

## the JOURNAL

### NORTH AMERICAN SHORTWAVE ASSOCIATION

**VOLUME XXXIX NUMBER 6** 

**MAY 1999** 

### ENGLISH (SHORT-WAVE)

UTC	Frequencies (kHz)	Days		Programs
UNITE	D STATES, I	VIEXIO	O, C	ARIBBEAN
0100-0200	5960, <b>&amp;</b> 9535, 9755, <b>&amp;</b> 11715,	MO:	(RCI)	NEWS / ARTS IN CANADA [4] / THE MAILBAG
	&13670,&15305	TU-SA:		NEWS / SPECTRUM [1]
		SU:	(RCI)	NEWS / VENTURE CANADA [6] / EARTH WATCH [5]
0200-0230	9535, 9755, 11715, 13670, 15305:	TU-SA:	(RCI)	NEWS / SPECTRUM [1]
0200-0300	9535, 9755,	SU:	(CBC)	NEWS / FROM 10/4: N.S. KITCHEN PARTY [4]
	11715,13670,			FROM 29/5: VINYL CAFÉ [4]
	15305:		(CBC)	
0500-0530	5995, 9755,	MO-FR:		FIRST EDITION [1]
	11930:	SA:	(RCI)	NEWS / EARTH WATCH [5]
		SU:	(RCI)	NEWS /
	4.00		(,	ARTS IN CANADA [4]
1200-1300	9640, 13650,	MO-FR:	(RCI)	NEWS / ONTARIO MORNING [1]
	17765, 17820:		(CBC)	
			(CBC)	
1300-1400	9640, 13650, 17765, 17820.	MO-FR:	(RCI)	NEWS / THIS MORNING [1]
1300-1600	13650, 17800:	SU:	(CBC)	NEWS / THIS MORNING [1]
2200-2230	5960, 9755,	MO-FR:		THE WORLD AT SIX [2]
	13670, 15305, 17695;	SA-SU:	(CBC)	THE WORLD THIS WEEK-END [2]
2230-2300	5960, 9755, 13670:		(CBC)	MYSTERY PROJECT [4] THE INSIDE TRACK [3]
2230-0000	5960, 9755,	MO-TH:	(CBC)	AS IT HAPPENS [1]
	13670:	FR:	(CBC)	AS IT HAPPENS [1]/
				C'EST LA VIE [1]
2300-0000	5960, 9755,		(CBC)	
	11895, 13670, 15305, 17695:	SU:	(CBC)	NEWS / ROOTS & WINGS [4]



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\*\*Sale \*\*199\*\*\*

\*\*Sale \*\*199\*\*\*

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\*\*PUPS)

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precise tuning via the up/down buttons, scanning or 100 user-defined alphanumeric memories. A new feature called SW Station Cali Tuning (VOA/BBC/DW/Other) automatically chooses frequencies used in your time zone from the removable ROM data module. Other refinements include: synchronous detection, single sideband reception, tone switch, lock, 24 hour clock limer, sleep timer, variable attenuator, external antenna jack and backlit display. Supplied accessories include: carry case, AN-LP2 active loop antenna, Sony Wave Handbook, AC adapter and stereo earphones. Requires two AA cells (not supplied). Silver and gray case, 544.13x3.67 closed. Order #0007 1419.95 (-198)

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The smaller Freeplay FPR-2 model covers just AM & FM. #3667 \*69.95 (4\*6) The Freeplay FPR-2SM is gray, AM & FM with solar cell. #243 \*79.95 (4\*6) The Freeplay FPR-2SC is clear, AM & FM with solar cell. #1447 \*79.95 (4\*6)

#### Shortwave Receivers Past & Present 3rd Edit.

This huge 473 page guide covers over 770 receivers from 98 manufacturers, made from 1942-1997. Entry information includes: receiver type, date soid, photograph, size & weight, features, reviews, specifications, new & used values, variants, value rating & availability. 120 new pages. Become an instant receiver expert #000 \*24.95 (\*\*2)



 Passport To World Band Radio 1999 Edition
 Everything you need to know about when and where to hear the world! The #1 SW guide. #1000 \*19.95 (+12)

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schedules, addresses, power, etc. #2000 \*24.95 (+\*2)

Pirate Radio By A. Yoder With sudio CDI
Here is the incredible saga of America's underground illegal broadcasters (with audio CD). #2039 \*29.95 (+\*2)

broadcasters (with audio CD). 2329.95 (\*\*2)

Worldwide Aeronautical Frequency Dir. By R. Evans
The definitive guide to commercial and military. HF and
VHF-UHF aeronautical communications including
ACARS. Second Edition. 260 Pages. 2002 \*19.95 (\*\*2)

Joe Carr's Receiving Antenna Hendbook
 Arguably the best book devoted to receiving antennas for longwave through shortwave. In stook. esris \*19.95 (+2)
 Shortwave Listening Guidebook 2\*\* Ed. By H. Helms
 This noted author provides understandable information on all aspects of shortwave listening. e294
 119.95 (+2)

Discover DX'ing! By J. Zondio New Second Edition
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The Universal Used Equipment List is updated very few days on Universal Radio's web site:

www.universal-radio.com



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#### NEW 120 PAGE 1999 CATALOG

Universal Radio's 1999 Catalog covers everything for the short-wave, amateur and scanner enthusiasts. With informative photos and full descriptions. To request your free copy please call toll-free:

1 800 431-3939

## N4S44 Notes

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

We have some interesting news from Jerry Berg in his capacity as Chairman of the Committee to Preserve Radio Verifications (CPRV), which is a committee of the Association of North American Radio Clubs (ANARC). The CPRV has been working to obtain a new home for the CPRV collection. Jerry mentions, "the Christian Science Monitor was very good to us over the many years that it served as the CPRV repository. However, as the desirability of an archival environment increased, and as CSM reduced its shortwave activities, we considered other alternatives. I am pleased to announce that the relocation of the collection to its new home has now taken place, and that henceforth the CPRV collection will be located at the Broadcast Pioneers Library of the University of Maryland, College Park, Maryland. The library itself is moving to new quarters on the University of Maryland campus, and will soon enjoy 15,000 square feet of space, including expanded research areas, special listening and viewing rooms, cold storage lockers for the preservation of brittle items, exhibits, and other important features. The LAB has shown great interest in our work, and this new arrangement will ensure that QSLs, and the work of the CPRV, will have a permanent place in the history of radio. CPRV is still very much in business. We will continue to seek out new material and channel it to the CPRV collection at the LAB, which will be an expanding, living collection." If you would like to hear Jerry being interviewed about CPRV and his book by Kim Elliott of Communications World, you can hear it in Real Audio at <a href="http://">http:// www.wrn.org/ondemand/>. Also, if you want to get a feel for the activities of the Library of American Broadcasting, check out their website at <a href="http://www.lib.umd.edu/UMCP/">http://www.lib.umd.edu/UMCP/</a>

#### **ANARC SWL Ham Net**

Dave Kirby and Al Quaglieri, net controls for The ANARC SWL Ham Net, have announced that the net has gone on summer hiatus. Check-ins have been down for some time, and Dave and Al felt that they weren't likely to pick up during the summer. In the mean time, you can find many of the regulars from the net on IRC chat channel #swl. Dave and Al hope to bring the net back in September or October. Watch<a href="http://www.nldk.com/">http://www.nldk.com/</a> for more information.

LAB/>. They should be having an announcement about the CPRV in the near future.

Distribution editor Fred Kohlbrenner (2641 Shields Street, Philadelphia, PA 19142 fkohl@ix.netcom.com) is now our new Scoreboard editor replacing Jerry Lineback after this month. The additional editorial burdens associated with handling the Shortwave Center column, make it impossible for Jerry to continue editing the Scoreboard column. We thanks Jerry for his many, many year of editing the Scoreboard. We also thank Fred for adding the Scoreboard column to his list of NASWA activities.

The Ontario DX Association will be celebrating 25 years of radio fun at its Radio Fest 99. Radio enthusiasts of all interests and all levels are invited to join the ODXA on Friday, September 24 through Sunday September 26, 1999 at the Ramada Inn & Convention Center in Oakville, Ontario. Further information on Radio Fest can be found in the Calendar of Events or at: <a href="http://www.durhamradio.com/odxa/">http://www.durhamradio.com/odxa/</a>; or E-mail:

Our Motto is - "Unity and Friendship"

#### Contribute!

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

odxa@compuserve.com, or by mail: Ontario DX Association, P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada. This sounds like a radio event worth attending!

We have lots of news from the publications front. First, our good friend and DX colleague. Anker Petersen, informs us that the Danish Shortwave Club International (DSWCI) has just published its annual Tropical Bands Survey for the 27th year in a row. Anker is the Chairman of the club and the editor of the project. Since most of its club members are devoting most of their DX-ing on the exciting, domestic broadcasting stations, not only on the tropical bands (120, 90 and 60 mb), but also on the higher shortwave bands, DSWCI decided to expand the Survey to the full spectrum of 2200-22000 kHz. The Domestic Broadcasting Survey (DBS) concentrates on stations broadcasting to a domestic audience or relaying such broadcasts to expatriates abroad. This new Survey is based upon many official sources and DXbulletins. In order to make the DBS reliable, each station frequency has been confirmed on the air by monitors around the world and is marked with an A or B in the list (A: Regular, B: Sporadic, C: Likely inactive, and S: Seasonal changes). To make this DBS upto-date, most frequencies, which have not been heard during the past year, have been deleted. The 44 pages A-4 size DBS is sold by the treasurer; DSWCI, c/o Bent Nielsen <br/>
<br/> 14, DK 3500 Vaerloese, DENMARK for

EUR 10, USD 12, DKK 75 or 14 IRC per issue with airmail delivery. Cash notes are accepted.

Second, long time member and Dxpert Bob Padula, of the Electronic DX Press, informs us that the latest edition of their excellent shortwave broadcasting guide, Australasian Shortwave Guide #7-A99 Period, is now available. It is a 16-page A-4 hard copy, professionally printed, saddle stitched with nearly 600 entries, presented in two parts; by order of Studio Country and Start Time. Each part includes the complete data for Studio Country, Transmitter Country, Organization, Transmitter Site, Start Time, End Time, Language, Target Zone(s), Broadcast Days. It covers the A99 international broadcast period March 29 to October 31 and includes English shortwave broadcasts to Australia, Papua New Guinea, Asia, New Zealand, the Far East, Oceania, Pacific, the Indian sub-continent, and Siberia and shortwave broadcasts in languages other than English to Australia, Oceania, New Zealand, Pacific, East Timor, and New Zealand. The cost is A\$10 / US\$10 / 10 IRCs, worldwide airmail or Australian surface postage included. Stocks limited-order quickly or miss out. Order from Bob Padula (or "Padula Books"), 404 Mont Albert Road, Surrey Hills, Victoria 3127. Australia (E-mail: bpadula@compuserve.com).

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

#### NACHOP

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

#### Calendar Of Events

- Jun'99 Meeting. Pirate Radio Meeting arranged by East and West Radio Club will be held 4-6 June 1999 about 40 kilometers south of Köln. Contact Adolf Schwegeler, Bahnhofstr 56, DE-50374 Erfstadt, Germany. Fax +49 223545046. E-mail: achim.baum@t-online.de.
- Jun 18 Meeting. Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831.
- Jun 18 Meeting. Boston Area NASWA Chapter. The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <a href="http://www.anarc.org/naswa/badx/">http://www.anarc.org/naswa/badx/</a>>.
- Jun'99 Convention. IRCA/DecalcoMania Ultra-Convention will be held June 25, 26 and 27, 1999 at the Holiday In-Boardwalk (3750 Las Vegas Blvd., So. Las Vegas, NV); call 800-635-4581 for reservations (\$55 per room if made before April 25th). Registration fee \$35.00. Send registration fee and inquiries to Mike Sanburn, P.O. Box 1256, Bellflower, CA 90707 stating name, address, phone number, date arriving, number of persons, and club affiliation.
- Jul 9 Meeting. The Tidewater SWL's meet at 6:30 PM. For more information plus meeting location contact Joe Buch at joseph.buch@dol.net
- Jul 9 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX) meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at <mmeece@siscom.net>. For additional information about MONIX, check out their web site at <a href="http://www.siscom.net/~mmeece/monix.html">http://www.siscom.net/~mmeece/monix.html</a>
- Jul'99 Convention. WTFDA Convention will be held July 16-18, 1999 at the Wyndham Garden Hotel (1000 International Drive, Mt. Olive, NJ 07828); call 973-448-1100 or 1-800-WYNDHAM for reservations (\$89/night). Convention host is Rick Shaftan. No other details are available at this time.
- Sep'99 Convention. NRC Annual Convention will be held September 3-6, 1999 at the Holiday Innin Bridgeport, WV (100 Lodgeville Road, Bridgeport, WV); call 304-842-4635 for reservations (\$70.85 per room if made before August 13th). Registration fee is \$35.00 prior to August 1st and \$40.00 thereafter. Send registration fee to William Swiger, One Casey Lane, Bridgeport, WV 26330 (304-842-4635).
- Sep'99 Convention. Ontario DX Association will hold Radio Fest 99 from September 24-26, 1999 at 1999 at the Ramada Inn & Convention Center in Oakville, Ontario. Radio Fest 99 will look at "Where we have come from in radio's past", "Where we are today", and "Where are we going in the future". There will be exhibits from equipment suppliers; clubs; technology from yesterday, today and tomorrow; plus tables of used equipment for sale. Hotel reservation can be made direct with the Ramada Inn by telephone (905)849-5950, toll free 1-800-357-0880, Web www.ramada-oakville.com. A special rate of Cdn\$82 per night for Radio Fest 99 is available. Further information on Radio Fest can be found at: <a href="http://www.durhamradio.com/odxa/">http://www.durhamradio.com/odxa/</a>; or E-mail: odxa@compuserve.com, or by mail: Ontario DX Association, P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada.

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

#### Terry Kelly <wdx6tjk@aol.com>

I am a long time NASWA member who has just re-enlisted in the club. I was out for a short time because of work, and an increased amount of activity in the judo world, since this is an Olympic selection year, and we have been quite busy! I have changed some work hours however, and I would like to place a short announcement in the next issue of "The Journal" if possible. I would like to contact other NASWA members in northern California, for an exchange of local DX information and perhaps an informal gathering from time to time, for DXing, and making some new friends! Interested California members can reach me via email. I always check my mail, but I am not always home to answer the telephone! My email address is WDX6TJK@ AOL.COM thank you for your assistance! Yours in DXing, Terry Kelly

John Lyon, 2346 Dorothy Avenue, White Bear Lake, MN 55110

Notes from the culture front.

Browsing through the catalog of this year's Minneapolis/St. Paul [MN] International Film Festival to select films to see, I came across an entry that grabbed my attention. It listed a movie called Shortwave (USA, 1998), that was to be shown the next Saturday morning. My mind immediately leaped ahead, wondering what kind of receiver would star in the film. Drake? NRD? Watkins Johnson? The write up mentioned a teenager coming of age on a farm. Great. Room for both beverages and horizontal loops. Maybe even a rhombic. Then it mentioned an 'old short wave radio.' Oh, maybe an old hollow-state Hallicrafters or Hammarlund. Then I saw the last part of the entry: 8 minutes. An 8 minute film??

This film turned out to be part of a program of short films in which emerging filmmakers are given a chance to show their first efforts. Fair enough. The next Saturday, I was in my seat. The film opens with a boy watching TV, but he quickly tires of it, and goes over to a short wave portable, and turns it on. The radio is not new and rather nondescript, with analog tuning and a whip antenna, and the words 'solid state' printed on the case. It looks like an old Sears Silvertone, or something that one would buy at a garage sale. The boy, with a dreamy look on his face, 'tunes' the radio—rapidly—as if it's a MW radio. Squeals and howls are coming out, like it's an old regen receiver from long ago, and the sound doesn't follow the tuning. No station is clearly heard, not even BBC. The brief plot, which I won't attempt to relate, is obscure; but the point is the boy is dreaming about the distant world.

Afterward, I went up and introduced myself to the director, a young man in his mid 20s, who had solicited audience feedback. I said I was a short wave listener, too, and asked him how he thought of using short wave radio as a metaphor for dreaming about the world. He said he thought of short wave as 'romantic.' When I asked him about the radio, he said it belonged to a friend, and he had borrowed it. It had a map of world time zones on it, like the old Zenith Transoceanics, if I remember correctly. He didn't know who made this radio,

but he liked the visual prop of the map. The squealing sounds came from a sound effects CD-ROM he had borrowed from the library. Turns out he has never done any short wave listening.

So ... I'm still waiting for a good movie about short wave radio. Actually, any movies about short wave radio.

The very next film, my 14th, was Mongolian. Its plot was even more obscure, about a dog that didn't want to come back in his next life as a human being. With a strong Buddhist element, you had to have been there to make any sense of it. Anyway, there was a shot in the film showing two older newsreaders, male and female, reading an item about a total solar eclipse that would be visible in northern Mongolia. It was in an actual studio, and the subtitle clearly said Radio Mongolia. Does it count if the date, time, and frequency are unknown? A day later, in a Russian film, there was a brief scene, again in a studio, where a popular DJ was sending out a Russian folk tune dedication to a lonely woman in a town in Siberia. Don't know if these simulations were supposed to be MW or SW.

I've still got 4 films to go before the Festival is over, and I can get back to my Silvertone portable.

Bill Fairbanks, 11024 Royal Palm Blvd., Coral Springs, Florida 33065 billfairbanks@worldnet.att.net, Phone: 954-341-2722

Richard thanks for the tips on starting a NASWA chapter here in South Florida. There are millions of people in Dade, Broward and Palm Beach County. Surely there are a few SW fans that would like to get together and share some ideas.

I am a new NASWA member and really enjoy the publication. I have been fooling around with radios (off and on) since I was a little kid. My first efforts were crystal and germanium diode rigs and my mom was most tolerant of the antennas I had strung everywhere in the house. I operated radios in the military and have been an active collector for the last ten years or so. For the last several, I have been doing more and more Shortwave and Mediumwave listening and enjoy monitoring aircraft.

However, I certainly am no expert! Everything I know has been learned from magazines, books and trial and error. Prior to the Internet, this was a pretty solitary hobby. Now we have an opportunity to share information like we never had before and I think that's great. Still, there is nothing like meeting a fellow hobbyist face to face and swapping ideas and tips.

I believe that an active radio club in South Florida would be a terrific resource. I would like to see a club that would meet once a month to share equipment ideas, do demonstrations, share schedule information, those sorts of things. We could meet at a restaurant for a little socializing (after all radios, pizza and your favorite beverage are a natural combination) and have a meeting. Doing a community project once a year is worth looking at too. Why not a DX'pedition once a year. There are lots of possibilities. I personally enjoy SWL'ing the most but am more than willing to learn more about other facets of the monitoring hobby.

Well, I would be willing to do the organizing. Anyone interested in helping me get the ball rolling should contact me. Phone or email is the best.

## Easy Listening

Richard D. Cuff 327 Springhouse Road, Apt. 102 Allentown, PA 18104 Internet: rdcuff@sprintmail.com

#### It's About Diversity

What are the attractions of shortwave radio from the perspective of a program listener? While the "thrill of the chase" lured many of us into the hobby, it's not why a program listener stays active. For the media-inundated American and Canadian, the diversity of perspectives, opinions, and content is the attraction, whether one focuses on music or the spoken English language word. The dimension of diverse perspectives becomes especially apparent when events of global significance occur, as is currently the case with the Kosovo conflict. To begin, one can build a foundation on the events themselves by listening to the BBC, Voice of America, Radio Canada International, Radio Netherlands, or Deutsche Welle. At this basic level the differences between the European and North American perspectives on Kosovo are illuminating.

After these basics, one can gain much deeper appreciation for the situation by listening to broadcasters from countries with specific geographical or political slants on the crisis. This list includes China Radio International, the Voice of Russia, Swiss Radio International, Radio Austria International, YLE Radio Finland, Radio Budapest, and Radio Bulgaria. For example, it was interesting to hear how the Finnish prime minister's role as potential peace broker didn't appear to be elevating his stature in upcoming elections. You won't pick up the national agendas behind the international agenda from CNN.

Meanwhile, there are other areas of the world where there are interesting developments that get overshadowed in the USA by domestic news and by Kosovo. For many of these, one must tune to a regionally-oriented broad-

caster such as Kol Israel (for the recent Israeli elections) or Radio Australia (for the tenuous Indonesian situation).

Of course, there's a lot more out there than news and current events: science, culture, the arts, and sports are all themes for specific programs produced by international broadcasters. While the advent of internet audio has opened up significant opportunities to listen to foreign broadcasters, the downside is that an international listener doesn't have access to the day-to-day background and cultural references the domestic listener has. The international broadcaster, specifically targeting a foreign audience, can fill in this background to help make domestic events more meaningful.

Hopefully this essay has given you food for thought as you consider where to tune to-night...

#### Radio Australia Overview

Speaking of diversity, since Radio Australia rarely produces advance detailed PR for their programs early enough for inclusion in the Journal, they don't get the visibility here they deserve. Recently, Radio Australia has been merged into the Australian Broadcasting Corporation ("ABC"), which has resulted in Radio Australia increasingly relying on the ABC's domestic content, versus producing its own content. As you can see in the sampling below, a wide variety of well-produced programming is available.

If you have access to the Internet, John Figliozzi posts detailed advance program information a few days ahead of air date in the *swprograms* internet mailing list. What I can provide here, though, is some general information on the programs offered by Ra-

dio Australia. Times and frequencies are those best heard in North America. Keep in mind that all of Radio Australia's schedule airs live over the Internet at URL http://www.abc.net.au/ra/abclive.ram.

Mon. to Fri. 1105 on 9580—Asia Pacific—The Asia Pacific region is home to half the world's population and this program brings you the opinions of the people who matter in the region and keeps you up to date with the latest news, including in-depth coverage of major regional events in corporate and financial circles. (also broadcast 1010; Mon. to Thursdays 2310 and Tue. to Sat. 0010)

Mon. to Fri. 1135 on 9580—Life Matters—Geraldine Doogue and Norman Swan talk with the main people behind Australian social policies—from workplace reform to education, health, family relationships, and social change. (also broadcast at 0910)

Mon. to Fri. 0310 on 15515—Australia Talks Back—A daily national talkback program presented by Sandy McCutcheon, who brings to the program a broad range of interests and experiences, including a career as a successful playwright and novelist and as a well-traveled broadcaster. A daily issue indepth is discussed Monday to Thursday; on Fridays, the "Week in Review", gives listeners another chance to have their say on the week's four topics. The last Friday of the month is given over to "Australia Talks Books", which gives listeners an opportunity to discuss the book of the month on the radio and online.

Mon. to Fri. 0510 on 15515—Pacific Beat—A daily magazine focusing on the island nations which depend on the Pacific Ocean for their existence drawing on Australian based reporters and correspondents throughout the region to highlight the events and issues affecting the region, interviews with political leaders, newsmakers, and the people who make the Pacific "beat" .(also broadcast 0710; Sun. to Thursdays 1810 to 2100)

Wed. 0030 on 11880—The Religion Report—The program examines the way religion and religious issues interact with wider

society. (also broadcast 1030, 1530). (Editor's note: This is the best program on religion I've come across in years.)

Fri. 0030 on 21740—The Sports Factor—This program debates and celebrates the cultural significance of sport, reporting on how sport intersects with other social institutions like politics, economics, art, religion, law, and health. (also broadcast 1030 and 1530)

Sat. 2110 on 21740—Australia All Over—Australian songs, poems and stories from all over the country. Ian McNamara ("Macca") hosts ABC Radio's highest rated program and celebrates traditional Australian values and culture. (continuous to 0000; begins at 2010) (Editor's note: In some ways, this is a "call-in" show with people talking about their everyday lives, and helps to provide a sense of what makes Australia "tick".)

Fri. 0110 on 21740—Hindsight—Australian and Pacific history are the subjects of this weekly single-issue program. (also previously broadcast Thursdays 1605) (Editor's note: I find history programs, if they're well-produced, to be among shortwave's most interesting subject matter.)

Many thanks to John for providing the information here.

#### **BBC World Service**

Earlier in May, the VOA's Kim Andrew Elliott interviewed Graham Mytton, the retired head of audience research at the BBC World Service, in his Communications World program. You can listen to the archived program on the internet at <a href="http://www.trsc.com/cw">http://www.trsc.com/cw</a>; Kim has also mentioned that a transcription of the interview will be made available. Mr. Mytton had some very insightful comments on broadcasting strategy, "dumbing down", targeting audiences, and the future of shortwave in general. Definitely worth a listen.

The only comment I received in response to John Lyon's contribution on the BBC was from Larry Magne, publisher of *Passport to World Band Radio*. What's your opinion on

the BBC World Service, or on any international broadcaster? Please send in your thoughts via snail mail or E-mail.

Meanwhile, here's what you can expect from the BBC World Service in June:

#### **Features**

Tuesdays through Saturdays, 0055, plus a weekly compilation Mondays 0030: My Century topics include Images of the Century, looking at 20th century icons such as the swastika and the golden arches; Alive Thanks to the 20th Century, looking at medical breakthroughs; Sport, Witness, firsthand accounts of defining moments; and, The Environment, with firsthand accounts of key environmental incidents. My Century continues to solicit listener feedback and input at the BBC World Service website.

Tuesdays, beginning May 31st, 0430: Kosovo: The Seeds of Conflict is a three-part, 30-minute series taking a historical perspective of the Balkan region. This should be a valuable feature in helping to understand the root causes of the current conflagration. Hopefully the early installments of the series will be archived, as I wasn't able to provide advance information in last month's column.

Wednesdays, beginning June 9th, 0330: Just A Taste returns for a new 15-minute eightpart series on food and how it reflects a country's culture and history. First airing Saturdays 1045.

Wednesdays, beginning June 16th, 0430: Descendants is a three-part, 30-minute documentary series of first-person accounts of illustrious ancestors. A member of Parliament and two journalists are featured. First airing Sundays 0730.

Thursday, June 17th, 1205 and 2305: Outlook spends the day in Iceland, as Frederick Dove samples grilled puffin and chats with the pop singer Bjork. Also, Outlook has an ongoing literary contest: Create a 50- to 100-word short story incorporating the sound effects of laughter, a creaky door closing, and

a ship's whistle. For more details, tune into the program.

#### Drama and the Arts

Saturdays, 2230: *Play of the Week* highlights include:

June 5th and 12th: Chapter 2, Neil Simon's autobiographical play about love the second time around, was recorded at public radio station KCRW in Santa Monica, CA and stars David Dukes, Sharon Gless, Gates McFadden, and Grant Shaud.

June 19th: *Death Catches The Hunter*, a satire on small-town religion, in which a Nigerian businessman receives divine revelation in his tenth story Lagos office.

June 26tn: Rupa Lucian—Child of Romania, a drama on the toppling of the Ceaucescu regime through the eyes of the Romanian secret police, written by Dutch dramatist Ad de Bont.

Tuesdays through Saturdays, 0345: Off The Shelf features include Lemona's Tale by Ken Saro-Wiwa, read by Adjoa Andoh; from June 8th through the 19th; selections from Dubliners by James Joyce, June 22nd through the 26th, read by Barry McGovern, Bosco Hogan, Gabriel Byrne, and Ciaran Hinds

Fridays, 1730: Short Story continues to feature original listener contributions; this month, stories originate from India, Austria, and St. Lucia.

#### Popular Music, Entertainment

Saturdays, 2330: The Vintage Chart Show is a regular weekly show featuring music and headlines from specific years. Host Paul Burnett visits the years 1987, 1966, 1978, and 1993 in June.

Sundays, beginning June 27th, 2230: Just A Minute returns for a four-part 30-minute run. It's a quiz requiring contestants to speak on a topic chosen by the host for sixty seconds, without hesitation, repetition, or deviation. Subjects could range from Shakespeare to socks, Tchaikovsky to tarantulas.

Wednesday, June 30th, 0920 (to Europe only): Glastonbury '99 covers the annual UK version of Woodstock, this year expected to draw 100,000 people. Airs to Africa Sunday June 27th, 2230 UTC.

Science and Technology

Tuesdays, beginning June 8th, 0330: Paradox is a five-part, 15-minute series on conundrums and paradoxes. For example, when is a bald man bald? How can a tortoise beat Achilles? Has potential. Also airs Fridays 1515.

Sundays, beginning June 13th, 0030: Out for the Count is a new six-part 15-minute series discovering the ways numbers and mathematics affect our everyday lives. Whether it's the risk analysis of taking an umbrella on a rainy day, or why rush hour traffic is so slow on the freeway, math is involved. Mathrelated brain teasers included at no charge! Also airs Mondays 1515. Note that you can expect Science Feedback in this time slot on the Sunday following the first Saturday in the month; the Sunday following the last Saturday of the month is devoted to Seeing Stars.

Wednesday, June 23rd, 0030: Discovery features a program on "friendly fire", or why our body's defenses attack the body in error. The phenomenon is behind such diseases as rheumatoid arthritis, multiple sclerosis, lupus, and myasthenia gravis. Previously airs Tuesdays 1405.

Sports

Especially noteworthy in June is the All England Lawn Tennis championships, better known as *Wimbledon*. Beginning June 21st, a three hour program will air weekdays, only on 9410 kHz, at 1530 UTC. Weekend coverage will be in the *Sportsworld* program. The mens' singles final, Sunday, July 4th, will likely air live on normal World Service frequencies at around 1300 UTC, preempting the regular Sunday schedule.

Meanwhile, the Cricket World Cup rolls on towards a June 20th final, which will air live on shortwave at 1515 UTC. Live coverage prior to that date is webcast at the BBC's

Cricket World Cup website, which can be reached off the World Service sports site, http://www.bbc.co.uk/worldservice/sport.

Sundays, 1605: Sunday Sportsworld isn't new, but I thought I'd mention it in passing. If your tastes in sports run British, and you need a Sunday fix, it's worth a listen.

#### Odds 'n Ends

Radio Netherlands airs documentaries weekly; the June schedule includes Mounting Everest and a three-part series of programs on starch: rice, noodles, and potatoes. The last week of the month will feature the next in the Stories of the Century. First North American airing is Wednesdays 0053, repeated Fridays, 2353. (On Target)

Deutsche Welle now offers a weekly E-mail newsletter with advance program information; send an E-mail to majordomo@dwelle.de with the text subscribe english-programme.

#### Internet Mailing List on Shortwave Programming

If you are interested in advance program information that comes in too close to air dates to be used here, or are interested in two-way discussion on programming content, check out the swprograms E-mail reflector. You can subscribe in one of two ways: 1) Visit the website http://www.topica.com and search for swprograms; or, 2) Send a blank E-mail to swprograms-subscribe@topica.com.

#### **Final Thoughts**

Even though summertime is upon us, with a diminishing of DX opportunities, most program listening opportunities still are available. Take a portable shortwave receiver on vacation, and introduce your family to the programming side of the hobby!

Until next month,

73 DE Richard

an/

# Shortwave Center

Jerry Lineback 506 South Lawrence Avenue Scranton, KS 66537 Internet: jalinebk@satelephone.com

# A Turning Point for International Broadcasting?

by John A. Figliozzi

### What does the future hold for shortwave?

It is a question one hears frequently today spurred by the advent of new distribution technologies, the downsizing and outright closure of some services and stations, and regular and often unsettling announcements of changes and "new directions" by, what have been, long relied-upon "establishment" broadcasters

Let me say at the outset that I possess no crystal ball or gift of clairvoyance. But neither, it seems, does anyone else on this question. Having said that, though, it is possible to learn both from history and from the experience of those in the field and, thus, discern some trends.

#### What do we mean by "shortwave"?

As a start, though, we need to agree on what we're talking about. To the pure hobbyist, the term shortwave simply refers to the part of the radio frequency spectrum roughly between 2 and 30 megahertz, segments of which are reserved by international agreement for a range of distinct uses. Different branches or aspects of the shortwave radio monitoring and listening hobby concentrate on one or more of these uses. Just flipping through the pages of this magazine will give you a sense of the wide and divergent nature of these uses.

The fact that shortwave is being put to so many uses probably alone guarantees its

general viability as the nexus for a hobby or range of hobbies for many years to come. But for many, shortwave is-and has been for some time—the place to find the programming of international broadcasters. For these listeners and hobbyists, international broadcasting provides a deeply valued source for information and entertainment that is simply unavailable via domestic media. Indeed, for this group the terms shortwave and international broadcasting have always been synonymous. However, as we will see, this is no longer the case. Therefore, for our purposes, let's agree that the term shortwave refers to a broadcast delivery technology and that the term international broadcasting refers to a product that is carried over it.

#### Some Background

While there were in fact international shortwave stations on the air from the early twenties, most of these were experimental broadcasts usually serving to extend the reach of domestic broadcasters, who themselves were in their infancy. The BBC commenced its Empire Service in 1932 to provide a British radio service to British colonies spanning the globe. International broadcasting specifically targeted to foreign audiences really began in earnest in the 1930s when Germany commenced shortwave broadcasts to the rest of Europe with programs designed to foster acceptance of the German view of current events as they were unfolding on the continent. These broadcast were soon countered by the BBC with its European services and soon many other nations had begun broadcasts of their own.

World War II brought almost all private international broadcasting to an end. The medium took on a politically by-polar, largely government sponsored and often propagandistic nature. The ensuing Cold War only served to reinforce this model until the breakup of the Soviet Union less than a decade ago began to force some radical changes in approach.

In short, it was World War II and the Cold War that provided international broadcasting with a long-standing raison d'être. During those years there was no real need for broadcasters to justify their existence or their budgets because their missions were bound up in a global struggle centered around two competing world views. Each side's fear of the other created its own dynamic. Whether it was megatons or megawatts, almost no expense was too great in this battle for supremacy.

#### An Unforeseen Challenge

When the Berlin Wall came down, the underpinnings of nearly all of the assumptions upon which life had been based and lived on this planet for decades were rocked at their core. Coordinately, international broadcasters almost immediately lost the justifications they had long relied on for their programming choices, their budgets, and even their very existence. The swiftness with which these changes arrived understandably caught nearly all of them unaware and unprepared.

The governments which for those decades sponsored almost all international broadcasting held a mostly one-dimensional view of their worth. With that single dimension now dissolved, governments began to view international broadcasting as no longer necessary and, therefore, dispensable. This view has been almost certainly helped along by a new, fierce competition for economic resources. Politicians looking to slash public bureaucracies and corresponding budgets, first see international broadcasting-as provided by public organizations with public funding—as a Cold War relic. And in an age newly enamored of "markets" and the private sector, politicians are quick to look askance at any public benefit activity that may conceivably be provided commercially. Caught off-guard by the speed of these events and the arguments they have raised, international broadcasters have struggled to find and offer new justifications to counter this rush of impressions.

The fact is that many of these justifications—such as promoting cross-cultural understanding, educating about a less globally influential country, expanding different geopolitical points of view, and introducing a country's products to potential overseas customers—existed side by side for many years with the Cold War imperative. But they were never well articulated or, if so, perhaps only in the context of that bi-polar struggle. As with any long-standing and unchanging situation, a degree of stagnation had clearly set in—and were it had, became glaringly apparent when the Cold War ended.

#### The Broadcasters' View

The singular intention of the international broadcaster is to identify and serve audiences. It stands to reason that, in an era of restricted funding and skeptical masters, demonstrating that this is being done—and being done in the most effective way possible—would be a matter of the highest importance for the broadcaster.

In many ways, it was much easier to do this when the prime motivation was to impart hard, often tightly crafted, information to a self-motivated listener from a competing social system using the only medium practically available and suited to this purpose. Recent history has changed all that. Governments are not as keenly interested, or in some cases, have become wholly uninterested, in communicating with foreign, off-shore audiences. For their part, audiences are less interested in straight, hard, factual information than they are in softer, more entertaining and personally relevant fare. And since they have an ever-growing roster of alternativesboth in terms of technology and contentthey now have to be enticed to both sample and become committed to the product.

Consequently, international broadcasters find themselves, perhaps for the first time, in a truly competitive posture-competing for funding, competing for resources, competing for attention, and competing for audiences with other media. In short, they are seeking to effectively articulate a new raison d'être to their existing and potential audiences, their masters, and-perhaps most importantly-themselves. The pressure of competition and swiftness with which changes have and continue to come, does not leave them with the luxury of much time to do so, either. Is there any wonder, then that many of the changes put in place appear less than well thought out or are withdrawn or altered almost as quickly as they are implemented, or that some simply look at the situation and have decided that they simply cannot compete?

#### More Challenges for Broadcasters

For most of its existence, international broadcasting has been available to its audience only via the medium of shortwave radio. More recently, however, broadcasters find themselves with other alternatives that can be used to deliver their product. Dr.. Kim Andrew Elliott of the Voice of America has identified four such methods or technologies. They are:

- shortwave
- · satellite
- · local placement
- · Internet audio

Each of these have their own advantages and disadvantages and have changed or are changing in their application as a means of delivering international broadcasting. To illustrate, consider the following examples.

The use of satellite technology in conjunction with international broadcasting began as a means of delivering programs to shortwave relay transmitters with better quality and more reliability that had been possible using shortwave sideband feeders. Satellite has evolved today into a direct-to-receiver broadcant vehicle on its own. But to date, the bulkiness and expense of owning receiving equipment limit its applicability to fixed locations in relatively affluent areas.

Local placement has also been around for some time, beginning with the transcription services of various international broadcasters which supply programs on tape or disc to local AM and FM stations. Today, satellite technology is also used to deliver this programming. The clear advantage to the international broadcaster is in delivering its product to listeners in a seamless way on receivers conveniently available and used by nearly everyone. But one disadvantage in a country

While at first glance shortwave may seem to be old technology that has existed virtually unchanged since the beginning, this is untrue.

Receiver technology alone has improved markedly over the decades.

like the United States, is the virtually impossible-to-accomplish task of replicating this process literally thousands of times to enable coverage of the entire nation.

The Internet is the newest delivery mechanism on Dr. Elliott's list. It adds some nice convenience features with its ability to digitally store programs, enabling the listener to

hear programs "on-demand" and enabling the creation of program archives that can serve as a sort of reference library. But at this early stage of development, the Internet also has some significant drawbacks. For one, the equipment to access it is expensive. In addition, telephone line and access charges can be high, thereby inhibiting use.

The added challenge for the international broadcaster, over and above what it is already faced with, is to tailor the use of each technology to a targeted audience. This is a continuing task because all four technologies are dynamic. Each also has uses for which it seems best suited and each has advantages and disadvantages vis-à-vis the others. Both the technologies and their interrelationships will continue to change and evolve with time. Yes, even shortwave broadcast engineers are experimenting with digital transmission modes which, if successfully implemented, would improve the audio quality, reliability and cost-effectiveness of this venerable technology.

### Does Shortwave Have a Future?

Absolutely! While at first glance shortwave may seem to be old technology that has existed virtually unchanged since the beginning. This is untrue. Receiver technology alone has improved markedly over the decades. Transistors, digital frequency readout, selectable sideband synchronous detection and digital signal processing have made today's receivers much more portable, user friendly, and aurally more stable than their earlier counterparts. The use of relay transmitters-whether station-owned, leased, or cooperatively shared—have provided listeners with stronger and more reliable signals than "home-bound" transmitters ever could. And, as mentioned above, the coming introduction of digital transmission techniques offer the promise of further improvements for both the broadcaster and listener.

At the same time, though, the development of other methods and technologies of reach-

ing listeners means that the use of shortwave by international broadcasters will change and evolve in new ways. Some of these will result from the fact that the broadcasters' need to identify and reach new audiences will demand that the broadcaster efficiently and effectively use every possible means to do so. Some of that audience will undoubtedly never have been reachable by just using shortwave.

Making predictions can be a foolhardy practice. But it is clear from what has already transpired that this will be a more than shortterm trial and error process for both broadcasters and listeners.

### What of the Future of International Broadcasting?

It is possible to conceive of a world that has been made ever smaller by communications and technology ending its use of the mass media in any form to get its messages across. The broadcasters themselves seem confident that they have a future (see Challenges for International Broadcasting on the next page). If anything, there are more points of view. more need for cross-cultural understanding, more commerce to be conducted, and more corners of the world vying for attention than ever before. There is more need for communications than there ever has been and there is more need for it all to be put in some context wider than one's individual or ethnocentric experience will allow.

While many of the details—public service vs. private, the interplay of technologies and more—may be in question, it is that need and desire for a wider context that will ultimately ensure and define the future of international broadcasting.

(This article first appeared in Monitoring Times. It is reprinted here with their permission.)

See also the sidebars on the next page, Challenges for International Broadcasting and Who is the Audience?

## Challenges for International Broadcasting

It is a credit to Radio Canada International that, even when it was in its darkest hours and under continual threat of closure, it perceived and acted on a need for the international broadcasting community to meet and consider its collective future. For the past eight years, RCI has sponsored and hosted a biennial conference of global international broadcasting organizations, academics, and professionals under the banner Challenges for International Broadcasting.

Some of the conclusions reached at the most recent meeting held in Ottawa between May 17 and 21, 1998, included:

- International broadcasters need to forge new alliances or reinvigorate existing ones with the domestic arms of their parent organizations. They also need to identify and develop relationships with constituent groups within their countries—such as businesses seeking international markets—for whom international broadcasting could prove helpful.
- There needs to be much more study in academia of international broadcasting, both in terms of its historical role and importance as well as its various structures and missions around the world.
- While its growth and introduction will vary from place to place, the future for international broadcasting is definitely digital.
- While there is interest in new distribution technologies, average spending on implementing them over the past year averaged only about 3% of the budget for the 40 or so broadcasters attending the conference. Shortwave is still—and will remain for the foreseeable future—the dominant delivery technology.
- In the end, international television is not a threat to international radio. The latter will thrive on its own merits.

A sixth conference is tentatively scheduled for the year 2000 in Montreal on the subject of programming. More information of the Challenges series can be obtained via the Internet at <a href="http://www.rcinet.ca/biennial/index.htm/">http://www.rcinet.ca/biennial/index.htm/</a> or by writing to: Challenges V, RCI, P. O. Box 6000, Montreal, Canada, H3C 3A8. For books on the subject, go to amazon.com and search on "international broadcasting." Many thanks to Elzbieta Olechowska of RCI for her kind assistance in providing material for this article.

#### Who is the Audience?

When it comes to audiences, it seems that the traditional" shortwave listener (SWL) is not the prime—or even a desirable—target for international broadcasters today. "Radio freaks" is a term that was used by Deutsche Welle's Director General Dieter Weirich at the recent Challenges V Conference in Ottawa to describe just the type of listener DW was not seeking. To be fair, Herr Weirich used the term more descriptively than derisively and to illustrate his view that most of the traditional SWLs were interested in listening to the programs and content his station produced only to the extent necessary to earn a QSL (verification) card.

Given the challenges being experienced by stations like DW today, Herr Weirich's sentiments are understandable and even reasonable. Stations do not exist for hobbyists; they exist for listeners. The listener an international broadcaster seeks is one who is involved with the station because he or she is interested in what the station has to say. When such a listener communicates with the station, it will be on topics like program content, the listener's interests, or his or her opinions on what was heard on the station. It makes far less difference to the station how the listener accessed that content, whether via shortwave, satellite, the Internet, or CBC Overnight. If the listener's focus is content. the station is interested in hearing from him or her. But if that focus is confined to running up verification numbers, that relationship is not likely to be very welcome.

### **Musing the Drake R8B**

by Dwight W. Smith 4908 Peachtree Dr. Garland, TX 47048

One year ago I purchased an early R8B and since have spent considerable time with the radio thanks to retirement. I came by the R8B not so much by need as because during 46 years of operating on the ham bands and five years before that listening to international broadcasting, I owned such Drake classics as the 1A, 2B, 2C, and all the R4 models, each of which performed as I wished.

Larry Magne's excellent R8B review in "Passport" states pertinent technical details; these are a few of my observations operating the R8B between 2 and 30 MHz.

First, the sensitivity is excellent. I seldom use the preamplifier for it is unnecessary and only tends to place excessive gain into the front end, something that is commonly not a positive for solid state receivers. If you hear the noise level rise when you connect an antenna to your under 30 MHz receiver, you do NOT need a preamplifier. If the noise level does not rise, you need to attach a better (or resonant) antenna, realign the receiver's front end, or both.

The selectable frequency readout is fine, although a variable tuning rate (speed) would be worthy of Drake's consideration. The fixed rate is twice as fast as I like, especially on CW and SSB, but then I have slowed a bit myself over the years. The noise blanker is exceptional; my \$4,000 Yaesu FT 1000 ham transceiver's noise blanker should work as well! The selectable bandwidths and passband tuning are well chosen and highly effective. The sync detection scheme works very, very well, especially when one reads and applies the instructions.

The memory and scan functions provide much flexibility, especially when and if you comprehend the convoluted operating instructions for these fine features. Drake's technical writers could have done better I do believe. The memory scan function, although I believe too slow at three plus seconds per

channel, is extremely useful for programming tropical band frequencies in banks for Africans, Latins, the Pacific, or Indonesians, etc. Program the appropriate "group lists" and put the R8B to work while you write reception and program notes. The memory channels are user programmed either by numerical frequency or station name with up to seven letters, such as BUKFASO and similar. The channel scanning speed is not, unfortunately, user selectable, being predetermined in CPU memory, or so factory customer service tells me. Three plus seconds scanning rate would be totally unsatisfactory using the optional Drake VHF converter on public service bands. This is another area the design reople might address in the next R8 version.

A feature I'd like added is a second coaxial type SO-239 HF antenna input with a front panel switch allowing the operator to instantly toggle between two antennas. Drake does not furnish a schematic with the R8B operating manual, but as an additional costmanual. Not having the schematic, I take their customer service word that the already present second rear panel SO-259 coax connector designated "converter input" and toggled from the front panel cannot be modified allowing selection of a second HF antenna at the expense of VHF converter input. I doubt many R8B owners buy the \$220 Drake 35 to 55 and 108 to 174 MHz VHF converter. Clearly, the HF excellent R8B was not designed to be a "turbocharged DC to light superscanner."

My experience with the R8B includes hours of A/B listening against a 51J4, R-390A, R-70, and Yaesu FT-1000. The conclusion is the 51J4 and R-390A win the really tough "dig 'em out" tropical band AM selectivity battle and for AM quality. These receivers were designed forty years ago for essentially AM monitoring and in today's dollars would cost nearly \$20,000. The modern R8B wins the rest and in a one-receiver shack should be the choice. The American made Drake R8B is a winner. But, listening colleagues, use a REAL antenna with any radio, which is another story.

## Listener's Library

T. J. "Skip" Arey N2Ei P. O. Box 236 Beverly, NJ 08010 Internet: tjarey@home.com

There are two authors that are departed from this earth that still hold great sway with me. Over the head of my bed, you will find the complete works of Robert A. Heinlein. But...over my workbench, you will find the complete works of Doug DeMaw WIFB. Nobody has done so much to help folks like you and me understand the insides of our radio equipment. And Doug didn't stop there. He went on to teach us how to build our own equipment. Now that Doug is "silent key", many of his books are getting a second look by folks. Here are a couple that you should add to your bookself.

Practical RF Design Manual by Doug DeMaw W1FB 246 pages \$19.95 MFJ Publishing Starkville, MS 39759 ISBN # 1-891237-00-4

Most of us came to know Doug's work through his articles in QST and Monitoring Times. This book shows a bit more of Doug's scholarly side. This book gives the reader a one stop study of basic radio design. Making extensive use of practical circuits (many of which can be built right out of the book) Doug led the reader through transmitter and Receiver Fundamentals including detailed analysis of Mixers. Balanced Modulators. Detectors, IF Amplifiers, Filters, AGC Systems, Frequency-Control Systems, Small and Large Signal RF Amplifiers, and Frequency Multipliers. Anyone familiar with some of Doug's OST transmitter or Receiver designs will see the fundamentals in the circuits shown in this book. You can quiet literally read each section and build the circuit as a way of furthering you understanding. Doug had a way of making even the most complex topics easy to understand. Over the years I've learned a great deal from his writings and this book taught me even more. I hope that it does the same for every reader.

WIFB's QRP Notebook by Doug DeMaw W1FB Second Edition 180 pages \$10.00 American Radio Relay League 225 Main Street Newington, CT 06111 ISBN 0-87259-365-7

Many of you know from my previous writings that I am hopelessly addicted to the smell of melting solder. I work hard to keep this monkey off my back by building as much of my own radio equipment as I can. One of the people who fed this obsession for me and countless other radio hobbyists was Doug Demaw. This Second Edition of his ORP Notebook brings the reader dozens of great radio circuits that will keep them at the workbench for many hours of fun. (Side note: FAR RADIO CIRCUITS continues to offer circuit boards for many of Doug's designs including those in this book). For those of you not yet amateur radio operators, ORP is the art and science of low power operating (usually less than 5 watts). This book would serve as a great introduction to this fascinating aspect of the radio hobby. Particularly of interest to readers of the NASWA Journal is the third chapter on receiver design. In it you will find an excellent design for a 160 meter receiver with further circuits for conversion to higher frequency bands. With the information in this book you could shed your commercial receiver and begin to DX with a piece of gear that you put together with your own hands. If and when you join the ranks of the ham radio fraternity, the book continues with a great series of basic transmitter designs that are at the heart of many current. QRP operator's stations. My copy of this book is already well thumbed and annotated with lists for parts orders from Mouser and Digikey. Somehow I think Doug would have wanted it that way.

Fellow NASWAite Rich D'Angelo has offeredhis continued assistance to your humble editor by reviewing another book of great interest to the hobby.

Historical Dictionary of American Radio Edited by Donald G. Godfrey and Frederic A. Leigh ISBN 0-313-29636-7 Greenwood Press Reviewed by Richard A. D'Angelo

Published by Greenwood Press in 1998, the Historical Dictionary of American Radio is a 520 page hardbound book about the radio medium. Readers will find entries on almost every subject related to the topic of radio in this alphabetical listing of terms. The authors recognize the limitations with obvious omissions in the technical and personality aspects of radio, which are left to other publications where the topics can be addressed in an expanded format. Nevertheless, this reference work sets out to cover a lot of ground on the topic of radio.

The publication is primarily designed for an interdisciplinary audience in college, university, institutional, and public library settings. It presumes no prior knowledge of radio so each definition stands on its own. The book is designed to help those doing research in the field of radio communications. In that regard, it provides an excellent quick-ready reference to a wide variety of topics. The authors developed a list of potential topics and solicited contributors from various professional disciplines association with the broadcasting field.

The editors of this book are scholars in their own right. Mr. Godfrey is a professor in the Walter Cronkite School of Journalism and Telecommunications at Arizona State University. His teaching and professional interests are news, corporate communications, programming, and history. Mr. Leigh is an associate director of the Walter Cronkite School of Journalism and Telecommunications at Arizona State University. His research interests include radio history, programming, and management.

The format of this publication consists of subject entries followed by a clear definition

or identification of the subject. If needed, a general narrative follows, which provides an expanded definition related to the historical background and precedents. Following the narrative are often several references important for securing additional information on the topic. The contributing author's name is at the end of each topic. Background information about the various contributing authors is provided in the About the Contributors section in the back of the book. A number of high-caliber folks contributed to the development of this work.

The book opens with a brief history of radio from its earliest days through programming development and into the 1990?s. The editors then provide a radio chronology, which begins with Samuel Morse's application for the first patent on a telegraph system and concludes with the Federal Communications Commission (FCC) approval of satellite radio systems in 1997. The main section, an alphabetical listing and definition of various radio-related terms, is next and covers 430 pages. A selected bibliography, an extensive index and the previously mentioned section describing the contributing authors follow this.

Naturally, the most interesting portions of the dictionary for NASWA member's address shortwave related topics. There is coverage of the Voice of America, Radio Free Europe, Armed Forces broadcasting, the British Broadcasting Corporation, FCC, pirate radio, propaganda, Radio Marti, Radio Liberty, religious broadcasting, the role of radio in World War I and II. Zenith Radio and a host of other interesting material. Although primarily addressing radio from an AM and FM perspective, the book adequately covers topics related to the shortwave spectrum. It is a very good reference work for those with a serious interest in radio-related topics. It contains a wealth of information about the early days of radio.

The Historical Dictionary of American Radio can be ordered direct from Greenwood Press (88 Post Road West, Box 5007, Westport, CT 06881) by using their toll free number in the United States: 1-800-225-5800. It costs US\$89.50. A complete description of all Greenwood titles can be found on their website at www.greenwood.com.

# **Equipment** Reviews

Alan Johnson 2490 Sharon Way Reno, NV 89509 Internet: ajohnson 10@compuserve.com

### The Sony ICF-SW07 Portable Receiver

Sony Electronics has been the market leader in the microminaturization of shortwave portables with "serious" performance. The trend started with the SW1 in 1989 and the concept was refined and further reduced in size in 1995 with the introduction of the SW100. The SW07 is slightly larger than than the SW100, but has several enhanced features, primarily in the area of memory management.

The ICF-SW07 follows the receiving "system" principle established by its predecessors, i.e. the radio comes with an active loop antenna, antenna control module, AC power adapter and stereo earphones. The AC adapter sold in the U.S. can only be used on 120 volt AC mains. There is a leatherette carrying case for the radio and a drawstring cloth bag for the antenna. The radio requires two "AA" batteries for portable power and the antenna control module requires an additional two "AA" cells. Battery life with alkaline cells is specified at approximately 32 hours when the radio is used in FM mode and 23 hours in AM mode. List price for the system is \$529 with a street price of around \$420.

#### **Small And Compact**

Although the SW07 is larger than the SW100, it is still in the bantamweight class. The overall dimensions with the display panel closed are 5 3/8 x 1 5/16 x 3 5/8 inches (WxHxD) and the weight with batteries is 9.1 ounces. The display panel measures 3 3/8 x 3 inches (WxD) and flips up to a convenient viewing angle just like a laptop

computer. The display shows reception mode, frequency or time, memory channel, standby timer and time offset from UTC. The display is nicely backlitin a green color. The backlight is activated for 30 seconds when the "Light" button is pressed. There is also a world time zone map embossed above the LCD display. With the panel closed, all the contol keys are covered, but the speaker is still exposed, so the radio can still be listened to with the panel closed, an improvement over the SW 100. The speaker measures 1 5/8 inches in diameter and the output power is 200 milliwatts.

#### **Clock Driven**

The intial step when activating the SW07 (after installing the batteries!) is to set the clock for local time and UTC offset. This is important because it determines the MW tuning step as well as the appropriate database for the SW Station Call tuning feature. Unlike some of the other Sony portables I have used in the past, the time can be displayed while the radio is on—just press the "EXE" button and the time is diplayed for ten seconds. Unfortunately, the time zone cannot be switched while the radio is on, so you're stuck keeping the clock set to local time while the unit is on, if you want to take advantage of SW Station Call tuning.

#### Tuning

The frequency coverage of the SW07 is from 150 kHz to 29,999 kHz and from 76 to 108 mHz. The AM/SW section is dual conversion. FM reception is in stereo when stereo

headphones are used. Tuning to a desired frequency can be accomplished by direct keypad entry which requires pressing the "Direct" key, inputting the frequency and then pressing the "EXE" key, using the Up/ Down buttons (1 and 5 kHz steps on the shortwave bands in AM mode; 1 and 0.1 kHz steps in SSB mode) and various memory tuning modes. The "AM Band" key when pressed in conjunction with the Up/Down tuning keys will jump the radio to the lower ends of the standard international broadcasting bands. Pressing and holding the either of the Up/Down keys will start the radio scanning within the selected band. Scanning is stopped by pressing either Up/ Down key.

#### Thanks for the Memories

There are twenty memory presets available via the numeric keypad—ten on the AM/SW bands and ten on FM. These are tuned immediately by pressing the appropriate key. These memories can be labelled with a six character alphanumeric tag if desired. In addition, the "MY" button allows access to 100 user defined memory channels. With the SW07, Sony has dropped the Page memory organization scheme. Instead, pressing the "MY" button twice starts the radio scanning through the frequencies stored in the MY memory table. These frequencies can also be stepped through using the Up/Down arrow keys. The MY memories are labelled numerically by default, but these can be changed to any desired six character alphanumeric label.

Sony has introduced a new memory feature with the SW07—SW Station Call Tuning. On the back of the radio is a little compartment which holds a ROM (read only memory) chip. Frequencies for various international broadcasters are stored in this chip and are organized for the usual frequencies used by these broadcasters for various regions of the world. The radio uses the local time zone chosen on initial setup to select the proper database. Front panel buttons allow

immediate scanning of the stored frequencies for the BBC, VOA and Deutsche Welle. The button labelled "OTH" can be set to allow access to frequencies used by France, Japan, China, Spain or the Netherlands. The SW Station Call database does not compensate for time, i.e. the frequencies stored in memory are all those used by the station for the target area, not just those used for a given period of time within the day.

Updated ROM's will be available in October of each year for \$19.95 from the FC orporation in Tokyo (ordering address given in the radio's instructions). When ordering a new ROM, the user will be able to specify which 5 stations from a list of 25 that will be included on the "OTH" selection.

#### **Other Goodies**

The accessory that will generate the most interest in the SW07 system is the AN-LP2 collapsible loop antenna. This is a 19 inch diameter spring wire loop with an attached suction cup/clip combination for mounting in a window. The loop collapses to a diameter of 7 inches. The loop is designed only for shortwave reception and must be disconnected for LW, MW and FM reception. The manual also states that the AN-LP2 can only be used with the SW07. There is a separate control box which connects to the antenna via a 12 feet cable. A short cable connects the control box to the antenna input of the radio. Power to the control box is controlled by the on/off switch on the radio itself. There are no tuning controls on the control box, unlike the Sony AN-LP1 antenna.

The loop flips open easily and the suction cup/clip combo provides almost unlimited mounting options. The cable from the control box permits mounting the loop in a window and listening to the radio in a more comfortable postion in the room. The ANLP2 is not just a "gee whiz" accessory—it is required for maximum performance of the SW07. The SW07 with just its built-in whip is not entirely "deaf" but close, receiving

only the really strong international broadcasters. I did a side-by-side comparison of the SW07 with a ICF-7600G-with the radios' built-in whip alone, the '7600G was the more sensitive radio, but the SW07 with the loop won hands down for listening to weak signals. In fact, the sensitivity was so great with the AN-LP2 loop that I was glad Sony had incorporated a variable attenuator into the SW07. This feature came in very handy when using the scan feature, as with the attenuator off, the radio tended to stop on noise. By switching on the attenuator with the switch on the left side of the case. I could adjust the rotary control to lower the background noise just enough that the radio would stop on legitimate signals but not miss signals of interest. This feature is a definite enhancement to the usual 0/-20 db attenuator switches

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The drawback to the improved performance offered by the loop antenna are the extra packing space and weight taken up by the loop and the control box, although both are relatively minimal. The collapsed loop and control box actually are larger than the radio itself. In addition, there is a definite "technogeek" appearance factor associated with the deployed loop—it is not a very discreet listening setup.

#### The Sound

Although the built-in speaker is small, I found the sound to be quite adequate. There is a "News-Music" tone switch on the right side of the case—a high cut filter is switched in in the "News" position to reduce hiss. The best sound is obtained by using the supplied ear buds (or other headphones). The headphone output is stereo in the FM mode. There is only a single IF bandwidth filter for both AM and SSB reception, but for AM reception the selectable sideband sync detector can be quite useful for reducing adjacent channel interference as well as reducing distortion due to signal fading. The sync detector works well-it locks quickly and holds lock through all but the deepest fades. The 100 hertz tuning steps for SSB are relatively coarse, but OK for casual monitoring of the ham bands.

#### Overall

My overall impression of the ICF-SW07 is favorable. The styling is a definite departure from the usual and takes some getting used to. I do wonder how durable the cable connection between the radio and display will be over time. The SW07 packs a lot of features into a tiny package and works well. The only feature that I would add would be a choice of a narrower bandwidth filter. I have mixed feelings about the need for the external AN-LP2 antenna. On one hand, it definitely enhances the performance of the radio and permits flexibility in listening position (I get tired of having to huddle by a hotel room window to listen to a portable radio-with the SW07 I could put the loop in the window and recline comfortably on the bed). On the other hand, it seems a shame to make such a tiny radio and then require all the extraneous gear for good performance. Also, the price is a bit on the high side. Information on the ICF-SW07 is probably best obtained from the catalogs of the major SW equipment suppliers. There was nothing listed on the Sony Website when I checked while preparing this review. I would like to thank Fred Osterman of Universal Radio for supplying the review unit.

# Technical Topics

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

### **Digital Shortwave Update**

The quest for a digital shortwave broadcast standard grinds steadily forward. The Digital Radio Mundial (DRM) steering group met recently. The VOA was there and Dr. Kim Andrew Elliott presented a synopsis on Communications World on April 24, 1999. Here is what was said. (The following is an approximate transcript from the RealAudio archive file.)

Elliott: Don Messer is Chief of the VOA Office of Engineering, Spectrum Management Division. He was one of VOA's delegates at a DRM steering group meeting, held in Las Vegas just before the annual convention of the National Association of Broadcasters. Dontold methat some progress was made at that meeting towards the development of a digital shortwave standard.

Messer: Oh yeah Kim, there was quite a bit of this. Not so much at the meeting itself, where some decisions were made, but during the past couple of months we have completed some laboratory tests on different system components to get to digital shortwave as fast as possible. And we made a big decision about a month ago on what that system should look like. In other words, as a result of these laboratory tests, those were discussed at the steering board meeting and approved. You have to understand that this is a process where you do the work and then the steering board has to approve it. At the Las Vegas meeting itself, basically we rubber stamped things that were decided about a month ago. In addition we set up a schedule for testing of the new system.

Elliott: So the system you are envisioning, is it moving towards one that is dedicated or

one that combines analog and digital on the same or adjacent channels?

Messer: The final consumer product digital radio will have both the ability to receive standard double sideband AM and whatever the digital system is that turns out to be. That means you would still be able to tune in on analog programs if you choose to. The digital system itself is most likely to be a pure digital system contained within the ordinary 10 kHz channels. That's one of the big thingswe are trying to do-to make sure we can get better signals, higher quality, higher reliability still within the same 10 kHz channels. The results of our laboratory tests indicate that the best way to do that is to have a single dedicated digital channel 10 kHz wide not encumbered with anything else. This is not like the development going on in the US of In Band On Channel (IBOC) systems.

Elliott: You mentioned receivers—are receiver manufacturers still involved in the DRM meetings? Are they still on board?

Messer: Yes, they are. I didn't say this before but the DRM as a consortium has about 30 or 40 members of which about 6 or 8 are receiver or transmitter manufacturers. The main receiver manufacturers are Sony, Bosch, and Sangean. There are one or two others, but these three are doing most of the work. The Fraunhofer Institute in Germany is doing a lot of work on the source coding. So there is quite a bit of consumer awareness and understanding of what it takes to build a consumer product.

Elliott: With 10 kHz then dedicated to digital and no need to share any of that with analog,

it sounds like there may be room for data transmissions as well as audio.

Messer: Yes, there are two types of data transmission we are considering. One is to support programming—what is it you are listening to, is it music, is it the VOA or BBC, things like that. Then you look to see if you have enough bits left over, can you do something else with it? You have to understand that we only have 10 kHz and we are trying to make the audio as good as possible within the 10 kHz bandwidth. That's a top priority. The system is also being designed for medium wave transmissions—groundwave as well as skywave.

Elliott: Will the audio quality be FM quality, CD quality, how good?

Messer: Well CD quality-no, FM stereo quality-no, FM mono quality-probably. Its probably going to be around the quality of mono FM. It will certainly be better in the medium wave band (what we call AM broadcast in the USA) than current double sideband AM. In shortwave transmissions it is my guess that we may have to devote additional bits to error correction and error prevention and that will subtract from the total that we can send through. So quality will probably be less than we can do on the medium wave. But on the other hand, and this is extremely important for shortwave broadcasters, the signals will be noise free and fading free in the intended target areas.

Elliott: Can we expect some tests coming up to compare digital performance with standard analog performance under typical conditions of fading, adjacent channel interference, and co-channel interference?

Messer: Yes, Kim, we can expect comprehensive field tests by the end of this year both at shortwave and medium wave frequencies with as much variety as possible to test out multi-hop, daytime and nighttime situations, and various power levels. So I think that by the end of this year or certainly by this time

next year, we will have completed an extensive number of field tests to sort of nail things down.

Elliott: I know there are some experimentalist shortwave DXers out there who like to try the latest high end receivers and techniques. Will they have a chance to participate in these tests possibly by installing a card in their computer or something like that?

Messer: There is a possibility of that, but it's not in the plan right now. I haven't mentioned this before but I am the head of the DRM system evaluation group and I think I will suggest this as a possibility. I can't make a promise because it is hard to find hardware to do these tests but I will bring it up to the system evaluation group.

Elliott: Regarding jamming do you think digital shortwave will help overcome jamming?

Messer: I don't think it matters. These are not signals that are difficult to jam. The jammer usually has the power advantage being closer to the target area. All the evidence we have so far shows that these digital signals require less power under normal conditions. So if you want to get into a jam, antijam war you can always crank up the power. I expect if some body wants to jam they will still be able to do it. This is not a panacea for that.

Elliott: I was thinking of countries that might restrict the sale of shortwave radios with only the digital codes transmissions they want their people to hear.

Messer: Yes that kind of selective access is certainly possible.

Elliott: And it becomes more possible with digital transmissions than with analog?

Messer: Yes.

Until next time, stay tuned.

QV.

### Country List Committee Report

Don Jensen 5204 70th Street Kenosha, WI 53142 dnikenosha@acronet.net

The Country List Committee regularly receives questions about the list and its use. Here are some of those questions, and the answers.

"I am in the process of logging various countries for a NASWA award. I have a question for you arising from this endeavor.

"In which NASWA country are the VOA transmitters at Briech located. It seems that the present-day Morocco is divided into several radio countries, and I am not sure which one to use."

Present-day Morocco includes territory, which in years past was controlled colonially by France, Spain and a consortium of international powers (Tangier and surroundings). That's the reason for four different Morocco listings in the NASWA Country List

Some years ago, the VOA transmitter site was located within the 135 square mile international enclave of Tangier. VOA sources indicated that transmitter location was about one mile within the boundary of the old international zone. Reception of this VOA transmitter prior to the early 1990s would count as NASWA "radio country" MOROCCO-TANGIER (Tangier).

The VOA's current Briech, Morocco transmitter site is listed by World Radio TV Handbook as 35.43 N, 5.58 W. VOA sources indicate this is about seven miles south of the former transmitter location, or several miles outside the boundary of the old Tangier international zone. As a result, reception of transmissions from VOA's Briech site would count as "radio country" MOROCCO – FRENCH (French Morocco).

What a difference a few miles makes.

"But what about Monaco? Everybody knows that although some programming may originate in studios in Monte Carlo, there are NO shortwave transmitters located within the Principality. Why can Monaco be counted as a "radio country" when transmitters are located "several miles outside the boundary?"

While the NASWA Country List Committee normally tries to focus on geographical, political and historical factors in determining what shall be included in the list as a "radio country," there have been in past years a few exceptions based, simply, on hobby traditions.

As far as the committee is aware, there has never been a shortwave broadcast operation with transmitters actually inside Monaco. As a result, long ago, the DXing community simply accepted such stations as associated with Monaco regardless of the actual transmitter location. Rather than attempting to overturn a longstanding hobby practice, the NASWA Country List accepts it as an exception.

"A question that comes up from time to time is how and when to count former clandestines as bonafide stations once political conditions in the target country have changed. I am thinking of, say, Radio Miskut being counted as Nicaragua, or VORGAN as Angola. Unless I missed something, the general hobby consensus is that these stations' transmitters have always originated in the target country, but it is unclear, at least to me, whether they are acceptable for NASWA country counting purposes."

NASWA does not make a distinction between clandestine and non-clandestine authorized, or "legitimate" stations. The only factor to be considered is the station's transmitter location.

It is true that we do not know the location of many clandestine stations. Obviously, without that knowledge we are unable to count ANY country for reception of such a clandestine. But it also is true that in some cases, the location of the clandestine station's transmitter has been satisfactorily established and reported by what are considered to be reliable sources (press reports or the BBC Monitoring Service, for example). In cases where we do know the location of the clandestine station, that country may be counted.

A change of status from illegitimate clandestine to authorized station, such as the examples you cite, would not affect "radio country" counting if there is no change in transmitter location.

If you have questions about the NASWA Country List, you can direct them to Don Jensen, Chairman: NASWA Country List Committee, 5204 70th Street, Kenosha, WI 53142, oremail: dnjkenosha@acronet.net

#### Hardware Bits by Alan Johnson

New 24 Hour Clocks From MFJ—MFJ Enterprises has announced the availability of two new 24 hour analog display clocks. The MFJ-125 is a 12 inch clock with a quartz mechanism which runs off a "AA" battery. The main clock shows the time in 24 hour format and has a sweep second hand. Three smaller dials on the face of the clock show local time (12 hour format), day of week and date. The outer rim is black, the clock face is white and trim is gold. Suggested price is \$29.95. The MFJ-115 is reminiscent of the Mastercrafters clock that was popular in DX shacks of the '60's and '70's, at least in the black and white photos in the press release. It is a 12 inch clock but only displays 24 hour time. The outer ring has names of premier cities in each time zone, along with the number of hours time difference from UTC. The face of the clock has a north polar projection world map in blue and brown. It also runs from a single "AA" battery and is priced at \$24.95. MFJ Enterprises can be contacted at P.O. Box 494, Mississippi State, MS 39762, (601) 323-5869/ (800) 647-1800 (orders only) or on the Internet at www.mfjenterprises.com.

#### Welcome to the following new NASWA members

Barry M. Bernstein, Spring Valley, NY
Daniel C. Branning, Cockeysville, MD
Jim Etem, Kansas City, MO
Ronald Frantz, Muncy, PA
Paul Gacek, Laguna Beach, CA
Brian Helt, Long Prairie, MN
William J. Herman, Royersford, PA
Tari Livingston Hughes, Granada Hills, CA
John Jackson, Richardson, TX
Everett Kaelber, Sherman, CT
Michael A. Knaebel, Mount Vernon, IN
Herman A. Kruse, Winder, GA
Rob Lambert, Columbia, MO
Clifton P. Larose Jr., West Chatham, MA
Tim Martin, Falls Church, VA

Roy Melody, George Town, Grand Cayman, Cayman Islands, British West Indies
John W. Miles, La Jolla, CA
Paul H. Miller, Traverse City, MI
Kevin Miller, Hershey, PA
E. Russell Primm, Chicago, IL
Frank Reynolds, Rome, NY
Kurt Richter, Collegeville, PA
R. G. Schoeffler, Oklahoma City, OK
Michael M. Shaw, Beverly, MA
Rick C. Sitz, Bradenton, FL
Frederick F. Szymanski, Tampa, FL
Mrs. Jeanne Williams, Bangor, PA
Bobby Wright, Mount Airy, NC

### Listener's **Notebook**

Al Quaglieri P.O. Box 888 Albany, NY 12201-0888 FAX: (518) 453-0864 Internet: alcue@álbany.net

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Catching up on summer schedules this month!

AFGHANISTAN Takh	
support of the anti-Taleb	an Northern Alliance led by
Ahmad Shah Masud.	
0230-0330 Dari/Pashto	7070-v
1230-1330 Dari/Pashto	7070-v
(BBCM)	

ALBANIA In early May, Radio Tirana was down to a single transmitter on air at any given time. Schedule remains nominally:

0000-0500	Albanian	7270 6090.2
0145-0200	English	7160 6115
0230-0300	English	7160 6115
0300-2200	Albanian	6100v
0600-0800	Albanian	7109.96
0600-1000	Albanian	7109.96
0800-1000	Albanian	9584.92 7109.96
0800-1400	Albanian	7149.93
1000-1300	Albanian	9584.92
1400-1700	Albanian	7270 5985
1730-1800	German	9570 7215
1800-1830	Italian	7240 6109.95
1830-1845	Greek	7185 6109.95
1900-2015	Albanian	9575 7295 7105
1915-1930	English	9515v 7180
1930-2000	French	9635 7180
2000-2015	Turkish	7155 6115
2015-2200	Albanian	9575 7295
2115-2130	Serbian	7109.96 6135
2130-2200	English	9635 7160
2300-0000	Albanian	7270 6090.2
(BBCM +E	lueschel-G	ER)

AUSTRAL	A Radio	Australia:
0000-0100	English	9660 12080 15240 17580
		17750 17795 21740
0000-0100	Vietname	se 15415
0100-0200	English	9660 12080 15240 15415
		17580 17750 17795 21740
0200-0400	English	9660x 12080x 15240 15415
		15515 17580x 17750x 21725x
0400-0500	English	9660x 12080x 15240 15415
		15515 17580x 17750x 21725x
0500-0600	English	9660x 12080x 15240 15515
	_	17580x 17750x 21725x
0500-0600	Khmer	15415 17750
0600-0800	English	9660x 12080x 15240x 15415
	-	15515 17580x 17750x 21725x
0800-0830	English	5995 9710 12080 15415 15515

0600-0630	MOONESIA	1 13413 17730
0830-0900	English	5995 9710 12080 13605 15415
		15515 17750 21725
0900-1000	English	11880 13605 15415 17750
		21820
0900-1100	Tok	5995 9710 12080
1000-1100	English	11880 13605 15415 17750
		21820
1100-1200		9580 13605 15415 21820
1100-1230	Chinese	9500 11880
1200-1300	English	5995 6020 9580 11650 15145
		21820
1230-1330	Vietnames	se 9500 11880
1300-1400	English	5995 6020 9580 11650 21820
1330-1430	Vietnames	se 9500 11660 .
1400-1430	English	6180 9580 11650
1430-1500	English	6180 9500 9580 11650 11660
1500-1700	English	5995 6180 9500 9580 11660
1700-1800	English	6180 9550 9580 9660 11880
1800-2000	English	6080 7240 9550 9580 9660
		11880
2000-2100	English	9550 9580 9660 11880 12080
2000-2100	Tok	6080 7240
2100-2130	English	7240 9550 9580 9660 11880
		12080 17580 21740
2130-0000	Indonesia	n 11695 15415
2130-2200	English	7240 9660 11880 12080 17580
	•	21740
2200-2300	Chinese	15240
2200-2300	English	17580 17795 21740
2300-0000	English	9660 12080 17580 17795
	-	21740
2300-0000	Khmer	15240
(BBCM)		

21725

0800-0830 Indonesian 15415 17750

AUSTRIA ORF has begun the "Neighbour In Need" radio broadcast from 2000-0100 CET on 5985. Languages are Serbo-Croat, Albanian, English and German. (22-Apr/ORF Website/BC-DX/Bueschel-GER)

BELARUS 6070 Belarus is noted here, //6100 6115 6165 7140 7145 and 7210. I can't trace anything on 5965, so maybe 6070 is a replacement for this ? (30-Apr/Green-UK/BC-DX/Bueschel-GER)

BELGIUM Radio-Television Belge de la Communaute Francaise (RTBF) is the broadcasting organization of the French-speaking community in Belgium. This shortwave service, aimed at listeners in Africa, consists of relays of RTBF Domestic radio channels. It was inaugurated on 1st February 1999.

All broadcasts are transmitted via Deutsche Telekom facilities in Juelich, Germany. 0257-0459 French 9490 Mo-Fr 0427-0459 French 9490 Sa-Su 0500-0806 French 17580 Su 0500-0712 French 17580 Mo-Fr 0500-0959 French 17580 Sa 0957-1206 French 21540 Mo-Fr 1000-1117 French 21540 Sa 1057-1117 French 21540 Su 1457-1712 French 17800 Su-Fr 1557-1712 French 17800 Sa

Radio Vlaanderen Internationaal (RVI) is part of VRT, the broadcasting organization of the Flemish community in Belgium. RVI broadcasts in Dutch include relays of VRT Domestic radio services.

Transmitters outside Belgium are shown as follows: b-Bonaire (Netherlands Antilles); j-Juelich (Germany); m-Madagascar; pk-Petropavlosk-Kamchatskiy (Russia); t-Tashkent. URL: http://www.rvi.be 0400-0430 English 15565b 0430-0500 Dutch 15565h 0600-0700 Dutch 5985 13740 0700-0800 Dutch 11780 0700-0730 English 9925 15195 1000-1100 Dutch 17690 21505 Su 1100-1130 Dutch 5985 11780 1130-1200 English 5985 1200-1230 Dutch 9685pk 17685t 17690b 1300-1600 Dutch 9925 13740 21510 Su 1600-1630 Dutch 9925 13740 1700-1730 Dutch 5910 9925 1730-1800 English 5910 9925 11840m 13685j

1800-1900 Dutch 5910\* 9925\* 11840m 13685j 17735\* 21510

1800-2000 Dutch(sport) 5910 9925 17735 Sa

1900-1915 German 5960j 1915-1930 French 5960j 1930-2000 English 5960j 2000-2100 Dutch 5910 9925 2230-2300 English 15565b

2300-2330 Dutch 6070b 15565b (\* carries sports on Sundays) (BBCM)

RTBF has its own Kosovo programming, "Radio Balkans," from 2100-2200 on 7345. 2100-2115 in French, 2110-2200 in French and Albanian. It's intended to be a link between Kosovo refugees in Belgium and their families and friends in the Balkans. (I-May/Brems-RVI Golfgids/BC-DX/Bueschel-GER)

BULGARIA 0000-0100 Bulgarian 9400 11700

0000-0100 Bulgarian 9415 11600 0100-0200 French 9400 11700 0100-0200 Spanish 9415 9700 11600 0200-0300 English 9400 11700 0200-0300 Russian 5900 7500 0300-0400 Bulgarian 5900 7500 0400-0430 Greek 7400 Mo-Fr 0415-0500 Turkish 5900 7500 Mo-Fr 0430-0500 Albanian 7400 Mo-Fr 0430-0500 Greek 7400 Sa/Su 0500-0600 Serbian 7400 Mo-Fr 0500-0600 Turkish 5900 7500 Sa/Su 0515-0600 German 12000 13600 0600-0700 Albanian 7400 Sa/Su 0600-0700 French 12000 13600 0700-0800 Serbian 7400 Sa/Su 1000-1100 German 15700 17500 1100-1200 English 15700 17500 1200-1500 Bulgarian 5865 13600 1400-1500 Russian 9775 11700 13800 1500-1600 Bulgarian 9775 11700 13600 17500 1500-1545 Serbian 5865 1545-1630 Albanian 5865 1600-1800 Bulgarian 9775 11700 1600-1700 Spanish 15700 17500 1615-1700 German 9400 11720 1630-1715 Greek 5865 1700-1800 French 9400 11720 1715-1800 Turkish 5865 7500 1800-1900 Bulgarian 5865 7500 7545 1800-1900 German 9400 11720 1800-1900 Russian 9775 11700 1900-2100 Bulgarian 5865 7500 7545 1900-2000 English 9400 11720 2000-2100 French 9400 11720 2100-2200 English 9400 11720 2115-2215 Spanish 13800 15700 2300-0000 English 9400 11700 2300-0000 Russian 11900 2300-0000 Spanish 9415 11600 (BBCM)

CANADA RCI has added 15470 on their 2000-2130 broadcast; usually the best reception here in mid-USA compared with the other freqs aired at that time. At other times, 15325 is still better. They don't seem to have deleted any of the other freqs listed in the printed sked. So they must have added a transmitter? [//13650]. (28-Apr/Martin-MO/Review of International Broadcasting/Hauser-OK)

RCI Montreal in English/French 0500-0600 Mon-Fri on 7295, 9595, NF15330, NF15400 via BBC. 0500-0600 daily on 5995, 9755, NF11830 (listed in schedule 11930), NF 13755 via Sackville & on NF 6145 via Wertachtal. 1900-2000 in Fr on NF 15470 (listed in schedule 15265). 2000-2100 in En; 2100-2200 in En/Fr on NF 15470, NF 17570. (listed in schedule 15265 and 17870). (3-May/Panlview-BUL/BC-DX/Bueschel-GER)

CHINA CRI Beijing changes from May 2 include the following:

9870 1600-1657 English //9565 (x7190?) 11720 1500-1527, 1530-1557 Pashto? (x11515?) 11750 1500-1527 Persian (x9440?) 2200-2257 Spanish //7360, 9640, N13650 11775 (x6020 or 7120) 11825 1730-2227 Mandarin/French //7800. 9820, 15165 (x7335) 2200-2257 Spanish //7360, 9640, N11775 13650 (x6020 or 7120) 1700-1757 English //7405, 9570, 11910 15300 (x9710)15415 1500-2127 various\* (x7235) 1500, 1600,

1700, 1800 Russian; 1900, 1930 Czech;

2000, 2030 Polish; 2100-2127 English.

(3-May/Timofeyev-RUS/BC-DX/Bueschel-GER)

English services from May 2 are now listed:
0300-0400 9690E 0400-0500 9730G 9560C

0900-1100 15210J 11730K 1200-1300 11675K 6950B 7265B

1200-1300 9715B 11660B 11980\* 1300-1400 11660B 15180X 11980\*

1300-1400 11675K 11900J

1300-1500 7405

1400-1500 11825X 15110U

1400-1600 13685M 15125M

1500-1600 7160X 9785J

1600-1700 9870B

1600-1700 9870B1 9565J

1700-1800 9570X 7405J 11910X

1700-1800 9710\*

1900-2000 11750B 9440B 13650K\*

2000-2100 9440B

2000-2130 11735(alt: 11975)M 15500M

2000-2200 6950B 9535U 2100-2130 15415\* 2200-

2300 9880T B=Beijing; M=Mali; X=Xian; E=Spain; K=Kunming; U=Urumqi; C=Canada (Sackville); J=Jinhua; T=Taldom(Russia); \*=test freq from unspecified site. (EDXP/BC-DX/Bueschel-GER)

CONGO - DEMOCRATIC REPUBLIC 7205 La Volve du Peuple, Lubumbashi, \*0330 with a patriotic song on the Congo, same song until 0359, then NA followed by more songs. At 0411, ID in Fr as Lubumbashi, La Voix du Peuple, then day and date and the name of ancr, followed by talk on "Le Combat" prgm to commemorate the second anniversary to liberate the Congo. Also hrd at 1858 when Poland went off, until 1920 when covered by BBC. Good signal from here when Congo is alone, but not hrd when another stn is on the freq. 2130\*. (19-May/Vaghjee-MAU/NU/BC-DX/Bueschel-GER)

15244.43, RTV Nationale Congolaise 1820-1913\*
(t), signal too weak for comfort with sometimes words like "le peuple" or "le gouvernement" clearly audible. Local rhythms after 1830 and continuing past 1900. At 1905 Congo was mentioned several times.

Suddenly off around 1913. Taped. (23-Apr/Pijpers) Also noted in Mauritius at 0550 with good reception. (27-Apr/Vaghjee/DSWCI DX-Window/van den Boogert-TWN)

CONGO - REPUBLIC 9609.98 Radiodiffusion Congolalse, Brazzaville, \*0700-0705, open carrier came on 0659, then opening announcements (no anthem) at 0700:30, briefly at first by a woman, then by man in FF with definite mention of Brazzaville, short music bridge followed by talk continuing in FF. I was sitting on 9610.0 for woman's initial announcement that was garbled but may have been in EE; slight retuning to 9609.98 dramatically cleared up the voice modulation but by then man was into FF. (24-Apr/Clark-CAN/DSWCI DX-Window/van den Boogert-TWN)

CROATIA Croatian Radio. Some SW frequencies are relayed via transmitters at Juelich, Germany. Service:

 Croatlan Radio - Studio Zagreb First Program:

 0400-0900 Croatian
 5945 7365 9830

 0900-1500 Croatian
 7365 9830 13830

 1500-1700 Croatian
 7365 9830 13830 21475

 1700-1800 Croatian
 7365 13830

 1800-2000 Croatian
 13830

 2000-2100 Croatian
 13810

Croatian Radio Shortwave [External] Service: 0000-0100 Croatian/SS 9925 0100-0500 Croatian/EE 9925 0500-0900 Croatian/EE 13820

2300-0000 Croatian/SS 9925 (BBCM)

ID at 1300, (9-May/Novello-NC)

CUBA 9600 Radio Rebelde, 1210, here with usual mix of music and talk this morning. signal. ID by woman giving both 5025 and 9600 "a todo el Caribe" just before 1300; usual canned "Rebelde, La Habana"

From Radio Habana Website: Here are the frequencies on which you can listen to Radio Rebelde's new short wave service to Latin America and the Caribbean.in the morning hours: 6140 kHz to Caribbean with an omnidirectional antenna system, 9600 kHz to Central America with a curtain array The transmissions started this Saturday May 08 and are in parallel with Radio Rebelde's AM and FM frequencies the Tropical Band Service which continues on 5025 kHz You can send your signal reports and comments for this new Radio Rebelde service on short wave via Dxers Unlimited 's e mail address or by AIR MAIL to Radio Rebelde Short Wave Service, PO BOX 6277 Havana Cuba, Postal Code 10600, again, if you want to send your report of this new Radio Rebelde transmissions on short wave, use Dxers Unlimited's e-mail, that is arnie@radiohc.org, and via AIR MAIL send your reports to Radio Rebelde Short Wave Service PO BOX 6277, Havana Cuba. I expect Radio Rebelde is

going to receive a lot of requests for OSL cards from listeners of this new short wave service. Ah, and before I forget, as they have just started broadcasting on 49 and 31 meters, during our local morning here in Havana, they may be adjusting antennas, and their actual on the air schedule... Saturday I monitored them starting at 1100 hours UTC, on both 6140 and 9600 kHz... But maybe they will start earlier next week, so keep those frequencies on your radio's memories and check them starting at 1000 UTC Sunday and Monday... Their planned evening one hour broadcast will be on 6120 kHz from 03 to 04 UTC, and the frequency is 6120 kHz on the 49 meter band... So maybe many of you Dxers Unlimited's listeners will have a chance to catch this new Radio Rebelde short wave service on 6120 kHz tonight between 03 and 04 UTC. Send your e-mail reports directly to me, and I will be very happy to take them personally to Radio Rebelde's Director General Pedro Pablo Figueredo, the enthusiastic broadcaster that is making a big effort to provide Radio Rebelde's listeners in Cuba, the Caribbean and Latin America with a nice signal on short wave too ... (Sennitt/DSWCI DX-Window/van den Boogert-TWN)

New relays of China Radio International via Cuba on 5990 and 9570: Sat May 8 at 0035, 5990 was on with Spanish; but this time stayed on post 0100 with open carrier, and 9570 was not on, some proof that both are same tx; left a rx on 5990, and finally at 0142, English audio came up!; 0200 into Chinese still on 5990 instead of 9570 as previously, on this date allowing Romania to resume audibility at 0200 En on 9570 //11725. Then at 1157 9570 had OC, 1200 Chinese, 1208 brief tx break; Sat 2300 and 0000. 5990 with usual English, Spanish. Sun May 9 0100 9570 was missing. (14-May/Hauser/Review of International Broadcasting/BC-DX/Bueschel-GER)

### CZECH REPUBLIC Radio Prague: URL:

http://www.radio.cz (Real audio available) 0000-0027 English 13580 11615 0030-0057 Spanish 15380 11615 0100-0127 English 11615 7345 0130-0157 Czech 11615 7345 0200-0227 Spanish 11615 9955-(w) 7345 11615 9955-(w) 7345 0230-0257 Czech 0300-0327 English 11615 9955-(w) 7345 0330-0357 English 15530 11600 0600-0627 French 7345 5930 0630-0657 German 7345 5930 0700-0727 English 11600 9880 0730-0757 Spanish 11600 9880 0800-0827 French 11600 9880 0830-0857 Czech 21745 11600 0900-0930 English 21745 0930-0957 Czech 21745 1000-1027 German 9880 6055 1030-1057 English 11615 9880

1200-1229 German 7345 6055

1230-1257	Czech	7345 6055
1300-1327	English	17485 13580
1330-1357	Czech	17485 13580
1400-1427	Spanish	13580 11600
1430-1457		13580 11600
1500-1529	German	5930
1530-1557		21745 5930
1600-1627		21745 5930
1630-1657		21745 5930
1700-1727		21745 5930
1730-1757	_	21745 5930
1800-1827		13580 5930
1830-1857	French	13580 5930
1900-1927	Spanish	13580 5930
1930-1957	Czech	11600 5930
2000-2027	English	11600 5930
2030-2057	Spanish	11600 5930
2100-2130	Czech	15545 11600
2130-2157	English	15545 11600
2200-2257	French	15545 11600
2230-2300	English	15545 11600
2300-2327	Spanish	17485 11615
2330-2357		17485 11615
(BBCM)	-	

DENMARK Radio	Denmark:
0030-0055 Danish	15735 13805 11960
0130-0155 Danish	13805 13800 11960
0230-0255 Danish	13800
0330-0355 Danish	13800 11635 9475
0430-0455 Danish	13800 11635 9475
0530-0555 Danish	13800 12055 7465
0630-0655 Danish	18950 15705 9590 7180
0730-0755 Danish	15705 9590 7180
0830-0855 Danish	18950 18910
0930-0955 Danish	21755 18910
1030-1055 Danish	21755 11605
1130-1155 Danish	15735 11605
1230-1255 Danish	21755 18950 17535 15735
1330-1355 Danish	21755 18950 17535 9590
1430-1455 Danish	18950 17505
1530-1555 Danish	17505 15735 13805
1630-1655 Danish	21730 18950 13805 9985
1730-1755 Danish	21730 17505 15735 9985
1830-1855 Danish	21730 13800 7485 1062
1930-1955 Danish	18950 17505 15705 7485
2030-2055 Danish	9985 7485
2130-2155 Danish	12050
2230-2255 Danish	15735 12050
2330-2355 Danish	15735 13805 12050 9935
(BBCM)	

#### ECUADOR Latest HCJB schedule:

0000-0230 Portuguese 11920 0000-0300 Quechua 6080 3220 0000-0400 English 21455usb 12015 9745 0000-0500 Spanish 15140 6050 0030-0100 French 9635 0330-0430 Russian 11960 0400-0700 English 21455usb 12015 9745 0430-0500 German 11960 9885

0430-0500 Japanese 9765 0500-0515 Kikongo 9765 Mo-Fr 0530-0600 Czech 11875 Tu/We/Th/Sa/Su 11875 Mo/Fr 0530-0600 Slovak 0600-0630 German 11875 0630-0700 French 11875 0700-0730 Spanish 11875 11950 0700-0900 English 0700-1100 English 21455usb 15115 0800-0930 Portuguese 9745 0830-1000 Quechua 6110 6080 3220 0900-1030 Spanish 9765 0930-1000 German 6125 1000-1030 Quechua 6080 3220 1030-1100 Huarani 6050 1030-1100 Spanish 9765 6050 1030-1400 Quechua 6080 3220 1100-1300 Spanish 15140 11960 6050 21455usb 15115 12005 1100-1630 English 1130-1200 Japanese 11670 15295 15140 6050 1300-1500 Spanish 1500-0000 Spanish 15140 6050 1530-1800 Portuguese 15295 1600-1700 Rr/uzb/taj 15360uk 1630-1900 Spanish 21455usb 1700-1800 Rr/uk/ge/tat 11780uk 1830-1900 Czech 21470 17795 Tu/We/Th/Sa/Su 1830-1900 Slovak 21470 17795 Mo/Fr 1900-1930 French 21470 17660 1900-2200 English 21455usb 17660 1930-2000 German 21470 17660 2000-2030 French 21470 17660 2030-2100 Japanese 21470 17660 2100-2130 German 21470 17795 2100-2130 Quechua 6080 2100-2200 Arabic 12020uk 2130-0000 Quechua 9745 6080 2130-2230 Spanish 21470 17795 2200-2300 Japanese 21455usb 11680 2230-2330 German 11955 2300-0000 Portuguese 11920 2300-0000 Spanish 21455usb

FRANCE RFFs printed schedule shows "Meteo Marine" service at 1130-1200 on 6175, 13640, 15300, 15515, 17575 and 21645.

Radio France International in English, A99 schedule:

(BBCM)

1200-1300 9805C 11600X 15155 15195 15540G 1400-1500 17560 11910X 17680 1600-1700 11615 11995G 12015G 17850 1600-1730 15210 17605 G=via Gabon X=via Xian, China (1-May/RFI/PanIview-BUL/BC-DX/Bueschel-GER)

Changes in *RFI*'s Serbian/Albanian broadcasts: 0500-0600 on new 11975 (x7280) //9805 Additional program in Albanian Mon-Fri only, 1010-1030 on 11670 and 15155. (17-May/Panlview-BUL/BC-

DX/Bueschel-GER)

GEORGIA A strange radio called itself "Radio Khara" in a language like Georgian or Abkhaz or similar is on the air Mon & Thu only 1600-1632 on 4875, [Dusheti tx registered here]. News, playing western pop mx. Mailing addr is given: "Shona Rustaveli Prospect" in (presumed) Tbillis. (13-May/Pankov-BUL/BC-DX/Bueschel-GER)

Georgian Radio's external service identifies itself in Russian as "Radiostantsiva Gruziva"; the English service announces itself as "Programme Georgia". This schedule, is based mainly on monitoring observations. Broadcasts are erratic and not all transmissions have been confirmed. 0400-0530 Georgian 6080 Tu/Th 0500-0530 Russian 0530-0700 Georgian 6080 Tu-Th 0530-0600 English 11805 0600-0630 German 11805 0630-0700 English 6080 Tu-Th 0700-0730 Georgian 11910 0730-0800 English 11910 0830-0900 English 11910 0900-0930 Georgian 11910 1530-1600 English 6180 1600-1630 Georgian 6180 11910 1700-1730 English 1730-1800 German 11910 1730-1800 English 6080 Sa/Su 1830-1900 English 11760 1900-1930 Georgian 6080 Sa/Su 1900-1930 German 11760 1930-2000 Russian 11760 (BBCM)

The non-registered transmitter on approx. 9489.8 is on the air 0325-0600, Sat 1100-1200, Mon-Sat 1405-1700. Reported progrs: Abkhaz Radio in Abkhaz, Russian, Georgian, Vernaculars 0325-0445, Sat 1100-1200, Mon-Sat 1405-1445. Radio Sochi in Russian 1445-1500 on Sat, other times Radio Rossii. (Apr/Pankov-BUL/BC-DX/Bueschel-GER)

GERMANY Schedules of Juelich rentals: Hrvatski Informativni Centar (HIC) in Croatian: 0100-0500 9925

0500-0700 13820 0700-0900 13820 2000-2100 13810 2300-0100 9925

Brother Stair/The Overcomer Ministry/TOM/in English:

0200-0400 9860 0600-1000 13810 1600-1800 13810 1700-2100 3965

Adventist World Radio (AWR):

1600-1700 Bulgarian 9875 2000-2100 11695 Su 1700-1800 Romanian 9875 1800-1830 Armenian 9475 Su/Tu/We/Th Volce of Deliverance in English: 1830-1900 Russian 9475 Su/Tu/We/Th 0100-0130 9855 Mo 2000-2030 French 15560 2030-2100 English 15560 Voice of Orthodox in Russian: 2100-2330 Arabic/French 9490 1500-1600 11900 We 2130-2200 Dvula 15560 (3-May/PanIview-BUL/BC-DX/Bueschel-GER) Trans World Radio (TWR): HUNGARY Radio Budapest: 0645-0850 English 6045 0000-0100 Hungarian 9810 1230-1315 Slavic langs 9490 0100-0130 English 9560 0130-0230 Hungarian 9840 High Adventure Ministry (HAM) - Voice of Hope: 0230-0300 English 9840 0700-1100 English/var 5975 0300-0330 Russian 6025 3975 1330-1530 English/var 15715 0330-0400 Ukrainian 6025 3975 0400-0430 Romanian 6025 Das Wort Universelles Leben / The Word Universal 0430-0500 Croatian 6025 Life: 0500-0530 Slovak 6025 1600-1630 French 15105 Su 0530-0600 Serbian 6025 1730-1800 German 6195 Mo-We 0600-0630 Croatian 6025 1730-1800 Spanish 6195 Sa 0630-0700 Serbian 6025 1800-1830 English 11830 Su 0730-0800 Romanian 6025 1830-1900 English 11785 Su 0800-1200 Hungarian 6025 1830-1900 French 11785 Th 1000-1100 Hungarian 21560 9735 Mo-Sa 1100-1200 Hungarian 21560 9735 Su Good News World Radio in English: 1200-1300 German 7220 6025 Su 0100-0200 9855 Su 1330-1430 German 6025 Fr 0700-0800 13740 Su 1400-1430 German 6025 0900-1000 5995 Sa 1400-1430 Hungarian 6025 Mo-Sa .1300-1400 15330 Sa 1430-1500 Russian 11905 6025 1600-1700 15105 Sa 1500-1530 Croatian 6025 1700-1800 11795 Sa 1530-1600 Romanian 6025 2300-2400 9405 Su 1600-1630 Ukrainian 6025 3975 1630-1700 Slovak 6025 Addr: Good News World, PO Box 895, Fort Worth, TX 76101, USA 1700-1800 German 6025 3975 Su 1700-1730 Serbian 6025 Mo-Sa e-mail: hope@goodnewsworld.org 1730-1800 German 6025 3975 Mo-Sa 1800-1900 Hungarian Christliche Wissenschaft - Christian Science (WSHB) 6025 3975 1900-1930 English 7170 6025 in German: 1930-2000 Serbian 0900-1000 5985 Su 6025 Su 1930-2000 German 7170 6025 Mo-Sa Democratic Voice of Burma in Burmese: 2000-2100 Hungarian 15235 6025 3975 1245-1345 17750 2100-2130 English 6025 2130-2200 English 3975 1430-1455 17750 2200-2300 Hungarian 17565 15120 Su-Fr 2300-0000 Hungarian 17565 15120 Su Sunrise Radio in English and Indian langs: (BBCM) 0600-2000 5850 IBC Tamil See in Tamil: INDONESIA Voice of Indonesia, the external service of Radio Republik Indonesia, based entirely on 0000-0100 9355 monitoring observations: 0030-0100 Spanish 9525 Radio Rainbow in Amharic: 0100-0200 English 9525 0100-0200 9855 Sa 0200-0300 Indonesian 9525 0900-1000 5995 Su 0300-0400 Arabic 9525 1600-1700 15105 Th 0800-0900 English 9525 0900-1000 Malay 9525 Volce of Oromo Liberation in Oromo: 1700-1800 15715 Th/Fr/Sa 1000-1030 Thai 9525 1030-1130 Chinese 9525 1130-1200 Japanese 9525 Lutherlan Hour in French:

1200-1300 Indonesian 9525	2000-2100 Russian 7175 7305 11660
1730-1800 Spanish 15150	2030-2130 Spanish 7260 9022
1800-1900 German 15150	2130-2230 Bosnian 7285 9515 11660
1900-2000 French 15150	2130-2230 English 11740 13745
2000-2100 English 15150	2230-2330 Hausa 9022
(BBCM)	2330-0030 Chinese 7215 17560 21485 21570
	2330-0030 French 9022 9795 11970
IRAN Islamic Republic of Iran Broadcasting (IRIB)	(BBCM + Green-UK/BC-DX/Bueschel-GER)
URL: http://www.irib.com/ (Real Audio available)	IMINI AN AND SERVICE
0030-0130 Bengali 9515 11835 13640	VOIRI ARABIC SERVICE
0030-0130 English 9022 9795 11970	0000-0130 Arabic 7105 9785
0130-0230 Spanish 9515 11730 13605 13700	0130-0200 Arabic 7105 9785 13660
0130-0230 Urdu 9525 9590 13640	0200-0330 Arabic 13660
0230-0330 Pashto 11670 13605	0330-0530 Arabic 6020 7105 9610 9785 13775
0230-0330 Spanish 13605	0530-0800 Arabic 15125
0300-0330 Armenian 11800	0800-0930 Arabic 15125 21470
0330-0430 Swahili 13605 15320 15610 17590	0930-1030 Arabic 13615 15125 21470
0330-0530 Azeri 13590	1030-1100 Arabic 13615 15125
0430-0600 Turkish 15140 15365	1100-1130 Arabic 13615 15125 17570
0530-0630 Bosnian 15230 17565	1130-1330 Arabic 13615 15125
0530-0630 Spanish 15260 17780	1330-1630 Arabic 13615 13645 15125
0545-0630 Hausa 17600 21470 21810	1630-1730 Arabic 13645
0630-0730 French 17780 21470 21770	1730-1800 Arabic 9870 13645 13730
0630-0730 Italian 9022 15084 17560 17605	1800-2000 Arabic 9870 11815 11965 13645
0630-0730 Albanian 15230 15260 17585	13730
0730-0830 German 15084 15185 21770	2000-2130 Arabic 11815 11965 13645 13730
0930-1000 Armenian 11660 11705 15260	2130-0000 Arabic 7105 9785
1000-1100 Swahili 15560 17570	(BBCM)
1100-1230 English 15255 15430 17560 21510	
1200-1300 Italian 15084 15185 17495	ISRAEL Israel Broadcasting Authority (Kol Israel,
1230-1330 Malay 15120 15590 17510 21510	0000-0500 Hebrew-b 11585 15615 15640
1230-1330 Pashto 9505 9790 11855 13710	0300-0530 Arabic-d 5915 9815
1330-1430 Chinese 11885 15200 15370 17580	0400-0415 English 9435 11605 17535
17630	0500-0515 French 15640 17555
1330-1430 Urdu 7275 9525 9790 11725 11775	0500-1500 Hebrew-b 15615 17545
11875 13710 15120	0530-1200 Arabic-d 5915 15480
1430-1500 Urdu 9525 9790 11725 11775 13710	1000-1030 French 15640 17535
15120	1030-1035 English 15640 17535
1400-1500 Russian 9735 11930 11960 15280	1200-1215 Bukharian 15640 17535
1430-1530 Bengali 9535 11665 11680 11875	1200-2115 Arabic-d 5915 9815 15480
1430-1530 Pashto 7275	1215-1230 Georgian 15640 17535
1500-1530 Kazakh 11850 13645 15120	1400-1430 English 15650 17535
1500-1530 Hindi 7150 9525 11775	1400-1500 Persian 9435 17555
1530-1630 English 7250 11680 13605 15150	1500-1525 Persian 9435 11605 17555 Su-Th
1530-1630 Russian 9740 11745 11770 11850	1500-1525 SS/Ladino 17535 17555 21630 Sa
13690 15405	1500-1600 Hebrew-b 15615 17545
1530-1730 Urdu 7275	1530-1555 French 11605 15650 17535
1600-1730 Turkish 9022 9545 11815	1600-1625 Yiddish 9435 11605 15640 15650
1630-1730 Armenian 6005 6185 7235	1600-1635 Moghrabi 15650
1630-1830 Azeri 7170	1600-1645 Romanian 9435 11605
1630-1730 Pashto 7295 11740	1600-1700 Hebrew-b 11590 15615 17545
1730-1830 Bosnian 7295 9610 11660 13720	1635-1645 Spanish 15650
1730-1830 German 9022 11680 11815 13685	1645-1700 Hungarian 9435 11605 15640
1730-1830 Russian 7115 7200 7300 9625 11855	1645-1700 Ladino 15650
1730-1830 Swahili 11750 15320 15370	1700-1800 Hebrew-b 9390 11590 15615 17545
1830-1930 Albanian 7295 9610 11660 13720	1700-1800 Yiddish 9435 11605
1830-1930 French 9022 11680 11900 13790	1800-1845 Hebrew-b 11585 15615 15650 17545
15130	1800-1900 Russian 9435 11605

1930-1945 French 11605 15640 15650 17535 1945-2000 Spanish 11605 15640 15650 17545 2000-2115 Hebrew-b 9390 11585 15615 15640 2115-2215 Arabic-d 9815 2200-0000 Hebrew-b 11585 15615 15640 2330-2335 English (BBCM)

ITALY IRRS-Shortwave, operated by NEXUS-International Broadcasting Association, uses a 10-kW shortwave transmitter operating in A3A mode (reduced carrier USB).

0500-0630 EE/Italian 3985
0630-1200 EE/II/GG 7120 Sa/Su
1700-2200 EE/II/GG 3985
(BBCM)

JAPAN Some new freqs of Radio Japan NHK World Network: 0430-0700 in Russian, Spanish, Italian, Swedish, German, French on new 15355 via Gabon. 0800-1000 in Japanese on new 17650 via Ascension relay. 1500-1600 in Japanese on new 21600 via French Guiana. (17-May/PanIview-BUL/BC-DX/Bueschel-GER)

JORDAN *Radio Jordan* was noted on two new freqs 15290 1100-1300 (x15355), 13630 1300-1630 (x136207). (27-Apr/Timofeyev-RUS/BC-DX/Bueschel-GER)

KAZAKHSTAN Kazakh Radio has again changed its SW schedule, this time to 2300-0300 and 1300-1700 on new 12115 (strange, but very good choice) with 1st progr relay in Kazakh and Russian (instead of 2nd progr in Kazakh). (3-May/Timofeyev-RUS/BC-DX/Bueschel-GER)

LAOS Luang Prabang is loud and clear locally on 705 only, and is on most of the day except local afternoons and late evenings. No sign of anything on IIF, so it looks as though 6973v is definitely inactive. 705 relays Vientiane at 0000-0030, 0500-0530 and 1200-1230, apparently using 6130 as the source as it carries the intermittent background howling which has recently appeared on 6130. (20-Apr/Davies-LAO/BC-DX/Bueschel-GER)

#### LITHUANIA Radio Vilnius: 0000-0030 Lithuanian 9855-Germany 0030-0100 English 9855-Germany 9555S 9710 (Radio 1 DS) 0900-0930 Lithuanian 0930-1000 English 9555S 9710 (Radio Vilnius) 1000-1030 Lithuanian 9555S 9710 (Radio Vilnius) 1030-1200 Lithuanian 9555S 9710 (Radio 1 DS) Mo-Sa 1200-1300 German 9555S 9710 (Universelles Leben) 9555S 9710 (Universelles 1300-1330 English Leben)

1330-1355 Lithuanian 9555S (Radio 2 DS)

1355-1425 Russian 95558 1425-1435 Byelorussian 95558 2100-2130 Lithuanian 1557 666 2130-2200 English 1557 666 S=via Sitkunai, new 100 kW site (BBCM + Lieberwirth-GER, Trutenau-LTU, Bueschel-GER)

MALAYSIA Updated sked for RTM, including Voice of Malaysia (VOM), Voice of Islam (VOI), and Domestic service relays:

4845	Radio 6 - 2100-1500 Tamil to W,
	Malaysia
5965	Radio 1 - 24 hrs Malay to W. Malaysia
6025	Radio 8 (Radio Penerengan) - 0400-0700
	to W. Malaysia
6025	Orang Asli (local Aboriginal languages) -
	0700-1300 to W Malaysia

6025 Voice of Islam - 1400-1600 Malay to W. Malaysia
6100 VOM - 2200-0000 Indonesian to E. Malaysia and Kalimantan

6100 VOM - 1300-1430 Thai to Thailand 6100 VOM - 1430-1530 Burmese to Myanmar

6175 VOM - 1700-1900 Malay to W. Sumatra 6175 VOM - 2200-0000 Indonesian to W. Sumatra

6175 VOI - 0500-0700 English to W. Sumatra
6175 VOM - 0700-0830 English to W. Sumatra
6175 VOM - 1300-1430 Thai to Thailand

6175 VOI - 1400-1600 Malay to W. Sumatra 7295 Radio 4 - 24 hrs English to W. Malaysia 9750 VOM - 1700-1900 Malay to Java

9750 VOM - 2200-0000 Indonesian to Java 9750 VOI - 0500-0700 English to Java 9750 VOM - 0700-0830 English to Java

9750 VOM - 0900-1400 Indonesian to Java 9750 VOI - 1400-1600 Malay to Java,

Kalimantan, Sumatra
11885 VOM - 1030-1230 Mandarin to China and
Japan

15295 VOI - 0500-0700 English to Australia and NZ

VOM - 0700-0830 English to Australia

and NZ 15295 VOM - 0830-1030 Malay to Australia and

NZ 15295 VOM - 1030-1230 Mandarin to Australia,

NZ, Taiwan, Indonesia 15295 VOM - 1530-1700 Arabic to ME, N. Africa

15295 VOM - 1700-1900 Malay to ME, N. Africa. (Padula-AUS/EDXP)

MALTA Voice of the Mediterranean (VOM) is a non-commercial external radio broadcaster. VOM's services to Europe are funded by the governments of Malta and Libya, but transmissions to other areas, which identify on the air as "Valletta Calling", are financed by the Maltese government. The station currently broadcasts on shortwave via hired transmitters in Italy and Russia.

15295

URL:http://ww	w.vom-m	alta.org.mt (Contains
RealAudio)		
0500-0600 Jag	panese 17	570-Russia Su
0500-0530 Ita	lian 71	55-Italy Mo-Sa
0530-0600 En	glish 71	55-Italy Mo-Sa
0600-0630 Ar	abic 71	55-Italy Mo-Sa
0700-0800 Ita	lian 11	770-Italy Su
0800-0900 En	glish 11	770-Italy Su
0900-1000 Ma	altese 11	770-Italy Su
1000-1100 Fre	ench 11	770-Italy Su
1100-1200 Ge	rman 11	770-Italy Su
1900-2000 Ar	abic 12	060-Russia Fr
1900-2000 En	glish 12	060-Russia Sa-Th
2000-2030 Fr	ench 12	060-Russia Su
2000-2100 Ar	abic 12	060-Russia Mo-Sa
2030-2100 Ge	rman 12	060-Russia Su
(BBCM)		

#### MAURITANIA Radio of the Islamic Republic of Mauritania:

0625-0800 Arabic 0800-1800 Arabic 1800-0100 Arabic (BBCM) 4845v

#### MOLDOVA Radio Moldova International via

Galbeni, Romania: 0200-0225 Spanish 9400 0230-0300 Romanian 7520 0300-0325 English 7520 0330-0355 Russian 7520 0400-0425 English 7520 1100-1125 Spanish 11580 1130-1200 Romanian 11580 1800-1825 Russian 7520 1900-1925 French 7520 1930-1955 Spanish 7520 2000-2025 French 7520 2030-2055 English 7520 2100-2125 Spanish 7520 2130-2155 English 7520 (20-May/Moraru-RMI/Margenet/BC-DX/Bueschel-GER)

MONACO Trans World Radio (TWR) from transmitters in Albania (a); Cyprus (c); France (f); Germany (g); Kamo, Armenia (k), Moldova (m): 0515-0530 Polish 9845a 7385a Fr-We 0645-0655 English 9870f 6045f Sa/Su 9870f 6045f Mofr 0655-0820 English 0820-0850 English 9870f 6045f Su 0830-0845 Hungarian 9490a 7385a Tu-Sa 9795171601 0830-0845 German 0845-0915 German 9795f 7160f Su 0845-0900 Slovak 9490f 7385f Mo/Tu/We/Fr 0845-0900 Czech 9490f 7385f Sa 1030-1100 Slovak 9490f 7385f Sa 1230-1245 Serbian 9490f 7255f Th 1230-1245 Croatian 9490f 7255f Fr-We 1245-1315 Macedonian 9490f 7255f Su 1245-1315 Croatian 9490f 7255f Mo-Fr

1245-1315 Slovene 9490f 7255f Sa 1315-1330 German 9795f 7160f Sa 9795f 7160f 1330-1400 German 1340-1355 Russian 11635a 9705a Tu-Su 1355-1425 Russian 11635a 9705a Tu-Fr 1425-1440 Russian 11635a 9705a Mo-Sa 1440-1455 Russian 11635a 9705a Mo-Fr 1500-1515 Armenian 12080a 9945a 1500-1530 Polish 9705a 7385a 1515-1530 Czech 7355f 6235f Mo/Tu/Th/Fr 1515-1530 Armenian 12080a 9945a Mo-Fr 1600-1645 Romanian 9490 5840 1615-1630 Slovak 7355f 6235f We/Sa/Su 1630-1700 Czech 7355f 6235f Mo-Fr 1635-1735 Persian 12090a 9475a 1700-1715 Hungarian 7355f 6235f 7355f 6235f Mo-Sa 1715-1730 Hungarian 1800-1815 Russian 11635a 9590a 1815-1845 Belarusian 11635a 9590a Mo 1815-1845 Russian 11635a 9590a Tu-Sa (BBCM)

NAMIBIA 7165.12 NBC Windhoek, new frequency, \*0600-0645 carrier with audio coming on slightly late at 0600:25 with woman in EE, already into nx headlines, then news in detail, 0606 ID "you are listening to NBC nx," more nx, ads, NA at 0615, into tribal language program. Namibia was last listed on 7165 in PWBR94, being an alternate frequency for 6175 at 0600-1600 (Program 2). Tribal language after the nx suggests 7165 is now in use for Program 1 of the National Service, whereas Program 2 is Afrikaans and GM. Prgms 1 & 2 are listed in PWBR99 at this time on 4930 & 4965 respectively, so I suspect the reactivated 7165 replaces 4930. (28-Apr/Clark-ONT)

NEPAL Radio Nepal is back on its summer frequency of 7164.2 replacing 3229.8. Sign on at 0012 with 5005.3 in //. Also heard in their evening 1130, sign off at 1715. Interesting to note that ILG lists R.Nepal on 6140! (17-Apr/Goonetilleke-SRI/DSWCI DX-Window/van den Boogert-TWN)

NETHERLANDS Radio Netherlands (RN) uses transmitters at Flevo (Netherlands)-f and relays: Bonaire-b; Madagascar-m; Tashkent-t; Germany: Juelich -j; Wertachtal-w; Russia: Irkutsk-i, Khabarovsk-k, Kaliningrad-l, Petropavlovsk-Kamchatskiy-p, Wolvertem (Belgium)-g, Singapore-s. 0000-0025 Dutch 17580k 9590s 7280m 0000-0025 Spanish 15315b 11715f 9895f 0025-0125 Spanish 15315b 9895f 0130-0225 Dutch 15315b 11865b 9895b 6165b 0230-0435 Spanish 9590b 6165b 0330-0425 Dutch 15560m 9855m 0430-0525 English 9590b 6165b 0500-0600 Dutch 9895f 7130f 5955f 0530-0625 Dutch 9715b 6165b 0600-0800 Dutch 13655i (to 0700 Jul-Aug)

11935f 9895f 5955f

11655b 9820b

0700-0800 Dutch

0800-1700 Dutch 13	3700f 9895f 5955f	1830-1900 Norweigian	n 1314
0930-1015 Dutch-Carib	6020b Mo-Sa	1900-1930 Norwegian	18950 17505 15705 7485
0930-1125 English 13	3710i 12065p 9820b	2000-2030 Norwegian	9985 7485
1030-1125 Dutch 21	1480m 17580m 9720b	2100-2130 Norwegian	12050
1030-1225 English 98	860w 6045j	2200-2230 Norwegian	15735 12050
1130-1155 Spanish 13	7605b 9715b 6020b	(BBCM)	
1130-1325 Indonesian	21480m 17580m 11690s	•	
1200-1225 Spanish 97	715b 6020b	OMAN New freqs of A	Radio Oman in Arabic for A-99
1330-1425 Dutch 21	1485m 17760m 13695k	period: 0200-0500 NF	15355(34334); 0500-0800 NF
12	2065p 5930p	17580(45544), (18-Ap	r/PanIview-BUL/BC-
1430-1625 English 15	5590m 12075t 9890m	DX/Bueschel-GER)	
1630-1725 Dutch 11	1655m 6020m	·	
1730-1825 Dutch 2	1590b 15560f 13700f 9895f	PAKISTAN Radio Pa	ıklstan;
1730-1830 English 11	1655f 7120m 6020m		7155 9740
1830-2025 English 21	1590b 17605b 13700f 11655f	0100-0215 Urdu	15480 17895
91	895f 7120m 6020m	0130-0200 Bengali	11930 15455
2030-2125 Dutch 2	1590b 17605b 15315b 11655f	0200-0230 Assamese	
91	895f 7120m 6020f 6015m	0200-0245 English	11930 15455 17895
51	835-1	0330-0400 Gujarati	15325 17555
2130-2225 Dutch 1:	5315b 15155b 13700f 9895f	0500-0700 Urdu	15175 17555 21460
60	020b	0800-1100 Urdu	15530 17835 (0805 nx in EE)
2130-2230 Indonesian	9590m 7285m	0900-0930 Indonesian	15405 21475
2230-0000 Spanish 1:	5315b 11715b 9895f	1000-1030 Tamil	15465 17560
2230-2325 Indonesian	9590m 7285m 6120s	1100-1200 Hindi	9510 11995 15465
2330-0000 Dutch 1	7580k 9590s 7280m	1105-1120 English	15540 17835
2330-0000 English 98	845b 6165b	1200-1230 Chinese	11895 15465
(BBCM)		1200-1245 Bengali	15625 17660
		1330-1530 Urdu	11570 15465 17535 (EE nx
NEW ZEALAND Radi	io New Zealand		1400)
International, all in Eng	glish:	1430-1500 Turki	6075 7260
0000-0706 17675		1515-1545 Russian	7260 9330
0706-1015 9700		1600-1630 English	15335 15465 17535 17720
1206-1500 6105 occasi	onal sports		17720
1500-1650 6145		1700-1730 Turkish	9770 11600
1650-1750 6145 Mo-Fr	r	1700-1900 Urdu	11570 15335

NORWAY	D - 41 -	A	V	A TIDE .
NURWAY	Kadio	Norway	Internations	w ukt.:

1750-1955 11695

1955-0000 17675

(BBCM)

	2
http://www.nrk.no/radionorway	
0000-0030 Norwegian	15735 13805 11960
0100-0130 Norwegian	13805 13800 11960
0200-0230 Norwegian	13800
0300-0330 Norwegian	13800 11635 9475
0400-0430 Norwegian	13800 11635 9475
0500-0530 Norwegian	13800 12055 7465
0600-0630 Norwegian	18950 15705 9590 7180
0700-0730 Norwegian	15705 9590 7180
0800-0830 Norwegian	18950 18910
0900-0930 Norwegian	21755 18910
1000-1030 Norwegian	21755 11605
1100-1130 Norwegian	15735 11605
1200-1230 Norwegian	21755 18950 17535 15735
1205-0330 Norwegian	15735 13805 12050
1300-1330 Norwegian	21755 18950 17535 9540
1400-1430 Norwegian	18950 17505
1500-1530 Norwegian	17505 13805
1600-1630 Norwegian	21730 18950 13805 9985
1700-1730 Norwegian	21730 17505 15735 9985
1800-1830 Norwegian	21730 13800 7485 1314

1800-1845 Arabic 11635 15735 11600 1800-1900 Urdu 11570 15335 1930-2000 French (BBCM) PAPUA NEW GUINEA For many years, about six of the various Provincial stations have been inactive at any one time. Currently, the absentees are: 2410 Wabag -since March 1999 3205 Vanimo - since February 1999 3290 Port Moresby - since July 1997 3305 Daru - since August 198 Kundiawa - since October 1998 3355 Goroka - since February 1999 3395 I suspect that the Daru transmitter was moved in August 1998 to Lae to relocate damaged unit there, but considering the importance of the Western Province, I expect that it will later obtain another transmitter. Wabag, Vanimo, and Goroko all have NBC medium-wave transmitters (if operational) so this could mean that the HF outlets have been terminated by the provincial governments. Kundiawa is located between Mt Hagen and Goroka and would

be within range of the Goroka MF outlet 50 km to the

east).

Overseas listeners perhaps would not be aware how close together the highlands' provinces really are. From Mendi and Wabag in the west to Goroka in the east is about 200 km in a direct line The national Government has wanted for many years to reduce the number (19) of provincial stations throughout PNG despite public opposition.

The previously proposed "Kundu National" program, on HF from Port Moresby in Pidgin and Motu has been shelved due to the reduced NBC budget allocation, but these languages or dialects are now included in the Karai program on Mondays to Fridays on MF and HF.

Port Moresby has two 100 kW Continental transmitters at Waigani in the northern part of the city(near Parliament House). Both are operational and are used on different days for the 9675/4890 service.

The transmitter for Radio North Solomons is still cosited with the unit for Radio East New Britain an Kokodo, near Rabaul, judging by the telephone audio quality. A 10 kW Continental unit was purchased in 1994 and installed at Kokodo for this purpose, the site suffered some ash damage in the December 1994 volcanic eruption. The studio building for Radio North Solomons is located in Buka at the northern extremity of Bougainville Island. The Kieta facilities were destroyed years ago, early in the fighting, and have not been rebuilt, to my knowledge. The studio building in Rabaul, for Radio East New Britain, is currently being rebuilt with Japanese financial aid. (10-May/Jones/EDXP/Padula-AUS)

PHILIPPINES 9581a DZRM (or other MW relay), May 4, 0835, Tagalog male talk including English phrases such as, "Top Stories." Telephone interview with female who mentioned, "Quezon City." Background mx was evident. This freq has been used by Filipino bes in the past. Fair-poor. (12-May/Famularo/DXW/BC-DX/Bueschel-GER)

## Radio Veritas Asia schedule:

0000-0025 Karen 9535 0000-0025 Sinhala 11805 0030-0055 Kachin 9535 0030-0055 Tamil 11805 0100-0125 Bengali 15335 0100-0125 Telugu 15530 0130-0155 Hindi 15335 0130-0225 Vietnamese 15530 0200-0225 Urdu 15335 0230-0325 Russian 11805 1000-1025 Hmong 9555 1000-1155 Mandarin 9520 1030-1125 Vietnamese 11850 1130-1155 Burmese 9670 1200-1225 Indonesian 9505 1200-1225 Karen 9670 1230-1255 Kachin 9670

1300-1325	Vietnames	sc	72	65
1330-1355	Hindi	96	80	
1330-1355	Sinhala	96	60	
1400-1425	Bengali	96	80	
1400-1425	Tamil	95	95	
1430-1455	Telugu	95	95	
1430-1525	Russian	96	60	
1500-1525			-	We/Fr
1525-1555	Filipino	96	10	Su
1530-1555				
1530-1555	Zomi-Chi	n	95	25 Mo/Tu/Th/Sa
2100-2255		-		
2230-2255	Filipino	60	75	
2300-2325	Indonesia	n	95	05
2300-2325	Indonesia	n	11	820
2330-2355	Burmese	95	35	
2330-2355				
(25-Apr/via	AE/BC-D	X/	Bu	eschel-GER)

#### POLAND Radio Polonia: URL:

http://www.radio.com.pl/polonia/ URL: http://www.wrn.org/audio/html (Contains RealAudio) 6015 7285 Mo 1000-1030 Slovak 1000-1030 Czech 6015 7285 Tu-Su 1030-1100 Polish 6015 7285 1100-1130 Polish 7270 7285 7305 9540 1100-1130 Russian 1130-1200 Belarusian 6050 7285 1130-1200 German 6095 9525 1200-1300 English 6095 7270 9525 11820 1300-1330 Lithuanian 6095 7305 1300-1330 Russian 7285 9525 1330-1425 Belarusian 5995 7275 1330-1400 Esperanto 7225 7285 1400-1430 German 6095 7285 1430-1500 Russian 6095 7275 1430-1500 Ukrainian 6110 7285 1500-1530 Lithuanian 6035 7180 1500-1530 Ukrainian 6095 7205 1530-1630 Polish 6035 7285 1530-1600 Ukrainian 6095 7180 1600-1630 Slovak 6095 7215 Su 1600-1625 Czech 6095 7215 Mo-Sa 1630-1700 Belarusian 6165 7285 1630-1700 Ukrainian 6035 7180 1700-1800 English 6000 7285 1700-1800 Belarusian 6035 7180 1800-1830 Esperanto 6095 7205 1800-1830 Russian 6000 7180 1900-1930 Russian 6035 6095 7215 7270 1930-2030 English 6035 6095 7285 9525

#### PORTUGAL RDP Lisbon schedule:

2030-2100 Ukrainian 6095 7270

2030-2100 Esperanto

2030-2100 Belarusian

2100-2200 Polish

(BBCM)

0000-0200 Portuguese 9715 11655 11840 13700

15295 Mo-Fr

6085 7285

6035 6095 7270

6035 6095 7285 7285

0500-0600 Portuguese 11960 15140 15585 Mo-Fr

0600-0645 Portuguese 11960 15140 15585 21	655 15340 17790 17865 Su
Mo-Fr	0900-1000 Romanian_seamen
0600-0700 Portuguese 21655 Sa-Su	15340 17745 17790 17840 21490
0645-0700 Portuguese 11660 11960 15140 15	
21655 Mo-Fr	1200-1300 Romanian 9530 11970 15340
0700-0800 Portuguese 11660 11960 15140 2	655 1200-1300 German 11775 15390 15405 17805
Mo-Fr	1300-1400 English 9690 15390 15445 17720 1306-1400 Russian 11905 15405 17745
0700-0830 Portuguese 9780 15555 17725 210	
Sa-Su	
0800-1000 Portuguese 11960 15140 21655 M	
0830-1000 Portuguese 9780 11995 15555 17	1500-1600 French 15380 17805 17815
21655 Sa-Su 1000-1155 Portuguese 9780 15555 17725 17	
1000-1155 Portuguese 9780 15555 17725 17 21655 Sa-Su	1500-1600 Russian 11970 15365
1000-1155 Portuguese 11960 15140 17725 2 21725 Mo-Fr	1600-1700 German 11775 15195 17805
1100-1200 Tetum 17740 Mo-Fr	1600-1700 Romanian 15270 17840
1155-1200 Portuguese 9780 15555 17725 21	
Sa-Su	1630-1700 Bulgarian 5955
1155-1200 Portuguese 11960 15140 21655 2	
Mo-Fr	1700-1900 Romanian 11940 15405
1200-1400 Portuguese 17740 21515 21655 N	
1200-1700 Portuguese 9780 15200 15555 17	
17745 21655 21800 S	
1400-1600 Portuguese 21655 Mo-Fr	1800-1900 Spanish 11840 15380
1600-1900 Portuguese 11800 11860 13625 1	7680 1830-1900 Turkish 11775
21655 21780 Mo-FR	1900-2000 German 9570 11840 11940 15405
1700-2000 Portuguese 9780 15200 15555 17	680 1900-2000 Russian 7205 9550
17745 21655 21800 5	
1900-2300 Portuguese 21655 Mo-Fr	1930-2000 Greek 11775
2000-2400 Portuguese 21655	2000-2100 French 7195 9530 9750
2300-0000 Portuguese 9715 11655 11840 13	
15295 21655 Mo-Fr	2000-2030 Persian 15180 17720
(10-May/Goncalves-POR/NG/BC-DX/Buesche	1- 2030-2100 Hungarian 7180 9725
GER)	2100-2200 English 9570 11810 11840 15180 2100-2200 English 9570 11810 11840 15180
	2.00
QATAR New schedule of QBS Qatar Al Khair	ALL III
Arabic from Apr 24: 0245-0706 11785, 0705-1	500
17880, 1307-1706 11820, 1707-2130 17895. a	
//9570v. (17-May/PanIview-BUL/BC-DX/Bue	2300-0000 Romanian 15270 15365
GER)	(BBCM)
ROMANIA Radio Romania International: U	
http://indis.ici.ro/romania/news/rri.html	RUSSIA Special broadcasts of Voice of Russia on
0000-0200 Romanian 9510 11940	Kosovo conflict:
0000-0200 Remainan 9310 11940 0000-0100 Spanish 11830 15105 15340 173	
0100-0200 Portuguese 15340 17735	1900-1920 English 12000 11980 7350
0200-0300 English 9510 9570 11725 11740	11810 1920-1940 Russian 12000 11980 7350
17735	1940-2000 German 12000 11980 7350
0300-0400 Spanish 11810 11970	2000-2020 French 12000 11980 7350
0400-0500 English 9570 11740 11940 177	35 2020-2040 Serbo-Croat 12000 11980 7350
0500-0530 Bulgarian 5965	2040-2100 Albanian 12000 11980 7350
0500-0600 French 9605 11725	2100-2230 Serbo-Croat 12000 7350
0500-0600 Romanian 15250 17745	(Gusev-RUS)
0530-0600 Ukrainian 5965	and the second s
0600-0700 English 11725 11940	Radio Tatarstan via Samara, programs in the Tatar
0600-0630 Hungarian 5965	language w/some Russian.
0600-0700 Multilingual 9625 11840 11885 1	5270 0400-0500 Tatar/RR 11665
0700-0800 Arabic 15250 15380 17720 17	
0700-0800 English 15340 17745	0800-0900 Tatar/RR 11925
0800-0900 Romanian_seamen	(BBCM)

SLOVAKIA Radio Slovakia International URL;	0330-0400 Tigrinya 7215M Mo/Tu
http://www.slovakradio.sk/rsi.html (Real audio	0330-0400 Oromo 7215M We/Th/Fr
available)	0330-0400 Amharic 7215M Sa/Su
0100-0130 English 9440 7300 5930	0345-0400 Lomwe 4775
0130-0200 Slovak 9440 7300 5930	0400-0430 Tumbuka 6040 Tu/Fr
0200-0230 French 9440 7300 5930	0400-0430 Chewa 6040 Mo/We/Th/Sa/Su
0700-0730 English 17550 15460 9440	0400-0430 German 4775 3200
0730-0800 Slovak 17550 15460 9440	0430-0500 Chewa 6040
0800-0830 German 7300 6055 5915	0430-0505 English 4775 3200
1300-1330 Russian 13715 11990 9440	0505-0730 English 9500 6100 4775-(to 0720
1330-1400 German 7345 6055 5920	Sa/0705 Su) Mo-Fr
1500-1530 Russian 11990 7345 5920	0730-0735 English 4775 Mo-Fr
1530-1630 Slovak 7345 6055 5920	1400-1415 Urdu 15330
1630-1700 English 7345 6055 5920	1435-1440 Portuguese 7315 Mo-Fr
1700-1730 French 7345 6055 5920	1440-1510 Portuguese 7315
1730-1800 Russian 11990 9485 5920	1510-1525 Makua 7315
1800-1830 German 7345 6055 5920	1510-1555 Malagasy 7175
1830-1900 English 7345 6055 5920	1525-1555 Lomwe 7315
1900-1930 Slovak 7345 6055 5920	1527-1542 Yao 7265M
1930-2000 French 7345 6055 5920	1542-1557 Sena 7265M
(BBCM)	1600-1630 Shangaan 4760 Su
(BBCM)	1600-1630 Tumbuka 6135 Tu
SOUTH AFRICA Channel Africa: URL:	1600-1630 Tshwa 4760 Mo-Fr
http://www.channelafrica.org Sentech URL:	1600-1700 Portuguese 4760 Sa
	1600-1630 Chewa 6135 We-Mo
http://www.sentech.co.za	1600-1830 English 9500
0300-0325 English 5955	1600-1630 Kirundi 9530M
0300-0325 Swahili 6150	1630-1700 Borana 9530M Mo
0330-0355 French 5955	1630-1645 Portuguese 4760 Mo-Th
0400-0430 English 5955	1630-1645 Shangaan 4760 Su/Fr
0430-0455 French 9525	1630-1700 Oromo 9530M Tu-Su
0430-0455 Portuguese 5955 3345	
0500-0530 English 11720	
0530-0555 Portuguese 11720	1630-1700 Tigrigya 11705M
0600-0630 English 15215	1630-1700 Zulu 1170
0630-0655 Portuguese 15215	1640-1655 Somali 9650M
1300-1455 English 21530 17860 11900 Sa/Su	1657-1727 Arabic 9650M Su
1500-1530 English 17870	1657-1712 Shuwa 9650M Mo-We
1500-1525 Swahili 15545	1657-1712 Juba 9650M Th-Sa
1530-1555 French 17870	1700-1715 Pedi 3200 Su
1600-1630 English 6150	1700-1715 Tswana/Sotho
1600-1630 Swahili 11900	3200 Mo-Sa
1630-1655 French 11900	1700-1800 Swahili 9585
1630-1655 Portuguese 6150 3345	1715-2215 English 3200
1700-1730 English 17860	1725-1830 Amharic 9530M
1730-1755 Portuguese 17860	1800-1815 Swahili 9585 Mo-Fr
1800-1830 English 17870	1800-1815 Kimwani 9585 Sa/Su
1830-1855 French 17870	1800-2045 English 1170
(BBCM)	1800-1830 Ndebele 3240
	1830-1900 Bambara 9685M
SUDAN Sudan National Radio Corporation	1830-1900 Fulfulde 9510M
(SNRC) Shortwave frequency usage is traditionally	1830-1900 Hausa 9800M
erratic and variable. The 9 MHz frequency may vary	1830-1900 Shona 3240
between 9000 and 9400 kHz. Other frequencies used	1830-1845 Umbundu 6130
in the past include 4994 and 7200 kHz.	1845-1915 Portuguese 6130 Su
0300-2300 Arabic 9200v	1845-1900 Chokwe 6130 Mo-We
(BBCM)	1845-1915 Portugese 6130 Fr
	1845-1900 Luchazi 6130 Th/Sa
SWAZILAND Trans World Radio (TWR):	1900-1915 Portugese 6130 Su-Tu
0300-0330 Ndebele 3200	1900-1915 Kikongo 6130 We-Fr
0300-0345 Shona 3240	1900-1915 Lunyaneka 6130 Sa
0300-0330 Swahili 5965	1900-1930 Baoule 9685M

1900-1930 Kanuri 9800M 1900-1930 Lingala 9525 1900-1915 Ndau 3240 1900-1930 Yoruba 9510M 1915-1945 Portuguese 6130 1930-1945 French 9525 1930-2000 French 9685M 1930-2000 Nupe 9510M 1945-2000 French 9525 Sa/Su 1945-2000 Kimbundu 6130 2000-2005 Portuguese 6130 Mo-Fr 2000-2015 French 9685M Sa/Su 2000-2030 Twi 9510M 2030-2045 Ewe 9510M Sa M=via Meverton (BBCM) SWEDEN Radio Sweden: 0000-0030 Swedish 13625 0100-0130 Swedish 13625 0130-0200 English 13625 0200-0230 Swedish 9495 0230-0300 English 9495 0300-0330 Swedish 12060 9495 12060 9495 0330-0400 English 0400-0700 Swedish 17505-(to 0600) 9490-(fm 0500) 6065-(to 0600) Mo-Fr 0400-0430 Swedish 12060-alt 9495 0600-0800 Swedish 17505 6065 Sa 0700-0900 Swedish 17505 6065 Su 21810 9490 6065 Mo-Fr 1000-1010 Swedish 1000-1030 Swedish 21810 9490 6065 Sa/Su 1030-1040 Swedish 21810 21800 18960 Mo-Fr 1030-1100 Swedish 21810 21800 18960 Sa/Su 1130-1200 English 21810 18960 1200-1230 Russian 17895 1200-1230 Swedish 21810-alt 18960 17870 1230-1300 English 21810 17895 1300-1330 Russian 15240 1300-1330 Swedish 17870 1330-1400 English 17505 15240 17525 15240 1400-1430 Swedish 1445-1500 Swedish 18960 6065 1500-1545 Swedish 6065 1500-1530 Swedish 13860 1545-1610 Swedish 17485 13860 6065-(not Su) Mo-Sa 1600-1615 Estonian 6065 Su 1630-1645 Estonian 6065 1630-1700 Russian 7170 1645-1700 Latvian 6065 1700-1800 Swedish 6065 Su 1700-1715 Estonian 6065 Mo-Sa 1715-1730 Latvian 6065 Mo-Sa 1730-1800 English 9590-(Su only) 6065-(not Su) 1800-1830 Swedish 17505 13770 6065 1830-1900 German 6065

1900-1930 German

1900-1930 Russian

1930-2000 English

2000-2100 Swedish

2100-2130 Swedish 9430 6065

6065 Su

9450 6065

6065

9590 6065-(not Su)

2130-2200 English 9430 6065 (BBCM)

UKRAINE Radio Ukraine

THAILAND Or Sor (Dusit Palace) Station noted 18 May at 0330 s-on, into usual weekday morning sequence of En lang nursery rhymes and children's songs performed by Singaporean or Malaysiansounding choir. This stn has a very eclectic taste in mx, especially compared to the usual content of Thai dom stns. The King of Thailand is well known to be a jazz enthusiast, which probably explains the large amount of jazz played. Fair on approx 6149.5, but //1332 and 104 MHz probably give useful reception over a larger radius, especially in the evening when the channel is swamped by SNG on 6150. Usual sched remains 0330-0500 and 0900-1200 Tues-Sat and 0230-0500 Sun, but occasional minor variations often noted. (22-May/Davies-THA/BC-DX/Bueschel-GER)

5905 6020 6090 0000-0100 English 0000-0100 Ukrainian 9945 0100-0200 Ukrainian 5905 6020 9945 0200-0300 Ukrainian 6020 6090 9945 0300-0400 English 0400-0500 Ukrainian 6020 6090 11840 0500-0600 Ukrainian 6090 11840 21520 0600-0700 Ukrainian 6130 11840 21520 0700-0800 Ukrainian 6130 11840 21520 0800-0900 Ukrainian 6130 11840 21520 0900-1000 Ukrainian 6020 6130 11840 21520 1000-1100 Ukrainian 6020 6130 11840 21520 1100-1200 English 21520 1100-1200 Ukrainian 6020 6130 11840 1200-1300 Ukrainian 6020 6130 11840 1300-1400 Ukrainian 6020 6090 6130 11840 1400-1500 Ukrainian 6020 6090 6130 11840 1500-1600 Ukrainian 6020 6090 6130 11840 1600-1700 Ukrainian 6020 6090 11840 1700-1800 German 5905 6020 6090 1800-1900 Ukrainian 5905 6020 6090 1900-2000 Ukrainian 5905 6020 6090 2000-2100 German 5905 6020 6090 2100-2200 English 5905 6020 6090 2200-2300 Ukrainian 5905 6020 6090 9945 2300-0000 German 5905 6020 6090 2300-0000 Ukrainian 9945 (BBCM)

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(BBCM)

Markle Natural Con	E FLORE CON
Merlin Network One	English-2 (Dr. Gene Scott)
0000-0200 English 9600	0000-0100 13845
0200-0400 English 9795	0100-1400 5935
0400-0500 English 3985	1400-0000 13845
0500-0600 English 6045	
0600-0700 English 6110	English-3
0700-1600 English 9915	0000-1200 5070
1600-2000 English 6175	1200-2200 12160
2000-2200 English 17695-(via Canada)	2200-0000 5070
2200-0000 English 11985	
(BBCM)	English-4 (Brother Stair)
	0000-0400 7435
USA World Harvest Radio WHRI/WHRA/KWHR	0400-1100 2390
Angel 1-2 (WHRI - South Bend, Indiana); Angel 3-4	1100-1300 7435
(KWHR - Hawail); Angel 5 (WHRA - Greenbush,	1300-2200 9475
Maine).	2200-0000 7435
WHRI Angel I	(BBCM)
	(BBCM)
0000-1000 English/Spanish	D/EH/A/ D' to Al l
7315	WEWN Birmingham, Alabama
1000-1300 English/Spanish	0000-0200 English 5825 13615
9495	0000-1000 Spanish 7425
1300-1800 English/Spanish	0200-1000 English 5825
15105	1000-1300 English 7425 15745
1800-0000 English/Spanish	1000-1400 Spanish 9465
9495	1300-1600 English 11875 15745
WHRI Angel 2	1400-0000 Spanish 15375
0000-1000 English 5745	1600-2200 English 13615 15745
1000-1500 English 6040	2200-0000 English 9975
1500-2000 English 13760	(BBCM)
2000-0000 English 5745	
KWHR Angel 3	WYFR - Family Radio
0000-0400 English 17510	0000-0100 English 9505 6085
0400-1000 English 17780	0000-0100 French 15525
1000-1800 English 9930	0000-0100 Hindi 15165T
1800-0000 English 17510	0000-0100 Portuguese 17805 17725 15130
KWHR Angel 4	0000-0100 Spanish 17845 17750 15215 11855
0700-1600 English 11565	9715 5985
WHRA Angel 5	0100-0200 English 15165T
0000-0500 English 7385	0100-0200 English 131031 0100-0200 Portuguese 17725
	•
0500-0800 English 11565	0100-0200 Spanish 17750 15255 15215 11855
1600-0000 English 17650	9715 5985
(BBCM)	0100-0500 English 9505 6065
TRANSPORTED AND ALL AN	0200-0300 Spanish 15255 11855 9715 5985
WWCR (Worldwide Christian Radio) WWCR	0300-0400 German 9985
operates four separate services from its four 100-kW	0300-0400 Russian 9355 7355
transmitters. One transmitter (marked ENGLISH-2) is	0300-0500 Spanish 11855 9715 5985
used entirely by Dr Gene Scott's "University	0400-0500 English 9985
Network"; Another (marked ENGLISH-4) is used	0400-0500 German 11580 7355
entirely by Brother R.G. Stair's "Overcomer Ministry".	0400-0500 Portuguese 15170
These are evangelical programmes which may also be	0400-0500 Russian 9355
heard in parallel on several other stations. Irish radio	0500-0600 Arabic 15170 13695
(RTE) broadcasts are carried via Network 3 at various	0500-0600 English 11580 9985
times. E-mail: askwwcr@wwcr.com	0500-0600 German 9355 7355
URL: http://www.wwcr.com	0500-0600 Spanish 11855 9705
English-1	0500-0700 English 5985
0000-0400 3215	0600-0700 English 7355
0400-1000 3210	0600-0700 French 15170 13695 9355
1000-1200 12160	0600-0700 Italian 11580 7520
1200-2200 15685	0700-0800 English 13695 9985 7355
2200-0000 9475	0700-0800 Italian 9355
PEGG 0000 /412	0800-0900 Portuguese 11770 9605
	VOVO UTOU I OTTUBUCAC TETTO TOUS

0800-1000	Spanisn	11833 9330
0900-1000	Portugues	e 11770 9625 9605 6175
1000-1100	English	5950
1000-1100	French	11970 9625
1000-1100		11855 9550 6175 6085
1100-1200		6015 5950 5850
1100-1200		13695 11970 11725 9605 9370
1100-1200	оршили	6085
1100-1300	Emanah	13695-(from 1200) 9505-(to
1100-1300	riench	. , ,
1102 1200	CI.	1200)
1102-1200		9280T 6300T
1200-1300	,	9280T 6300T
1200-1300		17750 6015 5950 5850
1200-1300	Spanish	15145 15130 11970 11725
		6085
1300-1400	English	17750 11970 11830
1300-1400	Spanish	15145 15130 11725 6085
1300-1500		9280T 6300T
1302-1502	English	11550T
1400-1500	English	17750 11970 11830
1400-1500	Spanish	15130
1500-1600	English	17750 11830
1500-1602		9280T 6300T
1502-1602		11550T
1505-1705	Russian	9955T
1600-1700	Arabic	15665
1600-1700	English	17750 15600 11830
1600-1700	English	21525 17555 15695
1700-1800	Arabic	21525
1700-1800	English	17555 15695
1700-1800	German	15665
1700-1800	Russian	17750 15600
1800-1900	Arabic	13710-uk
1800-1900	French	21525 17555 15600
1800-1900	Italian	15715
1800-2000	English	15695
1900-2000	German	17555 15715
1900-2000	Portugues	se 21525
2000-2100	English	17845 17750 15695 15565
2000-2100	French	21725 17555
2100-0000	Chinese	9280T 6300T
2100-2200	English	17845 15695 15360
2100-2200	Italian	17555 15715
2200-0000	English	11740
2200-2300		17845 15360
2200-2300		
2200-2300	Spanish	11855 5985
2200-2300	Spanish	15715 15695
2300-0000	French	15255 6085
2300-0000		
2300-0000		
	•	5985
(BBCM)		
Radio Ma	rti	

0800-1000 Spanish 11855 9550

	9805 13820	
	1300-1400 Spanish	1180 7405 9565 13630 13820
	1400-1700 Spanish	1180 11815 11930 13630
	13820	
	1700-2100 Spanish	1180 9825 11930 13630 13820
	2100-2200 Spanish	1180 9825 11930 13820 21500
)	2200-2300 Spanish	1180 6030 11930 13820 15330
	2300-0000 Spanish	1180 6030 7405 13820 15330

(BBCM)

Apparently AFRTS is now actively promoting its SW sces for the first time in many years, and even promises to verify them. In the FAQ on the new AFN Balkans Website (the home page title of which says 'welcome to AFN Bavaria') I found this:

Are any AFN/AFRTS radio signals available on the SW bands? Yes! Freqs of all worldwide AFN stns are listed at the Internet site: http://www.afrts.osd.mil

The U.S. Navy also provides the AFRTS radio signals on High Frequency Upper Side Band from Naval Computer and Telecommunications Area Master Stn, Key West, Florida at 12689.5 and at Puerto Rico too at 6458.5. This is a temporary condition intended for ships at sea. However, we have had RR's from FIN to JPN indicating good reception. All RR's and requests for QSL cards (reception verification reply cards) will be answered by Navy Media Center, at e-mail eternika@mediacen.navy.mil (19-May/Sennitt/DXW/BC-DX/Bueschel-GER)

VIETNAM After many months on 6386v, Yen Bal moved to new 6347v on 17 or 18 Apr, first noted around 1015 on 18 Apr. Usual poor audio, the carrier is often observed varying up and down several 10s of Hz every second or so, and +/-approx 1 kHz between txions. There's obviously a further carrier problem here as tuning the BFO around the channel produces more of a 'buzz' than the usual clean 'whistle' you normally get from AM stns. Usual hours are 2330-2400, 0400-0600, 1000-1030v and 1200-1330v, also irreg 0935v-1000 relaying Hanoi 1.

What seems to be another VTN regional has appeared recently on 6451v, first noted around 1215 on 16 Apr. Fair reception here at 0255-0500 and 1200-approx 1330 with some utility QRM, tentatively also around 2245 when early morning propagation is very poor.

Finally got a clear ID for the sta on 7154-7156v at beginning of local prgr at 0300 on 24 April (after nearly a year of trying), it's definitely *Ha Giang*, not listed Thai Nguyen. Meanwhile I'm now convinced that Thai Nguyen (Bac Thai Province) is the sta I've recently noted on 6451v at 0255-0500 and 1155-1400, also tentatively around 2245.

An additional transmission recently noted from Son La 4976v, during daytime at 0300-0500. (24-Apr/Davies-LAO/BC-DX/Bueschel-GER)

Page 40

1180 6030 7365 11660 15330

1180 6030 7365 7405 11660

1180 6030 7405 9805 11660 1180 5890 6030 7405 9805

1180 5890 6030 9565 9805

1180 5890 6030 7405 9565

0000-0300 Spanish

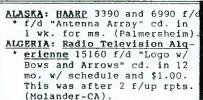
0300-0400 Spanish 0400-0700 Spanish

0700-0900 Spanish

0900-1299 Spanish 1200-1300 Spanish

## **QSL** Report

Sam Barto 47 Prospect Place Bristol, CT 06010



ANTARCTIC (Argentina): LRA36 Radio Nacional Arcangel San 3 Gabriel 15476 f/d "Logo" cd w/ info. sheet in 1 mo. v/s Fernando R. Garcia Pinasco, Teniente Coronel, Jefe de Base

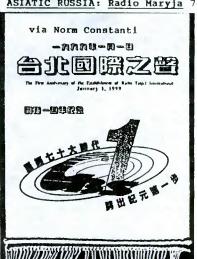
Esperanza. (Barrera-ARG). ANTIGUA: Deutsche Welle 9640 f/d cd. in 6 mo. for a

RCI (15) RADIO CANADA

rpt. direct to the site.(Constanti-MO). f/d "Ant-enna Site" cd. in 6 mo. for \$1.00. after a f/up rpt.(Molander-CA) ARGENTINA (Pirate): Radio Cochiquaz 6949.9 f/d ltr. w/ cd. in 67 ds.

for 2 IRCs and SASE. v/s Cachito Mamani. (Sgrulletta-NY). ARMENIA: Radio Moscow 9965 f/d "View of the Kremlin" cd. w/ schedule and a personal ltr. in 2 mo. for \$1.00. v/s Olga Troshina. (Molan-ASCENSION ISLAND: Radio Telefis Eire 17885 via English Bay der-CA)

f/d "Landscape and River" cd. in 17 ds.(Humenyk-ONT). BBC Relay 12095 f/d ltr. in 86 ds. via the site. v/s Nicola Nicholls, Trans mitter Engineer. (Humenyk-ONT).



ASIATIC RUSSIA: Radio Maryja 7400 f/d paper cd. w/ pocket calendar and sticker in 2 mo. for \$1.00.

via Norm Constanti v/s 0. Jacek Cydzik. Addr: ul.
Zwirki i Wigury 80, 87-100 Torun, Poland.(Loudel1-DE).

AUSTRALIA: Radio Australia 9580 via Shepparton f/d "Ayers Rock in the Northern Territory" cd. w/ sked. and postcard in 73 ds. v/s John Wright. (Humenyk). 12080 via Brandon f/d "Transmission Building" cd. in 8 mo. for \$1.00. This was after a f/up rpt.(Molander-CA). VNG Time Signal Station 12984 f/d cd. w/ technical station info. in 10 mo. for \$1.00 after a f/up rpt (Molander-CA).

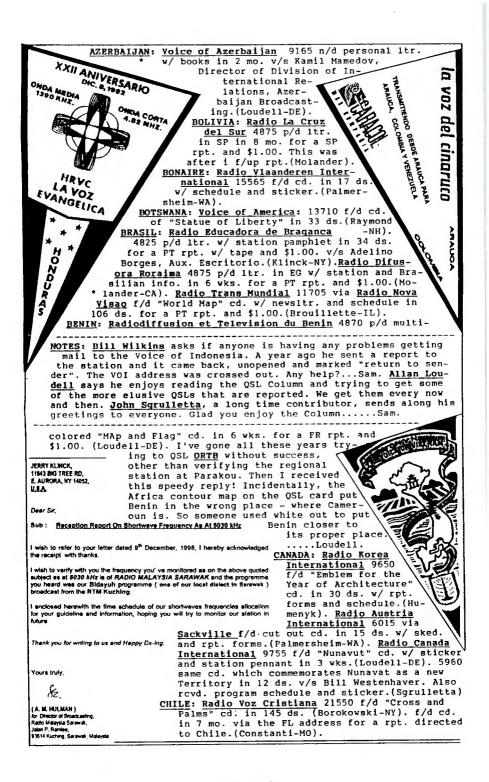
ADVENTIST WORLD RADIO Verification of Reception

Thank you for your reception report which we are pleased to verify. Station AWR-ASIA Location Agat, Guam

Frequency 15225 kHz Date Feb 7, 1999

Power \_\_\_\_ 100 KW Time 2229-2240UTC

Signature Spealegastos



## THE LOGICAL ALTERNATIVE

QSL# 22: R. D'Angelo

Confirming your reception on 6955 kiloHertz in the time range between 2303 and 2359 UTC on October 30, 1995 as evidenced by your logging in the December 1995 A \*C\*E\* bulletin.

73 and FFFR!

Jeff Carmichael

West Bromwich, England B70 OEJ (Humenyk-ONT). Radio Esperanza 6090 f/d foldout cd. w/ personal itr. in SP w/ postcard and

ECUADOR: HCJB 9745 f/d "Blue and Yellow Macau" cd. w/ schedule

same in 144 ds. I used the address of Ryder St,

schedule in 6 mo for \$1.00 and a f/up rpt. v/s Rodolfo Campos, Director. This was a special logging as Hurricane Georges forced the Caribbean Beacon off the air last summer. (Molander-CA)

NA, PEOPLES REPUBLIC OF: China Radio International 15500, 9440 and 11975 f/d "Chinese Paper Cut" cd. w/ rpt. form in 17 ds. v/s Ying Lian. (Humenyk).

COSTA RICA: Radio For Peace International 6975 f/d form ltr. w/ sked.

and sticker in 3 mo. for \$1.00. (Loudell-DE).

CYPRUS: BBC Relay 9410 f/d ltr. in 5 mo. for \$1.00. v/s Hild Myklebust, at the UK address. (Molander-CA).

OAX-7A 6195 KH ONDA CORTA OAX-7G 1460 KH ONDA LARGA

and religious info. in 9 wks. for US ms. ECO MUSICAL 90.1 MHZ F.M. (Loudell), f/d "Mus-

ician with a Rondador" cd. w/ schedule in 1 mo. for US ms. (Loudell). f/d "50th Anniversary HCJB/NBC" cd. from 1981 w/ schedule and sticker in 3 wks. for US ms.(Loudell). f/d "Soldiers Band Playing Trom bones" cd. w/ schedule in 1 mo. for US ms. (Loudell). Radio Oriental 4780 f/d "Long Green Logo and Coat of Arms" cd. w/ a long personal 1tr. and station decal in 6 wks. for a SP rpt. and \$1.00. v/s Luis Enrique Espin Espinoza, Gerente Geral. (Loudell-DE).

EGYPT: Radio Cairo 9475 f/d cd. w/ postcards and schedules in 102 ds.

Actually I've tried to verify this station for about 4 years and have gotten very friendly correspondence, newspapers, schedules, postcards, but no QSL until now. Odd, but most welcomed. (Stewart-MO)

Radio Puyo 12 - Mayo - 1984

f/d "Mosque/Dome" cd. in 102 ds. w/ schedule and postcards.(Humenyk-ONT).

ENGLAND: Voice of America 7170 via Woofferton f/d cd. in 29 ds. v/s Peter Loveday, Engineering Manager. The QSL was on Merlin letterhead. (Borokowski) ETHOPIA: Radio Ethopia 9560 f/d cd. w/ sticker, program schedule and 1tr. in fluent EG in 7 mo. for \$1.00. This after a f/up rpt. v/s Miss Woinshut Woldeyes, Audience Relations. I hear that this station is difficult to QSL. Perhaps the v/s thinks I'm sin-gle: Hi. (Molander-CA). EUROPEAN RUSSIA: Voice of

Russia 7300 via Krasnodar f/d "Moscow River" cd. w/ form 1tr. in 10 wks (Loudell). Voice of Vietnam 5940 via Arm avir f/d "World Map" cd. w/ schedule in 63 ds. Pennant rcvd. (Humenyk).

GERMANY: Deutsche Welle 11810 f/d cd. in 248 ds. for 1 IRC. (Griffin-GA).



Voice of America 7245 via Lampertheim f/d "Statue of Liberty" cd. in 36 ds.(Neal-TX). \* RTBF 15715 via Julich f/d prepared cd. w/ ltr. in 22 ds direct from DTM Julich. v/s Walter Brodowsky, Technical Advisor. (Kusalik-ALB).

HOLLAND: Radio Nederland 9895 f/d "XMAS Mast/Light Display" cd. in 2 mo. (Molander-CA).

HONDURAS: HRPC Radio Luz y Vida 3249 f/d "Logo" cd. in 4 mo. for a SP rpt. and \$1.00.(Molander-CA).

INDIA: All India Radio 4790 via Itanagar f/d "Lakshamana Temple" cd. in 17 mo. after 3 f/up rpts. v/s A.K. Bhatnagar, Director of Frequency Assignments.(Palmersheim). 4800 via Hyderabad f/d "Khajuraho: Lakshmana" cd. in 5 mo. (Molander).

IRAN: IRIB 9022 rcvd. full package of goodies and publications along w/ QSL cd. in 1 yr. after several f/up rpts.(Constanti-MO).

ISRAEL: Kol Israel 17535 f/d "Blue Logo" cd. w/ schedule in 7 wks.

mmit, PA 17214. The Scream of the Butterfly 6280, 7590 and 11470

(Loudel1-DE).

JAPAN: JJY 8000 f/d "Station w/ Technical Information" cd. in 1 mo. for \$1.00. (Molander-CA).

VERIFICATION SIGNERS: Free Radio Service Holland 6240 P.O. Box 2727, NL-6049 ZG Herten, Holland. Andino Relay Service 6280 Casilla 2571, 100 Buenos Aires, Argentina. <u>KIWI Radio</u> 11470 and 13960 P.O. Box 3103, Napier, NZ. Radio Waves International 11401 B.P. 130, FR-92504 Rueil, France. <u>Jerry Rigged Radio</u> 6955 P.O. Box 28413, Providence, RI 02908. <u>KAMP</u> 6955 P.O. Box 108, Blue Ridge Su-

use Providence drop. Radio Marabu 6210 Box 1166, DE-49187, Belm, Germany. Farmers From Holland 6299 P.O. Box 108, NL-7720, AC Dalfsen, Holland. Radio Benelux 7480 P.O. Box 220342, DE-52373 Wuppertal, Germany. Radio Blandenque 11515 Box 1, Merlin, Ont. Canada. GTRK Tatarsan 12015 via Samara v/s Hania Zipovna Galimova. Addr: Ul. Gorkogo 15, 420015 Kazan...via PLAY DX in Italy.....Sam.

\*\* 4 \* \* \* \* \* \* VII FESTIVAL POLCLORICO CULTURAL XII ANIVERSARIO (Q) History Carlo y Poula esperianta sectionistos mos profunda de dock Pueblo

<u>JAPAN: Radio Japan</u> 21670 via <u>Yamata</u> f/d "Spring Has Come" cd. in 5 ds. for 2 IRCs. Also rcvd. schedule and a news letter. v/s Yoshiki Fushimi.(Sgrulletta-NY). 9835 f/d cd. w/ pennant, schedule and a calendar in 46 ds. (Palmersheim-WA).

KOREA, PEOPLES DEMOCRATIC REPUBLIC: Radio Pyongyang 13760 f/d "Flower" cd. w/ pennant, stickers, personal ltr. and newspapers in 6 mo. for \$1.00. Reports were sent via Beijing and Willi Passman in Germany. (Molander-CA).

LESOTHO: LNBS 4800 f/d form 1tr. for 10 yrs. of rpts. This was for a

grand total of more than \$50.00 over the years!!! (Price-PA).

MALI: China Radio International 11975 via Bamako p/d cd. in 1 mo. for \$1.00. (Molander). 15125 and 13685 f/d "Bronze Ox" cd. in 22 ds. w/ schedule and report forms. (Humenyk-ONT).

MOLDOVA: Radio Moscow 9665 f/d "Moskva River" cd. w/ site schedule and a personal 1tr in 6 mo. for \$1.00. This after a f/up rpt. v/s Olga Troshina. (Molander). Voice of Russia 7125 and 7180 f/d

Thank you very much for your reception report on our broadcast.

The information given is in accordance with our schoolule

We hope you will continue to enjoy our programmes and send us your thoughts about them.

受領報告ありがとうございました。内容 ほラジオ日本の放送と合致しております。 これからも書植についてのご感想をお寄 せください。

RADIO JAPAN

NHK TOKYO 150-8001, JAPAN

VERIFICATION CARD

Dear Mr. John L. Serulletta

We are pleased to confirm that the station you heard is Radio Japan The details are as follows:

DATE: February 21, 1999 TIME: 01:05 ~01:32 (UTC) FREQUENCY: 21670 kllz TRANSMITTER SITE: Yomata, JAPAN SERVICE: General in English



"Kosmos Hotel" cd. in 276 ds. after a f/up rpt. v/s Tanya Stukova.(Bo-rowski-NY). 9665 f/d "Pushkin Monument" cd. in 32 ds.(Borokowski-NY).

MOROCCO: Radiodiffusion Televisione Marocaine 15345 p/d "Globe" cd. in 7

mo. for \$1.00.(Myers-VA). Radio Free Europe "Serbian Transmission" 9710 via Briech f/d 1tr. in 2 wks.(Loudell-DE). NEW ZEALAND: Radio New Zealand International 11905 f/d "Huge Reproduction of RNZ 1948 QSL" cd. in 203 ds. for 3 IRCs. Schedule was rovd. The cd measured nearly 1 foot by 8.5 inches. v/s James Shelley, Director. (Wi-

VERIFICATION SIGNERS: Radio Tajikistan Mr. Ramazonov Nasrullo, Foreign Relations Department. He asks for \$5.00 to cover mailing costs. Do not send IRCs. Addr: R.T., International Service, Chapaev St., Dushanbe 744025. Radio Tanzania 5050 Andrew Kisaica, Director of Broadcasting. Addr: Box 9191, Dar Es Salaam. <u>Turkmen Radio</u> 5015 K. Karaev, Chief of the Technical Service. Addr: Mollanepes Kocesi 3, 744000 Asgabat. Radio Uganda 4976 Miss Rachel Naki Buuka. Addr: P.O. Box 2038, Kampala. Merlin Network One 9615 Addr: Merlin Communications Limited, NE Wing, Bush House, P.O. Box 76, Strand, London, NC23 4PH. <u>Sunrise Radio</u> 5850 Somaira Sadeghi, Assistant to the Executive Officer. Addr: Sunrise House, Sunrise Rd., Southall, Middle-sex, UB2 4AU, England. Radio Republik Indo- JIMMY & WEASEL nesia Serui 4606 Yance Yebi-Yebi. IRIB 9022 LIVE IN CONCENT T. Noushiravan. Voice of the Mediterran ean 11770 P.O. Box 143, Valletta, Malta. Voice of Sharia 7080 Mir Ahmad Naizmand, General Director of the Foreign Rela-

LIVE IN CONCERT 10 PATE: APRILON 1999 410: 1705

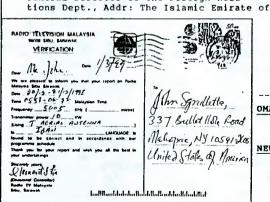
FRED: 69550 to MODE: USB X: Gary

1kins)

Afghanistan, General Presidency of Radio and Television, Planing and Foreign Relations Dept., Kabul. Radio Continental 20276 Pedro Maccarone, Gerente Tecnico. Addr: Rivadavia 835, Buenos Aires 1002...via PLAY DX.

OMAN: BBC 15310 f/d 1tr. in 6 Wks. for \$1.00. v/s David Plater, Senior Transmitter Engineer. (Molander).

NEW BRITAIN: Radio East New Britain 3385 p/d 1tr. in 3 mo. for \$1.00. v/s Demas Kumaina, Provincial Programme Manager . (Molander-CA) .



## RADIO EASTERN HIGHLANDS "KARAI BILONG KUMUL"





Darm Klinck.

Time 12 17-12 12 UTC

Frequency ---- Correct/Incorrect Programe Details ---- Correct/Importect

Delete whichever not applicable.

STATION:

Radio Esstern Highlands

CALL STON

Karal Blong Kurul (KBK) (Voice of the Bird of Paradise) 3395 1012 (3.395 1482)

PROJUCKY: TRANSMITTER.

NEC (Japanese made)

PAPENTILE POLEN:

10 Kilowite

PHILIPPINES: Radio Veritas 9520 f/d "Logo" cd. w/ personal ltr. and program schedule in 11 mo. for \$1.00. This was after 2 f/up rpts. (Molander). 9670 rcvd. several 1999 calendar-folders but no QSL:

(Loudell). FEBC Radio International 11635 f/d "Engineering Staff" cd. in 29 ds. w/ sked. & and a pocket calendar. v/s Ellen Valdez.(Bor-PUERTO RICO: AFRTS 6458.5 f/d ltr. owski-NY).

in 2 wks. for \$1.00. v/s Wayne Eterinicka, Broadcast Operations Specialist (Molander). p/d 1tr. in 32 ds. for 1 ms.(Raymond-NH). p/d 1tr. w/ site in 2 wks.(Loudell). p/d E-mail form ltr. in 1 day for E-mail rpt. (Stewart).

VERIFICATION SIGNERS: Emisora Ciudad de Monte-video 9650 Aramazd Yizmeyian. Addr: Canelones 2061, Montevideo. The Overcomer Ministry 5840 R.G. Stair. Addr: P.O. Box 691, Walterboro, SC 29488. WJFP 25910 Ray Kassis, Technical Director. Addr: North US Highway #1, Fort Pierce,FL 34946-8912. <u>WMDM</u> 1690 Stacey Reynolds. Addr: P.O Box 439, Leonard Town, MD 20650. <u>WNML</u> 1670 Richard W. Hamilton, Transmission Engineer. Addr: 7080
Industrial Highway, Macon, GA 31206. WBCQ 7415 Elayne Star. Addr: 97 High St., Kennebunk, ME 04043. Zambia NBC 6265 Patrick Nkula. Addr: P.O. Box 50015, Lusaka.
Radio Cristal International 5011 Margarita Reyes, Secretary. Fana 6210 Muluqeta Gesee, General Manager. Addr: P.O. Box 30702.

RADIO NAYLAMP E. I. R. L.



OBX - 1M - OM 1580 KHZ

LA DIFFRENTE

Av. Huamachuco 1080 - Telf 28-3353 LAMBAYEQUE - PERU

via D'Angelo

Saluda a y agradoro vuestra recepción y cintenía

: 9-3-93

Horn: 10-20 a 11-01

Lugar: NYDERISTING PS 15 (10)
Puis: EF. CU. 11.11

DR. J. J. GRANDEZ VARSAS GERENTE

NEW IRELAND: Radio New Ire-land 3905 f/d form ltr. in 1 mo. for a taped rpt and \$1.00. v/s Otto A. Malatana, Station Manager. (Myers-VA).

PAPUA NEW GUINEA: NBC 4890 cd. w/ site in 19 mo. for \$1.00. v/s Ms. F. Maredei.(Dybka-TN). f/d "Map" cd. w/ site in 25 mo. for \$1.00.(Dybka).

PERU: OAX40 Radio Victoria 9720.5 p/d E-mail in 7 ds. for a 96 rpt. v/s Martha Flores U. (Palmersheim-WA). Radio del Pacifico 4975 p/d fold out "Logo" cd. w/ per-sonal 1tr. in SP in 6 mo. for a SP rpt. and \$1.00. (Molander).

> RADIO PRAHA INTERNATIONAL

Addis Ababa.... .....via PLAY DX.

RUSSIA: Voice of Russia
7180 cd. in 28 ds. w/ personal ltr. (Levison-PA).

RWANDA: Deutsche Welle 15135 f/d "Antenna Site" cd. in 7 mo. for \$1.00 and a f/

up rpt. (Molander). SAO TOME: VOA Pinheira 6035 f/d "Skier" cd

in 84 ds. (Humenyk). SARAWAK: Radio Television Malaysia

5005 via Sibu f/d "Broadcasting House" cd. in 25 mo. for a

taped rpt. and ms. v/s Clement Stia, Stia, Divisional Controller. (Sgrulletta-NY). f/d ltr. for LA VOIX DU SAIIARA LIBRE

Argel 13- Emo - 1992

Nous avons reçu votre rapport d'Ecoute daté du

Nous avons le plaisir de confirmer votre rapport,

6 Noviembre 1991

\$1.00 in 9 mo. v/s A.M. Hulman,
Director of Broadcasting. (Molander) CERTIFICAT DECOUTE

Director of Broadcasting. (Molander)

SINGAPORE: Radio Singapore International
6150 f/d "City Hall" cd. w/ stickers,
schedule and a solar calculator in 8
mo. for \$1.00. This was after a f/up
rpt. This was sent to the Andrew Rd.
address after receiving no response
from the Farrer Rd. address. (Molander-CA). BBC Relay 9740 f/d ltr. in 4
mo. for \$1.00. v/s Hild Myklebust at the UK

qui correspondent effectiviment (A)

que les indications

address. (Molander-CA).

SOLOMON ISLANDS: SIBC 5020 p/d ltr. in 9 mo. for \$1.00. after a f/up rpt.(Molander-CA).

SPAIN: China Radio International 9690 via
Noblejas f/d "Huangguoshu Waterfalls" cd. w/ stickers and a sked.
in 2 wks.(Loudell). Radio Exterior de Espana
6055 f/d ltr. cd. w/ schedule and sticker in 8

wks. for \$1.00. (Molander-CA).

SWEDEN: Radio Sweden International 7115, 11680 and 21810 via Horby f/d "Svnosvall" cd. in 2 wks. v/s C. Adler.(Humenyk-ONT).

VERIFICATION SIGNERS: Radio Rivadavia 20820 Marcelo Mathieux, Gerente Tecnico. Addr: Arenales 2465, Buenos Aires 1124. Radio Santa Cruz 6135 Maria Yolanda Marco, Secretary. Radio Difusora Aquidana 4795 Aldo Bortoni. Radio Alvorada de Londrina 4865 Padre Manuel Joaquim Rodrigues Dos Santos, Director and Louise Lopez, Secretary.

Radio Educadora Do Braganca 4825 Cledson Jair, Auxiliairo de Escritorio.....via PLAY DX....Sam.

PUC

TINIAN: Voice of America 11995 f/d "National Archives" cd. in 38 ds.

USA: MMBS 11900 p/d ltr. (Wilkins).

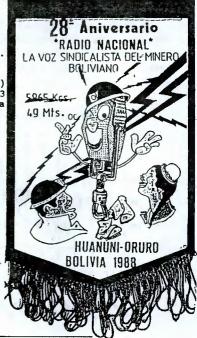
in 3 wks. for \$1.00. v/s Charles C.
Josey. (Molander-CA). Radio Taipei
International 9985 via WYFR f/d cd.

w/ rpt. form, schedule, newsletter
and a refrigerator magnet. in 53 ds.
(Humenyk). VOA Greenville 15580 f/d
"Monument Valley" cd. in 84 ds. w/
calendar and VOA Guide. (Humenyk-ONT)

USA (Pirates) WRX 6955 f/d sheet in 13 ds. for 3 ms. 110 watts. (Sgrulletta VATICAN CITY: Radio Vatican 9605 f/d "Rotating Antenna" cd. w/ stickers in 2 mo. for a FR rpt. and ms. (Loudel1-DE).

ZIMBABWE: Zimbabwe Broadcasting Co. 3306 and 4828 f/d "Logo" cds. in 5 mo. for \$1.00.(Molander-CA).

> We'll that it. See you all next month. If you plan to order any of the stamps as advertised in last months bulletin. Just say I love the QSL Column and you will receive an extra 500:



## Net Notes

Tom Sundstrom
P.O. Box 2275
Vincentown, NJ 08085-2275
Fax: 609-859-3226
Internet: trs@trsc.com
http://www.trsc.com

In May, Radio Yugoslavia was having an identity crisis so far its Web URL was concerned. It seems to have settled down now. Why is this so important? Various broadcast facilities have been bombed these past weeks, and Radio Yugoslavia finally disappeared off the SW bands some weeks ago. Now they're returned on SW... but to Europe only. The time of day makes it difficult to hear the broadcasts. The Canadian-based beograd. com/radioyu and radioyu.org (owned by beograd.com) no longer host the pages but now they at least point to the new Web site. Radio Yugoslavia's Web site is now hosted in the Netherlands, and it has a daily 22-25 minute newscasts in the English language. Dial into http://62.229.99.175/.

If you want to see the convoluted path to connect the host site, use a traceroute program and look at the ownerships of the various nodes.

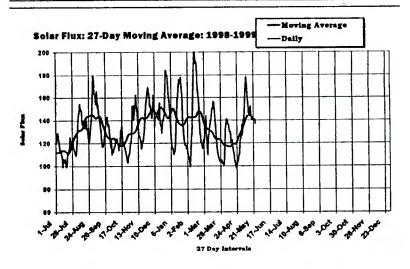
In the European hotspot other Web sites have come to life, including three press agencies. The Bulgarian Telegraph Agency is present at http://

www.bta-bg.net/indexe.html, Hungary's Magyar Távirati Iroda is at http://www.mti.hu/news/ and the Kosova Press appears at http://www.kosovapress.com/. All have Englishlanguage pages.

Staying in the region, The Macedonian Radio & Television broadcaster has Real Audio on its Web site at http://www.unet.com.mk/mrt/.

Now that the ANARC SWL Net is on hiatus, what to do on Sunday morning? I don't know why we didn't pick up on this earlier, but Sheldon Harvey of CIDX has a weekly show called "International Radio Report" on CKUT in Montreal. You have to listen to this 30-minute show live, at 10:30 am Eastern, via RealAudio at http://www.ckut.ca/english/ear.html. There are no program archives.

Mahendra Vaghjee has opened another Web site full of sounds of Africa and Asia. Dial into http://homepages.go.com/~vaghjee/index.htm. And Namibia is on the Web at http://natradio.imlt.org.na/; the content could stand improvement.



**Broadcast Pioneers** 

## Library of American Broadcasting

THE UNIVERSITY OF MARYLAND, COLLEGE PARK

## FOR IMMEDIATE RELEASE:

## QSL'S COME TO LAB

The Library of American Broadcasting is pleased to announce that arrangements were recently completed with The Committee to Preserve Radio Verifications (CPRV) for the Library to serve as the repository for that organization's collection of over 30,000 radio verifications.

These verifications, or "QSL's," as they are called (from the Morse code symbol "Q-S-L" for "I acknowledge receipt"), are cards and letters sent to radio hobbyists by radio stations to confirm the listener's reception of a distant or hard to receive station. QSL's are still issued by stations today, but their origins date back to the earliest days of radio. Listeners would send the station a written report of what was heard, and if it checked out, the station would send its QSL. In radio's early days these reports helped stations know that they were being heard. From the standpoint of long-distance listeners (known as "DXers"), the QSL established that they had heard the station. Many QSL's are quite attractive, and include photos, station logos and other graphics, as well as technical information and other descriptive material about the station.

The collection spans the globe and includes cards from the early 1920's to the present. It focuses on regular AM stations and shortwave broadcasting stations, but also includes ships, planes and other "utility " stations, as well as some amateur radio QSL's. The files and database have been set up so that a particular station's QSL's, which often span a number of years, can be quickly located and examined. The CPRV Collection contains QSL's from almost 150 individuals, many of whom "listened in" (as radio listening was first called) during the 1920s and 1930s.

The CPRV is an active organization and functions as a committee of the Association of North American Radio Clubs. It will continue in operation, tracking down "new-old" QSL's to ensure that The CPRV Collection at the LAB, documenting this little known but important part of radio history, will continue to grow.

For more information, contact LAB Curator Chuck Howell at the Library, or write CPRV Chair Jerry Berg at: 38 Eastern Avenue, Lexington, MA 02421.

HORNBAKE LIBRARY
COLLEGE PARK, MARYLAND 20742

## CPRV NEWS

THE NEWSLETTER OF THE COMMITTEE TO PRESERVE RADIO VERIFICATIONS • MAY 1999

Telcome to The CPRV Newsletter. The Committee to Preserve Radio Verifications has enjoyed some important successes lately, and we wanted to give you this update on our activities. We hope to issue further newsletters from time to time in the future.

#### OSL REPOSITORY

The Committee was established in 1986 to provide a vehicle for the preservation of QSLs. The CPRV QSL collection has been housed at Christian Science Monitor headquarters in Boston (CSM). We have benefitted greatly from CSM's help, and we have appreciated their commitment to CPRV.

More recently, however, CSM priorities have changed, resulting in a reduction in their involvement in broadcasting. In addition, as the CPRV collection has grown and taken on historical significance, the Committee's need for a more archival environment has increased.

As a result, the CPRV collection now has a new home. It is the Library of American Broadcasting (LAB) on the campus of the University of Maryland, College Park, Maryland. The LAB, which celebrated its 25th anniversary in 1997, is a wide-ranging collection devoted exclusively to the history of broadcasting. Among its holdings are a book collection of more than 3,000 volumes, 25,000 photographs, hundreds of periodical titles, and many thousands of pamphlets, government documents, recordings, radio commercials, scripts, clippings and other artifacts, plus specialized collections such as the Arthur Godfrey collection. The LAB operates in conjunction with its sister project, the National Public Broadcasting Archives.

And the LAB is about to get a new home itself. The building where it is housed, the Hornbake Library, is soon to be converted to a Special Collections library, and the LAB will be moving into enlarged space of approximately 15,000 square feet in Hornbake. There will be expanded research areas, special listening and viewing rooms, cold storage lockers for the preservation of brittle items, exhibits of LAB material, and other important features. The LAB will truly be a showcase for broadcast history.



LAB Curator Charles Howell has said: "I am proud to announce the finalization of the partnership between the University of Maryland Libraries (of which we are a part) and the Committee for the Preservation of Radio Verifications. We here at the Library of American Broadcasting are honored to serve as your repository. The Committee for the Preservation of Radio Verifications QSL Collection is an outstanding example of the impact that dedicated individuals can have in preserving the radio heritage of our nation and indeed the world. I anticipate a long and fruitful relationship with the CPRV."

The LAB-CPRV relationship holds the promise of many benefits. On an operational level, it will ensure the safekeeping of the CPRV collection in a library environment, make available high tech methods for the preservation of the CPRV collection, and provide researchers and others easier access to the CPRV QSLs. In addition, LAB resources will facilitate the display of some of the best CPRV QSLs in the LAB's display room and on its website. Most importantly, the LAB-CPRV relationship will serve as a recognition of the important place of QSLs in the history of radio. This is likely to make CPRV-LAB an even more attractive choice for those interested in providing for the future of their QSLs.

It should be noted that the donation of the CPRV collection to the LAB does not in any way diminish CPRV's role in the preservation of QSLs. Indeed, it expands it because the CPRV collection at the LAB will be a constantly expanding collection, and the Commit-

(continued)

tee will continue to serve as the primary vehicle for channeling new material to the LAB.

The Committee wishes to extend special thanks to LAB Curator Charles Howell, to Dr. Charles Lowry, Dean of Libraries of the University of Maryland, and to all the staff of the LAB, for their commitment to making this new relationship a reality. If you would like to know more about the Library of American Broadcasting, check out their informative website at <a href="http://www.lib.umd.edu/UMCP/LAB/">http://www.lib.umd.edu/UMCP/LAB/</a>

#### THE STATUS OF THE COLLECTION

At the start of 1999, the CPRV primary collection consisted of approximately 30,000 QSLs, all separately catalogued in the CPRV computerized database and filed for ready location and retrieval. Consistent with its emphasis on the broadcasting side of radio, medium wave (standard broadcast) QSLs comprise about 60% of the collection (of which 80% are domestic U.S. veries and 20% are from foreign countries); shortwave broadcast QSLs account for 25% of the collection; and the remaining 15% is composed of amateur radio, utility and other QSLs. The QSLs of nearly 150 persons are represented in the CPRV collection, and approximately 40% of the collection dates from before 1949.

Through the Committee's Registered Collections Program, hobbyists can place stickers on their QSL albums, Indicating their wish that the QSLs be donated to the Committee when their owners can no longer enjoy them. Approximately 85 persons have registered their collections in this way. Several registered collections have already been transferred to the Committee by the families of registrants who subsequently passed away.

## RECENT ADDITIONS TO THE CPRV COLLECTION

Many DXers know Hank Holbrook of Maryland as one of the most avid collectors of QSLs. Hank's radio listening activities date back to the 1940s. Although Hank was an all-band DXer, he is best known for his interest in utility QSLing, plus his work over many years with the Newark News Radio Club.

Hank passed away in 1998. Hank's collection, which he had registered with the CPRV in 1989, is very large. Thanks to the interest of Hank's wife and the Committee's new relationship with the LAB, Hank's QSLs are being preserved as part of the CPRV collection at the Library of American Broadcasting.

Also added to the Committee's holdings is the collection of the late Howard G. Kemp of Laconia, New Hampshire. Howard's extensive broadcast band collec-



tion includes QSLs from as long ago as 1932. In addition, the Committee has received the collection of Alvin V. Sizer. Al began DXing some 40 years ago and is well known to many senior hobbyists.

The Committee is proud to have been able to facilitate the preservation of these important collections.

#### **NEW COMMITTEE MEMBER**

The Committee recently welcomed a new member, Daniel G. Henderson of Laurel, Maryland. Dan has taken the place of the late Kent Corson. Dan is an accomplished DXer and QSL collector of many years experience.

If you would like further information about the CPRV, please contact any of its members. We are always happy to hear from those who have an interest in our work.

JERRY BERG, Chairman 38 Eastern Ave. • Lexington, MA 02421 (781) 861-8481

GERRY L. DEXTER 213 Forest St. • Lake Geneva, WI 53147 (414) 248-4845

TOM GAVARAS 66 Hackberry Hill • Long Lake, MN 55356 (612) 476-6897

DAN HENDERSON 7921 Anfred Dr. • Laurel, MD 20723 (301) 490-2023

JOHN C. HERKIMER 3233 East Ave. • P.O. Box 54 Caledonia, NY 14423 (716) 538-2582

## Scoreboard

Jerry Lineback 506 South Lawrence Avenue Scranton, KS 66537 Internet: jalinebk@satelephone.com

Welcome to the NASWA SCOREBOARD once again. The SPOTLIGHT is on South America. Next Deadline is August 15 for the September issue of the JOURNAL. SPOTLIGHT then will be on Africa. Remember to update all totals at least once a year to retain a listing on the SCOREBOARD. Country Counts are by the official NASWA Country List. Thanks to all our contributors this month.

Name, State	Total		S. America		Best S. American QSL	
	C/H	C/V	C/H	C/V		
James Young, CA	251	230	15	15	Falkland Is.	
Dan Henderson, MD	242	234	15	15	Falkland Is.	
Marlin Field, MI	241	240	15	15	R. Apinte 4794	
Jerry Berg, MA	240	238	15	15	R. Triun. Evan.	
William Flynn, OR	240	226	15	15	Falkland Is.	
John Sgrulletta, NY	236	236	15	15	Falklands 2380	
Don Hosmer, MI	227	195				
Nobuaki Takahashi, Jap.	226	201	15	10	R. P. Prudente	
Sheryl Paszkiewicz, WI	221	212	15	15	Falkland Is.	
Richard Davis, NM	220	212	15	15	Falkland Is.	
Paul Buer, FL	218	205	14	14	R. Apintie	
Rick Krzemien, CA	217	212				
Christos Rigas, IL	217	197	15	15	Falkland Is.	
Jerry Klinck, NY	214	195	13	13	R. Naylamp	
Fred Kohlbrenner, PA	214	192	14	14	LV de Galapagos	
Jerry Lineback, KS	214	109	15	12	R. Maranhao	
Stephen Price, PA	192	169	12	10	R. Satelite	
George Maroti, NY	190	148	13	11	R. Monte Carlo	
Jim Renfrew, NY	187	153	14	13	BFBS Falklands	
Bob Fleck, TX	184	161				
Allan R. Loudell, DE	184	155	12	11	VoGuyana&SRS	
Gary Froemming, AZ	181	44	15	4	CBV Chile	
Bill Bergadano, NJ	177	117				
Andy Rugg, Que.	176	157	12	11	CP73 Bolivia	
Mark Hymenyk, ONT	169	135	12	7		
Bob Raymond, NH	163	135	12	8	Action R. Guyana	
Robert E. Gearing II,FL	155	122	10	7	R. N. Paraguay	
Darren White, MS	154	110	14	9	R Satelite Peru	
Norm Constanti, MO	138	104	12	6	Argentina	
Jill Dybka, TN	129	99	11	9	R. Rumbos, Ven.	
Gary R. Neal, TX	123	113	11	10	R. Satelite	
Ronald J. Hunsicker, PA	107	95				
Bret Pollack, MD	82	54				
Gene Borowski, NY	81	66	8	7	R. N. Paraguay	

## Contributors' Page

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

## DEADLINE FORCONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions: Brian ALEXANDER, Mechanicsburg, PA Gabriel Ivan BARRERA, Buenos Aires, ARG Ralph BRANDI, Tinton Falls, NJ Eric BUENEMAN, Hazelwood, MO David CLARK, Thornhill, ONTARIO

Peter COSTELLO, Matawan, NJ Nicolas ERAMO, Buenos Aires, ARGENTINA

Jeff FINDLATER, Los Angeles, CA

Mark FINE, Remington, VA
Bob FRASER, Cohasset, MA

George GLOTZBACH, Santa Fe, NM Hugh O. GRIFFIN, Jr., Portsmouth, VA Joe HANLON, Philadelphia, PA

Bob HILL, Littleton, MA

Mark HUMENYK, Weston ONTARIO Fred KOHLBRENNER, Philadelphia, PA

David KRAUSE, Eastlake, OH Harold LEVISON, Philadelphia, PA Jerry LINEBACK, Scranton, KS George MARCII, Mt. Kisco, NY

George MAROTI, Mt. Kisco, NY Jeff MOLANDAR, Elk Grove, CA Gary NEAL, Sugarland, TX

Don NELSON, Beaverton, OR Jay NOVELLO, Wake Forrest, NC

Takayuki Inoue NOZAKI, Tokyo, JAPAN Denis PASQUALE, New Brighton, PA

Bob RAYMOND, Nashua, NH Chuck RIPPEL, Cornland, VA Betsy ROBINSON, Clinton, TN

Giovanni SERRA, Rome, ITALY Randy STEWART, Springfield, MO

Mike STRAIN, Bayville, NJ Fred TRESHER, Philadelphia, PA

Gerald WITHAM, Keaau, HI

R8B AOR AR-7030 100' LW

NRD-525 32m dipole

R8 PR150 Dressler ARA60

ATS-803A MFJ-1778 G5RV antenna R8A NRD-515/SE-3 ANC-4 Carolina Beam

AR3030 DX-390 YB400 70' LW Tun-4A Sony 2010 ICF-7600 7600G LW's

Sony ICF-2003 ICF-SW100S 2m LW

Grundig G-2000A 23' LW

Sony 2010 / 7600G EMF and LW antennas

Sony 2010 120' dipole at 35'

Magnavox D-2935 AN-60 DX-SWL sloper R8 NRD-525 Datong FL-3 ANC-4 AD Sloper

Kenwood R600 R8 R70 YB400

Icom 746 beverage antennas

R8B 2010 10/45m dipoles MFJ-956 tuner

R8B YB400 45' LW Grundig YB-400

HF1000A NRD-545 R7A 70'LW

R8A LW's

NRD515 NRD535 FRG7000

Sony 2010 beverage antennas

DX-398 20m 5/8 wave vertical

WJ-HF1000A R8B R390A/SE-3 51S-1 LW's

Sony 2010 Indoor antenna NRD-525 AD Sloper

FRG-100 w/Collins filters

FRG-7 DX-394 D398 MFJ1020B LW

ATS-818 Sony 2010 FRG-7700

R8 ANC-4 135' LW

New Dxer George Glotzbach sends in his first contributions for the Journal. He has sent out one hundred and twenty-four reception reports over the past three months. He's received thirty-five replies so far, and is anxiously awaiting the rest. Great start, George!

Jeff Molander sends in another large collection of QSL items for Sam Barto's column, and writes that he has verified one hundred and five countries since March of '98. Number one hundred was the seldom verified Radio Ethiopia. Congratulations!

**GW** 

## Tropical Band Loggings

Sheryl Paszklewicz 314 Riverview Drive, Apt 16 Manitowoc, WI 54220 spasz@dataplusnet.com

- 2310 AUSTRALIA ABC 5/3 1112 Abo mx in vern (Line-KS) 5/5 1025 talks (Ripp-VA)
- 2410 NEW GUINEA Enga 5/8 1030 cmtry (Nels-OR)
- 2485 AUSTRALIA ABC 5/6 0907 pop mx, talk (Nels-OR)
- 3215 SULAWESI Manado 5/3 1113 Indo talk (Line-KS)
- 3220 NEW GUINEA *Morobe* 5/3 1107 vern nx by YL //4890 (Line-KS) 5/3 1146 C&W, NA 1201\* (Nels-OR)
- 3235 NEW BRIT RWNB 5/3 1106 talk under ute (Line-KS)
- 3245 NEW GUINEA R Gulf 5/3 1106 EG nx //3385 (Line-KS)
- 3260 NEW GUINEA Madang 5/3 1148 C&W, orch mx, NA 1200\* (Nels-OR)
- 3265 SULAWESI Gorontalo 5/2 1108 Indo vocals (Line-KS)
- 3275 PAPUA R South. High. 5/3 1104 vern talk (Line-KS)
- 3310 BOLIVIA R Mosoj Chaski 4/15 0950 talk in lang, Andean vocals, full ID, tnx Valko (Nove-NC)
- 3315 ADM ISL R Manus 5/8 1211 on later than usual (Nels-OR)
- 3324.8 GUATEMALA R Maya 4/14 \*1000 trio vocal, prayers (Robi-TN)
- \*3325 SUMATRA Tanjungpinang 5/8 1204 IN mx, anmts (Nels-OR)
- 3335 NEW GUINEA R E Sepik 5/8 1023 pop mx (Nels-OR)
- 3345 MOLUCCAS Ternate 5/3 1114 Indo talk (Line-KS) 5/5 1050 fading fast w/vocals on 3344.9 (Ripp-VA) 5/3 1208 Indo pop mx (Nels)
- 3356 BOTSWANA *RB* 4/27 0432 lang talk, mx, ID (Eram-ARG)
- 3365.1 BRAZIL R Cultura 4/17 0503 anmts, mx, ID (Eram-ARG)
- 3385 NEW BRIT RENB 5/5 1030 discussion (Ripp-VA) 5/3 1131 C&W (Nels)
- 3385 SUNDAS Kupang 4/28 1208 nx mixing w/Rabaul (Line-KS) 5/3 1210 C&W, US pops, EG anmts, ID (Nels-OR)
- 3395 NEW GUINEA R E Highlands 5/3 1114 piano, orch (Nels-OR)
- 3395 SUMATRA R Bandar Lampung 5/3 1231 Indo pops (Nels-OR)
- 3810 ECUADOR HD210A 4/26 0735 time sigs in SP (Buen-MO)
- 3905 IRIAN JAYA *Merauke* 5/3 1111 nx, fair (Line-KS) 5/8 1242 Indo mx, ID 1300 (Nels-OR)
- 3905 NEW IRELAND RNI 5/21110 local mx in vern (Line-KS) 5/31113 C&W mx (Nels-OR)
- 3910 UNID 5/13 0016 ballad, poss C&W, talk over drums, disco mx Europirate but who? Reflections Europe Sundays only (Hill-MA)
- 3945 VANUATU RV 5/6 0835 pop mx, island mx, ID 0901 (Nels-OR)
- 3987 IRIAN JAYA Manokwari 5/8 1127 vocals w/violin, piano, ID (Nels)
- 4000 SULAWESI Kendari 5/3 1114 Indo talk (Line-KS) 5/8 1303 Indo mx, nx, IDs (Nels-OR)
- 4534.2 PERU R Horizonte 4/17 1000 folklore pgm (TIN-JP)
- 4606 IRIAN JAYA Serui 5/3 1115 accented EG (Line-KS)
- \*4630.8 BOLIVIA R 11 de octubre 4/20 0025 techno mx, ID, over Mojahed jamming, disco version of Diana (Nove-NC)
- 4725 MYANMAR VoM 5/3 1126 man in pres Burmese (Line-KS)
- 4753.3 SULAWESI *U-P* 5/3 1120 ads, Indo C&W & pops (Line-KS) 5/2 1227 Indo mx, IDs (Nels-OR)
- 4760 AND ISL Pt. Blair 5/2 1146 talk in lang, subcont mx (Line-KS)
- 4766 SUMATRA Medan 5/2 1304 nx, orch, flute, ID (Nels-OR)
- 4770 NIGERIA Kaduna 5/5 0510 EG cmtry, mx (Nels-OR)
- 4775 BRAZIL R Liberal 4/15 0029 anmts, romantic mx, ID (Eram-ARG)

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4777
        JAVA Jakarta 5/2 1231 pop mx, ID 1240 (Nels-OR)
 4779.7 GUATEMALA R Coatan 5/2 1150 pop mx, IDs (Nels-OR)
        IRIAN JAYA Fak-Fak 5/3 1125 Indo vocals (Line-KS) 5/8 1147 Indo vocals, IDs
 4789
        (Nels-OR)
 4790
        PERU RAtlantida 4/15 0039 anmts, cultural pgm, comunicados, TC, ID (Eram-ARG)
 4799.8 GUATEMALA R Buenas Nuevas 5/2 1143 mx, full ID (Nels-OR)
        LESOTHO R Lesotho 5/5 0301 Afr talk, pops, ID (Nels-OR)
 4800
4800.7 MEXICO XERTA 5/5 1055 theme from 2001, rancho mx, ID, NA (Ripp)
        HONDURAS LV de Evangelica 5/4 0015 Latin mx (Tres-PA)
4820
4820.2 BOTSWANA RB 5/5 0301 orch & Afr chant, EG ID (Nels-OR)
4824.4 PERU LV de la Selva 4/17 1011 s/on is now around 1000, ex 1100 (TIN-JP)
4832
        COSTA RICA R Reloj 5/4 0105 SP cmtry (Tres-PA)
4835
        AUSTRALIA ABC 5/6 0825 sports //4910 freq switch 0830 (Nels-OR)
4840.1 PERU R Andahuaylas 4/14 0247 Quechua & SP anmts, mx, TC (Eram)
4840.6 MAURITANIA ORTM 5/7 2350 AR mx, talk, NA (Bran-NJ)
4845.1 MOLUCCAS Ambon 5/2 1250 Indo mx (Nels-OR)
4845.2 BRAZIL R Cultura 5/5 0242 orch, full ID (Nels-OR)
4850
        UZBEKISTAN Uzbek R 4/9 1727 lang chant, IS, anmts (Serr-IT)
4858.1 MAURITANIA ORTM 4/17 0640 Koran, AR talk (Alex-PA)
4875
        IRIAN JAYA Sorong 5/3 1125 Indo vocals (Line-KS)
4880t
        BANGLADESH RB 4/18 1209 lang tlk, subcont mx (Line-KS)
4890
        PAPUA NBC 5/5 1015 nx & discussion (Ripp-VA)
4895
        SARAWAK RM 5/2 1140 lang talk (Line-KS)
4910
        AUSTRALIA ABC 5/6 0825 sports (Nels-OR)
4915
        BRAZIL CBN Anhanguera 5/8 0118 mx, ID (Bran-NJ)
4915
        KENYA KBC 5/5 0404 drums, Afr chant, pops, ID (Nels-OR)
4920
        ECUADOR R Quito 5/4 0010 cmtry (Tres-PA) 5/5 0545 mx, ID (Nels)
        SUMATRA Jambi 4/20 1159 SCI, poor (Line-KS) 4/27 1055 exotic vocals, ID, Koran
4925
        (Nove-NC) 5/2 1335 Indo mx (Nels-OR)
        COLOMBIA RN 5/4 0100 SP cmtry (Tres-PA) 5/6 0410 mx, full IDs (Nels-OR)
4955
4960
       SAO TOME VOA 4/20 0326 Afr sports, ID, addr (Bran-NJ)
       PERU R del Pacifico 4/23 1109 talk, poor (Line-KS)
4975.1
4976
       UGANDA R Uganda 4/9 1733 EG nx (Serr-IT)
4980
        VENEZUELA Ecos del Torbes 5/8 0130 poss live sports, ID (Bran)
4985
       BRAZIL R Brasil Central 5/5 0215 pop mx //11815 (Nels-OR)
4990.8 PERU R Ancash 4/17 1050 Cushi Cushum folklore pgm (TIN-JP)
4995.6 PERU R Andina 4/14 0307 esoteric pgm abt tarot, huaynos (Eram)
       BRAZIL R Pioneira 4/17 0045 accordion mx, pops, ID, tnx Costello (Nove-NC)
5015
5020
       SOL ISL SIBC 5/7 0947 ID, Sports Roundup (Bran-NJ)
       PERU Quillabamba 4/23 1056 SP mixing w/Cuba (Line-KS)
5025
5026
       UGANDA R Uganda 4/5 1856 vern talk abt Nigeria, pops (Serr-IT)
5030
       SARAWAK R Malaysia 5/8 1055 long talk, ID, nx (Nels-OR)
5030.1 COSTA RICA AWR 4/25 0020 tlk, rel mx //9725 (Alex-PA)
5039.2 PERU Libertad 4/23 1052 talk (Line-KS)
5047
       TOGO Lome 5/5 0547 FR anmts, mx pgm (Nels-OR) 4/5 1845 Afr pops, poor (Serr-IT)
5050.1 TANZANIA RT 4/17 0155 IS, talk, NA, AR chants (Bran-NJ)
5054.4 COSTA RICA Faro del Caribe 4/17 0535 anmt, rel pgm, ads, ID (Eram-ARG)
5067.1 PERU Ondas del Sur Oriente 4/23 1049 mx & talk (Line-KS)
5076.7 COLOMBIA Caracol 5/5 0450 SP mx, ID (Nels-OR)
5304.9 PERU unid folk mx from Central Peru, not Inmaculada (TIN-JP)
5640.4 PERU R Peru 4/17 1129 folk pgm, ID, TC (TIN-JP)
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GERMANY Sunrise R 4/3 0615 EG, AR mx, ID (Serr-IT)

5850

# International Band Loggings

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

59541rf COSTA RICA R Casino w/OC to 1033, NA? 1033, ID in SP, ancmts, station wedged in between Radio Cultural on 5955 & WYFT on 5950, vocal mx, back after 2 yrs off (Johnson FL via CUMBRE DX) 59811 GUATEMALA Union R in SP 0350\*, lite mx, ID's, religious mx, exc, late s/off (Alexander PA 4/17) 5995 MALIRTV Malienne in FR? 0612, Afro vocals w/drums, ID, long tlks (Nelson OR 5/6) 6015 SINGAPORE R Singapore in EG 1300, tlk re Silicon Valley, nx, mx, //6150 (Nelson OR 5/1) 6020 PERU R Victoria Lima in SP 0635, religious pgm w/gospel mx, TC's, ID, f-g (Eramo ARG 4/17) USA R Marti in SP to Cuba 2205, "Contacto Cuba", ID, nx, no jamming! (Brandi NJ 4/29) 6030 MONACO Trans World R in EG 0748, religious tlk, ID, req donations, repl 9870? (Brandi NJ 4/15) 6045nf 6055 JAPAN R Tampa in JP 0959, pips TOH, tlks, mx, //9595, bubble jamming slopover(Brandi NJ 5/3) 60999 ALBANIA R Tirana Domestic in AL 1016, lcl pop songs, tlks re Kosovo, ID, p (Serra ITALY 4/15) 61052 BRAZIL R Cultura Filadelfia in PT 0900, religious pgming, canned ID 0900, f (Nozaki JP 4/24) CANADA R Japan relay in EG 0500, IS, ID, rpt on Boris Yeltsin, g (McGuire MD 4/23) 6110 PERU R Union Lima in SP 0708-0804, saisa mx, many ID's (Nelson OR 5/6, Brandi NJ 4/15) 6115 6120 CANADA R Japan relay in EG 1105, nx - Parliament moves to help foreign workers (Fraser MA 4/16) 6145 JAPAN R Japan Tokyo in RS 0814, tlks in RS, ID "NHK", QTH "Tokyo" (Brandi NJ 4/15) 6155 AUSTRIA RAI Vienna in EG 0730, tlk on war in Yugo, ID, "Report from Austria" (Serra ITALY 5/2) 6205nf? RUSSIA R Rosii Vladivostok relay? in RS 0054, test tones, pips, TC, ID, nx (Maroti NY 4/15) 6265 ZAMBIA R Zambia in EG 0357, Afro tribal chants, orchestral mx, ID 0400 (Nelson OR 5/5) 63396 PERU R San Miguel Arcangel in SP 0045-0300\*, DJ w/echo effects, Peruvian cumbias, huaynos, and san juanito, TC's, ID, abrupt sign off (Eramo ARG 4/19, Novello NC 4/19) 6442U nf ISRAEL Galei Zahal in HB 0412, nx, tlk re disgraced cabinet member & Yugo, ID's (Brandi NJ 4/18) in HB 2345-0040, mix of Israeli pops & US rap mx, nx, no ID noted, g (Kohlbrenner PA 4/21)—thanks to Hans Johnson -Florida- who provided tip in CUMBRE DX extra bulletin. 65202nf? PERUR Paucartambo, Cusco in Quechua/SP 0030-0300\*, huaynos, varied mx, ID (Eramo ARG 4/29) PERU R Super Nueva Sensacion in SP 0025, huaynos and san jaunito mx, ID, f (Eramo ARG 5/1) 66754 PERU R San Miguel in SP 0145-0302\*, tlks, folk mx, some echo anmts, TC, NA (Alexander PA 4/11) 69871 7115 SWEDEN R Sweden in EG 0334, cmntry, mx by YL group, ID, IS, f (Humenyk ONT) ASCENSION ISLAND BBC relay in EG 0630, ID, nx, sports roundup, Afro nx, g (Findlater CA 5/2) 7160 7195 MOROCCO VOA relay in EG 0500, ID, nx re NATO, Kosovo, \* Clinton, f (Findlater CA 4/29) 7250 RUSSIA V of Vietnam relay in EG 0230, IS, ID, econ nx, cmntry re Kosovo, g (McGuire MD 4/20) THAILAND R Thailand in VT 1014, gong-based IS, full ID, into Khmer, mx, EG ID (Brandi NJ 5/7) 7260 7265 CHINA China R Int in HG 1810, tlk w/ments of China, tlks in HG, //11775 (Witham HI 4/28) BOTSWANA VOA relay in EG \*0300, nx, Kosovo update, Jesse Jackson Yugo trip (Findlater CA 5/1) 7275 7325 AUSTRIA RAI Vienna in EG 0140, llk on reading by children, conf on tolerance, g (Levison PA) TURKEY Turkiye Polis Radyosu Ankara in TK 1200, mx and nx in TK, f (Strain NJ 5/9) 7370 NO MARIANAS KHBI Saipan Herald CSB in EG 1150, relig pgm, QTH's, ID (Nelson OR 5/8) 9355 GERMANYIBC relay Julich? in Tamil/EG0016-0100\*, tlks, occasional mx, switched from Tamil to EG 9355nf at 0050, some nx prior to s/off (Costello NJ 4/21) Tnx to Mark Fine for confirmation on this one GREECE VoG in GK/EG 0130, GK mx, ID, rpt on NATO, g (McGuire MD 4/23) in EG 0858, , IS, NA, 9420 pips 0900, TC, ancmts, ID's, QTH including Web address, nx, //15630 (Serra ITALY 5/1) SWEDEN R Sweden in EG 0235, national & regional nx, wx rpt, 1D, g (McGuire MD 5/4) 9495 AUSTRALIA RA in EG 2027, nx, TC, mx bks, pgm on technology, wx rpt, ID (Serra ITALY 4/11) 9500 ROMANIA RRI Bucharest in EG 0200-0255\*, nx, cmntry, mx, g, //11725, 9570 (Alexander PA 5/1) in 9510 IT 2013, cmntry, ID, ancmts, QTH, chorus chant, pgm re Orthodox Easter, fqys, IS (Serra 4/11)

HUNGARY R Budapest in EG \*0100, "Hungary Today", ID, nx, ad (Findlater CA, McGuire MD)

9560

CHINA China R Int in EG 0130, classical & opera mx in "Beijing style", into CH 0200, fqys, sked, ID 9570nf (Findlater CA 5/1, McGuire MD 5/7) in CH 0200, CH pgming, into EG 0300, Romania no longer audible under CRI (Alexander PA 5/1) in EG 1344, repl 7405 to NA? (Fine VA 5/2) 9585 MOROCCO VOA relay in Serbian 0530-0600\*, ID, nx on Kosovo, Belgrade etc. (Findlater CA 5/2) UNITED KINGDOM Merlin R One in EG0130, new fqy w/continuous rock mx, ID, f-g overriding mild 9600nf QRM splash, off at 0200 with req to retune to 9795 which came on promptly (Treibel WA 5/3) CUBA R Rebelde Havana in SP 1210-1410\*, Cuban mx, many ments of Cuba in tlks, TC, ID at 1403, 9600 17 nothing hrd on 5025 but YL gave both favs in ID (Brandi NJ 5/8, Novello NC 5/9) TAIWAN CBS/R Taipei Int in CH 1150, tlks, time pips TOH, ID in EG, into EG pgmg (Brandi 5/7) 96101 ROMANIA RRI Bucharest in EG 0646, nx re war in Yugo, ID's, "The Weck" (Serra ITALY 5/2) 9625 BOTSWANA VOA relay in EG 0600, "Daybreak Africa", wx rpt, sports score, f (Findlater CA 4/29) 9630 9640 GERMANY AWR relay Julich in FR/EG 2027, mx interlude, ID's, into EG 2030 (Humenyk ONT) AUSTRIA RAI Vienna in EG 0235, rpt on Kosovo crisis, ID, ment of Hitler, g (McGuire MD 4/23) 9655 9665 BRAZIL R Marumby Florianopolis in PT 1002, relig songs & Bible pgm, f (Nozaki JP 4/25) PHILIPPINES R Veritas Asia in Urdu 1530-1556\*, mostly tlk, mx bks, IS, ID (Treibel WA 5/1) 9670 NEW ZEALAND RNZI in EG 1003, rpt on New Zealand's role in Kosovo, g (Fraser MA 4/19) 9700 GERMANY Deut Welle Wertachtel in SP 0000, ID, info on satellite xmsns, g (McGuire MD 4/21) 9700 GERMANY R Canada Int relay in AR 0400\*, ID, OTH, ment of Yugoslavia, g (McGuire MD 4/22) 9715 PARAGUAY RN de Paraguay in SP 2235, ID's, sports tlks, many ments Paraguay (Brandi NJ 4/21) 97376 9795nf UNITED KINGDOM Merlin R One in EG 0340, pop mx, ancmts, QTH, ID, f (Witham HI 4/13) PHILIPPINES FEBC in lang 2228, IS, ID in EG, mx, tlks, exc signal (Kohlbrenner PA 4/21) 9805nf 9855 GERMANY R Vilnius relay Julich in LT 0000, IS, ID, national & regional nx, g (McGuire MD 4/16) CZECH REPUBLIC R Prague in EG \*0700, ID, nx re Yugoslavia and related items (Findlater 4/15) 9880nf7 UNITED KINGDOM Merlin R One in EG 0710, pop x, anmts, ID, //13720, 21550 (Witham HI 4/14) 9915 UKRAINE R Ukraine Int in UK 0345, discussion in lang, ID, ments of Ukraine, f (Witham HI 4/16) 9945 CHINA CPBS Taiwan Svce #1 in CH 1613, tlk, ancmts. ID ment Zhonguo, f (Serra ITALY 4/18) 11100 11560nf SOUTH AFRICA R Kudirat Nigeria relay in EG \*1900, tlk re Nigerian politics, ID, Afro pops, annob //6205 & 11540 but unable to hear either one, 11560 poor in noise (Alexander PA 4/25) HAWAJI KWHR Naalchu in EG 0835, contemprelig mx, "Pulse FM", ID's, ads, into USA Radio News 11565 at 0900, simulcasting with two FM stations in Indiana (Bueneman MO 4/27) 11565nf? TAIWAN Taipel R in EG 2200, ID, Ici nx, stock mkt & wx rpts, "Taipei Today" g (Findlater CA 4/28) ISRAEL Kol Israel in HB 0355, EG ID, nx, wx rpt, cmntry, abrupt off 0420, g (Findlater CA 5/2) 11605 11615 CZECH REPUBLIC R Prague in EG 1030, ID, nx, wx, cmntry (Serra ITALY 4/25, Findlater 4/16) PHILIPPINES FEBC Manila in EG 0937, nx, DX pgm, pop mx (Nelson OR 5/8) 11635 TURKEY Vof Turkey Ankara in EG \*0300, nx - NATO bombings, polit items, f (Findlater CA 5/13) 11655nf JORDAN R Jordan Amman in EG1649, phone quizzes, oldies, ID, pips, NA, nx (Serra ITALY 4/18) 11690 BULGARIA R Bulgaria Sofia in EG 2335, "Time Out for Music", g (Fraser MA 4/15) 11700 SOUTH AFRICA Trans World R in Tigrina 1650, child vocals, ID in EG, g (Witham HI 4/9) 11705 ARGENTINA RAE in EG 0212, mx, tlk re keeping roads to Chile open during winter (Nelson OR 5/5) 117099v ALASKA R Free Asia relay in Mandarin 1900-2000\*, ID, dialog in lang, f (Findlater CA 4/17) 11710 11720nf7 SOUTH AFRICA Channel Africa in EG 0500, ID, "Dateline Africa", repl 152157 (Findlater CA 4/21) BULGARIA R Bulgaria Sofia in EG 2100, songs, tlk on global democracy, exc (Robinson TN 4/7) 11720 ROMANIA RRI Bucharest in EG 0415, ID, rpt on the Communist Party, p (McGuire MD 4/20) 11740 BOTSWANA VOA relay in FR \*0530, ID, nx re Yugoslavia bombings, pop mx, g (Findlater CA 4/21) 11750 BRAZIL R Guaiba Porto Alegre in PT 0220, Brazilian pop mx, ballads, tlk, ID, f (Alexander PA 4/24) 11785 IRAQ R Iraq Int in EG 2107-2130\*, ID, lite mx, nx, abrupt s/off, poor audio (Alexander PA 4/24) 11787v GUAM KSDA Adventist World R in EG/CH 1100\*, mx, fanfare, ID, fqy, QTH, g (Hanlon PA 5/2) 11795 11835 UNITED KINGDOM BBC Skelton in EG 2200, ID, nx on Kosovo, Russia, f (Findlater CA 4/19) UNITED KINGDOM BBC Rampisham in Serbian 0515\*, nx w/Clinton sound bites, ID (Findlater CA) 11845 UNITED KINGDOM R Merlin One in EG 0210, pop & rock mx, under Cuba, p (Witham HI 4/17) 11875nf 11940 SOUTH AFRICA BBC relay in EG 0600, nx, PM Blair sound bites on Yugo war, f (Findlater 4/22)

SWEDEN R Sweden in EG 0330, nx, "60 Degree North", sig nearly obliterated by bubble jamming, ID

INDIA AIR Bangalore in Pushto \*0215, ID, into Indian musical selections, g (Hanlon PA 5/3)

//9495 with excellent signal, sign off 0400 (Treibel WA 5/4, McGuire MD 5/7)

12060nf

13620

- 13640nf? TURKEY V of Turkey in EG 2200, ID, "The Turkish Album", ID, press summary, mention of tourism pgm on archeology, sked, s/off at 2250 (Findlater CA, McGuire MD 4/16)
- 13660nf7 BULGARIA R Bulgaria Sofia in GM 0520, ID, nx, Yugo undate, into FR 0600 (Findlater CA 4/16) 13710nf SOUTH KOREA R Canada Int relay in RS 2258\*, RS song, ID in RS & KR, pips (Brandi NJ 5/7)
- 13710nf? **SWITZERLAND** *SRI* in EG/GM 2000, cultural pgm, ID, into GM 2030 (Findlater CA, McGuire MD)
- 13730 AUSTRIA RAI Vienna in EG 1235, rpt from Austria on Kosovo refugees, g (Fraser MA 4/18)
- 13635nf SWEDEN R Sweden in SW 0000\*, IS, ID in EG & SW, national nx, g (McGuire MD 5/7)
- 15075 INDIA AIR Bangalore in Hindi 0315, ID, exotic mx pgm, chants, weak but audible (Findlater CA 4/21)
- 15084 IRAN VOIRI Teheran in Farsi 0358, chanting, dialog (Findlater CA) in Farsi 1700-1800, prayers and percussion mx, ID, nx (Witham HI, McGuire MD) in Farsi 2050, string mx, tlks (Strain NJ)
- 15125 INDONESIA RRI Dom Svce in IN 0500, ID, long string of mx sels, group dialog (Findlater CA 4/24)
- 15160 ALGERIA RTV Algerienne in EG 2057, ethnic mx (Strain NJ) in FR 1731, mx pgm (Humenyk ONT)
- 15200 UZBEKISTAN *Uzbek R* in UZ 1355, lcl chants, instrumts, IS, nx?, //15165 to 1400 (Serra ITALY 5/1)
- 15215 SOUTH AFRICA Channel Africa in PT/EG 0530-0655\*, nx in PT 0530, into EG xmsn 0600, 1D, Afro nx, problem of saving elephants in Africa, increase in poachers, f (Findlater CA 5/12)
- 15215 GERMANY R Canada Int relay in AR/EG 0359, end of AR service, into EG pgming 0400, QTH, IS, ID, "Spectrum" feature, g (McGuire MD 5/4)
- 15220nf? GERMANY Swiss R Int relay Julich in IT \*1830, ID, nx, into AR 1900, f (Findlater CA 4/28)
- 15230 NORTH KOREA R Pyongyang in SP \*2300, pumped up ancr, anti-US ranting, f (Findlater CA 4/20)
- 15240nf? MARIANA ISLANDS VOA relay Tinian in EG 1200, ID, "News Now", f-g (Serra ITALY 4/15)
- 15250 ITALY RAI Rome in IT 0430, ID, classical mx pgm, nx re NATO and Clinton, g (Findlater CA 4/18)
- 15285 EGYPT V of Arabs in AR 0918, AR songs and tlk, //11980 with torn audio (Serra ITALY 5/1)
- 15295 UZBEKISTAN R Tashkent in EG 1335, brief nx, lcl mx breaks, ID, tlks, //17775 (Serra ITALY 5/1)
  15310 OMAN BBC relay in EG 0400, ID, nx re Kosovo & poss use of ground troops, f (Findlater CA 4/21)
- 15315nf GERMANY Swiss R Int relay Julich in IT 1130, nx, fire in Monte Bianco tunnel, ID (Serra 4/15)
- f5340 NORTH KOREA R Pyongyang in FR 0500, ID, opera mx, arias, f, //15180 (Findlater CA)
- 15385nf SPAIN R Ext España in FR/EG 2300-0035, FR pgming to 0000, ID, latino mx, nx, into EG pgming 0000, rpt on NATO summit, Q&A's on medical problems (McGuire MD, Findlater CA, Levison PA)
- 15390 ASCENSION IS BBC relay in EG 2130\*, BBC Caribbean rpt, trade problems, g (McGuire MD 4/23)
- 15400 FINLAND R Finland in EG 1230, book review pgm, "The Coptic Church" etc., exc (Robinson TN 4/4)
- 15410 MOROCCO VOA relay in EG 1630, African svce, world nx, ID's, jingle, feature (Serra ITALY 4/4)
- 15445 BOTSWANA VOA relay in EG 1752, mx by Cher, TLC, Sugar Ray, cmntry, I (Humenyk ONT) 15475 GABON Africa #1 in FR 1800-1900\*, ID, continuous Afro pop mx, drums, I (Findlater CA 5/4)
- 15530nf? GREECE V of Greece in GK 1200, nx re Slobodan Milasevic, trad mx/vcls, exc (Robinson TN 4/4)
- 15530 PAKISTAN R Pakistan in EG 1104, several notes of 1S "Typewriter Song", ID in heavily accented EG, fqys including //17835 (not audible). Moderate strength w/dual-path echo (Hill MA 5/15)
- 15545nf7 SWITZERLAND SRI in IT 0720, instrml mx, ID in EG 0730, //17685, 21750 (Witham HI 4/14)
- 15615 ISRAEL Kol Israel in HB 0100, ID, IS, nx, mx, p, //15640 (McGuire MD 4/22) in HB 0400, dialog by 2 OM's, ment Netanyahu, Kosovo, Haifa, Eilat, //11590 (Findlater CA 4/24)
- 17535 ISRAEL Kol Israel in EG 0400-0415\*, ID, wx rpt, financial mkts rpt, press review, f (Findlater CA 5/6)
- 17545 ISRAEL Kol Israel in EG 1900, ID, nx, cmntry on Arafat's speech, other polit nx (Findlater CA 5/11)
- 17575nf? SPAIN REEspaña in SP 2200, ancmts, Latino mx, nx, g (Finddlater CA 4/24)
- 17580 RUSSIA R Nederlands relay Khabarovsk in DT \*2330, ID, nx re Kosovo, NATO, f (Findlater 4/27)
- 17590nf? OMAN R Oman in AR 0520, YL chatter, mx bridge, brief drama, Mideast mx, g (Witham HI 4/20)
- 17615nf THAILAND BBC relay Nakhon Sawon in EG 0000, nx re drought in India, Denver protests over gun control, Kosovo update, exc (Findlater CA)
- 17630 GABON R France Int relay in SP 1807, nx, taped rpt about politics, exc. //21645 (Humenyk ONT)
- 17630 GABON Africa #1 in FR \*0700, ID, Afro nx, ment Senegal, Congo, Afro pops, g (Findlater CA 5/11)
- 17640 CYPRUS BBC relay in EG 0500, tlk on 18th-19th century Easter hymns of various countries, played examples, into nx 0600, "Letter from America" 0630, f (Findlater CA 5/8)
- 17660 ECUADOR HCJB Quito in EG 1910, "Studio 9", Quito agricultural meeting on potato insects, exc (Fraser MA 4/21) in EG 1909, "News from NASWA" on DX Party Line (Hanlon PA 5/1)
- 17730 ANTIGUA Deut Welle relay in GM 1600, nx, taped cmntry, ID, exc, //17765 (Humenyk ONT)
- 17735 PHILIPPINES VOA relay in EG 2330, ID, cmntry on fighting in E Timor, f (Findlater CA 4/27)

17820 FINLAND R Finland in FN 0710, 2 men in lengthy tlks beyond 0730, f, //21670 (Witham HI 4/13) 17860 JAPAN R Japan NHK Tokyo in Mandarin 0630, ID, dialog, polkas, into JP 0700, f (Findlater CA 5/8) RWANDA Deut Welle relay in GM 2300, ID, 2 men in dialog, GM style rap mx, f (Findlater 4/27) 17860 17895 SAUDI ARABIA BSKSA Riyadh in AR 0500-0600\*, Holy Qu'ran, continuous chants (Findlater 5/11) 21520 ITALY RTV Rome in IT 0644, conversation by OM & YL overlaying mx backdrop (Costello NJ 5/17) 21540nf GERMANY R Vlaanderen Int relay in FR 0957, African svce, IS, ID in EG/FR, nx (Serra ITALY 4/15) 21550 UNITED KINGDOM Merlin Network One in EG 1610, C&W mx, ads for selections (Levison PA) 21600 GERMANY D Welle Nauen in GM 0648, tlk by OM, adjacent chan QRM from UAE (Costello 5/17) 21605 UNITED ARAB EMIRATES R Dubai in AR 0652, Mideast mx, cmntry, ads, exc (Costello NJ 5/17) 21610 SPAIN REEspaña in SP 0657, IS, tlk ment Australia, nx w/sound bytes, exc (Costello 5/17) in SP 1050 nx alternating w/mx, ID, strong QRM splash from UAE xmsn, p (Serra ITALY 4/14) GABON R Japan NHK relay in IT 1030, ID, fqy, nx, current economic info (Serra ITALY 4/15) 21700 21725 AUSTRALIA RA in EG 0659, tlk, Radio Australia feature, nx 0700, mx, f-p (Serra ITALY 5/2) 21740 AUSTRALIA RA in EG 0127, discussion abt Olympics in Sydney, //17795, 17750 (Humenyk ONT) Clandestine, Tentatives, Presumed, Or Unknown 5990nf CHINA(p) China R Int - site unknown (Mali relay?) in EG 2335-2357, "On the Road", "Listeners' Letterbox", s/off EG xmsn w/sked to Central & South Africa, into SP 0000 (Hanlon PA 5/2) CANADA CKZU Vancouver(p) in EG 0830, pgming from R Nederlands, "CBC Overnight", into BBC 6160 "The World Today", wiped out by s/on of CKZN w/NA and ID 0852, presumption is that the other station still hrd faintly in the background was undoubtedly Vancouver - 500 watts (Brandi NJ 4/15) 6255 UNIDENTIFIED Pgm in AR? 1705, Mideast instrmtls, YL speaking poetically over mx, ezl & vocals continuing to 1730, nx until 1735 and fade out, p (Witham HI 4/28) 7125 GUINEA RTV Guineenne(p) in FR & ethnic lang \*0557, no decipherable ID, ment Sierra Leone and

SINGAPORE BBC Asian relay in EG 0500, ID, "World Today", Yugo peace efforts (Findlater 4/30)

continued in different lang (Hmong?) or another mountain tongue, fair sig but choppy (Hill MA 5/15) Later data from Bob Hill indicates xmsn repl ex-10060 and is // to 5925. Also, xmsn runs from 0930- 1200 and changes to Network 2 at 1130 with // sat 4960, 5925, and 7156v. Bob cites this data from DX Window and it seems to indicate that 9875 is used for Hanoi direct xmsns even though that fqy is used to relay V of Vietnam xmsn via Petropavlovsk from 0400-0500. Confusing!?

UNIDENTIFIED Sign on \*1800 and off 2000\* with continuous rock mx, tlk, no ID (Findlater CA) 11930

IRAN(I) VOIRI Teheran(p) in AR 0130, continuous chants, nx 0200, s/off 0211\* (Findlater 5/10)

VIETNAM National Network 1, Hanoi (site presumed) in VT 1024, theme at 1029, anmts, at 1030 YL

- 13695 UNIDENTIFIED Same s'on and s'off time as unid on 11749, cont pop mx, no ID (Findlater 5/7)
  156496 CLANDESTINE R Free Asia (site?) in Mandarin 0335, phone interview, jammed (Witham HI 4/16)
  15680 CHINA(p) CNR site? in CH \*2300-2357\*, no decipherable ID, dialog, ment CH cities (Findlater 4/27)
- 197252 UNIDENTIFIED ID in RS 0720, monologue, brief mx, nothing hrd on 9865, probably no harmonic, also heard previously during March 1998, p (Wistham HI)

## FRENDX: Twenty Five Years Ago....

Gambia, Afro pop mx, drums, f (Findlater CA 4/28)

17760

9875

The Shortwave Center column featured an interview by Serge Neuman with Tom Meyer host of Radio Nederland's Happy Station program and a method of keeping logs of DX catches by Ed Shaw. Larry Magne's Clandestine Bulletin carried news about the recent military coup and clandestine broadcasting situation in Portugal. Neal Perdue was the new editor of the Scoreboard column. Exciting QSL news appeared in Larry Yamron's QSL Report column. Radio Frunze, Kirghiz SSR and Turkish Police Radio verifications were reported.

FOR SALE: Drake R-8A receiver in mint condition with Drake MS-4 speaker, manual, dust cover, and original box. Owned by non-smoker. Price \$850.00 including shipping. U.S.A. only. Stephen Leite, 190 Healy Street, Fall River, MA 02723-1217. Phone (508) 675-2830 from 2030 to 0100 UTC.

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clude all longwave, medium wave (AM) and shortwave frequencies. FM stereo is provided to the earphone and line out jacks. The dual conversion shortwave circult supports 1 kHz readout for

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Executive Council: Jerry Berg, Ralph Brandi,

Bob Brown, Dr. Harold Cones, Rich D'Angelo, Kris Field, Bill Oliver

### **EDITORIAL STAFF**

Managing Editor: Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606 Desktop Publishing/Graphics: Ralph Brandi,

P.O. Box 491, Lincroft, NJ 07738 Shortwave Center: Jerry Lineback, 506 S.

Lawrence Ave., Scranton, KS 66537

Easy Listening: Richard Cuff, 327 Springhouse Road, Apt. 102, Allentown, PA 18104

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Technical Topics: Joe Buch, N2JB, P.O. Box 1552, Ocean View, DE 19970-1552

QSL Report: Sam Barto, 47 Prospect Place, Bristol, CT 06010

Distributing Editor: Fred S. Kohlbrenner, 2641 S. Shields St., Philadelphia, PA 19142

Tropical Band Loggings: Sheryl Paszkiewicz, P.O. Box 152, Manitowoc, W154221-0152

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Vincentown, NJ 08088-2275

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