12020 15115
1230-1300	Lao	7285
1300-1330	French	9730 or 11630 13740
1300-1330	Russian	7285
1330-1400	Cambodian	7285
1330-1400	English	9730 or 11630 13740
1400-1430	Japanese	12020 15115
1400-1430	Lao	7285
1430-1500	Cantonese	7285
1430-1500	Indonesian	12020 15115
1500-1530	Mandarin	7285
1500-1530	Thai	12020 15115
1530-1600	Cantonese	12020 15115
1630-1700	English	9730 or 11630 13740
1700-1730	English	12070Ru
1700-1800	Vietnamese	9730 or 11630 13740
1730-1800	Russian	12020 15115
1730-1830	Vietnamese	12070Ru
1800-1830	English	9730 or 11630 13740
1830-1900	French	12070Ru
1900-1930	English	9730 or 11630 13740
1900-1930	Russian	12030Ru
1930-2000	French	9730 or 11630 12030 13740
2000-2030	Spanish	11630 13740
2030-2100	English	9730 or 11630 13740
2100-2130	French	9730 or 11630 13740
2130-2200	Japanese	12020 15115
2200-2230	Mandarin	12020 15115
2230-2300	Cantonese	12020 15115
2300-2330	Thai	12020 15115
2300-2400	Vietnamese	1242
2330-2400	English	12020 15115

Ru=Russia
Sa=Sackville

(leaflet Rumen Pankov, FCC A-01/BC-DX/Bueschel-GER)



Pirate Radio Report

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

Hi and welcome to the April edition of the **Pirate Radio Report**. Well, *Winterfest 2001* is now history and if all the reports I've received are accurate, a good time was had by all. A word to the wise: If Tony Straka hands you a cup of punch, don't drink it!

Another Weiner Radioship?

Is this Déjà vu or what? A couple of years ago I was reporting on the progress that Allan was having with the *MV Electra* as it was being outfitted at the Bang Shipyard in East Boston. That ship sailed only to be seized off the coast of South Carolina and sold at auction to pay bills due by the owner. I understand Allan Weiner and his disbarred lawyer friend Scott Becker were cruising the Winterfest in a limo talking about a new radioship the *MV Katy* being readied in Boston for the destination of Belize. Maybe three is golden and this one will make it. More info as it becomes available.

Kentucky State Militia Radio-KSMR

An outlet which was more of a clandestine station than a pirate was first heard in early March with a regular schedule on 3260 kHz USB mode from 0300-0400 UTC. The program was broadcast by "Major" Steve Anderson of the Kentucky State Militia in Somerset, KY. Programming included details of a militia meeting at Norm Creek and the telephone numbers of other state militia organizations. The last transmission seems to have been on March 21st. Info from Cumbre DX & The Clandestine Radio Watch indicates that Anderson was ordered to stop broadcasting by the Kentucky State Militia who was warned to stop broadcasting by the FBI. [They said they weren't going to QSL anyway, so I say, what good are they? [CL]] [Brandi-NJ, Zeller-OH]

Loggings...

Alfa Lima International, the best heard Europirate was logged on 3 March at 1815 UTC on 15070 kHz with pop music. [Alexander-PA] Also noted on 6936.1 kHz on March 18th at 0240 UTC with techno music. [Brandi-NJ]

Free Radio Service Holland was logged here in MA with a test broadcast to North America on 9297.5 kHz at 0544 UTC on March 25th with pop music, IDs and letters read from listeners. [Lobdell-MA]

Indira Calling was heard on March 25th at 0303 UTC on 6955 kHz playing both Indian and Beach Boys music. They were ORMed at 0317 by a station playing old WW II propaganda broadcasts. [Fisher-MA]

Laser Hot Hits was logged on this side of the Atlantic on 16 March at 0503 UTC on 6220 kHz with a program called "Pirates Of The Airwaves" [Brandi-NJ]

Jean Chretien Station who made the quote "We will not let them tear them down" world famous was logged on 17th of March on 6950 USB at 0149 UTC. [Zeller-OH]

Radio Free Euphoria was logged on March 10th at 0458 UTC with station ID and Belfast address on 6956 kHz. This transmission may have come from the Winterfest. [Field-MI]

Radio Neptune's Universal Service was noted on March 18th at 0634 UTC on 6950 kHz. Songs by the Blues Brothers, crank phone calls, ID and address were given. Reception was hampered by a drift transmitter. [Brandi-NJ]

Radio Nova International, a UK Europirate, continues its 24 hour test schedule on 9290 kHz. Heard at 0035 on March 4th with Europops and IDs. [Alexander-PA] Noted on 18th of March at 0239 UTC. [Comeau-MA] Their address for reception reports is 64 Brighton Road, Leicester LE5 0HA, England.

Radio Spaceman, another Dutch Europirate, was logged on 4 March at 0030 UTC with technopops on 6305.91 kHz. [Alexander-PA]

Reflections Europe, the Sunday-only Irish Christian pirate was logged at 2320 on 6295 kHz on March 18th with a program called "Call To Worship". Power is reported at 500 watts. [Brandi-NJ]

Until next month, Happy Pirate DX! 

QSL Report

Sam Barto • 47 Prospect Place • Bristol, CT 06010



ANTIGUA: BBC World Service 5975 via **Caribbean Relay Company Ltd.** f/d friendly and informative ltr. in 24 ds. for 1 IRC. v/s David George. Reported to and rcvd. reply directly from Antigua. (Brouillette-IL). f/d ltr. from P.O. Box 1203, St. John's. (Lawrenson-RI).

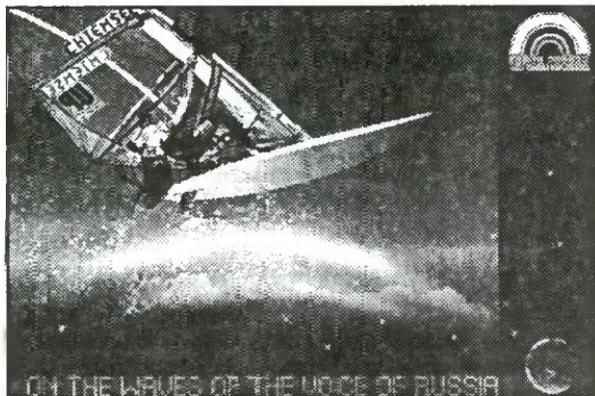
ASCENSION ISLAND: Radio Japan 21630 f/d "After the Season's First Snow" cd. w/ schedule, newltr. & station info. in 2 mo. (Barto-CT).

ASIATIC RUSSIA: Voice of Russia 7205 new style cd. in 1 mo. (Barto-CT). This was via **Vladivostok**. 7305 via **Vladivostok** p/d cd. in 2 mo. (Barto-CT). 4010 p/d cd. in 1 mo. for the VOR CH program. (Barto). 9775 via **Chita** f/d "The People's Frie-

VERIFICATION SIGNERS: La Voz del Upano 4870 Leonor Guzman, Directora. **Voice of the Broad Masses** 7100 v/s Mehret-eab Testagiorgis, Chief Engineer. Addr: Radio Division, P.O. Box 872, Asmara, Eritrea. **Radio Pilipinas** 15190 v/s Tanny Rodriguez, Secretaria. Addr: Philippine Broadcasting

Service, 4th Floor, Media Center, Visayas Avenue, Diliman, Quezon City, Metro Manila 1103, Philippines. **Info. Radio** 7285 v/s Jeroen Rommerts, Station Manager.....via PLAY DX.....Sam.

ndship Fountain" cd. in 2 mo. (Barto). p/d cd. in 7 wks. (Barto-CT). 6145 via **Komosomolsk** p/d cd. in 1 mo. (Barto). 15560 f/d cd. in 3 mo w/ schedule and a personal ltr. (Barto). 13665 via **Komosomolsk-na-Amur** f/d "Waves" cd. in 6 wks. w/ schedule. 15560 p/d cd. in 3 mo. (Barto) 9900 via **Irkutsk** f/d cd. in 2 mo. (Barto). f/d "Waves" cd. in 3½ mo. w/ schedule and personal ltr. (Barto). f/d cd. in 5 wks. (Barto). 7355 f/d cd. in 2 mo. w/ schedule. (Barto-CT). 12025 via **Novosibirsk** f/d cd. in 6 wks. (Barto). 12055, 15490 and 17665 p/d cds. in 1½ mo. w/



personal ltr. (Barto). 15490 and 17665 p/d cd. in 2 mo. (Barto). 7315 f/d cd. in 3½ mo w/ sticker and sked. (Barto-CT). 7340 via **Petropavlovsk Radio Centre** p/d cd. in 1½ mo. (Barto). old style Radio Moscow cd. in 2 mo. (Barto). 5930 and 7340 f/d cd. in 2 mo. (Barto). 12020 f/d cd. w/ schedule in 2 mo. (Barto). 15470 and 12020 f/d "Woman Sailing" cd. in 6 wks. w/ schedule. (Barto-CT).

Radio Nederlands 12065 via **Petrovavlovsk** p/d cd. in 2 mo. (Barto).

AUSTRIA: Radio Austria International 7325 f/d "Mirabelle-garten" cd. in 19 ds. for 1 IRC. (Brouillette-IL).

BOINAIRE: Radio Vlaanderen International 13660 f/d "Gaasbeek Castle" cd. w/ sticker in 19 ds. for 1 IRC. (Brouillette).

CANADA: Radio Sweden International * 9560 via **Sackville** f/d cd. in 11 ds. (Craighead-KS).
Radio Canada International 13665 via **Sackville** f/d cd.

Adventist World Radio (AWR), the Seventh-day Adventist Church's international radio service, broadcasts the gospel in 50 languages using shortwave, AM and FM radio, satellite distribution and Internet, 1200 hours every week! The company designed and commenced the 57th World Congress of the Seventh-day Adventist Church in Toronto, Canada, 29 June through 8 July 2000.



MARK HUNENYK

QSL. ADVENTIST WORLD RADIO QSL.
Verification of Reception
Thank you for your reception report which we are pleased to verify.
Station AWR Location WHR12
Frequency 6040 Date 9-7-00
Power 100 kW Time 1200 UTC
Signature [Signature] DX EDITOR

VERIFIED

VERIFICATION SIGNERS: Radio Rio Mar 9695 v/s Jairo de Sousa Coelho, Diretor da Dentral de Programacao. Addr: Rua Jose Clemente, 500 Centro, CEP 69010-070 Manaus, Amazonas, Brasil. **Radio Trans Mundial** 9530 Addr: C.P. 18300, Sao Paulo, SP., Brasil. **Radio Voz do Coracao Imaculado** 4885 v/s Frei (Padre) Pedro M. Morlando. Addr: C.P. 354, Anapolis, GO CEP-75001-970, Brasil. **Sistema LBV Mundial** 11895 v/s Gizelle Tonin de Almeida, Secretaria. Addr: Avenida Rudge 938, Bom Retiro, CEP-01134-000 Sao Paulo, SP., Brasil. **Colmundo Bogota** 6065 v/s Jairo Aguirre, Gerente. **Radio Rebelde** 5025 v/s Maribel Santa Colome, Secretaria. Addr: Casilla 6277, CP-10600, Habana, Cuba....via PLAY DX....Sam.

The Democratic Voice of Burma

Dear listener,

We thank you for your report and we are very pleased to confirm that you have heard the Democratic Voice of Burma on 23/12, 1997 at 1480 to 1525 GMT, on 15140 KHz. Our transmitters have an output power of 500KW and the log-periodic antenna SW-A3 is being used.

Best regards,

The Democratic Voice of Burma

in 1 mo. (Barto). **Radio Telefis Eireann** 13640 via **Sackville** f/d "Irish Landscapes" cd. in 29 ds. (Klinck-NY).
CHINA, PEOPLES REP. OF: China National Radio - Minority Service 15670, 11630, 11375 and 10260 f/d "Mount Taishan in Shandong" cd. in 7 wks. (Barto).
CLANDESTINE: Finote Democracy Voice of * Ethiopian Unity 11990 via **Julich DTK**

p/d ltr. from Los Angeles in 6 wks. This was very similar to a ltr. I received from France just 2 wks. earlier for the same LA rpt. (Craighead-RVN). **Voice of Ethiopian Unity** 9430 and 11179.9 p/d ltr. in 5 wks. (Barto-CT). **Voice of Oromo Liberation** 11725 via **Julich DTK** p/d ltr. in 5 wks. (Barto-CT).

CYPRUS: BBC Eastern Mediterranean Relay Station f/d ltr. from Merlin Communications. v/s Michelle Franks. (Lawrenson-RI).

ENGLAND: Radio Liberty 15195 via **Woofferton** f/d ltr. in 1 mo. v/s David Walcutt (Barto). **Radio Canada International** 13740 via **Skelton** f/d "1981 IYDP" cd. w/ sticker and schedule in 3 wks. (Barto). 11935 f/d "50th Anniversary" cd. w/ blue and white plastic pennant in 1 mo. (Barto). 9805 via **Woofferton** f/d "Logo" cd. in 1 mo. w/ schedule & stickers. (Barto-CT). **Radio Telefis Eireann** 9895 via **Skelton** f/d "Irish Landscape" cd. in 5 wks. (Barto)



Date of reception 29/10/99 Time 2100 - 2305
Frequency 7325 Craighead
Signal Strength 3 Interference 5 Noise (Atmospheric) 4
Propagation (Fading) 4 Overall Performance 2

Global Sound Kitchen is a joint venture between Motive Communications, the international media planning agency for Levi Strauss and GINGER Media Group, the UK's leading television production and radio broadcasting company.

Transmission takes place each week on showtimes via Merlin Network One & via Astra 1G satellite

For more information visit the Global Sound Kitchen website
www.globalsoundkitchen.com

QSL CARD No. 10 THANK YOU FOR LISTENING THANK YOU LEV'S

With following details we verify that you heard a transmission from Trans World Radio.

Transmitter location Petroparvorsk, Russia
Date February 19 1999
Time 12.00 - 13.00 UTC
Frequency 1895 kHz
Wavelength 163 metres
Power 200 kW

Thank you for your reception report. You will automatically receive a copy of our next transmission schedule. We wish you joy as you listen to our programmes. Receiving regular reports helps us to serve our listeners well. We look forward to hearing from you again.



Trans World Radio

Broadcasting the Gospel worldwide

BP 349, MC 99007 Monaco
P.O. Box 141, A 1325 Vieux
P.O. Box 176, NL 3780 Voorhuizen

Mrs. Chrysanthia Dolos

EUROPEAN RUSSIA: Voice of Russia 13615 via **MOSCOW** p/d cd. in 2 1/2 mo. w/ ltr. and schedule. 13705 and 17660 p/d cd. in 3 mo. (Barto). 5940 and 9480 f/d cds. in 2 mo. w/ sked and station sticker. Ltr. was rcvd. (Barto). 12055 f/d cd. in 6 wks. (Barto). f/d "Waves" cd. in 2 mo. (Barto-CT). 6045 f/d cd. in 2 1/2 mo. w/ schedule. (Barto). f/d cd. in 2 mo. (Barto). 9490 f/d cd. w/ schedule in 3 mo. (Barto).

f/d "Waves" cd. in 7 wks. (Barto). 15470 and 15460 p/d cd. in 3 mo. (Barto). 9480 f/d cd. in 7 wks. (Barto-CT). 7340 f/d cd. in 2 mo. (Barto). 5965 via **Samara** f/d cd. in 2 mo. (Barto). 7390 f/d "Waves" cd. in 7 wks. w/ personal ltr. and schedule (Barto). 7420 f/d cd. in 3 mo. (Barto). 17675 p/d cd in 2 1/2 mo. (Barto). 9800 f/d cd. in 5 wks. (Barto). 12045 f/d cd. in 6 wks. w/ schedule (Barto). **World Beacon Radio** 7420 via **Krasnodar** n/d cd. in 3 wks. w/ schedule and station info. (Barto). **Radio Rossii** 12045 via **Saint Petersburg** p/d cd. in 2 mo. (Barto). **Voice of Russia** 7290 via **Saint Petersburg** f/d "Talk to the World" cd. in 7 wks. (Barto-CT). 9890 f/d cd. w/ schedule in 6 wks. (Barto). 5950 old "Radio Moscow" style cd. in 2 mo. (Barto). 5940 via **Krasnodar** f/d cd. in 2 1/2 mo. (Barto). 7250 p/d cd. in 8 wks. (Barto). 15535 f/d



ANHANGUERA AM

TO: Mr. Jerry Klinck

11943 Big tree Rd.
E. Aurora, NY 14052
USA

We would like to thank you for your report about our Rádio Anhanguera transmission in 02/11/1999, at the frequency of 4.915 KHz, band of 60 meters, between 21H06 and 21H36 UTC. We also confirm the precision of the details

VERIFICATION SIGNERS: Radio Costena Ebenezzer 4930.6 Ivan Franco (e-mail at: CASASP@YAHOO.COM) also ltr. signed by Ricardo E. Hedman T., Departamento de Radio. **All India Radio** 5040 **Jeypore** A. Chanti Babu, Assistant Chief Engineer. Addr: AIR Jeypore, 764005 Jeypore, India. e-mail at: AIRJEP PORE@USA.NET. **Radio Republik Indonesia** 4753 **Makassar** Mr. Mukidi, Kepala Stasiun. Addr: Jalan Ribu-rane 3, Makassar, P.O. Box 1103, Makassar 90011. **Voice of Iran** 6020 Addr: P.O. Box 19395-6767 Teheran, Iran. **Galei Zahal** 15785 Military P.O. Box 10005, Israel. **World of Life** 3985 via **Italian Radio Relay Service** George A. Haas, Secretary/Treasurer. Addr: P.O. Box 221, ZIP-47172-0221 Sellersburg, IN...via **PLAY DX**....Sam.

"White Rose" cd. w/ personal ltr. and schedule in 2 mo. (Barto-CT).

Working Till Jesus Comes
The Romans Map To Heaven

Romans 3:23-"For all have sinned, and come short of the glory of God."

Romans 6:23-"For the wages of sin is death; but the gift of God is eternal life through Jesus Christ our Lord."

Romans 5:8-"But God commended his love toward us, in that, while we were yet sinners, Christ died for us."

Romans 10:9,10-"That if thou shalt confess with thy mouth the Lord Jesus, and shalt believe in thine heart that God hath raised him from the dead, thou shalt be saved. For with the heart man believeth unto righteousness; and with the mouth confession is made unto salvation."

Romans 10:13-"For whosoever shall call upon the name of the Lord shall be saved."



WORLDWIDE
FBN
A Beacon
of Hope To a
Lost and
Dying World

Thanks for your reception report which was found to be correct.
DATE: 10/23/99 TIME: 2000-2015 UTC
STATION: WTJC FREQUENCY: 9370
SIGNED: *A. Robinson* KcR

7300 f/d cd. in 6 wks. (Barto). **Voice of the Mediterranean** 7440 via **MOSCOW** f/d "Gardjola Watch Tower" cd. in 7 wks w/ schedule. (Barto-CT). **GERMANY: Radio Santec** 9435 via **Julich** f/d cd. w/ schedule and station sticker in 5 wks. (Barto). 15530 f/d cd. in 10 ds. (Craighead-KS). **Sudwest-rundfunk - SWR3** 7265 via **Rohrdorf** large f/d cd. in 2 mo. w/ stickers and schedule. (Barto).



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

Dear Mr. Jerry Kinck,
Thank you for your Reception Report of 13.11.2000 at 01:03-04:34 UTC.
It is my pleasure to confirm that this was a broadcast of Radio Uganda originating from
our Kampala transmitter on 4976 KHz.

Thank you for your interest.
B. Naebel
Rachel Nakibwika
for PRINCIPAL ENGINEER (B)
15.12.1999. 2000

**Global Ministries of
United Methodist Church**
15485 via Julich f/d
ltr. in 2 wks. v/s Donna
Niemann, Program Produ-
cer. (Craighead-KS). same
in 3 wks. but the ltr.
called their station
**Radio Africa Internat-
ional** (Barto-CT). **Radio
Nederlands** 21490 and
15315 via Julich p/d
"Pen on the Blaricum
Heather" cd. in 2 mo.
(Barto). **Voice of Hope**
11985 via Julich large
f/d cd. in 3 mo. w/
station sticker and sch-
edule. (Barto-CT).

VERIFICATION SIGNERS: Radio Wave International 7120 P.O. Box 130, FR-
92504 Rueil-Cedex, France. v/s Peter Hills. **Voice of the Mediterran-
ean** 11770 v/s Prof. Gnurant Dante Alfredo Gallerati, QSL Manager.
Addr: P.O. Box 143, La Valletta, CMR 01, Malta. **Voice of Forgiveness**
15535 via Far East Broadcasting Association Addr: Production Team,
P.O. Box 11-2302 Beirut, Lebanon.

Radio Station ELWA 4760 v/s Moses T.
Nyantee, Station Manager. Addr: Sudan
Interior Mission - Liberia, 08 Boite
Postal 886, Abidjan 08, Ivory Coast.
via PLAY DX.....Sam.

Muchas gracias por su reporte de recepción del
día 31. Mayo.00 Hora 20.10
via Sgrulletta
Somos una Emisora Cultural Educativa del VICA-
RIATO APOSTOLICO DE PUERTO MALDONADO
fundada el 23 de Noviembre de 1957.

Nuestro objetivo es servir y acompañar a una pobla-
ción muy discriminada en esta difícil y aislada geografía.
Estamos en zona de selva tropical amazónica del
Perú. Nuestro clima es cálido y húmedo. La vegetación
es exuberante y tropical.

Le deseamos muchas y felices DX.

Pto. Maldonado, 23/09/00
Teleg. 571050



GUAM: Adventist World Radio f/d cd. in 1
mo. v/s Marine West. (Lawrenson-RI).

**GUATEMALA: Radio Verdad - Estacion Educa-
tiva Evangelica** 4052.4 f/d 2 page ltr.
w/ paper station pennant, calendar and
business cd. v/s Dr. Edgar Amilcar Ma-
drid Morales, Director and Manager.
(Barto-CT).

HAWAII: KWHR f/d cd. in 1 mo. (Lawrenson).
ISRAEL: Galei Zahal Radio 6973 f/d "Micro-
phone Head" cd. in 28 ds. for 1 IRC.

(Brouillette-IL)...Paul says that he loves the "retro-look" design of
the Galei-Zahal QSL cd.Sam. 15785 same cd. in 3 mo. (Barto-CT).

KALININGRAD: Voice of Russia 7130 f/d cd. in 7 wks. (Barto-CT).

KOREA, REPUBLIC OF: Radio Canada International 9680 via Kimje f/d "World
DX Friendship Year - 1973" cd. in 1 mo. w/ sticker, schedule and pen-
nant. (Barto-CT).

LEBANON: Voice of Hope 11515 p/d personal ltr. in 11 mo. from Limassol,
Cyprus. v/s Ruth. Also
rcvd. schedule w/o
sites. New addr: P.O.
Box 3379, Limassol.
(Craighead-KS).

LIBYA: Radio Jamahiriya
f/d cd. in 1 mo. (Law-
renson-RI).

**MALAGASY REPUBLIC: Radio
Nederlands** 7280 p/d
cd. in 2 mo. (Barto).
6020 and 11655 f/d
"Sheep Jaula" cd. in
1½ mo. w/ schedule and
several calendar stick-
ers. (Barto-CT).

Certificado de Sintonía

**Radio MADRE
de DIOS
PERU**

Estimado Sr. John Sgrulletta:

Muchas gracias por su informe de recepción. Tenemos el gusto de
confirmar su control de nuestra emisión en 4950 kHz de
fecha 31.05.2000 a las 20.10 horas de PERU
con 5.0 vatios de potencia.



sello oficial

STATE OF QATAR

MINISTRY OF INFORMATION
Qatar Broadcasting Department
DOHA

دولة قطر
وزارة الاعلام
ادارة الاذاعة

Your reception report dated Glotzbach

Frequency 9570 KHz

Date 20 August 2000 Time 1855-1908 GMT

Thank you for your reception report and we are glad to Conform it.

Hoping to hear from you in future.

Q. S. L

With regards
Head of Public Relations,
Exchange and Research

JASSEM MOHAMMED AL-QATTAN

MOLDOVA: Voice

of Russia
7125 via Ki-
shinyov f/d
"Multi Cult-
ural Head w/
Headphones"
cd. in 2 mo.
(Barto-CT).

QATAR: Qatar
Broadcasting
Service 17895
f/d "Logo/
Map" cd. in
35 ds. after
3 f/up rpts.
for a 99 re-

ception. Also rcvd. flag sticker, form ltr., map of Qatar and station brochure. v/s Jassim Mohammed al-Qattan, Head of Public Relations, Exchange and Research Dept. (Brouillette-IL)...Worth the wait.

ROMANIA: Radio Romania Actualitati 7105 and 9625 f/d "Nicolae Titulescu" cd. w/ colorful stickers and schedule in 5 wks.(Barto).

RUSSIA: Voice of Russia 6170 p/d cd. w/ schedule in 1 mo.(Barto). 11640 and 12000 p/d cd. in 1½ mo. (Barto). 9665 f/d cd. in 2½ mo.(Barto). 15170 p/d cd. in 3 mo.(Barto)...All w/o sites.....Sam.

SAUDI ARABIA: Broadcasting Service of the Kingdom of Saudi Arabia 15060

and 11818.5 p/d ltr. in 3 mo.(Barto). 15277.8 p/d ltr. w/ schedule in 3½ mo.(Barto). 15161.8 p/d ltr. in 2 mo.(Barto).

SICILY: Armed Forces Network f/d ltr. (Lawrenson-RI).

SOUTH AFRICA: Radio Canada International 15325 via Meyerton f/d "1981 IYDP" cd. in 3 wks (Barto). f/d cd. in 1 mo.(Barto).

SPAIN: Radio Liberty 9520 and 7220 via Playa de Pals f/d

DX-TOPICS

Amalienweg 8, 85551 Kirchheim

An: Mark A. Humayek HCJB

Hiermit wird bestätigt, daß Sie den Beitrag

DX-Topics über Radio HCJB am 15.07.2000

um 21.03 UTC auf 17795 kHz gehört haben.

Vielen Dank und gut DX!

K. Reibold
Karsten Reibold

Dieter K. Reibold
Dieter K. Reibold

DTK
Das DX-Team Kirchheim



ltr. in 1 mo. v/s David Walcutt. (Barto-CT).

SPANISH MOROCCO: Radio Liberty 15370 and 17895 via Briech f/d ltr. in 1 mo. v/s David Walcutt. (Barto-CT).

SRI LANKA: Voice of America f/d cd. in 1 mo.(Lawrenson-RI). **Radio Japan** f/d cd. in 1 mo. v/s Yoshiki Fushimi.(Lawrenson-RI).

Q S L

Certificado de Sintonía

RADIO ESPERANZA, CE-609, Onda corta (SW) Banda de 49 m. en 6.090 KHz. de la ciudad de Temuco, en la República de Chile, certifica que

HA SINTONIZADO NUESTRA EMISORA, Radio Esperanza, el día 15 de Julio a las 11:00 (Hora UTC) 11:00 (Hora de Chile) y que su Informe de Sintonía es correcto y se transmitió el día y hora indicados.

RADIO ESPERANZA, de Temuco, Chile, le agradece su Informe de Sintonía y le saluda fraternalmente en Cristo.

**TAIWAN: Central**

Broadcasting System 11885 p/d cd. w/ news ltr., several different types of stickers, schedule and report forms in 2 mo.(Barto).

THAILAND: Bangkok Meteorological Radio 6765.1 & 8743 f/d ltr. in 3 mo. v/s Ms. Busara Na

Ranong. Station history and information was sent. (Barto-CT).

USA: WSHB 15665 f/d cd. w/ schedule in 5 wks. (Barto). WTIR 1680 ltr. in 3 mo. (Barto-CT).

USA (Pirates): Z100 6955 n/d e-mail reply in 2 hrs. v/s Bill Kelly. Use: bigz100fm@yahoo.com (Wilkins-MO) Bill says his QSL numbers are getting as low as the temperatures....Sam.

WFCC Wonderful Free Communication Company 14565.1 via Radio Blanque home made f/d cd. for \$1.00. (Kusalik-ALB). WHYP 6955 special QSL sheet for Halloween in 1 mo. (Kusalik). I should of put under So. Amer.

USA (Really out there somewhere): Somerset Realty Station 4868.2 rcvd. * ltr. from the broker who says the house I mentioned was on sale and the agent mentioned in the broadcast worked for them but he knew nothing about the station.

FM HIT
105.5



NAVAL MEDIA CENTER
2701 S. Capitol St. SW
Washington, DC 20373-5819
Dec. 7th, 1998



Dear Richard A. D'Angelo,

This letter serves as confirmation of your 29 July, 1998 reception of Armed Forces Radio and Television. The signal originates from Naval Computer and Telecommunications Area Master Station, Key West, Florida and Naval Computer and Telecommunications Station, Puerto Rico at 12689.5 and 6458.5 KHz.

AFRTS shortwave radio transmissions have historically existed to provide AFRTS radio service to U.S. Navy vessels and outlying military posts receiving limited American radio or television through other means. The signals will be in existence for a limited time until a new technology, which is currently being tested, allows for reception of AFRTS via satellite.

We are pleased that you have received the AFRTS shortwave signal and thank you for your interest and confirmation of the signal's quality.

Wayne E. Eternicka
Wayne E. Eternicka
Broadcast Operations Specialist

Is this a QSL? (Field-MI). This reminds me of the movie As Good As It Gets. I don't think we can expect very much more from the real estate industry. I have actually verified a few of these real estate stations. They usually transmit on 1610 or 1620 kHz. I'll actually take a photo of the sign with the residence in the background, I figure if I'm close enough to take a picture, I'm close enough to hear it. Hi. Sam

UZBEK: Radio Nederlands
5905 via Tashkent p/d cd w/ schedule and stickers in 2 mo. (Barto).

VENEZUELA: Ecos del Torbes
4980 p/d "Tri-color Map"

cd. in 314 ds. for a SP rpt. and \$1.00. (Brouillette-IL).

NOTES: Ed Kusalik checks in and says that he only has Goa, Sikkim and Abkhazia left to verify, except for the all time favorite Swan Isl. and. Paul Brouillette says QSLing used to be fairly easy but now the reply rates seem to be down a bit. I'll agree to that...Sam. I also want to thank George Glotzbach for the information on the IBRA.

See you all next month with another QSL Column.

RADIO CONTINENTAL
100.0 MHz

FM HIT
105.5

QSL

VERIFICACION DE LA RECEPCION

Señor:
Samuel Barto

Confirmamos su recepción de nuestra estación RADIO CONTINENTAL del día 19/02/00 en la frecuencia de 15820 KHz., a las 18:25 horas de UTC.

LS4 RADIO CONTINENTAL S.A.
Buenos Aires - Argentina

Sam

Net Notes

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

The Winter SWL Festival was a blast, and the countdown to #15 in 2002 has begun. We have 2001 pictures; if your 'fest photo page is not linked, please tell us.

Pentti Lintujärvi of Helsinki, Finland, prepares the Web pages for 1000 Lakes DX Page (www.geocities.com/Colosseum/Park/3232/dx.htm) and dxlinks.com (www.dxlinks.com/). He's been mucking about in the search engines again and found these broadcasters now on the Web: NBC - National Broadcasting Corporation of Papua New Guinea - www.nbc.com.pg/; RTD - Radio Television de Djibouti - www.rtd.dj/; and Radio Lesotho - www.lesotho.gov.ls/radio/Radiolesotho/.

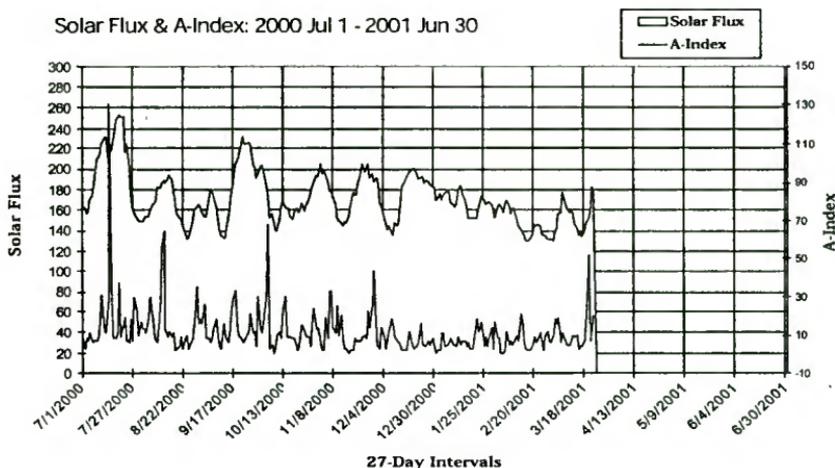
Dmitri Mezin, of Kazan, Russia, started a DX bulletin service called "Signal" in languages of Russian and English. Both include loggings of Russian DXers. The Russian-language edition additionally includes highlights of news currently circulating on the Web. Want to see what the ex-Soviet bloc listeners are finding? Dial into listen.to/dxsignal and have a read. Mezin adds that he has been having trouble with e-mail and suggests those writing him use info@dxsignal.5og.com.

Are you looking for beam headings or grid coordinates to locate labels on a map (such as SunClock or GeoClock)? Take a look at Global Gazetteer, a directory of 2.9 million "of the world's cities and towns and linked to a map for each town." The pages are not pretty but they work. Each linked page actually includes weather data, airport information, and three Mercator projection maps at different zooms, plus links to more details. Start the journey at www.calle.com/world/.

The controversial Australian talk show host John Laws has appeared in the press numerous times, and Radio Netherlands' Media Network had a feature on him in 2000. Outside of Australia, we hadn't heard the actual show. That's now changed. Now Laws can be heard worldwide via 4BC, a talk radio format station, in Brisbane, at www.4bc.com.au/. You'll need the Windows Media Player. Tune in early; the Web servers get busy.

The Laws show is scheduled Monday through Friday from 9 a.m. to 12 Noon Australian Eastern Standard Time. Brisbane does not shift time between winter and summer, so check the 4BC Web site to see if the program has moved an hour relative to your location.

Solar Flux & A-Index: 2000 Jul 1 - 2001 Jun 30



Scoreboard

Fred S. Kohlbrenner • 214 West Marshall Road • Lansdowne, PA 19050 • fkohl@ix.netcom.com

This month we are highlighting our members totals from Africa. The next deadline is June 15th for the July 2001 issue of the Journal. The spotlight then will be on Asia.

Name, State	Total		Africa		Best Africa qsl
	c/H	c/V	c/H	c/V	
James Young, CA	251	233			
Edward Kusalik, ALB	249	245	66	66	Reunion, 2446
Dan Henderson, MD	246	241	66	65	ORTF Reunion
Marlin Field, MI	243	243	66	66	Mt. Nyeri, Kenya
Jerry Berg, MA	242	240	64	64	R. Clube Tenerife
William Flynn, OR	241	227	63	57	Azores, 4865
John Sgrulletta, NY	239	239	65	65	Comoros Is.
Gerry Bishop, FL	238	223	63	57	R. Bunia
Harold Cones, VA	234	232			
Steven Lare, MI	231	213	60	50	Mauritius
Don Hosmer, MI	227	195	61	46	Malawi
Nobuaki Takahashi, JAPAN	226	201	64	56	R. Cordac
Richard A. D'Angelo, PA	222	217	58	56	R. Mogadishu
Sheryl Paszkiewicz, WI	222	214	58	56	Sierra Leone
Richard Davis, NM	221	213	56	54	Mauritius
Jerry Klinck, NY	220	197	59	56	EP Benguela
Paul Buer, FL	218	207	60	54	LV Isla Palma
Fred Kohlbrenner, PA	218	196	56	42	R Nac São Tome
Rick Krzemien, CA	217	212			
Christos Rigas, IL	217	197	56	45	St. Helena
Jerry Lineback, KS	214	109	60	32	St. Helena
Charles Washburn, ME	207	170			
Jerry Johnston, NY	206	136	56	27	R. Moundou
Dino Bloise, FL	205	85			
George Maroti, NY	199	175	52	40	R. Hargeisa
Stephen Price, PA	193	172	52	40	LNBS Lesotho
Bob Fleck, TX	188	165			
Allan R. Loudell, DE	188	160	50	37	Capital R Transkei
Jim Renfrew, NY	187	153	51	31	Enugu, Biafra
Ross Comeau, MA	185	158	50	35	RT Zanzibar
Gary Froemming, AZ	181	44	51	8	ZUD S. Africa
Andy Rugg, QUE	180	157	49	38	TWR Swaziland
Bill Bergadano, NJ	177	117			
Bob Raymond, NH	174	147	48	38	Eritrea
Mark Humenyk, ONT	169	137	44	32	Sentech (BBC)
Robert E. Gearing II, FL	155	122	44	23	Tanzania
Darren White, MS	154	110	41	18	Uganda
George L. Glotzbach, NM	145	110	26	20	GBC Ghana
Norm Constanti, MO	142	107	34	25	Ivory Coast
Gary R. Neal, TX	132	121	25	22	St. Helena
Jill Dybka, TN	129	99	30	18	St. Helena
Fred Willshaw, NC	120	78	25	13	Mauritania
Ronald J. Hunsicker, PA	110	98			
Gene Borowski, NY	95	85	12	9	TWR Swaziland
Bret Pollack, MD	82	54			
Ed Krucenski, FL	59	27	5	2	

Contributors' Page

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

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER , Mechanicsburg, PA	NRD-545 AOR AR-7030 100' LW
Jim BOYNTON , Newton, MA	Grundig YB-400, 23' indoor LW
Ralph BRANDI , Tinton Falls, NJ	AOR AR-7030, R8, 250' longwire
George BROOKINGS , OR	no equipment listed
Rich D'ANGELO , Wyomissing, PA	Drake R8B, Lowe HF-150, DX Sloper
Marlin FIELD , Hillsdale, MI	NRD-535D, Eavesdropper ant
Bob FRASER , Cohasset, MA	Sony ICF-2003 ICF-SW100S 2m LW
George GLOTZBACH , Santa Fe, NM	R8B ARA-60
Bob HILL , Littleton, MA	Sony 2010 120' dipole at 35'
Jerry KLINCK , East Aurora, NY	R8, HQ-180AX 80' longwire, 60' dipole
Fred KOHLBRENNER , Lansdowne, PA	Drake R8
Harold LEVISON , Phila, PA	Drake R8
Jerry LINEBACK , Scranton, KS	Icom 746 beverage antennas
William McGUIRE , Cheverly, MD	DX-380
Gary NEAL , Sugarland, TX	Grundig YB-400
Don NELSON , Beaverton, OR	no equipment listed
Ed NEWBURY , Kimball, NE	WJ-1000, R8, 60' sloper, 20' loop
Mike PACE , Tipton, IA	Drake SW2, MFJ1022
Sheryl PASZKIEWICZ , Manitowoc, WI	Sony 2010
Karl RACENIS , MI	Icom R-9000, Eavesdropper & Datong ants
Bob RAYMOND , Nashua, NH	R8B 20m 5/8 wave vertical
Wally RHYNE , Gastonia, NC	R8B, ICOM71A, ICF2010, longwire ant.
Betsy ROBINSON , Clinton, TN	Sony 2010 Indoor antenna
Ed TILBURY , Anchorage, AK	R-5000, T2FD ant
Gerald WITHAM , Keaau, HI	R8, 185' split LW, ANC-4

Another fine month. Nobody seems to read this part but those submitting via type written or printed loggings need not cut them into strips. Keep the loggings coming!

73

Bob Montgomery



Please remember that the new email address for the club is now

[<naswa@earthlink.net>](mailto:naswa@earthlink.net)

Tropical Band Loggings

Sheryl Paszkiewicz • 314 Riverview Drive, Apt 16 • Manitowoc, WI 54220 • spaszkiwicz@yahoo.com

I'm sorry but it was necessary to change my email address to: spaszkiwicz@yahoo.com. I hope not to have lost any loggings as a result.

- 2310 **AUSTRALIA ABC** 3/2 1212 EG vocals & talk (Line-KS)
- 2325 **AUSTRALIA ABC** 1/3 1026 mx & call-in show (Nels-WA) 3/7 1157 pops, vy poor (Line-KS)
- 2410 **NEW GUINEA Radio Enga** 1/6 0912 weak PNG pop mx, M in Tok Pisin (Nels-WA) 3/7 1150 OM in lang, poor (Line-KS)
- 2485 **AUSTRALIA ABC** 1/4 0906 call-in show (Nels-WA) 3/2 1213 EG vcl (Line)
- 3205 **NEW GUINEA R Sandaun** 1/3 0805 back on after many months, PNG pop mx, talk in Tok Pisin, did not do Port Moresby nx (Nels-WA) 3/20 1025 mx, poor (Uhle-OR) 3/4 1150 local pops, fair (Line-KS)
- 3215 **SULAWESI RRI Manado** 3/8 1250 Indo pop vocals, fair (Line-KS)
- 3220 **PAPUA R Morobe** 1/3 0803 orchestral mx, hill country mx, OM talk (Nels WA) 3/4 1200* pops, s/off w/conch horn, fair (Line-KS)
- 3235 **NEW BRITAIN Radio West** 1/3 0739 local mx countdown, Port Moresby nx 0800 (Nels-WA) 2/18 1140 local pop mx, chorus, anmts (Bran-NJ) 3/4 1149 OM in lang under ute (Line-KS)
- 3250 **KALIMANTAN RRI Banjarmasin** 3/4 1259 IS, vy poor (Line-KS)
- 3260 **NEW GUINEA R Madang** 1/4 0849 Western pop mx, OM talk (Nels-WA) 3/2 1156 local vocals, poor (Line-KS)
- 3265 **SULAWESI RRI Gorontalo** 3/4 1256 Islamic pgm, poor (Line-KS)
- 3270 **USA WWFV** 3/19 0440 EG Free America pgm, phone number (Uhle-OR)
- 3275 **PAPUA R S Highlands** 3/4 1147 pops, poor (Line-KS)
- 3315 **ADMIRALTY ISL R Manus** 1/4 0739 islands mx, sing-sing, talk (Nels-WA) 3/7 1148 lang pops, poor (Line-KS)
- 3325 **BOUGAINVILLE R Bougainville** 1/3 0800 OM TC, ID, natl nx (Nels-WA)
- 3325 **KALIMANTAN RRI Palangkaraya** 3/7 1159 IS, another station under (Line)
- 3330 **CANADA CHU** 3/7 1052 good with time anmts (Uhle-OR)
- 3335 **TAIWAN CBS** 3/7 1148 YL in CH (Line-KS)
- 3345 **MOLUCCAS RRI Ternate** 3/8 1251 Indo vocals (Line-KS)
- 3345 **NEW GUINEA R Northern** 1/3 0840 pop romantic mx, poss nx, at 0847 Ternate splattered up (Nels-WA)
- 3355 **NEW GUINEA R Simbu** 1/3 0853 pop mx, OM talk (Nels-WA) 2/15 1130 Western pop mx, talk, PNG NA 1202 (Bran-NJ) 3/2 1152 lang vcls (Line-KS)
- 3365 **INDIA AIR Delhi** 3/8 1257 subcont mx //4860, poor (Line-KS)
- 3365 **NEW GUINEA R Milne Bay** 1/3 0809 pop mx, hill country mx, YL talk beverage brought it to S7 under ute (Nels-WA) 2/15 1140 mix of mx incl disco versions of Fleetwood Mac, anmts, TC, ID, homily, NA (Bran-NJ) 3/2 1151 organ mx (Line-KS)
- 3373.5 **UJAPAN NHK Osaka** 1/6 0956 EG lesson, "Happy New Year," ID (Nels-WA)
- 3375 **NEW GUINEA R W Highlands** 1/5 0803 after many months of absence, brass band Marine hymn, local pop mx (Nels-WA) 3/2 1150 talk (Line-KS)
- 3385 **NEW BRITAIN R East** 1/3 0735 local pop mx countdown (Nels-WA) 3/4 1142 OM in lang (Line-KS)
- 3607.5 **UJAPAN NHK Tokyo** 1/6 0956 class mx, 3 + 1 TP, JP ID (Nels-WA)
- 3905 **NEW IRELAND R New Ireland** 1/3 0726 local mx, Port Moresby nx in EG & PD, various local names and islands, 0830 EG local nx (Nels-WA) 3/4 1255 Indo pops (Line-KS)
- 3959 **SULAWESI RRI Palu** 3/4 1255 Indo pops over AROs (Line-KS)
- 3976 **KALIMANTAN RRI Pontianak** 3/4 1254 YL in IN (Line-KS)

- *3985 **CLAND** *Vo Iranian Kurdistan* 2/16 0339 AR type mx, ID "Sawt al Kurdistan Iranian." (Bran-NJ)
- 3985 **ITALY IRRS** 2/14 0541 pop mx, sev Ids, UN program 0600 (Kohl-PA)
- 3985 **SOUTH KOREA** *Vo Hope* 3/8 1252 OM in KR, poor (Line-KS)
- 3999.9 **CHINA** *Nei Menggu* 3/8 1253 YL in CH, poor (Line-KS)
- 4009.9 **ASIATIC RUSSIA** *Vo Russia* 3/4 1225 OM in RS, fair (Line-KS)
- 4060.5 **CLAND** *Vo People of Kurdistan* 2/17 0355 mx, ID, Kurdish talk (Bran-NJ)
- 4319U **DIEGO GARCIA AFN** 1/4 1623 rock countdown pgm (Nels-WA) 2/17 2229 rock mx, canned IDs 2235 and 2239 (D'An-PA)
- 4606 **IRIAN JAYA RRI** *Serui* 3/8 1254 instl mx, fair (Line-KS)
- 4725 **MYANMAR R** *Myanmar* 2/3 1426 Western pop mx, weak (Nels-WA)
- 4753.3 **SULAWESI RRI** *Makassar* 3/8 1254 Indo pops (Line-KS)
- 4760 **KASHMIR AIR** *Leh* 3/8 1256 faint audio (Line-KS)
- 4760 **LIBERIA ELWA** 1/5 0625 hymns, very weak (Nels-WA)
- 4783.4 **MALI R** *Malienne* 2/17 0603 West Afr mx, IDs for FM station (Bran-NJ)
- 4789 **IRIAN JAYA RRI** *Fak-Fak* 3/8 1255 Indo pops, fair (Line-KS)
- 4800 **INDIA AIR** *Delhi* 3/8 1256 subcont mx (Line-KS)
- 4800 **LESOTHO R** *Lesotho* 2/13 0240 pop mx, lang talk, TP, anthem, ID, poss sermon & brief lite vocals (Kohl-PA) 2/17 0356 tribal vocals, talk, ID, 2+1 TP, YL with nx, group vocals (D'An-PA)
- 4810 **ARMENIA** *Vo Armenia* 2/24 0347 brief talk, vocals, chorus, ID, nx (D'An PA)
- 4819 **HONDURAS LV** *Evangelica* 3/20 1106 SP talk, mx (Uhle-OR)
- 4826.4t **PERU R** *Sicuaní* 2/27 1023 talk, vocals, poss ID, jingle, TC (Pasz-WI)
- 4840 **ECUADOR R** *Interoceanica* 3/01 1006 instl mx, Quechua talk, ID (Pasz-WI)
- 4845.2 **MOLUCCAS RRI** *Ambon* 1/5 1014 poor w/IN pop mx, anmts (Nels-WA)
- 4850 **UZBEKISTAN R** *Tashkent* 2/14 0220 Turkic type mx, IS, nx, mx (Bran-NJ)
- 4890 **PAPUA NBC** 3/13 0945 EG nx, mx, ID, poor (Uhle-OR) 3/1 1132 pop (Line)
- 4895 **SARAWAK R** *Malaysia* 3/1 1312 female pop vocals (Line-KS)
- 4900p **CHINA** *Vo Strait* 1/5 1535 //6115 CH pgm with YL anncr (Nels-WA)
- 4902t **SRI LANKA SLBC** 2/11 1448 subcont mx, TP, splatter from 4900 (Nels-WA)
- 4910 **AUSTRALIA ABC** 1/5 0823 phone talk, host Linda (Nels-WA)
- 4920 **INDIA AIR** *Chennai* 3/8 1256 YL in lang (Line-KS)
- 4925 **SUMATRA RRI** *Jambi* 1/5 1050 call to prayer, IN pop mx, ID 1058, nx, mx (Nels-WA) 3/8 1255 Mideast type mx, poor (Line-KS)
- 4960 **VANUATU R** *Vanuatu* 1/5 0658 Polynesian mx, YL in Pidgin (Nels-WA)
- 4970 **INDIA AIR** *Shillong* 2/21 0023 IS, OM talk, mx mixing w/something (Hill)
- 4990.9 **SURINAM R** *Apintie* 2/15 0413 Car Wash & other memorable songs, promo & ID 0432 (D'An-PA)
- 5000 **AUSTRALIA VNG** 1/6 0830 EG anmts, mixing w/JJY, WWV, WWVH (Nels)
- 5009.6 **MADAGASCAR R** *Madagasikara* 1/4 1605 drums, lang talk, exc (Nels-WA) 2/27 0255 IS, NA, Malagasy mx, ID by YL, Radio School feature (Bran-NJ)
- 5019.7 **COLOMBIA** *Ecos del Atrato* 2/24 0340 nonstop nx, IDs (D'An-PA) I think you meant nonstop mx?-sp
- 5020 **SOLOMON ISL** *SIBC* 1/3 0708 nx by YL, wx, 0713 ID, local mx (Nels-WA)
- 5020.5 **NIGER LV** *du Sahel* 2/24 2302* hilife vocals, FR ID, NA (D'An-PA)
- 5025 **CUBA R** *Rebelde* 3/13 1015 SP cmtry (Uhle-OR)
- 5027 **PAKISTAN PBC** *Quetta* 1/4 0145 M with prayers (Nels-WA)
- 5047 **TOGO** *Radio Lome* 1/4 2358 FR talk, signoff mx (Nels-WA)
- 5050 **TANZANIA R** *Tanzania* 2/3 1630 pop mx, talk in lang, faded (Nels-WA) 3/12 0211 ID, Afr pop mx, TP, Swahili nx (Bran-NJ)
- 5054.9 **COSTA RICA** *Faro del Caribe* 2/16 0438 long talks, relaxed mx, ID (D'Ang)
- 5070 **USA WWCR** 3/19 0129 EG Marvin Maddox Point of View, nx, ads (Uhle-OR)
- 5075 **CHINA** *Vo Pujiang* 2/4 1359 //3280, 4950 (Nels-WA)
- 5755 **USA KAIJ** 3/17 0445 EG Gene Scott, mx, good (Uhle-OR)

International Band Loggings

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

- 59488 **GUYANA V of Guyana** Georgetown in EG 0810-0930+, Koran recitations, relig tlk, Hindi vcls, lcl mx, promos, billboard, strong signal but muffled audio (Alexander PA 2/25)
- 59564 **COLOMBIA Caracol Villavicencio** in SP 1040, LA mx, DJ chatter, phone tlk, vg (Alexander 2/10)
- 5975 **GERMANY V of Hope** via Juelich relay in EG 0705, tlk, QTH, web site, preaching, ID (Witham HI)
- 6020 **CHINA CRI** Shijiazhuang in BG 1850, several ments of China, ID, //7140 (Witham HI 2/8)
- 6040 **CANADA RCI** Sackville in EG 0210, "Maple Leaf Mailbag", //9755, 11725, 11990, g (Boynton MA)
- 6110 **PHILIPPINES VOA** relay in EG 1310, Navy captain tlking abt submarine technology (Newbury NE)
- 6175 **CANADA BBC** relay Sackville in EG 0244, feature titled "Peaces and Places" (Pace IA 3/1) in EG 0200, Libya dictator Qadaffi calls Iraqi bombing a "Zionist plot" (Newbury NE 2/17)
- 6180 **BRAZIL R Nac da Amazonia** Brasilia in PT 0843, ethnic mx, phone interview (Newbury NE 2/21) in PT 2340, tlk, ID, request mail, QTH, ad, mx, late s/off at 2359 (Brandt NJ 2/19)
- 6205 **RUSSIA Vatican City** relay Irkutsk in Mandarin *2157, relig pgming, f (Alexander PA 2/23)
- 6230 **RUSSIA R Gardarika** in RS 2015-2104*, pop mx, ancmts, ID "Gardarika", nx? (Brandt NJ 2/16)
- 62493 **EQUATORIAL GUINEA R Nac** Malabo in SP 2135-2300*, variety of SP pops/ballads, lcl folk mx and some US pops, QRM, f-p (Alexander PA 1/27)
- 66736 **PERU R Andina** in SP 0040, OA folk mx, ancmts, ID, f (Alexander PA 2/28)
- 6937 **CHINA R Yunnan** Kunming in Vern 1240, operatic vcls, flute mx, ancmts (Paszkievicz WI 2/18)
- 7100 **ERITREA V of the Broad Masses** Asmara in Tigrinya 1830*, tlk, cool Horn of Africa mx, NA, weak signal but fairly readable (Tilbury AK 2/10) in Tigrinya 0325, IS, ancmts, ID's, in the clear until 0330 when Iran signed on same frequency (Brandt NJ 2/15)
- 7200 **GREECE VOA** relay in EG/Farsi 0300, end of EG svce, ID, rpt on Kuwait, ment of Pres Bush, into Farsi lang 0300, g (McGuire MD 2/26)
- 7215 **UZBEKISTAN R Tashkent** in EG *0100, lcl folk mx, IS, ID, nx, Ham QRM, //7105 (Alexander 3/3)
- 7230 **ITALY Adventist World Radio** in IT 0829, religious tlk, ID 0829 (Brandt NJ 2/9)
- 7230 **SLOVAKIA R Slovakia Int** in EG *0100, IS, ID, fgy, sked, political nx, g (McGuire MD 2/25)
- 7235 **SINGAPORE R Warna (SBC)** in Malaysian *2259, fanfare, nx, constant Ham QRM (Alexander 2/21)
- 7335 **RUSSIA R Free Chechnya Svobodnaya** St. Petersburg in RS 0400, ID's, best after 0400 as CHU time station was weaker than usual, //5935 (Field MI 2/24)
- 7335 **VATICAN STATE Vatican City** in EG 0143, message from Pope, f under CHU (McGuire MD 2/15)
- 7385 **RUSSIA BBC** relay Moscow in Uzbek 1715, tlk, mx, interview, ID, p (Witham HI 2/17)
- 7440 **RUSSIA V of Vietnam** relay Moscow in EG 1805, Asian nx, ID, political tlk, p (Witham HI 2/17)
- 7480 **PHILIPPINES FEBC** Manila in Khmer *2230, canned IS's, ID's, choppy plus QRM (Hill MA 2/19)
- 9280 **TAIWAN WYFR Family Radio** relay in Mandarin 1147, CH mx, EG lesson, ID (Raymond NH 2/19)
- 9385 **UKRAINE RUI** Kiev in EG 0150, pgm re Ukrainian mx, ID, QTH, fgy, sked, g (McGuire MD 2/26)
- 9445 **SWEDEN R Sweden** in SW 2005, nx, mentions of Sweden, mx, ID, into EG 2030 (Witham HI 2/17)
- 9535 **THAILAND R Thailand** in FR/EG 2025, FR pgming until 2030, into EG 2030 with ID, nx, mx, tlk on science items, into Thai at 2050, audio cut out several times during bcst (Kohlbrener PA, Klinck NY)
- 9540 **POLAND R Polonia** Warsaw in EG 2030, ID, tlk on ban on ads for alcoholic beverages (Klinck 3/3)
- 9540 **SINGAPORE Swiss R Int** relay in EG 1110, pgm abt the Alps, mailbag, ID, f (Raymond NH 2/25)
- 9550 **BANGLADESH Bangladesh Betar** Dhaka in EG 1815, long tlk(nx?), ID 1821, f (Raymond NH 2/21)
- 9555 **SRI LANKA VOA** relay in Tibetan *0000, IS, ID, regional nx, g (McGuire MD 2/23)
- 9560 **UKRAINE RUI** Kiev in EG 2200-2300, nx, lcl folk mx, f, //5905 (Alexander PA 2/23)

- 9570 **CUBA China R Int** relay in EG 1315, Israeli political nx, ID, cmntry on Canada's concern for US missile defense (Newbury NE 2/23)
- 9580 **GABON Africa #1** in FR/EG 2055, ID, interview with songwriter in FR & EG, mx (Klinck NY 3/3)
- 9605 **VATICAN STATE Vatican R** in FR/EG 0247, end of FR svce, to EG 0250, IS, ID, rpt on cardinals, g (McGuire MD 2/23)
- 9615 **BRAZIL R Cultural** in PT 2228, PT vocals w/o ancmts until ID 2251, QRN (Kohlbrenner PA 2/13)
- 9675 **ITALY RAI** Rome in EG 0052, rpt on state of Italian economy, up 2.8%, f (Fraser MA 2/15)
- 9695 **MOROCCO VOA** relay in Serbian 1825, rpt on Shoemaker space landing on Eros, ID (Witham HI)
- 9715 **IRAN VOIRI** Teheran in EG 2125, tlk on Iran situation, ID's, fqys, nx, sked (Klinck NY 3/3)
- 9730 **VIETNAM V of Vietnam** Hanoi in EG *1900, opening, ID, into nx, terrible signal (Hill MA 2/25)
- 97375v **PARAGUAY R Nac del Paraguay** in SP 0243-0259*, tlks, nx features w/remote rpts, ID, TC, s/off ancmts at 0255 followed by NA, g (D'Angelo PA 2/27)
- 9760 **PHILIPPINES VOA** relay in EG 1300, Bush congratulates Sharon on election victory, cmntry on US not seeking proactive role in Mideast peace tlks (Newbury NE 2/7)
- 9780 **YEMEN Republic of Yemen R** in EG1830, pop mx, items re Yemen, into AR 1900 (Tilbury 2/10)
- 9785 **THAILAND R Liberty** relay in Georgian 2000, numerous ID's, tlks, g (Witham HI 2/4)
- 9810 **SOUTH KOREA R Canada Int** relay in Mandarin 1254, IS, ID's, tlks, f/o 1315 (Field MI 2/19)
- 9840 **CHINA China R Int** Urumqui in EG 2145, CH lang lesson, ID, QTH, off at 2155 (Klinck NY 3/3)
- 9850 **GREECE VOA** relay Kavalla in EG 0200, ID, "News Now", rpt on Middle East, g (McGuire MD)
- 9870 **CHINA China R Int** Xi'an in Khmer 1248-1300*, CH lang lesson, flute, ID (Paszkiwicz WI 2/16)
- 9875nf? **LITHUANIA R Viltius** in EG 0030-0100*, nx, cmtrys on NATO and psychotherapy, mailbag, NA, "killer bee signal from new site in Lithuania" (Tilbury AK 2/22)
- 9910 **INDIA AIR** Aligarh in EG 2135-2230*, long tlk by YL, nice ;gm of lite Indian mx, nx 2200, cmntrys and discussions until 2230 s/off, weak sig, heavy QRM after 2200 (Tilbury AK 2/24)
- 9965 **ARMENIA V of Armenia** Yerevan in Armenian *0400, multi-lang ID's, instrum'l mx, s/off 0430, vg, //4810 (Alexander PA) in Armenian *1700, mx of Chopin, ID in EG, tlks, f (Witham HI 2/3)
- 9990 **EGYPT R Cairo** in EG 2140, ID, regional nx, ment of European Union, cmntry, g (McGuire MD 3/5)
- 11640 **SEYCHELLES FEBA** in Farsi 0305-0330*, regional mx, long relig tlk, mx, QTH, IS (Tilbury 2/24)
- 11640 **SOUTH AFRICA World Beacon R** in EG 1600, shouting relig tlks, ID (Newbury NE, Klinck NY)
- 11690 **JORDAN R Jordan** in EG 1635-1735*, US pops, instrm'ls, ID, nx, strong rtty QRM (Alexander PA)
- 11730 **PHILIPPINES R Pilipinas** in EG 1830-1930*, nx, mx, culinary tips, exc, //15195 (Tilbury AK 2/23)
- 11750 **MOROCCO VOA** relay in Serbian *1800, IS, ID, national & regional nx, g (McGuire MD 2/25)
- 11750nf? **MEXICO R Mexico Int** in EG 2210, DX pgm—ham radio in Cuba, ID, into SP 2225 (Klinck NY 2/6) in EG 2303, web QTH given, poor modul (Newbury NE 2/26) ED: Last logged here about 15 yrs ago
- 11779v **ITALY V of the Mediterranean** Rome in EG *0900, mail, Euro pops, g, Sundays only (Alexander PA)
- 11805 **SPAIN R Liberty** relay in RS 1655, OM tlk, mx, ID "Svabota", s/off 1700, f (Witham HI 2/17)
- 11810 **RWANDA Deut Welle** relay in EG 1935, cmntry on anti-goldmine campaign, ID (Klinck NY 3/3)
- 11820 **POLAND R Polonia** Warsaw in EG *1300, classical mx, IS, ID's (Paszkiwicz WI 2/5)
- 11830 **INDIA AIR** Delhi in Sanskrit *0125, "Akashvani" ID, fair signal but choppy (Hill MA 3/2)
- 11840nf **SRI LANKA SLBC** in Sinhala 1839-1848*, vcls, ex-11850 beamed to Mideast (Hill MA 3/6)
- 11840 **ECUADOR HCJB** Quito in EG 0410, "Musical Mailbag", laughs, relig mx (Boynton MA)
- 11910 **GERMANY Swiss Radio Int** relay Juelich in EG 1940, tlk re Swiss inventor, ID (Klinck NY 3/3)
- 11915 **SAO TOME VOA** relay in Kinyinwanda 0400, Afro nx & mx, ID, g (McGuire MD 3/5)
- 11935 **GERMANY Deut Welle** Wertachtel in SH *0300, IS, ID, rpt on Bosnia, //11965 (McGuire MD 2/23)
- 11945 **SPAIN REE** Noblejas in SP *2300, ID, rpt on earthquake in El Salvador, g (McGuire MD 2/14)
- 11990 **KUWAIT R Kuwait** in EG 1810, tlk re Iraq occupation during Gulf war, pop mx, g (Boynton MA)
- 12085 **SYRIA R Damascus** in EG 2140, US pop mx, cmntry on Israeli elections, exc (Klinck NY 2/6)
- 12579usb **DIEGO GARCIA AFRN** in EG 1710-2030+, pop vocals, short features, website, CBS nx, anecdotes, very difficult reception w/horrible ute QRM (Tilbury AK 2/23, Klinck NY 2/6)
- 13675 **UNITED ARAB EMIRATES R Dubai** in EG 0340, feature: "Arab Scientists", vg (Rhyne NC 2/25)
- 13700 **NETHERLANDS RN** Flevo in EG 1858, "Dutch Horizons", promo, ID, QTH, g (McGuire MD 3/5)

- 13760 NORTH KOREA R *Pyongyang* in EG 0020, tlks re politics/People's army, mx (Raymond NH 2/12)
- 13770 GERMANY RVI Belgium relay Juelich in EG 1840, rpt on Euro coins, exchange rate, tlk re child safety, ID, p (Witham HI 2/1)
- 13810 GERMANY United Methodist Church relay Juelich in EG 1725, preaching abt fear thru loss of faith, g, //15485 (Witham HI)
- 15060 TAIWAN WYFR Family R relay Taipei in EG 0158*, Harold Camping tlk, hymn (Paszkievicz WI)
- 151008 PAKISTAN R *Pakistan* in Urdu *1330, IS, ancmts, Qur'an at 1325, dual path echo (Hill MA 2/25)
- 15140 OMAN R *Sultanate of Oman* in EG 1400-1500, variety of US and lcl pops, nx 1430, ID, occasionally fading up to fair and equal level to HCJB on same fqy (Alexander PA 2/10)
- 15160 ALGIERS R *Algiers Int* in EG 2002-2059*, ID's, instrum'ts, nx 2005, US and Euro pop mx, definite audio problems w/very distorted sound and cutouts (Alexander PA 1/20)
- 15175 NEW ZEALAND RNZI in EG 1100, nx, wx rpt, interview pgm, f/o 1130 (Fraser MA 2/18)
- 15180 NORTH KOREA R *Pyongyang* in EG *0000, IS, ID, opening ancmts, nx, negative comments on the USS Kittyhawk in Pacific waters, //11710, 13760 (Kohlbrenner PA 2/16, Boynton MA)
- 15190 PHILIPPINES R *Pilipinas* in EG 1930*, continuous vcls, full ID, s/off ancmts, p (D'Angelo PA 2/25)
- 15205 SPAIN R *Liberty* relay in RS 0715, dramatic reading over mx, "Svabota" ID, //9630 (Witham 2/12)
- 15250 SRI LANKA VOA relay in EG 0230, Pres Bush State of the Union message (Newbury NE 2/28)
- 15290 PHILIPPINES VOA relay Tinang in EG 2235, rpt on Mideast violence, ID, p (McGuire MD 2/14)
- 154852 PAKISTAN R *Pakistan* in EG 0207, ment Islamabad, Rangoon, Pakistan, ID, fqy (Paszkievicz 2/8)
- 17570 GERMANY RTBF Belgium relay in EG 1816*, conversation, mx segment, ID (Newbury NE 2/24)
- 17820nf ITALY *Advent World R* Forli in EG 1245, tlk re various Christian beliefs, ID (Paszkievicz WI 2/15)
- 17835 RWANDA *Deut Welle* relay in EG *2100, IS, ID, rpt on MEast violence, Euro Union (McGuire 2/14)

Clandestine, Tentative, Presumed, or Unknown

- 62337 COLOMBIA *Voz de la Resistencia* in SP 1125-1210+, ID, ancmts, tlks, p-f (Alexander PA 1-12)
- 7125 GUINEA RN *du Guinee* Conakry(t) in FR/dialect 0720, tlk, regional mx, no ID hrd (Witham HI 2/6)
- 9315 BULGARIA Clandestine *Falun Daja Radio* in Mandarin 2230, ID, anthem, tlk (Paszkievicz WI 2/9)
- 9563 SAUDI ARABIA(p) Clandestine *V of the Iraqi People*(p) in AR 2228, tlk, AR mx, strong carrier but little audio (Kohlbrenner PA 2/15)
- 96187v URUGUAY(?) *SODRE Montevideo*(?) in SP 2230, classical or ezl mx, no ancmts noted, very choppy and splatter from VOA/Phil, then wiped out by powerful SP carrier 2259 (Hill MA 2/24)
- 9635v COLOMBIA R *Nacional* Bogota(t) in SP 0425, YL w/ments of Colombia, pop mx, p (Witham 2/4)
- 9685nf? CLANDESTINE R *Free Iraq* in AR 1650, tlk by OM, ment Washington, Iraqi, George Bush, Saddam, //11835, 11965- best on 11835 (Witham HI 2/10)
- 11905 SRI LANKA(p) *SLBC*(p) in HD 0053-0132, sub-cont vocals, tlk by OM (Kohlbrenner PA 2/14) 

FOR SALE: FRENEX/Journal, complete years, 1979, 1980 and 1983 -- 1994, \$9 per year or \$100 for all. Glenn Hauser's DXLD, 21 issues, June 1988 to December 1994. \$15 for all. "Popular Communications" magazine, complete years 1986 to 1988, \$12 per year or \$28 for all. PWBR, 1997 ed. and 2000 ed., \$10 each. All items post paid in USA.

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NICOLAS PALAZZOLO, Harbor Beach, MI
TERENCE M. DEAN, Huber Heights, OH
LARRY FRANCIS, Barberton OH
DON RHODES, Yarra Glen, AUSTRALIA
SR. VICTOR CASTANO, Montevideo, URUGUAY
CHARLES R. HOUSKA, Blacksburg, VA
JORGE CLAVELL, Fort Worth, TX
RON FRANZETTI, Dallas, TX
FRANK SERIO, Philo, IL
JOHN L. ROUSE, Bowie, MD
ROGER E. DORREL, Walnut, CA
EMILY BOYD, Lafayette, CA
JAY GOLDEN, Rochester, NY
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GORDEN F. HEIN, JR., Redfield, SD
ROBERT EDDY, Newport, OH
DAVE PALITSCH, Averill Park, NY
RALPH SEQUIN, Madison, WI
FREDERICK MOE, Warner, NH
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DR. HAROLD O. SMITH, Tacoma, WA
MICHAEL BURY, Newport Beach, CA
DAVID WEINRICH, Moorhead, MN
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