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NORTH AMERICAN SHORTWAVE ASSOCIATION

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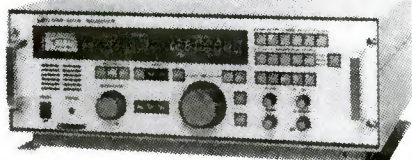
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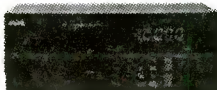


What kind of receiver is designed for professional use, 24 hours per day? What kind of receiver is designed for intuitive, non-fatiguing monitoring by shipboard radio operators? Such a receiver is the Japan Radio Company's NRD-301A. The display is large. The knobs are large. Each mode has a separate button. Each bandwidth has a separate button. There are separate knobs for RF Gain, Volume, Pass Band Shift and Squelch. This receiver is a dream to operate and is arguably the most impressive looking radio we have ever offered. And performance, as you would expect, is second to none.

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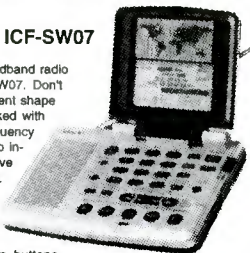


The new Japan Radio Co. NRD-545 DSP is the most sophisticated receiver ever developed for the hobby market. Please call to receive full technical details and pricing.

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Sony changes the shape of worldband radio with the introduction of the ICF-SW07. Don't let the diminutive size and different shape fool you. The ICF-SW07 is packed with features and performance. Frequency coverage is 150 to 29999 kHz to include all longwave, medium wave (AM) and shortwave frequencies.

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This huge 473 page guide covers over 770 receivers from 98 manufacturers, made from 1942-1997. Entry information includes: receiver type, date sold, photograph, size & weight, features, reviews, specifications, new & used values, variants, value rating & availability. 120 new pages. Become an instant receiver expert! #0003 \$24.95 (+\$2)

● Passport To World Band Radio 1999 Edition
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● World Radio TV Handbook 1999 Edition!
All shortwave broadcast stations organized by country with schedules, addresses, power, etc. #2000 \$24.95 (+\$2)

● Pirate Radio By A. Yoder With audio CD!
Here is the incredible saga of America's underground illegal broadcasters (with audio CD). #338 \$29.95 (+\$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. #0042 \$19.95 (+\$2)

● Joe Carr's Receiving Antenna Handbook
Arguably the best book devoted to receiving antennas for longwave through shortwave. In stock. #3113 \$19.95 (+\$2)

● Shortwave Listening Guidebook 2nd Ed. By H. Helms
This noted author provides understandable information on all aspects of shortwave listening. #2084 \$19.95 (+\$2)

● Discover DX'ing! By J. Zondio New Second Edition!
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The FPR-1 Freeplay radio combines the ingenious Baylis generator with the latest in radio technology. Winding the handle for 20 seconds provides 30 minutes of listening. Here is assured radio performance, day or night without the worry (and expense!) of batteries. The analog dial covers AM, FM and SW from 3 to 12 MHz. Made in the Rep. of South Africa. #3123 \$99.95 (+\$7)

The smaller Freeplay FPR-2 model covers just AM & FM. #3067 \$69.95 (+\$6)
The Freeplay FPR-2SM is gray, AM & FM with solar cell. #2413 \$79.95 (+\$6)
The Freeplay FPR-2SC is clear, AM & FM with solar cell. #1441 \$79.95 (+\$6)

The *Universal Used Equipment List* is updated very few days on Universal Radio's web site:

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NARCA Notes

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

After many years of dedicated service to the club, **Kris Field** will be stepping down as a member of the club's Executive Council. Also, Kris will be relinquishing his duties as the club's ANARC Representative. Fred Kohlbrenner has agreed to fill Kris' spot on council. Harold Cones, who already sits on the ANARC Executive Board, will be taking over the ANARC representative position. Kris has been involved in numerous club efforts over the years and he will be missed. Kris, thanks for all you have done for the club!

At the 12th annual Winter SWL Festival, **Mark Meece** announced the recipients of the Association of North American Radio Clubs ("ANARC") awards for 1999. This year the DX'er of the Year award was renamed to recognize the accomplishments of ANARC's first Executive Secretary, **Don Jensen**. The award is presented annually to the hobbyist that has exhibited characteristics of leadership, dedication, and all around outstanding contributions to the listening hobby. The first *Don Jensen Distinguished Service Award* was presented to **John McColman**. Also, ANARC recognized four individuals for their unselfish dedication to the listening hobby with Certificates of Recognition—**Bill Oliver**, **Bob Brown**, **Harold Cones** and **Kris Field**. Congratulations to each award recipient!

It pays to be nice. Your humble editor was the proud recipient of a He-Man Radio tee shirt last month. It was a reward for selecting my He-Man QSL as my favorite in the A*C*E Pirate QSL Statistics column edited by John Arthur. Unfortunately, **He-Man** mentioned, "Also no one is buying them so I'm giving em away." I must admit that statement took a

ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave, medium wave and longwave listening, DX tips, and up to the minute hobby news. Contributors share their DX tips via their own amateur radio stations or by telephoning a "gateway" station who then broadcasts the relayed tips. Contributions are also accepted via the Internet Relay Chat (IRC) channel #swl while the net is in progress. Net Controls Dave N1DK, Bill WA2DVU, and AI NN2U host an always lively gang of DX monitors. (Best heard in the eastern half of NAm) Net info is also available at <http://www.trsc.com/Radio/SWL_Net/swl_net.html>. If you miss the net, you can hear it in RealAudio on the Internet, on Dave Kirby's home page, <<http://www.n1dk.com/>>. Dave also posts text versions of loggings.

little of the shine off my free tee shirt. Nevertheless, I am happy with my present from He-Man! Thank you!!

From time-to-time we have members that renew late. While we appreciate all our members, even those renewing late, hi!, late renewals do pose a problem if the member would like copies of missed bulletins. We no longer maintain a stockpile of back issues of the Journal. Therefore, we can no longer supply missing issues. So, if you do not want to miss any issues, please renew on time. Thank you!

From **Harold Sellers** we learn that the Ontario DX Association web site is making a small

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.

move (".ca" will become ".com"). The new address, which is parallel to the old address, is www.durhamradio.com/odxa.

Bob Padula (404 Mont Albert Road, Surrey Hills, Victoria 3127, Australia, E-mail: bpadula@compuserve.com) announces that the latest *High Frequency Spectrum Study (No.6)* is now available, free of charge, from the Electronic DX Press. This new Study covers shortwave reception in Australia from November 1, 1998 until January 31, 1999, for the B98 Transmission Period, of commercial broadcasters heard between 0000 and 0400 UTC on frequencies up to 9999 kHz. The Study gives aggregated details of actual monitoring made by a number of hobbyists over the three-month period, showing spectrum occupancy, languages, times audible, sign-on and sign/off times, transmitter sites, and other details, of stations in all continents, and includes data for the unusual Midday Summer Mode. This Mode occurs each summer and is marked by weird and unexplained reception across the Australian noon period of transmitters in Asia and Africa on frequencies down to 4 MHz, of up to 11,000 km across daylight paths! Print copies of the Study are also available for a nominal charge to cover printing and mailing costs to Australian addresses: A\$5 (cash,

postal order, cheque, or 5 IRCs), and to other addresses (economy airmail): US\$5 (cash), A\$5 (cash), international bank draft on an Australian bank to yield A\$5, or 5 IRCs. There is an enormous amount of information contained in this Study, unavailable anywhere else in this form, which will be of value to anyone with interest in long distance shortwave radio propagation.

Just a brief reminder that our publisher, **Bill Oliver**, has a new e-mail address boliver@bboard.com. Any questions about your membership, mail problems, etc. should be directed to Bill at that address or the standard surface mail address (45 Wildflower Road, Levittown, PA 19057). Also, editor **Sheryl Paszkiewicz** has a new email address: spasz@dataplusnet.com.

Don't forget to get any questions you may have about the use of the club's country list to **Don Jensen** (5204 70th Street, Kenosha, WI 53142 or dnjkenosha@acronnet.net). DNJ will be happy to answer any questions you have. Remember to include return postage if contacting Don by regular mail.

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



FRENDX: Twenty Five Years Ago....

The April Fool's edition of Ed Shaw's Shortwave Center column carried a feature about the Andaman "Saudara Receiver, which cost only US\$55.00! There was a report in SWC that the Polish Pathfinders station would air a special broadcast for the club on May Day. Members were asked to check the mid-month Flashsheet for further details. In the ANARC Report written by Al Reynolds, a review by Jerry Lineback of the new Barlow Wadley receiver appeared. The Spanish language reception report form, developed by Victor Jaar, Barry Wildblood and Gregg Calkin was reprinted. The club's July convention at the Neil House in Columbus, Ohio was drawing near. Early registration totaled 50. [Special thanks to Fred Kohlbrenner for supplying a copy of the April 1974 Friendx, which enabled me to do this month's retrospective.]

Calendar Of Events

Mar/Apr Celebration. 25th Anniversary of the Ontario DX Association. XK3D will operate for the period starting at 0000 UTC March 25, 1999 to 2359 UTC April 25, 1999. XL3D will take the place of VE3ODX as one of the two "10 point" stations in the 3rd Annual Ontario QSO Party to be held April 24, 1999 at 1800 UTC to April 25, 1999 at 1800 UTC. QSL direct with SASE or SAE with sufficient return postage to: XL3D, Ontario DX Association, P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8, CANADA. Or you may QSL via the bureau via VE3ODX or VE3SRE. For further information on this or the Ontario QSO Party visit the Ontario DX Association website at <<http://www.durhamradio.ca/odxa>> or e-mail to ve3sre@rac.ca.

Apr '99 DX Camp. The Ontario DX Association will be sponsoring a **Spring 1999 DX Camp** at the Lake St. George Conservation Field Centre, located only 30 minutes north of Toronto. There are numerous ways of obtaining additional information: (1) visit <http://www.durhamradio.ca/odxa/> for details, (2) e-mail Harold Sellers at dxontario@compuserve.com, (3) write to ODXA, P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8, and (4) telephone Harold Sellers (905)853-3518.

Apr'99 Convention/DX Camp. The Danish Shortwave Club International will hold its **Annual General Meeting and DX Camp** during the weekend of April 30-May 2, 1999 at a scout camp in the dunes of the west coast of Jutland, Denmark. Details to follow.

Apr 16 Meeting. Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831.

Apr 16 Meeting. Boston Area NASWA Chapter. The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <<http://www.anarc.org/naswa/badx/>>.

May 14 Meeting. The Tidewater SWL's meet at 6:30 PM. For more information plus meeting location contact Joe Buch at joseph.buch@dol.net

May 14 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX) meet at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at <mmeece@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>

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'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.

Sep'99 Contest. AWR Contest. Largest QSL collections, long delays in receiving a QSL, and QSL cards from the old AWR unit in Africa. More details to follow.

(continued on next page)

Calendar Of Events (continued)

Mar 10-12, 2000 Convention. The 13th Annual Winter SWL Festival will be held at the Kulpsville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 10-12 March 2000.

Mar 19-21 Contest. 1999 North American DX Championships. For further information you can send a self-addressed stamped envelope to 2000 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606. Rules will also be posted eventually at <<http://www.anarc.org/>>.

Sep'00 Contest. AWR Contest. Number of different QSL stamps in the listener's collection. More details to follow.

Apr'99 Convention. The 35th Annual International World Wide Continental DX Association (IWWCDXA) will be held in Tahiti at the Charlie Loudenboomer Estate on April 1, 1998 from noon until midnight. Charlie will lecture continuously during this 12-hour period on a variety of boring subjects some of which may actually pertain to shortwave radio. Registration fee is a modest \$150.00 with an extra \$50.00 charge for the traditional hamburger helper banquet. More information is available from Charlie at <cl@sucker.com>.

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

Musings

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

Ed Mayberry, EdMayberry@aol.com

After almost a decade of membership in NASWA, one thing I'm seeing is just how active the different members I know from the pages of the *Journal* seem to be in the shortwave world. Now that I'm on the internet (late bloomer) I see the web presence of many of these members—you guys are everywhere!

I first heard shortwave on Dad's old Arvin portable (don't recall the model) that had a couple shortwave bands. That was back in the late fifties and early sixties. Then in junior high I got a shortwave of my own—the Hallicrafters WR-600W. I remember some great mid-60's listening, with the stuff coming out of nations behind the Iron Curtain, and great music on Radio Habana Cuba. There was Happy Station on Radio Nederland with Eddie Startz, and the Dody and Jerry Cowan request show. The BBC World Service still mailed the monthly program guide London Calling. And the stations sent out amazing calendars, magazines, postcards, pens, pennants, certificates, booklets, and all kinds of trinkets. Radio Peking sent me Chairman Mao's Little Red Book, and I thought the FBI must surely know. I discovered QSL cards. I was a member of the Iowa Shortwave DX Association and the Batesville Shortwave Association—even mimeographing their monthly bulletin Radiogram, later called Relay. I got my first *World Radio and TV Handbook* in 1968.

I added an Allied Radio Shack SX-190 in the early 70's, and learned how to figure out exact frequencies when tuning. My second *WRTH* was bought in 1973. I tried publishing my own monthly shortwave program guide *International Listener* for a short while, with contributors like Glenn Hauser and Roger Legge, and input from the international stations themselves. And then life and work caused me to put shortwave aside—or at least more in the background. I got into broadcasting while in college, as a disc jockey, and later as a newsman. Still doing it.

But when the Gulf War built up, I bought a Radio Shack Realistic DX-350—a dinky little portable—and had a great time jumping back into DXing. While in my late thirties, I rediscovered the fun of QSL cards and strange mail from exotic places. And Monitoring Times had come along by then. That's about when I re-discovered the *NASWA Journal*. Then I finally got a Sony ICF-2010. It's been solid listening since then. That's a shortwave radio the way God intended! From then I've managed to take in about four or five hours of the BBC World Service each day. And now there's BBC On Air. And *Passport to World Band Radio*. That and *WRTH* every year, since.

Now I'm in my late forties, and having just discovered the web in the past few years, I'm having more fun than ever, "tuning in" international radio on the computer! And now there's the *Passport to Web Radio*. But I still spend my quota of hours tuned in to the BBC over the shortwave—on the 2010 and even on the DX-350.

And here's the kicker—I've started a shortwave website! It's called International Listener, and it's at <<http://members.aol.com/EdMayberry/InternationalListener.html>> meant to be Bookmarked for easy access to international shortwave radio station webpages, and to launch their webcasts. There are TV webcasts, shortwave links (even to Glenn Hauser's page, and to *WRTH* and *Passport!*) and news organizations, and it's updated constantly.

Almost 40 years of listening, and the fun's just begun! Thanks.

Nikolai Rudnev, Lenina 5A-34, Stroitel, Belgorodskaya Obl., 309120, Russia

My name is Nikolai Rudnev and I've been cooperating with the *Journal* since 1992. I am not a member of *NASWA*, but I send information on Russian SW stations for the Listeners' Notebook column. I find the *Journal* interesting and useful publication for SWLs and DXers.

I'm 30, live in a small town approximately 600 km south of Moscow, not far from the Russian-Ukraine border. I also like reading and listening to music (apart from SWLing and DXing).

I have a favor to ask you. Could you help me to obtain a second-hand hand-held scanner? All I need is a modest, not new scanner capable of receiving 33-50, 146-174 and 406-512 MHz in narrow FM mode with search function and having at least 20 channels of memory. You, your friends, your colleagues may have a spare scanner. I would be very thankful to you if you help me. Unfortunately these devices are not sold here, although they are legal.

Many thanks in advance –Nikolai

N446b

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

Easy Listening

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

'Fest Thoughts...

It was good to see many of you at the Twelfth (!!) Winter SWL Festival. Several folks mentioned that, although they're hardcore DXers, their radios actually are tuned to the major broadcasters more often than they are actually DXing. Comments like that help me stay motivated in compiling program information each month for the column. Several of those I spoke with have increased their daily listening hours over the past year, as they listen to broadcasters such as the BBC and Radio Australia via Internet audio on their workplace computers. My policy here in the column will continue to focus on shortwave broadcasters, though I will mention program timings on "live" Internet audio feeds that augment regular over-the-air timings.

One clear message from most major broadcasters is that shortwave in some form will continue to be part of their media mix for the foreseeable future, as shortwave is still a key vehicle for reaching the third world. However, other vehicles, including local placement and Internet audio, will grow in their relevance in the mix. In prior years I have mentioned that promoting local placement was dicey, as it is such a localized offering, but increasingly broadcasters' websites contain this information - a good application of Internet technology.

Seasonal Changes—General

Much of this month's column will focus on the biennial ritual of seasonal time and programming changes. Frequency changes abound, as well; these will be covered in the *Listeners' Notebook* and *Frequency Schedules* sections as usual. Most of the time

changes were effective on March 28th, with the exception of those North American broadcasters who changed their schedules on April 4th.

Subtract One Hour UTC:

<i>CBC Northern Quebec Service</i>	<i>Radio Canada International</i>
<i>Kol Israel</i>	<i>Voice of Russia</i>
<i>Radio Yugoslavia</i>	<i>Voice of Turkey</i>
<i>Radio Bulgaria</i>	<i>WEWN</i>
<i>Radio Tirana</i>	<i>WGTC</i>
<i>Radio Vatican (except for Am.)</i>	<i>World Harvest Radio Int'l</i>
<i>Radio Austria International</i>	<i>WJCR</i>
<i>Radio Sweden</i>	<i>WRMI</i>
<i>Radio Argentina</i>	<i>WRNO</i>
<i>Radio Budapest</i>	<i>WWCR</i>
<i>Radio Ukraine International</i>	<i>WYFR</i>

Add one hour UTC:

Radio New Zealand International

Seasonal Changes - BBC World Service

BBC World Service

Thankfully, most BBC programming does not change time with these spring changes, with some exceptions for prime time North American listeners:

0230 programs move to 0430

0300 and 0400 hour programs move to 0200 and 0300, respectively

0530 second half hour of *The World Today* dropped to the Americas, replaced by music programming: *Jazzmatazz* (Monday), *The UK Top Twenty* (Tuesday), *Andy Kershaw's*

World of Music (Wednesday), *Blues World* (Thursday), *John Peel* (Friday). Interestingly, the *Multitrack* series has disappeared from the schedule.

0700 hour programs move to 0600

1000 *World Update* moves to 0900 (no doubt driven by Public Radio airings)

1030 *Britain Today* and *World Business Report* now available to the Americas

1700 *Europe Today* moves to 1600

I'll have more details below on BBC World Service highlights for April.

Brussels Calling

Judging by his website comments, Frans Vossen, host of *Radio World* on *Radio Vlaanderen International*, appeared to enjoy his time at the 'Fest. RVI has been relaying its 2230 UTC broadcast to North America from Bonaire, and this broadcast is now being repeated at 0400 UTC. 15565 kHz is used for both broadcasts. These times are effective as of March 28th.

Here's a quick review of the program schedule, valid through March 28:

Belgium Today, Press Review (Mon-Fri)

Focus on Europe, Sports (Mon)

Green Society (Tues)

The Arts, Around Town (Wed)

Economics, International Report (Thu)

The Arts, Tourism (Fri)

Soundbox (Mon-Fri)

Music From Flanders (Sat)

Radio World, Soundbox (Sun)

I'll update this program listing if there are changes with the new season. Meanwhile, it appears that English timings are changing overall; RVI's English broadcasts will now air at 0700, 1130, 1730, 1930, 2230, and 0400 UTC. (RVI website)

BBC World Service—Highlights

Current Affairs

Sundays, 1205: *From Our Own Correspondent*, one of my personal favorite programs featuring background reports from BBC cor-

respondents, is lengthened to 25 minutes in this airing. The other weekly airing, now Thursdays 0330, remains at 15 minutes.

Sundays, 1405: *Talking Point* is the new name given to the relaunch of the weekly phone-in program formerly known as *Newstalk*. Typical subjects include overpopulation, genetically modified food, global warming, capital punishment, or politician behavior. It appears that sometimes the conversation will only be among peers, though occasionally experts and celebrities will field the questions. A 40-minute edited repeat airs Mondays 0615. E-mail: talkingpoint@bbc.co.uk. Also, additional electronic "conversation", covering subjects beyond the radio program, is planned for the *Talking Point* website, <http://www.bbc.co.uk/talkingpoint>.

Drama and The Arts

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

April 10th: *Husband and Wife*, a play by Aleksander Fredor, Poland's most famous playwright, exploring marital infidelities and their consequences.

April 17th and 24th: *Henry IV Part Two*, the second Shakespeare play on Henry IV's reign. The same actors are featured in the main roles as in February's airing of *Henry IV Part One*.

Americas repeats now air at 0530 Sundays.

Tuesdays through Saturdays, 0345: *Off the Shelf* offerings include:

April 6th–April 17th: *News Of A Kidnapping*, the true stories of the Colombian kidnapping of journalist Maruja Pachon.

April 20th–May 8th: *Frankenstein*, Mary Shelley's classic.

Fridays, 1730: *Short Story* returns with the following listener contributions:

Tsar Boris, a black comedy set in St. Petersburg, Russia, by Sarah Sydney Collins;

The Beneficiary, about an unhappy marriage changed by an inheritance, by Juliet Sandison of Australia;

Blood on the Highway, a drama about a woman dealing with her daughter's death at the hands of a drunk driver, by Beth Dotson of the USA;

Quenoninó, about a boy's hunting forays and bad luck, written by Barbara Villanova in the Netherlands.

General Features

Saturdays, beginning April 10th, 2101: *The Reith Lectures* is an annual five-part, 59-minute long series of lectures on a single theme. This program has been a BBC domestic staple for years, but 1999 marks the first appearance of the series on the World Service. Anthony Giddens, director of the London School of Economics, will literally tour the world as he delivers the series; Hong Kong, Delhi, and Washington will be featured cities. Globalization is the theme, and the series is entitled *Runaway World*. Somewhat surprisingly, there are no repeat airings; the only other option is the Africa stream, where the program will air at 0601 Sundays.

Saturdays, 0330, beginning April 3rd: *The Way We Are* returns for a third series of eight-part, 15-minute programs investigating changes and trends in British life. Research on families, work, leisure, and lifestyle will be discussed. Also airs Mondays 1730.

Tuesdays, 0330, beginning March 30th: *Coffee—A Hellish Brew* is a new four-part 15-minute series exploring the world's second most valuable commodity (after crude oil). Legend has it that a Yemeni goatherd discovered coffee's stimulating effects when his goats ate coffee beans and got friskier. The good, the bad, and the trivial about coffee will be discussed. First airing Mondays 0715; repeated Fridays 1515.

Wednesdays, 0330, beginning March 31st: *Going South* is a repeat airing of Michael Goldfarb's five-part, 15-minute series touring the state of Mississippi and learning how its past has shaped its present. I know I always learn something from the British perspective on American culture and history. First airing Tuesdays 1730.

Wednesdays, 0430, beginning April 7th: *A Second Generation* is a new four-part, 30-minute series examining how it is to be young and black in contemporary Britain. Without the history of colonialism and slavery, black culture in Britain is more concerned about general multicultural contemporary urban life, versus the righting of discriminatory wrongs. First Americas airing Saturdays 2130; also repeated Sundays, 0730.

Weekdays, 1205 and 2305: *Outlook* includes substantial content this month on the BBC Education project, *Children Of Conflict*, all about child soldiers and how their lives have been indelibly scarred. Ten series of programs, with over 75 programs in total, will be produced in 9 different languages. The effort is produced in collaboration with the United Nations High Commission for Refugees, and the programs will be linked to a (currently unnamed) Human Rights website.

Pop and Youth

Saturdays, beginning April 3rd, 0805 to Europe and Africa, 1805 to Cyberspace: *The Edge* is a new two-hour weekly mix of music and features targeting a young audience, and appears to be a significant new initiative for the World Service. While some might gripe about the continuing trend of "dumbing down" at the BBC, I admire the Beeb for setting its sights on a younger set. It's necessary if the BBC is to build loyalty to its programming. The two presenters, Kirsten O'Brien and Steve Merchant, are in their twenties; O'Brien is new to the World Service, and Merchant is new as a front-line presenter. O'Brien's past work for the BBC is in children's programming, so it's tough to say exactly how young *The Edge* will target.

Religion

Tuesdays, 0430, beginning April 13th: *The Khalsa—Birth of a Community* is a new four-part 30-minute series on this community of strongly committed Sikhs who undertake to be saints and soldiers for the 20 million-strong Sikh faith. April marks the 300th anniversary of the creation of the Khalsa.

Science

Sundays, 0030, beginning April 11th: *Soundbyte* returns in the *Science Extra* program slot for a series on computing and cyberspace developments, drilling into how people's lives are transformed by technology. The USA may be at the forefront for now, but much of the world is catching up.

Tuesdays, 0330, beginning April 27th: *Science on a Plate* is a six-part 15-minute series exploring the science of food. From breadmaking to brewing, I'm hungry already. Also airs Fridays 1515.

Program Exchange

Hey, Mon

It's still too cold for my tastes here in eastern Pennsylvania, and Spring can't arrive soon enough for me. Not to worry, though—I can warm up my blood each morning with BBC Caribbean Service programming, regularly audible at 1100 UTC on 6195 kHz. *Caribbean Report* (1105, 1210 UTC) is a straightforward 5 minute regional news program, and a quick way to get a take on the region.

*I know many of you
especially enjoy
music programming,
so please tell me about
your favorites.
They needn't be
English language,
considering that
music is its own language.*

Sport for Caribbean (1110 UTC only) is a look at sporting events of interest to Britain's former West Indies colonies, and has recently focused mostly on cricket and soccer. *Caribbean Magazine* (1115 UTC) is a 15-minute newsmagazine, mostly on Caribbean subjects but not exclusively. This program reminds me somewhat of the BBC's now-defunct *Network UK* program.

Radio Australia: The Week's End

Airing at 1205 and 1705 Saturdays, and 0430 and 1405 Sundays, *The Week's End* is a 25-minute weekly newsmagazine focusing on three or four of the top issues in Australia, but clearly prepared for an international audience. It's similar in form to Radio Canada International's *Spectrum* in that content is domestic, but the target is international. This program is somewhat unique, as it doesn't take an Asia/Pacific regional focus, as most Radio Australia programs do nowadays. Also, the program doesn't appear to be targeted to an Asia/Pacific audience; one story, on "zero tolerance" police practices, the New York City experience, and how these practices might apply in Australia, clearly had relevance for an American audience. Definitely worth a listen.

So...where's your contribution to Program Exchange? I know many of you especially enjoy music programming, so please tell me about your favorites. They needn't be English language, considering that music is its own language. Don't be sponges in the hobby; contribute!

Wrapup

The Internet edition of John Figliozzi's *Worldwide Shortwave Listening Guide*, at NASWA's website, <<http://www.anarc.org/naswa/>>, now includes live links to program content from the broadcasters when such information is available. An 'attaboy' to Ralph Brandi for this enhancement. Also, we are looking into moving our Internet E-mail discussion group on shortwave programming to a separate mailing list, to avoid the general clutter we found in its initial mailing list. Check my personal website, <<http://www.angelfire.com/pa2/ezlistening/>>, for its new home, which should be sorted out by the time you see this. I'll also report its new home in the *May Journal*.

Until then,

73 DE Richard



High Noon Midsummer DX Reception in Australia

A Special Monitoring Study covering
5950-9999 kHz, 0000-0400 UTC

by Bob Padula
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Background

For a great many years, going back to at least the late 1950's, the Australian summer has been marked by the appearance of shortwave radio signals originating from Asia and Africa during our midday period, on frequencies below 10 MHz. This annual phenomenon has been titled by some of us as the "Midday Summer Mode" and has been observed in both eastern and western parts of the nation, with many stations audible in the time span from noon until 2 pm local time, corresponding to 0200-0400 UTC in Victoria, New South Wales, and Tasmania, 0230-0430 UTC in South Australia, and 0400-0600 UTC in Western Australia. Such propagation is generally not mentioned or explained in learned publications, and over the years, many unproved theories have been advanced as to the possible cause of this weird daytime reception pattern.

This present article sets down the aggregated observations made during the three month period from November 1, 1998 to January 31, 1999, from locations in Victoria on frequencies between 5950 and 9999 kHz, 0000-0400 UTC. This corresponds to a time of increased sunspot activity during the ascending phase of Solar Cycle 23. To assist in this study, transmitters outside of Asia and Africa were also monitored and included.

Historical Perspective

The Midday Summer Mode was "discovered" in the late 1950's, but it was probably been there ever since radio was invented! It includes the unique and theoretically impossible short-path total daylight reception in Australia of transmitters in Asia (the "Asia Summer Mode") on frequencies down to 4 MHz at local noon at distances of up to 6,000 km, and as far away as 10,000 km in the 7 and 9 MHz bands. African stations operating in the 6, 7, and 9 MHz bands comprise the "Africa Summer Mode," with some remarkable reception being noted over the years of transmitters some 11,000 km distant and greater.

I will refer to the Midsummer Mode for the remainder of this discussion as the "Mode." Those of us with technical inclinations have advanced countless, but unvalidated hypotheses attempting to explain the mechanisms of this apparently extraordinary propagation, which appears inexplicable in terms of generally accepted fundamental radio transmission theory.

As a matter of interest, my very first SW reception, according to my log book, was at 1000 UTC on 9515 kHz on February 2, 1954, from the VOA at Dixon, at the very senior age of 13 years! That reception was on an "ordinary" dual wave-5 valve receiver from the Melbourne inner suburb of Auburn, with about 30 metres of long wire (or as it was known then, 100 feet). I bought that receiver

from money earned from delivering messages after school for the local chemist—the same pharmacist now runs a chemist store in the Melbourne Central Business District, and I will try and drop in and refresh our memories soon! I used the pharmacist's antiquated typewriter to prepare reception reports in between washing bottles and delivering prescriptions.

That radio didn't cover SW frequencies below 7 MHz, tuning only 7-22 MHz, which was standard at that time. The 6, 5, 4, and 3 MHz bands were unknown territory, but I was able at times to hear some strong 6 MHz signals double spotting into the 7 MHz band on 910 kHz above fundamental.

I used that radio until January 1959, when I upgraded to an ex-airforce AR8. The dual-wave set was retired and parts of it are still in my garage to this day. The AR8 allowed me to listen to frequencies below 7 MHz for the first time, and its increased sensitivity on frequencies above 7 MHz was astonishing when compared with the older set.

In the 1950's, there were no DX clubs active in Australia, and I knew of no other people around town who were interested in long-distance radio reception. In fact, my involvement with radio monitoring disappeared by 1961, due to competing interests such as my first car, going to stock-car racing, cycling, bushwalking, a job, playing tennis and football, swimming, and social events! I returned to radio monitoring in 1964 after a very sad personal tragedy, and put a lot of work into the establishment of the Australian Radio DX Club in 1965.

It was on the AR8 that I first noted unusual daytime propagation in mid-summer, such as on January 10, 1959, when I heard the shortwave domestic service from Johannesburg, South Africa, on 7275 (20 kW) at 0500 UTC. At that time, I didn't think that my reception was anything unusual, but I do recall that the day was fiercely hot, and that the South African signal was the ONLY station audible on the 7 MHz band at the time, which was 3 pm. The QSL is on my desk now!!! That reception was possibly the tail-end of the Mode which I had chanced upon by accident.

The first "officially" documented information on the Mode occurred some 13 years later, and is recorded in the February 1972 Australian DX News, the bulletin of the ARDXC, where I and others reported the initial Mode reception in late January, 1972, comprising many signals heard on 6, 7, and 9 MHz from Asia and Africa between 0200 and 0400 UTC, across our local midday period. The year of 1972 was about half-way down the descent of Solar Cycle 20.

The Mode has been apparent each summer since then, and the Asian component reappeared with a vengeance in January 1985, half way down the declining phase of Solar Cycle 21. The January 1985 event was probably the most spectacular event for midday Asian DX signals we have ever experienced. Signals heard included many stations in Indonesia, Papua New Guinea, India, Nepal, Singapore, Malaysia, Japan, China, and South Asia generally on 4-7 MHz across our mid-summer noon period.

At 1 pm local time around the December solstice, the closest regions with approaching or receding darkness are Hawaii (5 pm local) about 9,000 km to the north east; and Johannesburg (5 am local) about 11,000 km to our south west. Sunset in Melbourne around the December solstice is at 1100 UTC (9 pm local) and sunrise is at 1800 UTC (4 am local). At 0300 UTC, it is about 8 hours until sunset or nine hours after sunrise. We certainly don't expect SW signals to be heard on 4 MHz at midday, from Africa, Asia, or anywhere else!

The mode virtually disappeared after 1988, and emerged again in the summer of 1995/96, towards the close of Solar Cycle 22, with interesting signals audible each summer until 1998/99. In January 1997, a period of low solar activity towards the end of Cycle 22, Asian signals appeared on 4 and 6 MHz at our local noon, including Malaysia, Indonesia, Vanuatu, Vietnam, Laos, Cambodia, Thailand, and Singapore.

Over the succeeding years, several of us have tried to come to grips with this weird midday propagation, with little success, with coordinated spectrum studies being undertaken across all Australian states. Unfortunately, in

recent years and particularly for the summers of 1996/97, 1997/98, and 1998/99, high and increasing power line noise levels in most urban and suburban locations, and many rural areas also, have seriously impaired study of the Mode. Many of us have tried everything we know to try and reduce the impact of power-line hash, such as dipole antennas, underground power reticulation, antenna phasing units, screened feeders, coax feeders, ferrite couplers, and noise reduction antennas, with varying success.

I described in detail the Mode occurrences from 1956 to 1998, with charts, graphs, and diagrams, in the article "High Frequency Spectrum Study #4, issued in March 1998. Copies of this article are available from me for return postage. That article also contained full details of aggregated observations made during the summer of 1997/98 with several hundred entries and featured reception in both the eastern and western parts of the country.

General

The Mode appears to be intense during periods of falling and low solar activity, such as occurred in the summers of 1976/77, 1985/86, and 1995/96, corresponding to the troughs towards the end of Cycles 20, 21, and 22. The Mode is also observed during periods of higher sunspot activity, but with lesser impact. Interestingly, during years of low sunspot activity, the reception of the Asian and African Modes occurred down to 4 (Asia) and 6 MHz (African) whereas, in years of increased and high sunspot activity, reception was very fragmentary on those bands, but adequate on 7 and 9 MHz. In other words, the "frequency window" was compressed during periods of high sunspot activity, but broadened out in other years. This would suggest that high D-region absorption which occurs when ionization levels are highest at the peaks of each solar cycle is a critical factor for these modes. Data gleaned for the 1997/98 and 1998/99 summers supports those earlier conclusions.

Of particular note is that the Mode becomes apparent at noon local time in Australia, for both Asian and African propagation. This

observation has been revealed over many years of monitoring, with the first signals becoming apparent at:

—Victoria and New South Wales 0200 UTC

—South Australia 0230 UTC

—Western Australia 0400 UTC

Telephone hookups between some of us showed that at 0200 UTC, the Mode was only audible in the eastern states and appeared in the western region at local noon there (0400 UTC), at which time it had disappeared from the eastern states. This is a peculiar feature of this propagation, suggesting that the Mode's presence is the result of some event near to the receiving terminal and not at the transmitting terminal. There are variations in reception even in the same general reception area with signals often being noted in one Melbourne suburb and not in others at the same time!

The 1997/98 and 1998/99 data suggest that there may be various propagation mechanisms existing, as the African Mode didn't occur during 1996/97, whereas the Asian Mode was present, but small, during 1997/98. For 1998/99, the Asian mode didn't occur at all for 4, 6, 7, and 9 MHz.

When these Modes occur, signal strengths can be remarkably strong, with little difference noted on receivers with marginal sensitivity as compared with the big communications sets. There is no audio distortion such as normally occurs due to "selective fading," where temporary reductions in carrier level occur due to phase cancellations caused by multipath propagation. Reception quality is very similar to that which results from "exalted carrier reception," where a large, local carrier is inserted (using phase-locked loop techniques) of the same phase as the incoming carrier.

Fading is virtually absent, with signal quality similar to local stations. Signals appear very suddenly and disappear just as quickly. They appear "out of the blue:" one instant there is nothing, the next moment several stations may be noted. Signals may be audible for

only a few minutes or up to one hour or more. Signals from the same transmitter site, on the same band, are often not heard simultaneously. One important observation is that the African Mode tends not to be apparent on days when the Asian Mode is audible. Attempts to correlate the Mode appearances with geophysical events and climatic conditions have proven futile.

The 1998/99 study shows that many stations outside the target regions of Asia and Africa were also heard, with a concentration from the Iberian Peninsula, northern Europe, the Middle East, and North America. Very few signals were audible from South America. There were no signals noted at all on 4 MHz apart from the Australian stations in the Northern Territory, New South Wales, and Queensland, which appeared on a few occasions on 4835 kHz, 4910 kHz, 5000 kHz, and 5025 kHz. No stations from Asia were apparent on 5, 6, or 7 MHz. Asian stations heard on 9 MHz were generally confined to the super powered monsters in Thailand, Singapore, and the Philippines, including those operated by DW, IBB, and Merlin.

African Mode signals on 6 MHz were present for 1998/99, but were diminished in strength, duration, and number as compared with the previous year. The African Mode on 6 MHz appeared on only two days in the three-month study period, the best being on December 31, 1998. Monitoring was undertaken on about 90% of days.

The issue of reciprocity has also been discussed by some of us. Is there reception in Asia or Africa of DSB transmitters in southern or western Australia at 0200-0400 UTC on frequencies below 9 MHz during the December solstice? Little literature exists, and this may be an area for investigation. As far as I know, Australian ARO activity on 40 and 80 metres does not usually support this kind of propagation.

This latest survey reinforces the view that the Mode, for both Africa and Asia, is best only during the declining months of any given sunspot cycle, as was last noted during the summers of 1995/96 and 1996/97.

Propagation Theories

At 0200 UTC in January, it is noon here in Melbourne, mid summer. For the African Mode, the study indicated reception of stations in southern, western, and eastern Africa on 6 MHz from 0230 UTC until about 0330 UTC, with longer reception spans on 7 and 9 MHz. The main problem with this study is that there are only a very few stations actually on the air from Africa at this time on 5, 6, and 7 MHz, whether domestic or international broadcasters. I believe that the dominant transmission path from southern Africa is via the long-path, extending over the Atlantic, Canada, Hawaii, and arriving in Melbourne from the north east. The alternative short-path across the Indian Ocean, lies in total daylight and propagation across that circuit would appear to be impossible. If it is assumed that signals travel via the long-path, this means that transmission over one sector (about 9,000 km) would need to occur in daylight from a point near Hawaii into Melbourne. Conversely, and much less likely, is that the possible short-path route across the Indian Ocean is about 11,000 km in total daylight. Neither hypothesis is supportable by conventional propagation theory.

The theoretical maximum span of one "hop" via conventional F1/F2 layer refraction propagation is about 4,000 km. Therefore, the path from Hawaii into Melbourne would need two F-layer refractions, each of 4,500 km with an intermediate ground reflection about 4,500 km from Melbourne (near Tonga). That point is in total daylight and I cannot accept that a weak, 6 MHz signal originating in southern Africa would continue on through the summer D-layer for another 4,500 km after hitting the earth near Tonga.

As in previous years, signal strengths were good and stable for the African transmitters, with negligible fading. As has been postulated previously, this suggests that propagation is not via normal multi-hop F-layer refraction, but by some other mechanism or via what the Ionospheric Prediction Services calls "complex modes," with less ground "strikes," such as could occur via refraction off the top surface of Sporadic E clouds over the western Pacific. Sporadic E is usually

discussed in the context of propagation on frequencies above 25 MHz, such as occurs for VHF and low-band TV over several thousand km. It is refraction off the bottom surfaces of those moving clouds which enables such propagation. We are not talking about that form of Es propagation for the Mode, but rather of refraction off the tops of these clouds.

Another possible form of propagation is via the theoretical "Petersen Ray," where there are no, or reduced numbers, of intermediate reflections off the earth's surface, with signals traveling in a type of duct, with substantially reduced absorption, via very low take-off angles at the transmitting end. This form of propagation is mentioned in engineering publications where it is stated that much longer path lengths can be covered for the same signal/noise ratio. It would also explain why received signals are observed at "CD quality" with no fading. The key is the "no fading" pattern—this implies that signals are not being reflected off the earth's surface at all, or from any other medium, which would otherwise occur for normal multi-hop F-layer propagation.

If this latter type of propagation is the cause, it is unknown why the Mode only appears during the Australian summer and not at other times of the year. It is indeed a mystery and we will continue to observe it.

DX-pedition to the Grampians

Towards the end of the study period, on the weekend of January 30/31, 1999, Mick Ogrizek and I traveled to western Victoria, to the rugged Grampians Ranges National Park, some 300 km west of Melbourne. We went to a picnic reserve on the banks of the Wannon River, about 30 km from the township of Hall's Gap. This trip was to monitor daytime signals away from the disruptive effects of power-line interference. We set up our monitoring post on a picnic table near the river, and our antenna was a long-wire strung about 5 metres up in the trees, extending about 500 metres. Our receiver was the trusty Sangean ATS-808A, powered by AA cells. We did two daytime sessions there, covering the time span 0000-0400, returning to our motel

in Hall's Gap on the Saturday night. We did not take down the antenna overnight—in fact, we could have left it there for months on end as there are very few visitors to that reserve!

The outcome of our work is incorporated into the study summary. Regrettably, unlike our trip to the same place 12 months previously, there was no spectacular Asian Mode opening, and the African Mode was confined to 7 and 9 MHz. The Meyerton (South African) outlets dominated. If signals were propagating, we would have heard them, as simple as that! Interestingly, in only two sessions, the signals heard represented most of which had taken some three months of virtually daily monitoring from Melbourne and Ballan to accumulate! The absence of power-line noise was remarkable, as was the corresponding enhancement of our reception. Signals were audible on the 9 MHz band for the entire four-hour period, unlike what we had been accustomed to back home in and near Melbourne.

In between monitoring sessions, we had a good look around the region, taking in many of the spectacular lookouts and walking tracts in the ranges. We stayed a while at the Pine Plantation Reserve at the foot of Mt. Disappointment, which would also have made an excellent base for monitoring. Those mountains are rugged, similar to the Flinders Ranges in South Australia, but not as red as the Central Australian landscape. We traveled some 900 km over the weekend, and we will be returning to the Wannon River in June, to check out the midday mid-winter reception pattern.

Conclusions

Careful analysis of the Mode data in recent years reveals a gradual reduction in both the overall time span for which signals are audible, and the number of days on which they appear for comparable points in each solar cycle. This is especially the case for the 4 and 6 MHz bands. If we compare the results from the 1998/99 study with those for 1987/88, the number of signals actually observed is very much smaller for 1998/99, as is the time span over which those bands were "open."

I believe that this deterioration in reception is linked to increased ionization levels in the southern hemisphere, as compared with the situation as it existed 11 years previously. Higher ionization densities in the D, E, F1, and F2 layers will cause greater absorption of any signals passing through them. Why is this so?

I suggested that this is due to the effects of ozone depletion over the southern hemisphere, in turn causing much greater levels of ultra-violet radiation to penetrate the ionosphere. Reports in the scientific press tell us that the level of ozone depletion is increasing annually, as is the amount of UV radiation reaching the earth, normally blocked by the ozone barrier. There's not much that we can do about this, which is linked to global warming and such matters! Put simply, I feel that we will never again experience those extraordinary noon openings on 4 and 5 MHz when many domestic services from Asia were audible. We need to wait until the current solar cycle comes to an end, which won't be until at least 2007. By then, ozone depletion will be very, very bad, as will be the amount of UV reaching the earth, which may well mean that long-distance "radio" propagation on the lower frequency bands over substantially daylight paths, may not be possible.

Summation

Conclusions drawn from study of the mid-summer and midwinter daytime modes suggest that the enhanced propagation on lower SW frequencies over long-distance daylight paths of several thousand km is made possible by reduced D and E layer absorption. It is believed that this in turn is triggered primarily by one or more of the following processes:

- (a) Petersen Ray effects—signals with low take-off angles travel through "ducts" and do not strike the earth's surface.
- (b) Complex Mode propagation—refraction off the top surfaces of E and/or F1/F2 layers with reduced reflections off the earth's surface.
- (c) Reduced ionization due to geophysical events, essentially variations in solar activ-

ity, with optimum propagation during periods of low sunspot activity.

Daytime reception of commercial DSB transmissions on the lower SW frequencies is, in my view, the most exciting field of SW monitoring. The variability and unexpected nature of daytime SW provides big challenges, adding lots of enjoyment to a hobby which, here in Australia, is stagnating and lacking purpose and direction for many involved in it.

Spectrum studies will continue during the months and years ahead, with our next monitoring project being the midwinter survey during June and July of this year, between 0000 and 0400, on SW frequencies up to 9999 kHz. Unfortunately, support for the study was very disappointing, which is due to the extraordinary decline in interest in systematic long distance radio monitoring as a hobby in Australia. Over 50 people throughout the eastern Australian states were personally invited to participate in this latest study, but support was negligible. This latest study was compiled from observations made by myself (Surrey Hills, 20 km east of Melbourne, and Mick Ogrizek (Ballan, 80 km west of Melbourne) supported by our trip to the Grampians National Park.

Our colleague in Perth, Western Australia, Craig Tyson, advised that the Mode was virtually absent at his location for the entire three months. However, we managed a telephone conference between Melbourne and Perth on December 31, which was the main day on which the African Mode was present on 6 MHz at 0230-0300 UTC. We found that some signals were audible in Perth, but not in Melbourne. Craig noted some of the 6, 7, and 9 MHz Meyerton outlets, plus Radio Botswana (7255 kHz), up to 30 minutes later than in Melbourne. The Mode disappeared quickly for both Victoria and Western Australia and didn't return on 6 MHz at all for the rest of the study period up to the end of January.

The accompanying table gives the details of our reception over the full three months. Not every station was heard every day, however.

High Noon SW Reception in Australia 0000-0400 UTC 1998-Nov-01 to 1999-Jan-31

Freq	Country	Transmitter	Station	from	until	Language
4835	Australia	Alice Springs	NT SW Service	0000	0400	English and Aboriginal
4910	Australia	Tennant Creek	NT SW Service	0000	0400	English and Aboriginal
5000	Australia	Sydney	VNG Time Signal	0000	0400	English
5025	Australia	Katherine	NT SW Service	0000	0400	English and Aboriginal
6005	Ascension	English Bay	BBC	*0300	0400	English
6080	Sao Tome	Pinheira	Voice of America	*0300	0330	English
6135	Gabon	Moyabi	NHK	*0330	0400	Swahili
6190	South Africa	Meyerton	BBC	*0300	0400	English
7105	Ascension	English Bay	Voice of America	*0300	0400	English
7110	Singapore	Kranji	BBC	0000	0015	English
7135	Gabon	Moyabi	Radio France Int	*0250	0330	French
7145	Sao Tome	Pinheira	Voice of America	*0300	0330	Amharic (Mon-Fri)
7155	Morocco	Briech	Radio Liberty	0000	0100	Russian
7155	Greece	Kavalla	Radio Liberty	0000	0100	Russian (parallel Briech)
7160	Ascension	English Bay	BBC	*0300	0330	English
7245	Germany	Lampertheim	Radio Liberty	0000	0030	Russian
7255	Botswana	Gaberones	Radio Botswana	*0300	0400	English & Vernaculars
7255	Greece	Kavalla	Voice of America	*0000	0100*	Tibetan
7280	Madagascar	Talata	Radio Netherlands	0000	0025*	Dutch
7290	Sao Tome	Pinheira	Voice of America	*0300	0330	English
7310	Russia	Moscow	Voice of Russia	0200	0300	Russian
7315	USA	Noblesville, IN	WHRI	0000	0300	Spanish and English
7325	United Kingdom	Rampisham	BBC	*0245	0300	BBC English
7340	Botswana	Mopeng Hill	Voice of America	*0300	0330	English
7385	USA	Birmingham, AL	WEWN	0200	0300	English
7395	USA	Greenbush, MA	WHRA	0000	0200	English
7430	Greece	Kavalla	Voice of Greece	0000	0030	Greek & English
7510	USA	Salt Lake City, UT	KTBN	0000	0300	English
7535	USA	Nashville, TN	WWCR	0000	0100	English
7550	Armenia	Kamo	Radio Free Asia	0000	0100	Lao
9385	USA	Birmingham, AL	WEWN	0000	0100	English
9410	Cyprus	Limassol	BBC	0000	0100	English
9420	Greece	Athens	Voice of Greece	0000	0100	English & Greek
9430	USA	Cyprus Creek, SC	WSHB	0000	0200	Portuguese, English, Spanish
9440	Slovak Rep	Bratislava	Radio Slovakia Int	0200	0230*	French
9450	Norway	Sveio/Kitsvøy	Radio Denmark	*0130	0200*	Danish
9455	USA	Greenville	Voice of America	0000	0200*	English (Tue to Sat)
9455	Sweden	Horby	Radio Sweden	0200	0230	Swedish
9470	Russia	Moscow	Voice of Russia	0200	0300	Spanish
9505	Cuba	Havana	Radio Habana Cuba	0000	0030	Spanish
9505	Cuba	Havana	Radio Habana Cuba	0330	0400	Spanish
9515	USA	Delano	BBC	*0245	0400	BBC English, & English
9515	Gabon	Moyabi	NHK	*0230	0400	Farsi & Japanese
9520	Spain	Pals	Radio Liberty	0000	0200	Russian
9525	South Africa	Meyerton	Channel Africa	*0300	0400	English
9525	Indonesia	Cimanggis	Voice of America	*0030	0300	Indonesian & English

Freq	Country	Transmitter	Station	from	until	Language
9535	Canada	Sackville	Radio Canada Int	0000	0400	English, French, Spanish
9540	Spain	Noblejas	Spanish Foreign Radio	0000	0400	Spanish
9545	Philippines	Poro	Voice of America	*0000	0200*	Chinese
9545	Germany	Nauen	Deutsche Welle	*0157	0400	German
9545	Germany	Wertachtal	Deutsche Welle	0000	0200*	German
9552	Indonesia	Ujung Pandang	Radio Rep. Indonesia	0000	0230*	Indonesian
9560	Canada	Sackville	China Radio Int	*0300	0400	Chinese
9565	Rwanda	Kigali	Deutsche Welle	*0300	0400	Swahili
9570	Germany	Hokzkirchen	Radio Free Asia	*0100	0200*	Tibetan
9575	Morocco	Nador	Radio Medi Int	0000	0400	Arabic
9575	USA	Greenville	Voice of America	*0300	0400	English
9585	Greece	Kavalla	Voice of America	*0130	0200*	Dari etc
9585	Thailand	Udon	Radio Liberty	*0200	0300*	Tartir Bashkir
9590	USA	Delano	BBC	0000	0200*	English
9590	Madagascar	Talata	Radio Netherlands	0000	0025*	Indonesian
9600	Singapore	Kranji	BBC	*0030	0045*	BBC English
9600	Oman	Masirah	BBC	0000	0030*	Burmese (Sun to Thu)
9605	UAE	Abu Dhabi	Emirates Br. Corp	0000	0400	Arabic
9605	Vatican	Vatican	Vatican Radio	0000	0300	Portuguese, Spanish, French
9610	South Africa	Meyerton	BBC	*0245	0330*	BBC English & Swahili
9610	Taiwan	Taipei	Radio Taipei Int	0000	0100	Chinese
9620	Spain	Noblejas	Spanish Foreign Radio	0100	0400	Spanish
9625	Canada	Sackville	CBC	0000	0100	French & English, Northern Service
9625	Spain	Pals	Radio Liberty	0000	0100*	Kazakh
9630	Indonesia	Bonto Sunggi	Radio Rep. Indonesia	0000	0030	Indonesian
9640	Portugal	Sines	Deutsche Welle	*0100	0300*	Spanish
9640	Germany	Nauen	Deutsche Welle	0000	0050*	Spanish
9640	Antigua	St Johns	Deutsche Welle	*0300	0400	Spanish
9650	Vatican	Vatican	Vatican Radio	0100	0200	South Asian languages
9660	Australia	Brandon	Radio Australia	0000	0400	English
9660	Canada	Sackville	NHK	*0300	0400	Japanese
9665	Mali	Bamako	China Radio Int	*0100	0200*	Spanish
9675	Papua NG	Port Moresby	National Br. Corp	0000	0400	English
9690	Spain	Noblejas	China Radio Int	*0200	0357*	Chinese & English
9690	USA	Okeechobee	WYFR	0000	0030	Portuguese
9700	Canada	Sackville	Deutsche Welle	*0100	0150*	English
9700	Antigua	St Johns	Deutsche Welle	*0300	0350*	English
9700	Antigua	St Johns	Deutsche Welle	*0200	0250*	Spanish
9700	Germany	Wertachtal	Deutsche Welle	0000	0050*	Spanish
9705	India	Aligarh	All India Radio	0000	0045*	English
9710	Morocco	Briech	Voice of America	*0000	0100	S. Croatian
9715	USA	Okeechobee	WYFR	0000	0100	Spanish
9720	Sri Lanka	Colombo	Sri Lanka Br Corp	*0030	0300	English
9730	Germany	Nauen	Deutsche Welle	0000	0200	German
9738	Paraguay	Encarnacion	Radio Nacional	0030	0130	Spanish
9740	Greece	Kavalla	Voice of America	*0100	0300*	English
9745	Ecuador	Quito	HCJB	0300	0400	English

Freq	Country	Transmitter	Station	from	until	Language
9755	Canada	Sackville	Radio Canada Int	0000	0400	English & French
9765	Rwanda	Kigaki	Deutsche Welle	0000	0200*	German
9765	South Africa	Meyerton	Channel Africa	*0300	0400	Swahili
9775	USA	Greenville	Voice of America	0000	0200*	English
9780	Canada	Sackville	Radio Canada Int	*0200	0400	English & French
9785	Seychelles	Mahe	FEBA	*0200	0300	South Asian languages
9785	Ukraine	Minsk	Radio Ukraine Int	*0200	0300	Ukrainian
9790	France	Issoudin	Radio France Int	*0300	0400	French
9800	French Guyana	Montsinery	Radio France Int	0000	0300	French & Spanish
9805	France	Issoudin	Radio France Int	0000	0100*	French
9815	USA	Denton, TX	KAIJ	*0100	0130	English
9825	Ascension	English Bay	BBC	0000	0115*	Spanish
9825	Ascension	English Bay	BBC	*0115	0130*	Spanish (Tue to Sat)
9835	Hungary	Jazbereny	Radio Budapest	*0100	0400	Hungarian & English
9845	Neth Antilles	Bonaire	Radio Netherlands	0000	0125*	English
9845	France	Issoudin	Radio France Int	*0300	0400	French
9850	Egypt	Abis	Radio Cairo	0300	0400	Arabic
9860	Madagascar	Talata	Radio Netherlands	*0330	0400	Dutch
9870	Austria	Moosbrunn	Radio Austria Int	0100	0400	German, Esperanto, Spanish, English
9885	Botswana	Mopeng Hill	Voice of America	*0300	0400	English
9885	Switzerland	Softens	Swiss Radio Int	*0030	0400	German, English, Spanish, French, Italian
9890	Russia	Samara	Voice of Russia	0100	0300	Spanish
9895	Netherlands	Flevo	Radio Netherlands	0000	0125*	Spanish
9900	Egypt	Abis	Radio Cairo	0100	0300	Arabic
9905	French Guyana	Montsinery	Swiss Radio Int	*0030	0400	German, English, Spanish, French, Italian
9910	India	Aligarh	All India Radio	*0000	0045*	Tamil
9915	United Kingdom	Skelton	BBC	0030	0300*	English
9925	Germany	Julich	Croatian Radio	0000	0400	Croatian
9935	Norway	Sveio/Kitsvoy	Radio Denmark	*0030	0100*	Danish
9935	Norway	Sveio/Kitsvoy	Radio Denmark	*0130	0200*	Danish
9935	Norway	Sveio/Kitsvoy	Radio Norway Int	*0000	0030*	Norwegian
9935	Norway	Sveio/Kitsvoy	Radio Norway Int	*0100	0130*	Norwegian
9945	Norway	Sveio/Kitsvoy	Radio Norway Int	*0100	0130*	Norwegian
9975	USA	Los Angeles	KVOH	0000	0100	Spanish

Receivers and antennas used:

Surrey Hills (Melbourne): National DR49, 5 MHz dipole

Ballan (near Melbourne): Sony ICF 6800W, 20 m longwire

Grampians National Park (300 km west of Melbourne): Sangean ATS808A, 500 m longwire

Listener's Library

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I have to admit to a bit of a goof here. Joe Buch had sent this review to me quite some time ago and, as sometimes happens in the computer world, the file went into never never land in a disk crash. Thank God and Norton Utilities, I was able to get things back to normal but had forgotten the file location of Joe's work. Now here it is and, while I am sorry everyone had to wait, the wait was well worth it.

The Victorian Internet

By Tom Standage

227 Pages

\$22.00 (US) List

USA: Walker and Company, 435

Hudson Street, New York, NY 10014

Canada: Thomas Allen & Son Canada,
Limited, Markham, Ontario

ISBN 0-8027-1342-4

Review by Joe Buch

Do you know when the first broadcast occurred? Would you believe it was before 1890? Would you believe 9 PM June 10, 1871? What, you say! That was years before radio was even invented. Yes, but it was on this night that all the telegraph wires in the USA were connected together to simultaneously receive a thank you message broadcast by Samuel F. B. Morse. He thanked all the Western Union telegraph operators of the USA for contributing to a newly unveiled statue of him in Central Park. The telegraphers honored Morse for his contribution to the art of electrical information transmission that was destined to change the world.

The telegraph led to the accidental invention of the telephone and that in turn led to the development of today's radio broadcast technology. Much of the book is devoted to European developments that led to Samuel Morse's system. We learn that Morse's biggest contribution was the code that today still

bears his name and is still in use by hams all over the world.

Author Tom Standage brings to this tale the keen eye of a professional British historian and a narrative style that makes for a quick read. Standage puts the development of the telegraph in historical perspective and draws many parallels to the things people are today saying about the Internet. The telegraph was a great leap that changed the way we did business, the way we fought wars, and the way news was disseminated. In Victorian times the telegraph tied the world together as it had never been before. Short-wave radio and the Internet are simply the latest steps in an evolutionary process of global compression that really began over 200 years ago.

I found the book to also be very interesting from a personal perspective because I went to work for Samuel Morse's company, Western Union, in the mid 1970's when it became the first commercial domestic satellite operator. The company was adapting quickly from a carrier of telegrams to a modern telecommunications powerhouse. Their transcontinental microwave system was completed. Western Union was taking on the big guys by bidding on a new satellite system that NASA now uses daily to communicate with the Space Shuttle, the Space Telescope, and other low orbiting satellites.

Western Union won that 2.7 billion dollar contract but in the intervening years the telegram business dried up faster than profitable new revenue streams could come on line. In the late 1970's the Board of Directors elected a new Chairman and instructed him to go out and maximize shareholder value. The old Chairman was an engineer. The new guy was an accountant. One of his first actions was to abolish the research and development function. He then sold off West-

ern Union's interest in the NASA satellite system. Thus began the downhill slide. The new Chairman manipulated the stock price from 20 up to 50 before sending it crashing into the cellar a few years later. The company that Samuel Morse built is now bankrupt. You still see ads for Western Union but the brand name belongs to another company that specializes in wired money orders. But I digress.

This book describes in non-technical terms the events that led to the development of the telegraph and analyzes the social changes

**With each
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the world became smaller
and the pundits
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the new level of
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that this invention caused. The story follows the timeline of the telegraph from its semaphore beginnings through the invention of techniques to multiplexing several channels on a single pair of wires. The harmonic telegraph used frequency selective reeds to multiplex telegrams on different frequencies just as you receive multiple radio stations via a single antenna. Alexander Graham Bell was playing with harmonic telegraph experiments when he and Watson accidentally invented the telephone. And so it goes. The telephone begat radio broadcasting and now the Internet. With each evolutionary step the world became smaller and the pundits hailed the new level of world peace and cross-cultural understanding that would inevitably result. We heard the same predictions when communications satellites allowed us to view wars in real time from anywhere in the world

and when the Internet gave every person the ability to publish his ideas, even the revolutionary ideas. The more things change the more they remain the same.

The first telegraph systems were developed in Europe and used a series of towers with semaphore signaling arms. Messages were relayed from one tower to another by operators who would then resend each message received. The towers had to be line-of-sight to each other resulting in many towers being needed to cover useful distances. Labor costs were high because each tower had to be continuously staffed.

The abbot of the Carthusian monastery in Paris in 1746 was a scientist. On an April day he devised an important experiment to measure the speed electrical energy traveled. The experiment consisted of 200 monks holding the end of a 25 foot wire in each hand forming a daisy chain stretching about a mile. Without warning to the poor monks, the abbot connected the outside ends of the chain to a primitive battery giving a powerful electrical shock to all the monks. The simultaneous exclamations and contortions of the mile long string of monks showed that electricity traveled great distances and, as closely as they could tell, it traversed the mile instantly. In theory the experiment suggested that electricity could be the way to instantly transmit information.

The rest is history. You can read it for yourself in this entertaining and informative book. If you have Internet capability, you can order the book from Amazon.com for \$15.40 US plus shipping. You can also read other reviews of this book at: <http://www.amazon.com/exec/obidos/ASIN/0802713424/qid%3D913054513/002-3600637-2060452> It's a fun read and helps to put all of today's hype about the Internet into proper perspective.

Thanks Joe. Folks, remember you can always join Joe as a guest columnist here in Listener's Library. I promise I'll even try to keep track of your files long enough to get them published within your lifetime. 

The World's First Easy Listening Expedition

While many of us were enjoying ourselves in Kulpsville, the scientists and engineers of the NASWA Research Laboratory (NRL) were busy concluding a two year experiment in SWL behavior modification. I first reported, in the April 1998 issue of the NASWA Journal, on work the NRL conducted to turn around falling NASWA membership levels.

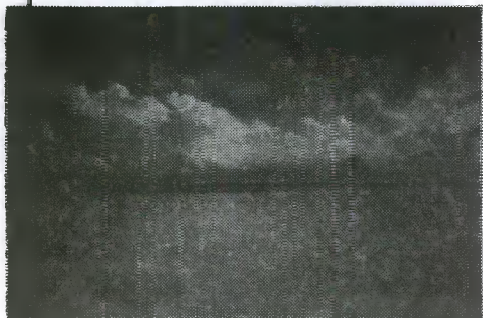
The premise behind the research is that the demise of the cold-war propaganda machines and the absence of any really big wars leaves program listeners with little of interest to listen to these days. Program listeners are, therefore, dropping out of the short-wave listening hobby in droves. To stem the tide, NRL developed a behavior modification program to convert program listeners into DXers. The use of hallucinogenic chemicals, as an aid to enable would-be DXers to better imagine they heard that elusive ID or interval signal, was covered last April.

As a final step in the behavior transformation process, the NASWA members participating in the experiment were introduced to the concept of the "DX Expedition".

DXers have been going on expeditions for years. They pack off into the mountains or out to the beach to find a quiet location where they can string up Beverage antennas, sleep in tents, eat junk food, drink beer, and tell a lot of lies about what great DX they just logged. Conditions are often rough, but real DXers are a rugged, hearty lot.

NRL researchers figured that such a rugged expedition would be too much for recent program-listener converts to endure. The amenities on the typical DXpedition are just too Spartan. And program listeners are not fortified with the same levels of protective testosterone that drives all true DXers to the limits of physical endurance. So the NRL scientists, in keeping with their long history of short-wave innovation, decided instead to invent the "Easy Listening Expedition".

The Easy Listening Expedition maximizes the amenities allowing truly easy listening in a relaxed environment. The intent is to get the DX convert accustomed to traveling long distances, staying up late at night, eating too much, drinking too much, and listening to the radio while doing all of the above. NASWA researchers picked an exotic tropical island as the ideal venue for the world's first Easy Listening Expedition.



A beautiful beach enhances the easy listening expedition experience for NASWA guinea pigs.

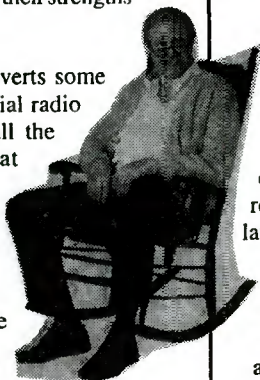
After rejecting Bonaire as having too few radio stations to hear on ground wave, NRL researchers selected Antigua as the ideal location for this historic trek. Here relays of the BBC and Deutsche Welle can easily be heard on ground wave from anyplace on the island. A short wire tossed into a nearby palm tree makes a fine antenna. A bent metal coat hanger jammed into the wet sand provides all the ground connection necessary.



NASWA members disagree about whether to listen to BBC or Radio Netherlands before they remember, they can listen to *both!*

NASWA engineers also designed a special radio specifically for this easy listening expedition. We know that good DXers have the ability to listen to two or three stations on the same frequency assuming their strengths are about equal.

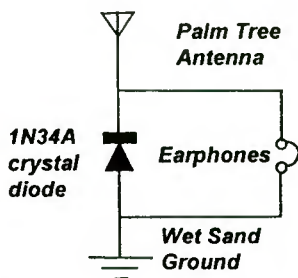
In order to give our converts some practice at this, the special radio was designed to hear all the Antigua transmitters at once. The receiver uses a minimum of parts and is ideally designed for traveling. The receiver extracts all the power it needs to operate from the received radio signal itself.



NASWA members relax while enjoying the BBC and Deutsche Welle simultaneously in several languages on their broadband crystal sets.

You have no need to worry about strange line voltages or sockets that do not match the North American standard. No need to worry about whether your radio will overheat on the 50 Hz AC power supplied by the local electric service. No worries about powerline noise or interruptions. The parts for this radio can be assembled in a few minutes and are easily smuggled past unsuspecting customs agents. No more bribes to pay to get your radio released from the impound.

A diagram of the circuit is shown below for the technically inclined who may wish to duplicate this experiment on their own easy listening expedition.



Broadband, easy-listening crystal set affords the ability to listen to all local radio services simultaneously.

The antenna gathers the radio signal energy. High impedance earphones work best because they force most of the RF current through the diode where it can be rectified. The diode detects the AM modulation inducing audio currents into the earphones.

The NASWA Research Laboratory has again proven its worth to the membership and the short-wave listening community at large. Congratulations on a job well done.

That's it for this month. Thanks to the folks at the Molson brewery, John Figliozzi and Richard Cuff for the inspiration that spawned this experiment. Until next time stay tuned.



Listener's Notebook

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ALBANIA Radio Tirana shortwave schedule effective 28 March 1999:

0145-0200	English	6115 7160
0230-0300	English	6115 7160
0300-2200	Albanian	6100 relay HS1
0600-1000	Albanian	7110
0800-1300	Albanian	9585
0800-1400	Albanian	7150 relay HS3
1400-1700	Albanian	5985 7270
1730-1800	German	7215 9570
1800-1830	Italian	6110 7240
1830-1845	Greek	6110 7185
1900-2015	Albanian	7105
1900-2200	Albanian	7295 9575
1915-1930	English	7180 9510
1930-2000	French	7180 9635
2000-2015	Turkish	6115 7155
2115-2130	Serbo-Croat	6135 7110
2130-2200	English	7160 9635
2300-0500	Albanian	6090 7270

(Radio Tirana/22-Mar/Rogers-British DX Club/Rev. of Int'l. Broadcasting/Hauser-OK)

Radio Tirana First Program
0400-2300 Albanian 6100

Radio Tirana Second Program
1000-1500 Albanian 7150
(BBCM)

ANGOLA 3375 R. Nacional de Angola, Mulenvos, 2000-2100, English, ID as "English Service of National Radio of Angola, Luanda" // 7245 (20-Mar/Vaghjee-MAU/DSWCI DX-Window/van den Boogert-TWN)

ANTARCTICA 15475.8, LRA36 Radio Nacional Ar-cangel San Gabriel, operating weekends on expanded sked, from 1800-2000. (Barrera-ARG/DSWCI DX-Window/van den Boogert-TWN) Address for reception reports: Base Esperanza, 9411 Antartida Argentina (WRTH address) e-mail address: esc38ant@satlink.com.ar (Schrützer/DSWCI DX-Window/van den Boogert-TWN)

AZERBAIJAN (NAGORNO-KARABAKH) Voice of Justice (from the Republic of Mountainous Karabakh). Organization: Financed by local businessmen

to calm down the conflict with Azerbaijan and to work towards a peace agreement. Languages: Azeri, Russian. Address: Voice of Justice, Tigran Meds-Str. 23 A, Stepanakert, Republic of Mountainous Karabakh, via Armenia. Schedule: 0600-0630 9677.5v. (6-Mar/Titarev-UKR/NU/Clandestine Radio Watch/Schoech-GER)

BANGLADESH 4880 R. Bangladesh 0020 Test tone ending at 0026 followed by many iterations of IS on flute and tanpura. At *0030, muffled announcement by deep-voiced M and into Qur'an. Fair strength, thanks to excellent subcontinental opening this evening. At tune-in, I thought I had AIR, Lucknow, as Dhaka's normal s/on time is scheduled for 0000 unless something has recently changed. (15-Mar/Hill-MA)

BELGIUM RVI "Radio World" on 7th March announced a slightly different schedule from that given by Paul Brems for Brussels Calling broadcasts in English effective 28th March:

0400-0430	15565-Bo
0700-0730	9925 15195
1130-1200	5985
1730-1800	5910 9925 11840-Md 13685-Ju
1930-2000	5960-Ju
2230-2300	15565-Bo

Relays: Bo—Bonaire Ju—Jülich Md—Madagascar (Kenny/British DX Club/DSWCI DX-Window/van den Boogert-TWN)

From 28 March 1999 **RTBF International** from the French speaking part of Belgium will broadcast as follows:

0300-0500	9490 Mo-Fr
0430-0500	9490 Sa/Su
0500-0712	17580 Mo-Fr
0500-0806	17580 Su
0500-1000	17580 Sa
1000-1117	21540 Sa
1000-1206	21540 Mo-Fr
1100-1117	21540 Su
1500-1712	17800 Mo-Fr
1500-1712	17800 Su
1600-1712	17800 Sa

All beamed to Central Africa via Jülich-GER 100 kW. (Brems)

BHUTAN 5030 *Bhutan BC Service*, 0958-1030, IS with typical "Gyaling" music (a very high-pitched wind instrument), a few words in Dzongkha and music. (12-Mar/Roth/DSWCI DX-Window/van den Boogert-TWN)

BRAZIL 4804.99 *Radiodifusora do Amazonas* Manaus, 0935-0940, Portuguese; ballads, 0939 ads, promos, ID and jingle. Fair signal with QRM above and below. (14-Mar/Mohrmann/DSWCI DX-Window/van den Boogert-TWN)

4885.01 *Radiodifusora Acreana*, Rio Branco, 0955, Portuguese; vocals, 0957 ads, promo/ID "Difusora Acreana...futebol..." Good signal. (14-Mar/Mohrmann/DSWCI DX-Window/van den Boogert-TWN)

5035.09 *Radio Educacao Rural*, Coari noted at 0929 w/live ID, cock crowing, cute homemade jingle, more cock crowing, into primitive accordion/drum music. Fair. (11-Mar/Quaglieri-NY)

6105 *Radio Cultura* 2130 Spanish religious pgm, conducted by W w/prayers and evangelical mx ending, canned ID in PP by M, interestingly adding the word "Filadelfia" to the stn name and ment. an addr different from that one listed in WRTH 99: "Cultura Filadelfia de Foz de Iguazu, Rua Antonio Barbosa 1353, Caixa Postal 89, 785851090, tele. 5232930, Radio Cultura Filadelfia," followed by this one: "Radio Cultura Filadelfia de Foz de Iguazu, ZYE 728, ondas curtas de cuarenta e nove metros, 6105 kHz...anunciando a palavra de Deus a todas as naoes, Cultura Filadelfia, a frecuencia da vida, a radio evangelica do Brasil," "Cultura Filadelfia, muito mais..." station jingle sung by W choir. (20-Mar/Ni-gro-URU)

CAMBODIA The following situation noted during visit late Nov 98-late Feb 99:

National Radio of Cambodia domestic sce 2230- 0800 and 1030-1500 on 740 and 918 (in parallel, possibly with different directional patterns), carries news in English at approx 0640-0655. Correct address is: General Department of the National radio of Cambodia, Street No 106 (Preah Mokahsal Triamei Kossamak), Phnom Penh, Kingdom of Cambodia, Tel(023) 226964.

National Voice of Cambodia (Ext'l Service) 0000- 0115 and 1200-1315 on very distorted 1360 and 11940v, 15 minute segments in English, French, Thai, Lao and Vietnamese. One or both transmitters often observed to go off air before end of transmission. 11940 is the only HF broadcast freq in the country still observed. (16-Mar/Davies/EDXP/Padula-AUS)

CHINA CRI has made many frequency changes in March (on March 7th?). Here are some of new frequencies between 0800-2300 (I think that all these

ones will be in use till May 1st):

- 7120 2200-2257 Spanish//6020 7360 9640
- 7235 1500-1557 Russian//4815 4883 9730 11650
- 7235 1600-1657 Russian//9730 9860 11700
11835 11945 15300
- 7235 1700-1757 Russian//6950 9730 9795 9860
11650 11835 11945 15300
- 7235 1800-1857 Russian//9365 9535 9730 9795
11685 11945
- 7235 1900-1927 Czech//11775
- 7235 1930-1957 Czech//7305
- 7235 2000-2027 Polish//6150 11775
- 7235 2030-2057 Polish//7405
- 7235 2100-2127 English
- 7265 1800-1827 Hungarian//9860 11775
- 7265 1830-1857 Bulgarian//9860 11775
- 7265 1900-1927 Albanian//9965
- 7265 1930-1957 no check
- 7265 2000-2027 Serbo-Croatian//9365 9860
- 7265 2030-2057 Italian//9965
- 9440 1530-1557 Pashto//11515
- 9535 2000-2057 English//6950 9440
- 9640 2200-2257 Spanish//6020 7120 7360
- 9710 1700-1757 English//7405 9570 11910
- 9710 1800-1857 German//6950
- 9710 1900-1957 German//6950
- 9710 2000-2057 Mandarin//7185 7660 9730
11650 11750 13650
- 9730 1500-1557 Russian//4815 4883 7235 11650
- 9730 1600-1657 Russian//7235 9860 11700
11835 11945 15300
- 9730 1700-1757 Russian//6950 7235 9795 9860
11650 11835 11945 15300
- 9730 1800-1857 Russian//7235 9365 9535 9795
11685 11945
- 9730 1900-1957 Cantonese//7255
- 9730 2000-2057 Mandarin//7185 7660 9710
11650 11750 13650
- 11650 1500-1557 Russian//4815 4883 7235 9730
- 11650 1700-1757 Russian//6950 7235 9730 9795
9860 11835 11945 15300
- 11650 2000-2057 Mandarin//7185 7660 9710
9730 11750 13650
- 11650 2200-2257 Portuguese//11700
- 11685 1800-1857 Russian//7235 9365 9535 9730
9795 11945
- 11685 1900-1957 Russian//9365 9795 11945
- 11700 0900-0957 Mandarin//9945 11685 11945
12015 15440
- 11700 1600-1657 Russian//7235 9730 9860 11835
11945 15300
- 11700 2200-2227 Portuguese//11650
- 11700 2230-2257 Esperanto//9860
- 11720 1730-1827 Mandarin//7335 7800 9820
13650
- 11720 1830-2227 French//7335 7800 9820 (also
7215 at 2030-2127)
- 11750 1400-1427 Turkish//9480
- 11750 1600-1657 Arabic//7405 17580
- 11750 1900-1957 English//9440 13650

11750 2000-2057 Mandarin//7185 7660 9710
9730 11650 13650
11750 2100-2157 Arabic//7260 9440
11775 1800-1827 Hungarian//7265 9860
11775 1830-1857 Bulgarian//7265 9860
11775 1900-1927 Czech//7235
11775 1930-1957 Romanian//9860
11775 2000-2027 Polish//6150 7235
11775 2030-2057 Hungarian//9365
11810 1500-1527 Bengali//11825
11810 1530-1557 Bengali//11825
11835 1600-1657 Russian//7235 9730 9860 11700
11945 15300
11835 1700-1757 Russian//6950 7235 9795 9860
11650 11945 15300
11910 1700-1757 English//7405 9570 9710
11945 1600-1657 Russian//7235 9730 9860 11700
11835 15300
11945 1700-1757 Russian//6950 7235 9795 9860
11650 11835 15300
11945 1800-1857 Russian//7235 9365 9535 9730
9795 11945
11945 1900-1957 Russian//9365 9795 11685
11945 2000-2057 Russian//7255 9795
13650 1730-1827 Mandarin//7335 7800 9820
11720
13650 1900-1957 English//9440 11750
13650 2000-2057 Mandarin//7185 7660 9710
9730 11650 11750
15110 1400-1457 English//7405 11825
15270 1600-1627 Turkish//11685
15300 1500-1557 Mandarin//9457
15300 1600-1657 Russian//7235 9730 9860 11700
11835 11945
15300 1700-1757 Cantonese//9900
(16-Mar/Timofeyev-RUS)

Radio Taipei International

0100-0200 Chinese 17845 15215 11845
0100-0200 Japanese 15270 11745
0100-0200 Spanish 15215 11825
0200-0300 English 15345 11825 11745
11740W 9680W 5950W
0300-0400 English 15345 11825 11745
9680W 5950W
0400-0500 Chinese 15345 15270 11825
9680W 7130 5950W
0400-0500 Spanish 11740W
0600-0700 German 9985W
0600-0700 Spanish 5950W
0600-0700 Thai 15345 15270
0700-0800 Chinese 7130
0700-0800 English 5950W
0700-0800 French 7520W
0800-0900 Indonesian 11915 11550 7130
0900-1000 Chinese 11915 11745 11550 9610
7445
1100-1200 Indonesian 11550
1100-1200 Japanese 15345 7130
1200-1300 Chinese 15270 11745
1200-1300 English 9610
1200-1300 Indonesian 15345
1300-1500 English 15125
1305-1400 Russian 15695 9610
1400-1500 Japanese 11745 7130
1400-1500 Thai 15270 11860
1500-1600 Vietnamese 15345 11745
1705-1800 Russian 9955
1800-1900 French 17555
1800-1900 German 9955
1900-2000 Chinese 17750 15600 9955
2000-2100 Arabic 11775 9630
2000-2100 French 9985W 9955
2000-2100 Spanish 11665
2100-2200 German 9985W 5810W
2200-2300 English 9985W 5810W
2200-2300 Thai 7445 585
2300-0000 Spanish 11720W 9690W
2300-0000 Vietnamese 15345 11745

W-via WYFR (BBCM)

CLANDESTINE—AFRICA 7000 *Radio Voice of Freedom and Renewal* 0428 Presumed this one (as per recent BBCM item) with harangue in Arabic occasionally punctuated by crowd noises. Moderate strength, but hampered by QRN and erratic audio that faded up and down, mostly down. Still orating when I left them at 0440. (27-Feb/Hill-MA) 7000 *Voice of Freedom and Renewal*, March 3, 15.45-17.25. Open program with continuous songs until 1600 then fanfare music and ID by W and then by M in Arabic, followed by announcement and then news heard until 1725 and when I returned back at 1737 it had already went off therefore I presumed it went off around 1730 (Vaghjee) Additional note by Mahendra: I have observed this station on March 6 & 7 to know exactly at what time they went on and off: On at 1545, off at 1745. (Vaghjee-MAU/DSWCI DX-Window/van den Boogert-TWN)

15285 *CPBS-1* 0204 New/unlisted channel observed with presumed network news by M and W in Chinese // 15500; poor. (14-Mar/Hill-MA)

Shanghai People's Broadcasting Station Identification in Standard Chinese: "Pu-Jiang Zhi Sheng Guang-Bo Dian-Tai" ("Voice of Pujiang Broadcasting Station");

0955-1400 Chinese 5075 4950 3280
(BBCM)

CHINA—TAIWAN *Voice of Free China* was relaunched as *Radio Taipei International* on 1st January 1998. It is now part of the Central Broadcasting System (CBS) which, since January 1998, has been responsible for all Taiwan external broadcasts:

- 1) *Radio Taipei International*—see schedule below.
- 2) *CBS/Taipei International Voice*—services to mainland China
- 3) *Voice of Asia*—services to China and southeast Asia Broadcasts in Chinese from Radio Taipei International identify as "Taipei Guozhi Zhesheng" (Taipei International Voice).

CLANDESTINE—LATIN AMERICA 6168.3 *Voz De La Resistencia* 1146-1201 March 6. New frequency, ex 6239. Political comments and music. Comunicado de Comando Central del Magdalena. (6-Mar/Rodriguez-COL/The Four Winds/ La Voz de la Resistencia del Bloque Oriental, FARC-EP clandestine, heard March 11 until closing just after 1200 on 6170 [probably rounded from 6168.3 where Rafael Rodriguez has measured it and where we hear traces of it]. Gave sked as 1130 and 2130 on this frequency, 1700-1800 on "VHF 7735." (Hauser/HCDX/Clandestine Radio Watch/Schoech-GER)

CLANDESTINE—MIDDLE EAST *Voice of Rebelious Iraq* (Arabic: Sawt al-Iraq al-tha'ir) supports an Iranian-sponsored Shi'i group, the Supreme Council of the Islamic Revolution in Iraq (SCIRI), and is hostile to the current Iraqi government. SCIRI also produces programs for V. of the Islamic Revolution in Iraq. Voice of Rebellious Iraq is believed to transmit from Iran.

1300-1530 Arabic 6300-6600v (announced)
(BBCM)

COLOMBIA 32005 *RCN* Brisas del San Juan, 2035-2051, thanks Crawford tip, the NBFM feeder w/SS techno and dance mx, M annrc. Strong, with a few AGC drop-outs. Frequency is approximate. This day, the Pro-60 scanner locked at 32005, though audible poorly on 32000 and 32010, the former day it locked on 32000/32005. (7-Mar/Krueger-FL/DSWCI DX-Window/van den Boogert-TWN)

CONGO—DEMOCRATIC REPUBLIC 5066 *Radio Congo*, heard on March 4 around 1630 and on March 6 at 1550 with continuous African songs, ID at 1615 by M in French as Radio Congo, then continued with talk on the heroic army and its General followed by songs and talk. At 1630 ID as "Radio de la libert" and at 1650 program in African language with songs and talk, probably on the heroic army. Poor and with heavy interference. Nothing on 6713 USB on March 6. (Vaghjee-MAU/DSWCI DX-Window/van den Boogert-TWN)

6713 USB, presumed R. Bukavu, very poor reception at 1620 on Feb 25 with African songs, then at 1630 long talk by M in French, probably news, followed by African songs at 1640. At 1655, talk in African language, followed by talk and songs; at 1730 a program in Swahili with talk and English songs; 1800 by talk and songs; at 1730 a program in Swahili, with talk and English songs; 1800 talk, and after that music and National Anthem and went off at 1804. Jammed every half hour. (Vaghjee-MAU/DSWCI DX-Window/van den Boogert-TWN)

CROATIA 13820 *Hrvatski Radio*, Deanovec, new frequency 0900-0915 in Croatian except 0903-0906 for news in English, ID—replacing 13830 and 13850? (5-Mar/Petersen-SRI/DSWCI DX-Window/van

den Boogert-TWN)

ECUADOR HCJB Japanese service changes from March 28:
1130-1200 11670 (ex-9660)
2200-2300 11680 (ex-11920)
2030-2100 21470 (ex-15550)

The others will remain unchanged. (Kazuo-HCJB/Mitsuaki/DSWCI DX-Window/van den Boogert-TWN)

EGYPT Radio Cairo, A99, several NF's planned:
9780 1500-1530
15520 1830-2200
17710 1500-1600
17800 1100-1130

(21-Mar/Dobrowski/EDXP/Padula-AUS)

GERMANY "Good News World" broadcasts in English via Jülich:

0700 13740 Su
1000 5910 Sa
1300 15190 Sa
1700 11725 Sa
1600 11840 Sa
2300 9405 Su
0100 6155 Su

Address for reports: Good News World, PO Box 895, Fort Worth, TX 76101, USA, or email hope@goodnewsworld.org (Francis/EDXP/Padula-AUS)

HONDURAS 4930.64 *Radio Costena*—Ebenezer 12- 20, San Pedro Sula; *1202-1220 poor on 05/MAR/99. S/on with Christian mx, then long opening anmt by OM. (TIN-JPN/Relampago DX)

INDIA 3390 *AIR Gangtok*, 0230-0255, Vn, Hindi film songs, a few announcements and ads, language sure wasn't Hindi, could have been Nepali. (13-Mar/Roth/DSWCI DX-Window/van den Boogert-TWN)

3945 *AIR Gorakhpur*, 1545-1547*, Hindi talk, 1530 English news, advertisements and AIR ID. (8-Mar/Petersen-SRI/DSWCI DX-Window/van den Boogert-TWN)

4810 *AIR* testing new frequency from unknown transmitter site (Maybe Alok can get more details?), March 5, 1415-1425* 1440-1455* 1530-1750, Relaying Delhi B on 666 kHz MW (heard here in Colombo) with English talks and 1530 news followed by Spotlight, 1600 National Sports Magazine, 1630 Vernacular program, QRM Armenia co-channel (Petersen-SRI/DSWCI DX-Window/van den Boogert-TWN)

4820 *AIR Calcutta*, 1630-1710, back here from 4810 (Acc. to Alok DasGupta this was our UNID last week). Speech about politics in English, translated into Bengali. Was OFF Mar 9, 0025-0145 on both 4820 and 4810, so still unstable. (8-Mar/Petersen-SRI)

4950 **AIR Srinagar** (Kashmir) 0112 Test tone ending at 0118, then IS till short announcement at *0120 followed by "Vande Mataram" chorus. At 0122, into what I'd call Tibetan- or Nepali-style instrumental featuring what sounded like a woodwind instrument. Co-channel presumed Angola, which had been underneath at tune-in, soon began to mix and finally dominate by 0125, although AIR could still be heard with W in subcontinental language. This is probably the first time I've logged Srinagar in at least 30 years, when it was on 3277. (14-Mar/Hill-MA)

9810 **AIR External Service** 0129 New freq with IS, then s/on in language by M and later W. Both Nepali and Tibetan are scheduled for*0130, but Tibetan is tonal and this tongue was nontonal, so it was most likely Nepali. Very poor; no //s could be found. (18-Mar/Hill-MA)

INDONESIA 3155.2v **RPDT2 Halmahera Tengah**, lagu wajib (National song) medley including music entitled "Garuda Pancasila" was heard at 1124. ID by M at 1135 as "Saudara pendengar...Daerah Kabupaten...Halmahera Tengah" and followed to M talk like information about Halmahera Tengah. (20-Mar/Yamada-JPN/Jembatan DX)

3214.8 **RRI Manado**, local pops at 1355. IS at 1359 then ID and followed to local news entitled "Ikhtisar Berita." Fair. (20-Mar/Yamada-JPN/Jembatan DX)

3231.8 **RRI Bukittinggi**, 1650-1705* Bahasa Indonesia radioplay, pop music, ID and Song of the Coconut Islands (2-Mar/Petersen-SRI/DSWCI DX-Window/van den Boogert-TWN)

3264.95 **RRI Bengkulu**, Now signs off at 1515 with Love Ambon tune. (19-Mar/Yamada-JPN/Jembatan DX)

3344.8 **RRI Ternate**, 2120-2135, Bahasa Indonesia live program with native music and women chatting and laughing, 2130 chimes, time signal, drums and talk. (4-Mar/DSWCI DX-Window/van den Boogert-TWN)

3385 **RRI Kupang**, 2130-2210, Bahasa Indonesia conversation, news. (4-Mar/Petersen-SRI/DSWCI DX-Window/van den Boogert-TWN)

3395.1 **RRI Bandar Lampung**. All night wayang kulit at 1745. Still heard past 2000. Fair to poor. (13-Mar/Yamada-JPN/Jembatan DX)

3541.8 **RPDT2 Sumba Timur**, Waingapu, 1050-1118, Fair signal, but QRMed by amateur stations operating around the channel. Playing mellow Indonesian lagu-lagu until 1101, then followed station ID as "Inilah Radio Pemerintah Daerah Tingkat Dua Sumba Timur dengan...gelombang-gelombang...dua meter dan siaran FM...kami." (6-Mar/TIN-JPN/DSWCI DX-Window/van den Boogert-TWN)

3960.2 **RRI Palu**, "Berita Keluarga" at 1409, and lagu hiburan at 1413. Poor. (20-Mar/Yamada- JPN/Jembatan DX)

4003.2 **RRI Padang**, 2325-2331, bits of Indo talk by W, not sure if still Jakarta relay at this time or local pgme. Solid carrier until fade-down began soon after 2330 but low audio, mostly under RTTY (on USB) and ham chatter (on LSB). (6-Mar/Clark-ONT/EDXP/Padula-AUS)

4696.5 **Radio Khusus Informasi Pertanian**, Surabaya, 2140-2150 Bahasa Indonesia talk and instrumental music. (4-Mar/Petersen-SRI/DSWCI DX-Window/van den Boogert-TWN)

4777.1 **RRI Jakarta**, Kebayoran. Reactivated. Piano music and M talks at 1535. ID was heard at 1540 as "Programa Nasional Satu, Radio Republik Indonesia, Jakarta." //11760kHz. Poor. (15-Mar/Yamada-JPN/Jembatan DX)

4790.1 **RRI Fak Fak**. Indonesian pops and sometimes advertisement at 1046. ID by M at 1109 As "Radio Republik Indonesia Fak Fak, Programa..." then Indonesian pops again. Fair. (13-Mar/Yamada-JPN/Jembatan DX)

6153.47 **RRI Biak**, 0945-1010, Pacific vocals. At 1000 ID by M announcer as "Inilah Radio Republik Indonesia Biak..." followed by warta berita local. (6-Mar/TIN-JPN/DSWCI DX-Window/van den Boogert-TWN) Christian religious program at 2008. Local pops at 2020. ID by W at 2030 and stretching exercise. Stretching exercise program can be heard in RRI stations located in Irian Jaya like Sorong, Merauke, and Serui. Now RRI Biak's evening program signs off at 1100. (13-Mar/Yamada-JPN/Jembatan DX)

9705.0 **RRI Pontianak**. Jakarta news relay at 0705. Talk by M at 0710. Local pops at 0715. Still heard 0730. Sign off time changed? Poor due to heavy QRM. (20-Mar/Yamada-JPN/Jembatan DX) Japan)

9741.6 **RRI Sorong**, restaurant and computer ads at 0732, local pops singing by children at 0736. Closing announcement by W at 0755 and off. Fair signal (20-Mar/Yamada-JPN/Jembatan DX)

4856 **RRI Palembang**. Now inactive. (Mar 1999, Juichi Yamada, JAPAN)

4777.1 **RRI Jakarta**, Kebayoran. Became inactive again. (20-Mar/Yamada-JPN/Jembatan DX)

IRAN Islamic Republic of Iran Broadcasting (IRIB), all programs in Persian:

0000-1000	15175v 15084
1000-1200	17780 15175v 15084
1300-1900	15175v 15084
1900-0000	15175v 15084 7130

(BBCM)

IRAQ *Mother of Battles Radio*, Radio of All Arabs (Arabic: idha'at umm al-ma'arik, idha'atu kul al-arab) is a service of official Iraqi radio.

1700-2000 Arabic 9715

(BBCM)

JORDAN *Radio Jordan*, A99, plans to use these NFs in the xtended bands:

17530 0300-0900
17555 1000-1300
13630 1200-1500
13640 1700-2200

(EDXP/Padula-AUS)

KOREA—NORTH *Korean Central Broadcasting Station (KCBS)*

0000-1800 Korean 11680 9665 6100 3970 3960
3940 3350 3220 2850 2350
2000-0000 Korean 11680 9665 6100 3970 3960
3940 3350 3220 2850 2350

(BBCM)

KUWAIT *Radio Kuwait*, A99, plans to use the 15 metre band for the first time:

18910 1745-2300
21460 1300-1800
21585 0900-1600
21675 0930-1630

(EDXP/Padula-AUS)

LAOS 4682.7 *Radio Nationale Lao*, Houa Phan, 2300-2310, Laotian announcement, nice folksongs. (12-Mar/Petersen-SRI/DSWCI DX-Window/van den Boogert-TWN) 4683 *Houa Phan* 2300-?0100, 1000-1230. Relays Vientiane news at 0000 and 1200-1229

6130 *Lao National Radio* *2310-0729, 0925-1455 parallel 576 kHz (signing off earlier in the evening than previously)

6973v *Luang Prabang* not heard recently, this txer now apparently inactive for several weeks. (15-Mar/Davies/EDXP/Padula-AUS)

MADAGASCAR *Deutsche Welle* via Talata A99 listed as:

0900-0945 English 15210

(EDXP/Padula-AUS)

MALAYSIA 9750 *Voice of Islam*, Kuala Lumpur, *0455-0510, English ID and program review announced in parallel to 6175 (faded out here) and 15295, Call to prayer. (5-Mar/Petersen-SRI/DSWCI DX-Window/van den Boogert-TWN)

The following domestic freqs via Kajang noted Mar-12/15: (RM-R *Malaysta*)

4845 *RM* Channel 6 Tamil 24h; rather low audio level

5965 *RM* Channel 1 Malay 24h; audio rather poor, but somewhat improved after several months of being nearly unintelligible, generally slightly off freq (below channel), harmonic often noted on 11930

6025 *RM* Channel 8/7 0400-1300 in Malay, *Suara Islam* 1400-1600 in Malay, good audio, strong harmonic often noted on 12050

6175 *Suara Islam* 1400-1600, good audio

7295 *RM* Channel 4 English 24h; good, but faint audio from Ext Sce and *Suara Islam* on 6175/9750 often heard in background

9750 *Suara Islam* 1400-1600 good audio

RM Sarawak, Kuching 4895 (2200-2330*? 1000-1500), *Sibu* 6050 (2200-2345*? 0900-1500, local prgr around 0900-1200) and *Kuching* 7270 (2200-0015*? 1000-1500) regularly noted in parallel, reception best here just before 1500 sign-off. Also *Kuching* 7130 with distinctive *RM Sarawak* IS before 0100 sign-on. All other former Sarawak HF channels now inactive.

RM Kotakinabalu regularly heard *1030-1330 on approx 5979, I believe 4970 has been inactive for at least a year or more (15-Mar/Davies/EDXP/Padula-AUS)

MALI *China Radio International* relays via Mali for A99:

0830-0930	Hausa	7170
1400-1457	English	15125 15110
1500-1557	English	15125 13685
1600-1657	Arabic	15125 13685
1700-1727	Swahili	15125 11970
1730-1827	Hausa	11970 9890
1830-1927	Arabic	15530 13685
1930-1957	Portuguese	15500 11975
2000-2127	English	15500 11975
2130-2227	French	15500 11975
2230-2257	Chinese	15500 11975
2300-2357	Chinese	11975 7170

(Nagoya DXers Circle/EDXP/Padula-AUS)

MOZAMBIQUE 4880 *Radio Mozambique* Maputo?, March 2, 0655-0710, Portuguese. African Xylophone tuning signal until 0700. M with station announcements, "...Emissao Provincial Delgado... (Couldn't catch) time signal, Newscast. Maputo, town of Vilankulo and a lot of others cut off from outside world because of flooding. (Clemitsen/DSWCI DX-Window/van den Boogert-TWN) Yes indeed, it is *R.Mozambique* [Interprovincial de Maputo e Gaza]. It could also be heard on 1008 kHz when signing on at 0253, same time as 3210 and could be heard until 0400 (from here). After that the signal became too weak. Then signing on again probably at 1530 (1535) and went off around 2207. Some days ago it was on 4879 and now it has moved slightly: 4880. Actually the reception is quite good. Have a try again (10-Mar/Vaghjee-MAU/DSWCI DX-Window/van den Boogert-TWN)

6110.7 **R. Mocambique** 2152 Possibly Maputo reactivated here after a long absence, although only a carrier audible till 2213*, which fits with typical RM s/off times. What say, Mahendra Vaghjee or another African DXer? (14-Mar/Hill-MA) Heard 6111 from 1958-2015 and confirmed as R. Mozambique, Maputo. Parallel to 738 & 3210. (21-Mar/Vaghjee-MAU/DSWCI DX-Window/van den Boogert-TWN)

15293 **R. Mocambique** 1235 Slick, fast-paced program of pop vocals and announcements in Portuguese by M and W, including a clear "RM!" [AIR-ee AIM-ee] ID. Weak with sharp, deep fades; gone by 1350 recheck and not there next day. (5-Mar/Hill-MA)

MYANMAR Latest observations:

4725 **Radio Myanmar** minorities see 0930-1330. Not recently noted continuing to 1430—in the past, this segment has appeared to contain adult education prgrs with lots of English technical phrases on subjects like statistics.

5973 **Myawaddy Radio Sta.** irregular, generally around 1100-1300 and 1430-1530. Noted 14 March at 1430-1530

5986v **Radio Myanmar** 0930-1600

7185 **Radio Myanmar** 0030-0230

9731v **Radio Myanmar** 0330-0830 (Sat/Sun 0245v-0830). The txion in Burmese occasionally reported on 9730 around 1400 is from the BBC WS via Singapore 1345-1430, not R. Myanmar

Radio Myanmar is noted in English at 0200-0230, 0730-0830, 1500-1600. (15-Mar/Davies/EDXP/Padula-AUS)

5985 **Radio Myanmar**, 1430, straight into English program after vernacular with no great fanfare. Program started with a description of Myanmar followed by a musical interlude then another offering about the importance of rice with reference to "...the evil legacy of the past colonial era and English-speaking classes" TWICE! I think I'll send my report in Spanish! (18-Mar/Ormandy/DSWCI DX-Window/van den Boogert-TWN)

9730.8 **Radio Myanmar**, 0725-0830* English program of British songs, IDs, international news and comments. (5-Mar/Petersen-SRI/DSWCI DX-Window/van den Boogert-TWN)

NETHERLANDS ANTILLES *Deutsche Welle* Bo-naire relay for A99:

0500-0550 English 11795

0300-0350 English 15105

(EDXP/Padula-AUS)

NEW ZEALAND *Radio New Zealand International* schedule thru May-01:

0706-1015 9700 Daily

1650-1750	6145 Mo-Fr
1750-1951	11675 Mo-Fr
1755-1958	11675 Sa/Su
1952-0705	17675 Mo-Sa
1959-0705	17675 Su
1206-1500	6105 Occ. for Sport and Cyclone
1500-1650	6145 Occ. for Sport and cyclone

(15-Mar/Kubiak/EDXP/Padula-AUS)

NORTHERN MARIANA ISLANDS *VOA A99*: plans to broadcast over *KHBI*, Saipan:

0900-1000	Russian	11660
0900-1100	English	15665
1000-1100	English	11660
1100-1400	English	9355
1800-1900	English	13820

(EDXP/Padula-AUS)

OMAN *Radio Oman*, Muscat, A99 plans these NFs:

13640	0500-1400
17590	0500-0800
17630	0800-1400
21655	0800-1400

(EDXP/Padula-AUS)

PERU 5385.86 **Radio Huarmaca**, Cajamarca, 0428-0439, Andean vocals, canned sign-off announcement, anthems, carrier off 0440. Fair to poor signal. (11-Mar/Mohrmann/DSWCI DX-Window/van den Boogert-TWN)

5677.98 **Radio Ilucan**, Cutervo, 1112, with poor signal. Heard huayno cajamarquino. (14-Mar/TIN-JPN/DSWCI DX-Window/van den Boogert-TWN)

5773.73 **Radio Manantial** (p); was heard at 1135-1200 on 05/MAR/99. weak signal. M talk in SS and OA folklore. The station was also observed at 1120-1145 on 06/MAR/99. No definitive ID could be heard. (5-Mar/TIN-JPN/Relampago DX)

6173.85 **Radio Tawantinsuyo**, Cusco, 1015, Spanish; announcer with ID in passing, Andean music. (14-Mar/Mohrmann/DSWCI DX-Window/van den Boogert-TWN)

6188.07 **Radio Oriente**, Yurimaguas, 1042-1045, poor, cumbia peruana. (13-Mar/TIN-JPN/DSWCI DX-Window/van den Boogert-TWN)

6479.70 **Radio Altura**, Huarmaca, 0123, Andean vocal, announcer with ID in passing. (11-Mar/Mohrmann/DSWCI DX-Window/van den Boogert-TWN)

PHILIPPINES *PBS Radio Filipino* A99:

0230-0330	English/Tagalog	11885T	15120T	15270T
0330-0400	English/Tagalog	13770P	15330P	17730T
1730-1930	English	11720T	11890T	15190T

T-Tinang, P-Poro (EDXP/Padula-AUS)

QATAR *QBS*, Doha, A99 plans to use new 21620 1700-2130. (EDXP/Padula-AUS)

RUSSIA I have received an e-mail answer from *Radio Mayak's* technical dept earlier this week. According to the report, *Radio Mayak* (their full name is All-Russian State Radio Company Radio Mayak) will compel to refuse in 1999 from all shortwave transmitters because of limited finance. There are only two shortwave locations (St. Petersburg and Samara) in use till March 27 only. I do not have yet any exact information about possible Mayak relays, for example, via Belarus in the 120, 90 or 60 m.b. or via Ashgabat, Turkmenistan in the 60 m.b. past March 27. These data can be obtained by means of our own monitoring only... (Timofeyev-RUS)

15105 *Radio Tatarstan*, Samara, March 6, *0500- 0510, interval signal and ID in Tatar language, talk with light music in background (Petersen-SRI)

Radio Maryja on 7400 is not from Poland itself but from the Samara site in Russia; from March 28 their evening transmission will supposedly run 1500-2000 on 12010 and 2000-2200 on 7400, while during the winter season they are simply 1600-2300 on 7400. (Ludwig-GER/DSWCI DX-Window/van den Boogert-TWN)

GPR-2 short wave schedule, thru September 4:

0000-0100	9480P	VOR	Spanish
0000-0200	7390P	VOR	Spanish
0100-0300	9480P	VOR	Russian
0100-0600	9845P	R. Rossif	
0630-1700	12045P	R. Rossif	
0900-1100	11745K	VOR	German
1500-1530	9810P	VOR	Albanian
1500-1600	17580P	VOR	Russian
1500-1600	11985P	VOR	Farsi
1500-1700	7330K	VOR	German
1500-1900	7310K	VOR	German
1530-1700	9810P	VOR	Serbo-Croatian
1600-1700	11985P	VOR	Arabic
1600-1700	17580P	CRI	Arabic
1600-1900	12000P	VOR	Arabic
1700-1745	7440P	VOR	Hungarian
1700-1800	9810P	VOR	Italian
1700-1800	7330K	VOR	Russian
1700-2100	9720P	VOR	English
1730-1800	15595P	VOR	Arabic
1730-2000	7390P	VOR	French
1730-2100	7445P	R. Rossif	
1745-1830	7440P	VOR	Czech
1800-1830	15595P	CRI	Farsi
1800-1900	7330K	VOR	English
1800-2000	9810P	VOR	French
1830-1900	7440P	VOR	Slovak
1830-1900	15595P	VOR	Arabic
2027-2126	5835K	RNW	Dutch
2300-2400	7390P	VOR	Portuguese

K-Kaliningrad P-St. Petersburg (Timofeyev-RUS)

SINGAPORE New relays for *Radio Canada International* via Kranji for A99:

0330-0359	Arabic	9715
1330-1359	English	15325
1400-1459	French	15325
2300-2329	Chinese	15360

(Francis+Kruger/EDXP/Padula-AUS)

SOMALIA Radio Mogadishu [Voice of the people] has changed frequency almost everyday as from March 1:

6754 6754Feb 17: went off at 2000
 6540 Feb 18: went off after Arabic program at 1900
 6584 March 1: off at 1900
 6584 March 4: off at 1655; from 1705-1733 on 6620 USB
 6620U March 5: for less than a minute at 1630, then no audio
 6604 March 6: off at 2000
 (7-Mar/Vaghjee-MAU/DSWCI DX-Window/van den Boogert-TWN)

Radio Hargetsa was on 6844 on March 3, then returned on 7071 the next day. (3-Mar/Vaghjee-MAU/DSWCI DX-Window/van den Boogert-TWN)

SRI LANKA 6005 All Asia Service of the *SLBC*, Ekala, 0350-0430* English announcement, oldies and ID. (2-Mar/Petersen-SRI)

SUDAN R. Omdurman, A99 planned sked:

4995	0500-0100
6150	0500-0100
7200	0500-1030, 1300-0100
9505	0500-0730, 1300-0100
11835	0500-0100
15150	0500-0100

(EDXP/Padula-AUS)[right...let's see how much of THIS comes to pass-AQ]

SWITZERLAND SRI Final A99 schedule is in, with English as follows:

0100-0130	9885	9905M
0400-0430	9885	9905M 13635J
0430-0500	9885	9905M
0530-0600	13635	
0730-0800	15545J	17685J 21750
0830-0900	9885M	13685
1000-1030	15315J	
1100-1200	13735S	21770
1200-1230	15315	
1400-1500	9575S	17670
1900-1930	9885J	
2000-2030	13770	15220J 17580J 13710M

J-Jülich M-Montsinery S-Singapore (Hauser/Review of International Broadcasting)

TANZANIA 7280 Radio Tanzania, Dar-es-Salaam, 1440-1525, Swahili announcements, Afropop, talk in parallel with 7165 (poor) until its sign off 1500, 44544 (2-Mar/Petersen-SRI/DSWCI DX-Window/van den Boogert-TWN)

THAILAND Recent observations: 4830/6070 2200-1600. Always observed recently in parallel with Bangkok 92.5 MHz, and usually but not always with heavily distorted 819 kHz. Often also in parallel with 891 and 7115 for news bulletins and other programming. 4830 appears to use a strongly directional antenna with lobes to the and E.

6149 **Dusit Palace**, Bangkok, noted recently signing on around 20-30 mins earlier than previously: Tues-Sat 0310v-0500, 0830v-1200, Sun 0210v-0500, silent Mon, parallel 1332 kHz, 104.0 MHz. Audio on HF is poor, besides the loud heterodyne from Singapore 6150 during the late afternoon and evening.

7115 0045/0120v-1600. Always in parallel with **Radio Thailand** 1 891 kHz. Recently observed with late sign-on (x-2200) first noted 11 March, exact time varies from day to day with crash-start joining 891 kHz in mid-sentence. Possibly this is due to heavy co-channel QRM from what sounds like VoA/RL Russian which fades away around 0030-0100. (15-Mar/Davies/EDXP/Padula-AUS)

TUNISIA RTVT, A99 planned sked, all programs in Arabic:

0400-0500	7110 11695 12005 15450
0500-0600	7110 7225 11695 12005 15450
0600-1600	11655 11730 13690 15450 17735
1600-1700	11655 11730 15450 17735
1700-1730	11655 11730 15450
1730-1800	11655 11730 12005 15450
1800-0000	7130 7225 11730 12005 15450

(EDXP/Padula-AUS)

UKRAINE Following A99 schedule for **Radio Ukraine International** obviously reflects real engineering plannings, which not necessarily comply with their "official" registration data:

0000-0100	English	5905B 6020B 6090B 7320K 7410K 9550N* 9560B 9640B 12040N*
0000-0100	Ukrainian	9945L
0100-0200	Ukrainian	5905B 6020B 6090B 7320K 7410K 9550N* 9640B 9945L 12040N*
0200-0300	Ukrainian	6020B 6090B 9550N* 9620B 9945L 12040N*
0300-0400	English	6020B 7410K 9550N* 9620B 9640B 12040N* 13590B
0300-0400	Ukrainian	9945L
0400-0500	Ukrainian	6020B 6090B 7150N* 7320K 7410K 9550N* 9620B 9640B 11840B 12040N* 13590B

0500-0600	Ukrainian	6090B 7320K 7150N* 7410K 9620B 9640B 11840B 13590B 21520L
0600-0700	Ukrainian	6020B 6090B 6130B 7150N* 7320K 7410K 9620B 9640B 11705K 11840B 13590B 21520L
0700-0800	Ukrainian	6020B 6090B 6130B 7150N* 7320K 7410K 9620B 9640B 11705K 11840B 13590B 21520L
0800-0900	Ukrainian	6020B 6090B 6130B 7150N* 7320K 7410K 9620B 9640B 11705K 11840B 13590B 21520L
0900-1000	Ukrainian	6020B 6090B 6130B 7150N* 7320K 7410K 9620B 9640B 11705K 11840B 13590B 21520L
1000-1100	Ukrainian	6020B 6090B 6130B 7150N* 7320K 7410K 9620B 9640B 11705K 11840B 12050N* 13590B 21520L
1100-1200	English	7150N* 12050N* 21520L
1100-1200	Ukrainian	6020B 6090B 6130B 7320K 7410K 9620B 9640B 11705K 11840B 13590B
1200-1300	Ukrainian	6020B 6090B 6130B 7150N* 7320K 7410K 9620B 9640B 11705K 11840B 12050N* 13590B
1300-1400	Ukrainian	6020B 6090B 6130B 7150N* 7320K 7410K 9620B 9640B 11705K 11840B 12050N* 13590B
1400-1500	Ukrainian	6020B 6090B 6130B 7150N* 7320K 7410K 9620B 9640B 11705K 11840B 12050N* 13590B
1500-1600	Ukrainian	6020B 6090B 6130B 7150N* 7320K 7410K 9620B 9640B 11705K 11840B 12050N* 13590B
1600-1700	Ukrainian	6020B 6090B 7320K 7410K 9640B 11705K 11840B 12050N* 13590B
1700-1800	German	5905B 6020B 6090B 7320K 7410K 9560B 9640B 11705K 13590B
1700-1800	Ukrainian	12050N*
1800-1900	Ukrainian	5905B 6020B 6090B 7320K 7410K 9560B 9640B 9640B 12050N* 13590B
1900-2000	Ukrainian	5905B 6020B 6090B 7320K 7410K 9560B 9640B 13590B
2000-2100	German	5905B 6020B 6090B 7320K 7410K 9560B 9640B 13590B
2000-2100	Ukrainian	9550N*
2100-2200	English	5905B 6020B 7410K 9550N* 9560B 12040N* 13590B

2200-2300 Ukrainian 5905B 6020B 6090B 7320K
7410K 9550N* 9560B 9640B
9945L 12040N* 13590B
2300-2400 German 5905B 6020B 6090B 7320K
7410K 9560B 9640B
2300-2400 Ukrainian 9550N* 9945L 12040N*

Transmitters:

B=Liev-Brovary (100 kW)

K=Kharkov (100 kW)

L=Lvov-Krasne (1000 kW)

N*=Kopani (7150-100 kW, others 1000 kW, all currently inactive)

(Erbe-GER/Ludwig-GER/DSWCI DX-Window/van den Boogert-TWN)

UNITED ARAB EMIRATES Abu Dhabi technical sked for A99:

6180 0200-0400
9605 1200-2200
11710 0800-1400, 1800-2200, **2200-0200
11945 0400-0600, **2200-0200
13605 0200-0800
13755 1600-2000
15255 **2200-0200
15265 1000-1800, **2200-0200
15315 1300-1600
15380 0600-1700
17760 2000-2200
17770 0900-1300
17775 0200-0400
21630 0200-1000
21735 0200-1600

** denotes special extended transmissions for Islamic festivals (Dobrowski/EDXP/Padula-AUS)

UNITED KINGDOM Merlin A99:

0000-0100 3985 9600 11985
0100-0200 3985 9600 11875
0200-0300 3985 11875
0200-0500 3985 9795
0500-0600 6010
0600-0700 6110 13720
0700-0800 6110 9915 13720 17630 21550
0800-0900 9915 13660 13720 17630 21550
0900-1000 9915 13660 17630 21550
1000-1100 9915 13660 17630 21550
1100-1200 9915 13660 17650 21550
1200-1300 9915 13645 17650 21550
1300-1400 9915 13645 17650 21550
1400-1500 9915 13645 17630 21550
1500-1600 9915 13645 21550
1600-1700 6175 21550
1700-1800 6175 21550
1800-1900 6175 21550
1900-2000 3965 6175 13690
2000-2100 3965 13690 17695
2100-2200 13690 17695
2200-2300 3985 9850 11985
2300-0000 3985 9850 11985

(10-Mar/Davies/EDXP/Padula-AUS)

UNITED STATES OF AMERICA KNLS Schedule for A99 period:

0800-0900 English 9615
0900-1000 Russian 9615
1000-1100 Mandarin 9615
1100-1200 Russian 9615
1200-1300 Mandarin 9615
1300-1400 English 9615
1400-1700 Mandarin 9615
1700-1800 Russian 11780

(Kruger/Padula-EDXP/DSWCI DX-Window/van den Boogert-TWN)

Radio Free Asia, effective 1999 Mar-01, complete sked

0000-0100 Lao 7480 7550 11580M 13820
0030-0130 Burmese 7520 7530 9400 11590*
13710
0100-0130 Uighur 7485 15405
0100-0200 Tibetan 7555 9570 11580 7470
0300-0700 Mandarin 15665 17615 11540 13820
1100-1200 Lao 9860* 13750 13790*
15660 15695* 17530
1200-1300 Khmer 9395 11510 11540 13750
13790* 15695*
1300-1400 Tibetan 11540 15385 11590* 7470
1400-1500 Cantonese 7550 9445 15260
1400-1500 Vietnamese 9365 9455 9930 11520
13685 15470* 15660
1500-1600 Burmese 9360 11590* 13820
15215*
1500-1600 Mandarin 11945 7540 9805 9445
9910 13735*
1500-1600 Tibetan 7495 11520* 7470M
1530-1630 Korean 7460 11565*
1600-1630 Mandarin 9445
1600-1700 Mandarin 7540 11945 9910 9805
13735*11850*
1630-1700 Mandarin 9445
1700-1800 Mandarin 9455 9805 9910 7540
11945 13735* 11850*
1800-1900 Mandarin 7455 7540 9355 9650
15510 13735* 11790*
1900-2000 Mandarin 7540 9355 9650 9775 9876
15510 11790* 11740*
2000-2100 Mandarin 9355 9875 15510 9775
7540 7455*
2100-2200 Mandarin 7540 9845 9355 15510
9650 9775
2200-2300 Cantonese 7555 9570 9845
2200-2300 Korean 7460M 9395* 9455 9650
15510
2230-2330 Khmer 7520 9930 11510 11570*
17510
2300-2400 Mandarin 9650 15515 7540 9905
13820 9650
2300-2400 Tibetan 7415 7550 9875 5855M
2330-0030 Vietnamese 7455* 7515 9390 9780
9930 13720

*-new frequencies (19-Mar/Kruger/EDXP/Padula-AUS) M-via Mongolia

URUGUAY Re. WRTH 99 entry in "Shortwaves" for *6000 **CXA2 Radiomundo**, Montevideo, this should be deleted. (19-Mar/Nigro-URU)

VIETNAM 4795.7 **Tuyen Quang** (t), 1215-1225, Vietnamese talk and native singing, best in LSB due to AIR Hyderabad 4800. (27-Feb/Petersen-SRI/DSW-CI DX-Window/van den Boogert-TWN)

5034.7 **Dai Tieng Noi** Vietnam, Hanoi, 2215-2300* Hmong ann, lady singing without music. (4-Mar/Petersen-SRI/DSWCI DX-Window/van den Boogert-TWN)

6550.0, **Yen Bai** (t), 2340-2400 probably in Vietnamese with talk and music. May have moved from 6545v. (12-Mar/Petersen-SRI/DSWCI DX-Window/van den Boogert-TWN)

Latest observed domestic freqs, 14-15 March '99:

4796 2200-2300, 1200-1400. I'm 99% sure this is **Son La**, x-4740v
4960 2200-1600 **VoV2**, Hanoi
5035 2200-2300,? 0500-?0600, 1200-1330 **VoV** Hmong, Hanoi
5597v 2230-2300, 1000-1030, 1200-1330 **Lao Cai** //6844v
5925 2200-1600 (Fri 1700) **VoV1**, Hanoi

6165 as 5035, **VoV** Hmong
6386v 2325-2400,? 0400-0530, 1000-1030v (occasionally 0935v-1030v), 1200-1330v. Very distorted audio, relays Hanoi 0935-1000 assume this and 6397 are **Lai Cau** (should that be Lai Chau?) and **Yen Bai**, but not sure which is which
6397v 2200-2300, 0955v-1125/1135v, very close to N Korean clandestine on around 6399
6496v 1200-1400 **Cao Bang**, recently observed with 'wobbly' carrier fluctuating +/- several 10s of Hz every couple of seconds, poor audio
6844v as 5597, Lao Cai. Over the past 5 months has lurched upwards in freq at an average of over 1 kHz per day from the 6660-6680 area
7156v *2325-?0130,? 0300-?0500, 0900-1425. WRTH99 suggests **Bac Thai**. Appears to relay VoV1 Hanoi throughout except for local segment around 1300-1425 (which is unintelligible here due to poor propagation and QRM)
9875 2200-1600 (Fri 1700) **VoV1** Hanoi. There is no txn break at 1400-1500.
12035 0150v-1000 **VoV2** Hanoi

ANTICIPATED WORLD OF RADIO SHORTWAVE-ONLY SCHEDULE FROM APRIL 4

Days and times strictly UT

Wed 2100 WBCQ 7415
Fri 1930 RFPI 21460-USB 15049
Sat 0330 RFPI 15049 6975
Sat 1130 RFPI 6975
Sat 1800 RFPI 21460-USB 15049
Sun 0200 RFPI 15049 6975
Sun 0229 WWCR 5070
Sun 0630 WWCR 5070
Sun 0930 WWCR 5070
Sun 1000 RFPI 6975
Sun 2300 RFPI 21460-USB 15049
Mon 0501 WWCR 3210
Mon 0700 RFPI 15049 6975
Tue 1230 WWCR 15685
Tue 1900 RFPI 21460-USB 15049
Tue 2030 WWCR 15685
Wed 0300 RFPI 15049 6975

For latest update on all our broadcasts and publications, see <http://www.angelfire.com/ok/worldofradio>

Regards, Glenn Hauser

Pirate Radio Report

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

Back From the Winterfest!

Hello all. I am glad to report that the Winterfest '99 in Kulpsville, PA was a success, pirate wise.

It was great to meet a lot of old friends. Pirate Stevie was there from Switzerland along with his chocolate bars. It was nice to meet Peter Worth of *Anteater Radio* who had some interesting pirate radio tales to share. The forum on pirate radio was again hosted by George Zeller and Andy Yoder and was well attended as usual.

Lad's in the Slammer!

Those of you who were pirate DXers in the early 1990s will remember Lad's station *The Voice Of The Night*. He was a general pest, jamming other pirates by playing rock music. He even had a show called the "*Let's Kill George Zeller Show*". He showed up uninvited a pirate radio gathering complete with all his transmitting gear.

By 1993 he had pretty much disappeared from the scene. Supposedly he had received an FCC visit and was sent away to military school by his parents.

According to information supplied by George Zeller, Lad, whose real name is Lance Duff is now in prison. No, the prison sentence was not for pirate broadcasting.

It couldn't happen to a nicer guy!

Loggings...

I'm happy to report that we have lots of loggings this month. I want to thank Ross Comeau-MA, Bill Finn-PA and Bill Wilkins-MO for these contributions.

BLIND FAITH RADIO, popped up on March 1st at 0106 UTC with a show featuring music by former Canadian rock group, The Guess Who. The announcer said return post-

age for reception reports is not required. Reports go to Box 293, Merlin, Ontario NOP 1W0, Canada or email: blindfaithradio@yahoo.com. [Finn-PA]

INDIRA CALLING, one of the two Indian parody stations was heard on March 6th at 2350 UTC. George Zeller was mentioned. Indian music was played. Signal strength was excellent. [Finn-PA]

RADIO METALLICA WORLDWIDE has returned! They're back after a few months absence. Dr. Tornado was heard at 2140 UTC on March 19th playing songs such as Born To Be Wild. Signal was excellent. [Finn-PA]

THESCORCH/FREAK SHOW was heard quite often throughout the past few weeks. They were heard on February 27th at 0015 UTC with music by Black Flag, Sex Pistols and The Ramones. On March 4th the station appeared at 2305 UTC with punk style music. They were again heard on March 5th at 2330 UTC announcing an email address of scorch_radio@hotmail.com for reception reports. [Finn-PA]

WACK RADIO, was heard on March 1st at 0239 UTC playing The Elvis Tapes, and a George Michael "Faith" Parody until static killed reception at 0250 UTC. [Finn-PA]

WMPR, the Techno-Pop station was well heard on February 27th at 0155 UTC on 6955 kHz USB with the usual format. {Wilkins-MO} Also noted the same day at 2321 UTC. [Comeau-MA]

Pirate Radio Poll

Don't forget to send in your three favorite pirate radio stations that have been active during the past 12 months. If you don't have three, one will do. The results will be tabulated in June Pirate Radio Report.

Happy Pirate DX!

-Chris



QSL Report

Sam Barto
47 Prospect Place
Bristol, CT 06010

INTERNACIONAL



John Wright. (Borokowski-NY).
BONAIRE: Radio Vlaanderen International 13670 f/d
"Water Colour" cd. in 1 mo. w/ schedule. (Humenyk).
same in 1 mo. (Field-MI).

CANADA: Radio Canada International

ALASKA: KNLS 7365 f/d cd. in 49 ds.
for 2 ms. v/s Mike Osborne. (Ray-
mond-NH).

ANTIGUA: British Broadcasting Corp.
5975 via **Saint Johns** p/d ltr. in
23 ds. from the Caribbean Relay
Company. (Humenyk-ONT).

ARMENIA: Voice of Russia 9965 via
Yerevan f/d "Arts and Crafts" cd.
in 34 ds. w/ schedule and ltr.
(Humenyk-ONT). **Voice of Armenia**
9965 via **Yerevan** f/d yellow "Lo-
go" cd. in 175 ds. Also rcvd.
schedule and a personal ltr. (Bo-
rokowski-NY).

ASIATIC RUSSIA: Voice of Russia 9480
and 7390 via **Novosibirsk** f/d cd.
in 5 mo. (Barto-CT).

AUSTRALIA: Radio Australia

6020 via **Brandon**

f/d "HQ" cd.

in 142 ds.

Rcvd. sked.

and new logo

sticker. v/s

John Wright. (Borokowski-NY).

BONAIRE: Radio Vlaanderen International 13670 f/d
"Water Colour" cd. in 1 mo. w/ schedule. (Humenyk).
same in 1 mo. (Field-MI).

CANADA: Radio Canada International

6155 via **Sackville**

f/d "Mounties on

Horseback/Parliament"

cd. w/ sticker, sked.

and book in 22 ds. v/s

Bill Westenhaver. (Hume-
nyk-ONT).

CHILE: Voz Cristiana 11890

cd. in 1 mo. via the FL

addr. (Field-MI).

CHINA, PEOPLES REP. OF: China

Radio International 11685 &

11650 f/d cd. w/ paper cut

and stickers in 7 wks. (Barto).

11650, 11515, 9730, 9685 and

7660 f/d cd. w/ stickers and

schedule in 3 mo. (Barto). 15135

and 11445 f/d cd. w/ stickers in

2 mo. (Barto). 12110 and 11700 f/d

cd. in 9 wks. (Barto). 6995 via **Bei-**

jing f/d cd. in 6 mo. (Barto). 11700

via **Xian** f/d cd. in 6 mo. (Barto-CT)

9690 f/d cd. in 47 ds. w/ station

pennant and stickers for 1 IRC.

(Griffin-VA).

COSTA RICA: Radio For Peace Internat-

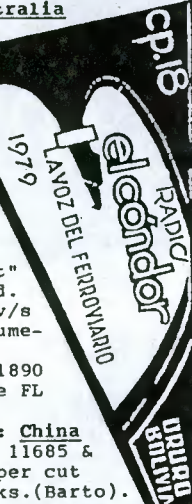
ional "Earthmarch Radio" 6975 cd.

w/ f/d ltr. in 3 mo. (Barto). RFPI

ltr. w/ schedule in 165 ds. for 1

IRC. and \$1.00. (Griffin-VA).

INTEGRANDO LA REGION GRAU



Radio Exterior de Espana 11880, 9745 and 11815 cd. w/ ltr. in 3 mo. (Barto-CT). 11880 p/d ltr. in 2½ mo. v/s Pilar Salvador. (Barto-CT).

ECUADOR: HCJB 15550 and 17795 f/d "Green Honeycreeper Bird" cd. in 1 mo. w/ schedule. (Barto). 15140 and 15295 f/d "Blue and Yellow Macau" cd. in 5 wks. w/ schedule and calendar. (Barto-CT). 15140, 11960 and 6050 f/d cd. w/ calendar in 5 wks. (Barto). 15140 and 6050 f/d cd. in 1 mo. (Barto). 12015 f/d cd. w/ several enclosures in 3½ mo. for an E-mail rpt. They said I was to receive a desk calendar - it arrived the very next day! (Flynn-OR) 9745 both bird cds. as above w/ calendar and schedule. (Field-MI).

ENGLAND: Voice of America 7130 via Wooffer-ton f/d "Thanksgiving Day" cd. in 85 ds. (Neal-TX).



VERIFICATION SIGNERS: RRI Palembang 4855.6 Ahmad Syukri Ahkab. Radio Baghdad International 11785 Jamila, DJ Addr: P.O. Box 8145, Baghdad. Tele Radio Stereo 6012 Dario Monferini, Via Davanzati 8, 20158 Milano, Italy. Star Radio 3400 Addr: Foundation Hironnelle, 3 Rue Traversiere, Ch-1018 Lausanne, Switzerland. ERF Wetzlar 9795 Addr: ERF, DE-35573 Wetzlar, Germany. All India Radio - Hyderabad 4800 Addr: AIR, A.V. Bhawan, Bansad Marg., New Delhi 110000 India. RRI Jambi 4925 H. Asmuni B.A. Sunrise Radio 5850 Miss Somaira Sadeghi. Addr: Sunrise House, Sunrise Rd., Southall, UB2 4AU, England. Deutschlandradio 6005 Addr: DLR, H. Rosenthal Platz, DE-10825 Berlin, Germany. Trans World Radio 5840 via Juli

ich Addr: B.P. 349, MC-98007 Montecarlo, Monaco ...via PLAY DX.....sam.

ETHIOPIA: Voice of the Revolution of Tigray 5500 f/d ltr. w/ postcard in 53 ds. for a taped rpt. and \$1.00. v/s Fre Tesfamichael, Director. This one was very much needed as I never have received a reply from Radio Ethiopia. (Stewart-MO).

EUROPEAN RUSSIA: Voice of Russia 11630 via Saint Petersburg cd. in 5 mo. (Barto). 7105 and 12060 via Moscow p/d cd. in SP in 5 mo. (Barto). 7310, 7350, 7390, 9470 9810 via Samara, Krasnodar, Moscow and Saint Petersburg f/d "Arts and Crafts" cd. in 34 ds. w/ personal ltr. and sked. (Humenyk). Universelles Lebens 15500 via Samara f/d cd. w/ personal ltr. in 3 mo. v/s Janette Wood. (Barto-CT). 15460 via Jigulevsk same as above in 3 mo. (Barto).

FRENCH GUIANA: Swiss Radio International 9905 via Montsinery f/d "Sion-Valere Castle" cd. in 42 ds. w/ schedule. (Humenyk).



**RÁDIO MINISTÉRIO DA EDUCAÇÃO E CULTURA
BRASIL**

ZYD2-800KHZ375m
ZYD3-11.950KHZ25m
ZYD4-9770KHZ30m
ZYD5-5990KHZ49m
ZYD2-17875KHZ1622m
FM 389 MHz

ZYF259-C40KHZ469,75m
FM1075MHz

GERMANY: Sunrise Radio 5850 via Julich cd. in 2 wks. v/s Somaira Sadeghi.(Field-MI). Radio Vlaanderen International 13650 via Julich f/d cd. in 1 mo. w/ sticker.(Field-MI). Voice of Hope 15715 f/d cd. in 5 wks.(Field).
* Good News World Radio 11725 via Julich ltr. in 5 wks. w/ package of religious materials. Addr: P.O. Box 895, Fort Worth, TX 76101.(Field-MI). Democratic Voice of Burma 13635 via Julich personal ltr. in 3 wks.(Field-MI) Deutsche Welle 6100 via Wertachtal f/d "Deutsche Telekom Antenna" cd. in 81 ds. (Humenyk). Bayerischer Rundfunk 6085 f/d cd. in 16 ds. v/s Ti Bergersen. (Humenyk-ONT). Voice of Hope 15715 f/d "Bible Painting" cd. in 16 ds. w/ other materials.(Humenyk-ONT).

GREECE: Voice of Greece 7475, 9375, 9420 and 9450

f/d "Athens as seen from Plaka" cd. in 28 ds. w/ schedule.(Humenyk). 7475 via Kavala f/d cd. w/ schedule in 29 ds.(Humenyk).

VERIFICATION SIGNERS: Radió Quito - La Voz de La Capital 4920 Addr: Casilla 17-21-1971, Quito. Radio Norte "La N-103" 4800 Antonio Perez, Empresario. Xingjiang Peoples Broadcasting Station 4735 Addr: Tuang Jie Road, Urumqi, Xingjiang, PRC. Cyprus Broadcasting Corporation 6180 Addr: P.O. Box 4824, Nicosia, Cyprus. Colmundo Bogota 6065 Jorge Eliecer Hernandez, Gerente Nacional de Programacion and Marcela Aristizabal, Presidente. Addr: Diagonal 58, n. 26 a 29, Santafe de Bogota, Colombia or A.A. 36750 Santafe de Bogota.

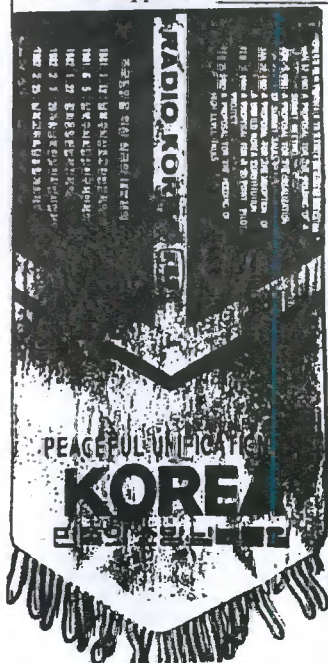
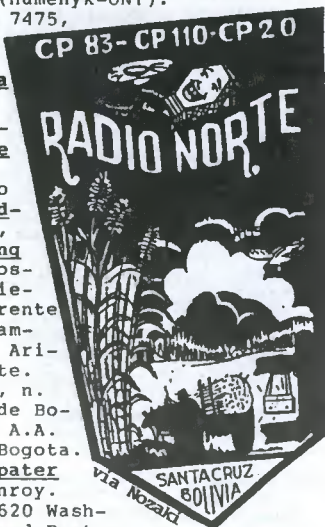
Radio Battalion Topater 4980 Jose Cruz Monroy. Radio Esmeralda 1620 Washington B. Taroco and Pastor Genuario Rodriguez Almeida.

Radio Rivadavia 8098 Ing. Marcelo Mithieux, Gerente Tecnico via PLAY DXSam.

Radio Rivadavia 8098 Ing. Marcelo Mithieux, Gerente Tecnico via PLAY DXSam.

9375 via Avlis f/d cd. in 29 ds.(Humenyk) 7110 and 7275 via Kavala f/d "Thanksgiving Parade" and "Ecola State Park" cd. in 78 ds. w/ schedule and calendar.(Humenyk-ONT)
HAWAII: KWHR 9930 f/d "Globe/ Logo" cd. in 105 ds. w/ schedule. v/s Loren Holycross.(Humenyk).
HOLLAND: Radio Netherlands 11655 via Flevo f/d "From Wireless to Worldwide Web" cd. in 53 ds. w/ schedule and calendar.(Humenyk-ONT).

ISRAEL: Kol Israel 11605, 7465, 9435 and 15640 f/d blue and white "Logo" cd. in 2 mo. w/ schedule.(Barto-CT). IBA - Reshet Bet 17545 f/d yellow "Logo" cd. in 29 ds. v/s Raphael Kochanowski.(Borokowski-NY).



Thanks for your reception report. We stopped using the Georgia transmitter on
HIGH ADVENTURE MINISTRIES of Aug 1, 1998.
 PO Box 109 *The broadcast you had*
 Hereford HR4 9XR England *came from Germany.*

via Molander

Thank you for your reception report on The Voice of Hope broadcast from Jülich,
 Germany (6 degrees 22E / 153 degrees 7N) heard at 18:10-19:30 GMT
 on Sept 4, 1998 using the frequency 15735 MHz.
 The transmitter is a 100kw Telefunken.

The Gospel broadcasts of The Voice of Hope are also broadcast from transmitter
 sites in Lebanon, Palau, and California, USA. Reception reports for these stations
 should be sent directly to them. Our ministry headquarters are at PO Box 100, Simi
 Valley, California 93065 USA.

For details about our global broadcasts, times and frequencies, visit our World Wide
 Web site at

<http://www.highadventure.org>

KALININGRAD: Voice of Russia

12010 p/d cd. in 5 mo. Card
 was in SP. (Barto-CT).

KOREA, PEOPLE'S DEMOCRATIC REP:

Korean Central Broadcasting

Service 9975.1, 9600.3 and
 6520 f/d cd. in 3 mo. w/
 flag pennant, schedule and
 books. (Barto). 15230, 9975,
 11335 and 9640 f/d cd. in 2 1/2
 mo. w/ schedule. (Barto-CT).

KOREA, REPUBLIC OF: Radio Korea

International 15575 f/d cd.

of "Prince Enthronement" in
 65 ds. for \$1.00. (Raymond-NH)
 15575 via **Kimie** f/d "The Year

of Architecture" cd. w/ schedule and booklets in 45 ds. (Humenyk-ONT).

LEBANON: Voice of Hope 11530 f/d E-mail in 2 ds. for an E-mail rpt. v/s
 Gary Hull, Station manager. 6 kws. (Neal-TX).

VERIFICATION SIGNERS: Radio Frecuencia San Igna-

cio 5700 Franklin R. Hoyos Condor, Director/
 Gerente. Addr: Jiron Villanueva Pinillos

330, San Ignacio, Provincia de San Ignacio,

Depto. de Cajamarca, Peru. **Radio Marabu**

6980 via **Radio Cochiquaz** Addr: PF 1166, DE-

49187 Belm, Germany. **Star Club Radio** 6980

via **Radio Cochiquaz** PF 220 342, DE-42373

Wuppertal, Germany. **Radio Pasteur**

6925 via **Andino Relay Service** Addr:

Casilla 1852, Correo Central, 1000

Buenos Aires, Argentina. **WLIQ** 6955

P.O. Box 109, Blue Ridge Summit, PA

17214. **Dark Pampa Radio** 6980 via b

Radio Cochiquaz Damian Funes Torres.

Addr: Casilla 5251, Buenos Aires 1000

Argentina. **Rock-It-Radio** 6965 via **And-**

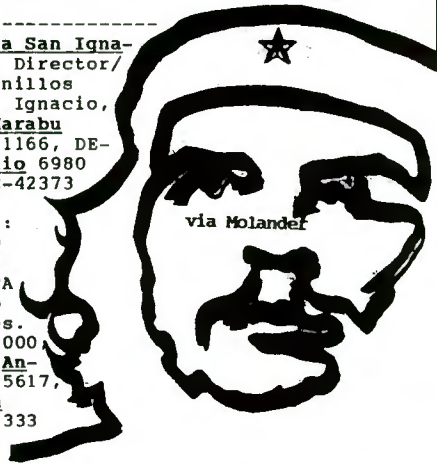
dino Relay Service Addr: P.O. Box 5617,

Ventura, CA. **Voice of South Dublin**

6280. Pat Kiennan, DJ. Addr: VSD, 333

Glenview Park, Dublin 24, Ireland.

via PLAY DX, TIN and Eramo...Sam.



MALI: China Radio International 15500

via **Bamako** f/d "Terracotta Warriors

and Horses of Shi Huang" cd. in 25

ds. w/ paper cut. (Humenyk).

MOLDOVA REPUBLIC: Voice of Russia 7125 f/d cd. w/o site in 179 ds. for

\$1.00. v/s Eugenia Stepanova. (Raymond-NH).

NEW ZEALAND: Radio New Zealand International 17675 f/d "Sport in New

Zealand" cd. in 16

ds. w/ schedule.

(Humenyk-ONT).

OMAN: BBC Eastern Relay

Station 17785 f/d

ltr. in 57 ds. for

\$1.00 (returned). v/s

David Plater, Senior

Transmitter Engin-

eer. (Stewart-MO).

PAKISTAN: Radio Pakis-

tan 15335.1 and

11570.1 f/d person-

al ltr. w/ schedule

and sticker in 6 mo.

(Barto-CT).

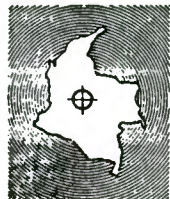
RADIO REBELDE 40 Aniversario 1958-1998

Radiodifusora Nacional
 DE
 COLOMBIA

17.865 KHz Banda 17 mts. 15.335 KHz Banda 19 mts.
 11.825 KHz Banda 25 mts. 9.635 KHz Banda 31 mts.

Q.S.L.

INSTITUTO NACIONAL
 DE RADIO Y TELEVISION



Nombre / Name JEFF MOLANDER
 Dirección / Address 6808 Storia Way
 Ciudad / City Elk Grove, CA 95758
 País / Country USA
 Fecha / Date SEP. 21 de 1998

THE NORTHERN MOST FM
STEREO RADIO STATION



PORTUGAL: Radio Portugal International 177 17740 w/ "Voz Da Timor" program w/ personal ltr. and cd. in 2 mo. v/s Isabel Saraiva.(Barto-CT).

PUERTO RICO: Armed Forces Radio & Television
* Service/Armed Forces Network 6458.5 E-mail QSL in 4 ds. v/s Wayne Eternicka. (Kohlbreuner-PA). p/d ltr. via E-mail in 8 hours! for an E-mail rpt.(Sgrulletta).

ROMANIA: Radio Romania International 7195 f/d "Romanian Folk Costume" cd. in 55 ds. w/ schedule and sticker.(Humenyk-ONT).

RUSSIA: Voice of Vietnam 5940 f/d "World Map" cd. in 76 ds. w/ schedule and pennant.(Borokowski-NY). Voice of Russia 12070, 12030, 9830, 9775 and 9665 p/d cd in SP in 5 mo. (Barto). 9450 cd. in 6 mo.(Barto-CT).

SAIPAN: KFBS 9465 via Merizo f/d "Rainbow/Towers" cd. in 67 ds. w/ sched-

VERIFICATION SIGNERS: Radio Uganda 4976

Rachel Nakibuuka, Secretary. Addr: P.

O. Box 2038, Kampala. Radio Maryja

7400 Addr: Ul. Zwirki Wigury 80, 87-100,

Torun, Poland. Stimme Des Trostes 9965

via Kamo Addr: Missions und Erholungsheim,

"Arche", CH-9642

Ebnat-Kappel, Swit-

zerland. Overcomer-

Brother Stair 3960

Brither Stair, Walter-

bord, SC 29488. ZLXA

Radio Reading Service

3935 Brian Stoke. Radio

Titanic International

6980 via Radio Cochiquaz

Mark Tim. Addr: PF 220 342,

DE-42373 Wuppertal, Germany.

Radio Waves International 6965

via Andino Relay Service Phil-

ipe Bertrand. Addr: RWI, B.P.

130, FR-92504 Rueil Cedex, Fran-

nce.....via PLAY DX.....Sam.

ule and personal ltr.(Humenyk-ONT).

SAUDI ARABIA: Broadcasting Service of the Kingdom of Saudi Arabia 11935 and

9703.3 f/d cd. in 9 wks.(Barto). 15060, 15230 and 15377 f/d cd.

in 3 mo.(Barto). 11780, 11948.2 and 11965 cd. w/ personal ltr.

in 2 mo.(Barto). 9555 and 9870 f/d "Logo" cd. in 90 ds. w/ sked.

personal ltr. and report forms. v/s

Sulaiman Samnan, Director of Fre-

quency Management.(Humenyk).

11965, 11948.2 and 11780 cd. w/

ltr. and schedule in 7 wks.

(Barto). 11870, 9553.6 and

9619.4 f/d cd. in 7 wks.

(Barto). 11708.3, 11833.7

and 9730 cd. w/ ltr. and sked.

in 9 wks.(Barto). 9555 cd. w/

schedule and ltr. via registered

mail in 358 ds.(Bueneman-MO).

15060, 15230 and 15380 f/d cd. in

2 mo.(Barto). 11935 and 9703.4 f/d

cd. in 2 mo. w/ schedule.(Barto-CT).

RADIO JAEN

"LA VOZ DE LA FRONTERA"

UNA FRECUENCIA QUE BRILIA



XXXV^{avo} ANIVERSARIO

1963 - 1997

RADIO HCJB
1953 1998

45

JAHRE

Jubiläumswimpel



Die Stimme der Anden

MINURCA



RADIO

MINURCA

100,8 FM

9900 Khz

SEYCHELLES: FEBA Radio 11745 f/d cd. in 42 ds. v/s Daeen Dugathe, QSL Secretary. (Humenyk).

SPAIN: Radio Exterior de Espana 17805, 17715 and 9855 f/d cd. in 3 mo. (Barto). 11945, 9620, 9540 and 6125 cd. w/ schedule in 3 mo. (Barto). 6055 f/d "Microphones" cd. w/ schedule in 66 ds. for 2 IRCs. (Wilkins-MO). 17890, 17805, 17715 and 12035 p/d ltr. w/ cd. in 2 mo. (Barto-CT).

QSL Verification Card

Station Radio Malay Fm Kota Kinabalu (RTM)
For Reginal

Thank you for your reception report. We are pleased to verify your reception of our transmission on 10 January 98 from 08:57-06:27 hours on 4970 kHz. with a power of 10,000 watts.



Official Seal

Ang 10.2.98
x ANGRIK SAGUMAN (Mrs.)

SWEDEN: Radio Sweden International 6065,

7115, 7325 and 9435 p/d cd. in 2 wks. v/s C. Adier. (Humenyk). 15240 and 21810 f/d cd. w/ sticker and schedule in 3 wks. (Barto). 13740, 21810 and 15240 f/d "Lapps-taden-Arvidsjaur" cd. in 3 wks. (Barto).

THAILAND: Voice of America 9645 via Udorn

Thani f/d cd. in 69 ds. (Borokowski-NY). 15300 f/d "Thanks-

giving" cd. in 57 ds. (Raymond-NH)...Bob, in the notes from Kohl-brenner it was unclear if you sent me the addresses. If it was, thank you very much...Sam.

TURKEY: Voice of Turkey 9630, 7280 and 9655 via Emirliir f/d "60th Year Anniversary" cd. in 45 ds. w/ schedule. (Humenyk). 5980, 9445, 9460 and 11885 f/d "TRT Logo" cd. w/ schedule and pennant in 7 wks. (Barto).

USA: WRNO 7355 p/d "Worldwide DX Club Member" cd. in (Barto). 24 ds. w/ sticker and schedule. (Humenyk). WSHB 18910 via Cypress Creek f/d "Radio Reaches Around the World" cd. in 153 ds. w/ sked. (Humenyk). 7535 same cd. in 40 ds. v/s Cindy Riehm. (Humenyk). WHRA

NOTES: Jerry Klinck says he was verie pleased with the QSL from Caracol Colombia. He has been trying to QSL them for several years with no success until now. Jerry is still working on the details of his new

home. This summer he plans to erect a small "antenna farm" to replace the two hastily erected antennas. I hope everything works out fine...Sam. John Squilletta says hello to everyone. He has recently replaced furniture in his den. Do you do your DXing from that room?...Sam. Richard Lawrenson has been having a difficult time trying to QSL Radio Pyongyang. You're not the only one. I've had success sending the reports to the KCBS via Beijing...Sam.



9400 f/d cd. in 5 wks. (Barto). f/d "Globe w/ Logo" cd. in 130 ds. v/s James Holycross. (Humenyk). Radio Free Asia 11500 f/d 2 page ltr. w/o site (what else?) in 2 mo. (Barto-CT) WJCR 7490 f/d cd. w/ personal ltr. and schedule in 15 ds. v/s Gerri Powell. (Humenyk). Voice of Greece 17705 via Greenville f/d cd. w/ site * in 32 ds. (Rigas-IL). WANO 2460 ltr. in 3 wks. after a f/up rpt. w/ note that they were using a very old transmitter. v/s Russell Laferty, Chief Engineer. (Field-MI).

PAKISTAN BROADCASTING CORPORATION
 Frequency Management Cell
 National Broadcasting House
 Constitution Avenue, Islamabad
 Pakistan

Thank you for your report on our _____
 World Service for South East Asia _____
 Service from 02:24 to 02:45 _____
 GMT on 15485 KHz.

Photo: M. W. M. M. M.

Er. Jeff Molander,
 U.S.A.

If you require any further information on any of our
 programmes, you are free to call us.

WHRI 5745 f/d "Globe
 w/ Logo" cd. in 130
 ds. (Humenyk). **WTDY**
 1670 f/d ltr. w/
 sticker in 5 wks.
 v/s Roy Simmons III,
 Engineer. (Barto-CT).
Radio Taipei Inter-
national 17750 and
 15600 via **WYFR** f/d
 "Child in Tradition-
 al Costume" cd. w/
 sticker in 9 wks.
 (Barto). **WWCR** 3210

f/d "Globe Antenna" cd. in 63 ds. for 2 ms. Schedule rcvd. (Wilkins-
 MO). **WBCQ** 7415 f/d "Rainbow/Globe" cd. in 7 ds. They stated that I
 was their first QSL for 1999! (Clement-GA). f/d cd. in 12 ds. (Rigas-
 * IL). **Radio Yoruba - Voice of Oduduwa** 15460 via **WHRA** f/d cd. in 4 mo.
 * (Barto). **Advertisist World Radio** 7415 via **WBCQ** f/d special cd. for the
 relay of AWR's Wavescan program on World of Radio. (Rigas-IL).
WWCR 3215 f/d cd. in 40 ds. w/ schedule. (Humenyk-ONT).

USA (Pirates): Radio Garbanzo 6955 f/d 2 page ltr. for a rpt. on the
 Farewell to PJ Sparx transmission in August 98. This in 4 mo. for ms
 (Kohlbrenner-PA). **Radio Inca** 6955 f/d cd. in 38 ds. for \$1.00. v/s
 Jose Chirinos. (Pasquale-PA). **Blind Faith Radio** 6955 p/d "Nude Girl
 w/ Model Airplane" sheet in 25 ds. for an E-mail rpt. (Sgrulletta-NY)
 f/d computer generated color copy of Blind Faith album cover in 46
 ds. via the Merlin maildrop. (Wilkins-MO). **Radio Bob's Communications**
Network 6955 f/d "Antenna/World" hand-colored QSL cd. in 10 ds. w/
 nice personal ltr. Addr: P.O. Box
 24, Lula, GA 30554. (Wilkins-MO).

VATICAN: Radio Vaticano 7250 via **Santa**
Maria Di Galeria f/d cd. in 32 ds.
 w/ schedule, stickers and a full
 desk calendar. (Humenyk). 7305,
 9605, 11910, 11640 and 13760 f/d
 "St. Peters Square" cd. in 25 ds.
 w/ stickers. (Humenyk). 17550,
 15570 and 13765 f/d "Tower" cd. in
 5 wks. (Barto). 11625 and 9660 f/d
 cd. w/ stickers in 2 mo. (Barto).
VENEZUELA: Ecos Del Torbes 4980 n/d
 "Map" cd. in 10 mo. for a SP rpt.
 (Field-MI).

VIETNAM: Voice of Vietnam 4883 via
Than Hoa p/d ltr. w/ pennant in
 2 mo. for an 84 reception. (Barto). 6509.8 and 6510.4 via **Lang Son**
 p/d ltr. w/ station pennant in 2½ mo. for receptions in 85 and 93.
 (Barto-CT).



Tahiti



POLYNÉSIE FRANÇAISE BP 125 PAPERETE

via Molander

R.F.O. votre Radio

FREQUENCIES	
740 KHZ	20 Kw
8135 KHZ	4 Kw
8790 KHZ	4 Kw
11825 KHZ	20 Kw
15170 KHZ	20 Kw

Additional Reports: Canada (Pirates): Radio Beaver 6955 f/d big post-
 cd. of a beaver in 46 ds. for \$1.00. v/s Bucky Beaver (what else?)
 (Pasquale-PA). **CYPRUS: CBC** 6180, 7205 and 9760 f/d "Studio and Bldg"

RADIO AFRICA/RADIO EAST AFRICA/RADIO AFRICA #2

THANK YOU FOR YOUR RECEPTION REPORT OF:
 DATE: Sept. 22, 1998 via Molander
 TIME: 15:47-16:05 UTC
 FREQUENCY/METER BAND: 15180 (15190)

RADIO AFRICA 7190 KHZ DAILY 6:00 PM TO MIDNIGHT
RADIO EAST AFRICA 15190 KHZ SATURDAYS & SUNDAYS
 6:00 AM TO 5:00 PM
RADIO AFRICA #2 15190 KHZ MONDAY THROUGH FRIDAY
 8:00 AM TO 11:00 AM

FOR MORE INFORMATION AND A PROGRAM SCHEDULE
 PLEASE WRITE:

RADIO AFRICA
 20410 TOWN CENTER LANE, SUITE 200
 CUPERTINO, CALIFORNIA 95014 USA

cd. in 108 ds. (Humenyk-ONT).
USA: Dixie Rising 5070 via
WWCR cd. in 2 wks. on my
 second try. v/s Dean Mere-
 dith. (Field-MI).

Hope thw Column was inter-
 esting this time. Best of
 QSLing....Sam.

Sam

Net Notes

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

The 12th annual Winter SWL Festival was quite a party, and we met some new faces behind the voices on the ANARC SWL Net. It was also good to see our old friend Frans Vossen, host of RVI's "Radio World". There are many photos of the 'fest on the 'net, but it's probably just as easy to start with our site's fest page. Atop the page with info on the year 2000 fest info — March 10 and 11 — you'll find links to all the 1999 event photos we know about. Follow the link from our home page at <http://www.trsc.com>.

Andy Sennitt tells us that WRMI's pages on the IRRS server are no longer being maintained. Look for current station information on WRMI at <http://members.xoom.com/wrmi/>. White is again coordinating the Mexican National DX Meeting July 30-August 2 to be held in Orizaba, in Veracruz State. Some English is spoken, so if you have the opportunity to travel, contact WRMI for information.

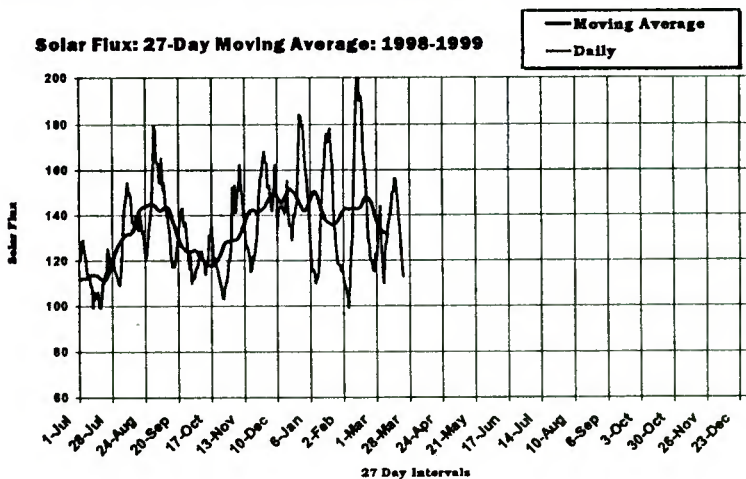
We have this event and others on our own site's Radio pages, under

Events. Have some events, such as the ODXA doings, to publicize? Let us know.

Following on the heels of the Voice of Greece makeover mentioned last month, the Israel Broadcasting Authority has spiffed up its pages and opened a new address: <http://www.israelradio.org/>. But the IBA and Kol Israel still lacks cohesiveness; there are bits and pieces of program information, audio and schedule data scattered across a number of Web sites. One would think management would make a bit of an effort to present a better image of the broadcast operations.

Danger, Will Robinson. Another Windows 95/98/NT software alert. I mentioned this product in a forum at the fest, and the question "what was that?" has arisen several times. Enfish® Tracker Pro indexes virtually everything on the hard disk. It is a marvelous tool to search the e-mail from Hard Core DX Mailing List, SWL, Cumbre and others. Get a 45-day trial product from <http://www.enfish.com> and have a look. 5 stars!

Solar Flux: 27-Day Moving Average: 1998-1999



Contributors' Page

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

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA	R8B AOR AR-7030 100' LW
Gabriel Ivan BARRERA, Buenos Aires, ARG	NRD-525 32m dipole
Ray BAUERNHUBER, Rosedale, NY	Sony 2010
Ralph BRANDI, Tinton Falls, NJ	R8 70' LW
Paul BROUILLETTE, Geneva, IL	R8 60' LW
Eric BUENEMAN, Hazelwood, MO	ATS-803A MFJ-1778 G5RV antenna
David CLARK, Thornhill, ONTARIO	R8A NRD-515/SE-3 ANC-4 Carolina Beam
Norm CONSTANTI, Rosebud, MO	
Rich A. D'ANGELO, Wyomissing, PA	R8 HF150 FL-3 AD Sloper LW
Jill DYBKA, Knoxville, TN	
Peter COSTELLO, Matawan, NJ	AR3030 DX-390 YB400 70' LW Tun-4A
Nicolas ERAMO, Buenos Aires, ARGENTINA	Sony 2010 ICF-7600 7600G LW's
Marlin FIELD, Hillsdale, MI	
Mark FINE, Remington, VA	Sony ICF-2003 ICF-SW100S 2m LW
Bob FRASER, Cohasset, MA	R8 R7A DX-Ultra inverted V
Bill FLYNN, Cave Junction, OR	
Hugh O. GRIFFIN, Jr., Portsmouth, VA	Sony 2010 120' dipole at 35'
Bob HILL, Littleton, MA	NRD-535D 10m LW
Ron HOWARD, Monterey, CA	Magnavox D-2935 AN-60 DX-SWL sloper
Mark HUMENYK, Weston ONTARIO	R8 HQ-180AX 80' LW 60m dipole
Jerry KLINCK, Wales, NY	R8 NRD-525 Datong FL-3 ANC-4 AD Sloper
Fred KOHLBRENNER, Philadelphia, PA	Kenwood R600
David KRAUSE, Eastlake, OH	JRC JST-145 indoor antenna
Joe KREMER, Middleton, WI	R8 R70 YB400
Harold LEVISON, Philadelphia, PA	Icom 746 beverage antennas
Jerry LINEBACK, Scranton, KS	Sony 2010 10/45m dipoles MFJ-956 tuner
George MAROTI, Mt. Kisco, NY	DX-380
William McGUIRE, Cheverly, MD	Grundig YB-400
Gary NEAL, Sugarland, TX	HF-1000A R-7A 70' LW
Donald W. NELSON, Beaverton, OR	WJ-1000 R8 60'Sloper 20' loop
Ed NEWBURY, Kimball, NE	R8A LW's
Jay NOVELLO, Wake Forrest, NC	NRD515 NRD535 FRG7000
Takayuki Inoue NOZAKI, Tokyo, JAPAN	Sony 2010 beverage antennas
Denis PASQUALE, New Brighton, PA	DX-398 20m 5/8 wave vertical
Bob RAYMOND, Nashua, NH	R-2000 Sony 2010 AD Sloper LW
Christos RIGAS, Wood Dale, IL	WJ-HF1000A R8B R390A/SE-3 51S-1 LW's
Chuck RIPPEL, Cornland, VA	Sony 2010 Indoor antenna
Betsy ROBINSON, Clinton, TN	NRD-535D AD 60' Sloper
Conrad ROUTH, Chamblee, GA	NRD-525 AD Sloper
Giovanni SERRA, Rome, ITALY	R8B R70 51J4 Beverage
Bill SMITH, Mincola, TX	FRG-100 w/Collins filters
Randy STEWART, Springfield, MO	FRG-7 DX-394 D398 MFJ1020B LW
Mike STRAIN, Bayville, NJ	ATS-818 Sony 2010 FRG-7700
Fred TRESHER, Philadelphia, PA	
Bill WILKINS, Springfield, MO	R8 ANC-4 135' LW
Gerald WITHAM, Keauau, HI	Sony 2010 LW
Terry WOLF, Bellville, OH	R8 Sloper SPS NRF-7 SEM QRM Eliminator
Dan ZIOLKOWSKI, Hamburg, NY	

The 12th Winter SWL Festival was another great success, and I enjoyed seeing many of you there. Kudos to organizers Dr. Harold Cones, Kris Field, and Bob Brown for another fine job putting it all together. I'm already looking forward to next years gathering!



Tropical Band Loggings

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

- 2310 AUSTRALIA ABC 2/26 1116 mx, EG ID (Ziol-NY)
 3205 NEW GUINEA R Sandaun 3/7 0908 island mx (Nels-OR) 3/6 1157 EG pgm, addr, nx //4890, mx (Nove-NC)
 3215 SULAWESI RRI Manado 2/22 1200 RRI nx //4753 (Line-KS)
 3215 USA WWCR 1/13 0230 EG tlk abt organic seeds (Hume-ON)
 3220 ECUADOR R Quito 3/1 0204 Quechua tlk, rel pgm, ID (Eram-ARG)
 3220 NEW GUINEA R Morobe 3/7 0834 orch mx, lang tlk (Nels-OR)
 3225 SUMATRA RRI Tanjungpinang 2/28 1341 IN pops (Line-KS)
 3234.9 PERU R Luz y Sonido 2/9 0225 ID, Andean mx (Kohl-PA)
 3235 NEW BRITAIN RWNB 2/9 0906 EG nx, wx, into lang (Nels-OR) 2/21 1140 island mx, anmts (Ripp-VA)
 3250.7 PERU R Comas 2/9 1037 tlks, ID (Kohl-PA)
 3265 SULAWESI RRI Gorontalo 2/22 1200 RRI nx //4753 (Line-KS)
 3270 NAMIBIA NBC Channel 2 2/14 0231 EG R&B, ment Namibia (Flyn-OR)
 3280 CHINA Vo Pujiang 2/26 1550 lots of Western mx, anmts (Flyn-OR) 3/6 1230 CH tlk (Line-KS)
 3280 ECUADOR LV del Napo 2/12 0124 SP nx, ID (Eram-ARG) 2/24 0908 Andean mx, Quechua anmts, ID (Kohl-PA)
 3290 NAMIBIA NBC 2/28 0255 lite instl mx, //3270 (Alex-PA)
 3300 GUATEMALA R Cultural 3/7 0551 orch, guitar, ID (Nels-OR)
 3315 ADM ISL R Manus 2/27 0844 C&W mx, EG nx (Nels-OR)
 3316 SIERRA LEONE SLBS 2/23 0001* instl anthem, close anmt (Clar)
 3320 N KOREA Pyongyang BCS 3/6 1238 KK tlk (Line-KS)
 3324.8 GUATEMALA R Maya 3/7 1145 SP mx, ID (Nels-OR)
 3325 KALIMANTAN RRI Palangkaraya 2/27 1304 lcl nx, ment Palang. (Line-KS)
 3330.5 PERU Ondas del Huallaga 2/12 0359* mx, TC, ID (Eram-ARG) 2/9 *1006 ID, anmts, OA mx, no CHU (Kohl-PA)
 3335 NEW GUINEA R E Sepik 2/9 0941 list of names, ID (Nels-OR) 2/28 1142 local mx, poor (Line-KS) 2/21 1155 island mx, anmts prayer, ID, TC (Ripp-VA) 2/23 1155 bouncy local mx, TC (Nove)
 3335 TAIWAN CBS 3/6 1240 CH tlk & mx (Line-KS)
 3344.8 MOLUCCAS RRI Ternate 3/7 0942 lang, Koran (Nels-OR) 2/27 1327 smooth IN vcls (Line-KS)
 3350 N KOREA South Pyongyang BS 3/6 1241 KR class vcls (Line-KS)
 3364.9 BRAZIL R Cultura 2/28 0539 mx, ID (Eram-ARG)
 3365 INDIA AIR Delhi 2/14 1325 SC mx, lang/EG tlk (Line-KS)
 3373.5 JAPAN NHK Osaka 2/28 1214 JP mx, presumed (Nels-OR)
 3375 BRAZIL R Educadora 2/27 0953 lang mx, ID (Nels-OR)
 3375 BRAZIL R Clube 2/12 0255 rel pgm (A Voz da Libertacao), ID (Eram-ARG)
 3375 NEW GUINEA R W Highlands mellow mx, YL tlk, presumed (Ziol-NY) 2/28 1143 PD tlk (Line-KS)
 3375.2 ANGOLA R Nacional 3/7 0130 mx, bubbly YL, IDs (Nove-NC)
 3380 GUATEMALA R Chortis 3/7 1203 full ID, mx (Nels-OR)

- 3385 NEW BRITAIN *RENB* 3/7 0814 island mx, C&W (Nels-OR)
- 3385 SUNDAS *RRI Kupang* 3/6 1244 IN ad for cold & flu med complete w/coughing, SCI (Line-KS)
- 3395 NEW GUINEA *R E Highlands* 2/9 0923 Western mx, ID (Nels-OR)
- 3395 UNID 1323 lang tlk, instl mx w/beat, poor (Line-KS)
- *3541.8 INDO *RPDT2 Sumba Timur* 3/6 1050 mellow lagu lagu, local ID, freq anmt (TIN-JP)
- 3607.5U JAPAN *NHK Tokyo* 2/28 1235 JP mx //3907 (Nels-OR)
- 3810L ECUADOR *HD2IOA* 2/27 0726 SP time annmts (Nels-OR)
- 3905 IRIAN JAYA *RRI Merauke* 2/27 1259 SCI, instl mx, nx (Line-KS) 2/21 1213 ment Indo, anthem, pol anmts, march (Ripp-VA)
- 3905 NEW IRELAND *RNI* 3/7 0849 C&W mx, ID (Nels-OR)
- 3925 JAPAN *R Tampa* 2/28 1313 JP ads, mx //3945, 9595 (Nels-OR)
- 3945 JAPAN *R Tampa* 2/9 0834 JP rock mx (Nels-OR)
- 3955 ENGLAND *BBC* 1/16 0400 world nx abt Clinton (Hume-ON)
- 3970U JAPAN *NHK-Nagoya* 2/28 1245 JP mx //3607.5 (Nels-OR)
- 3976 KALIMANTAN *RRI Pontianak* 2/22 1206 class vcls (Line-KS)
- 3987 IRIAN JAYA *RRI Manokwari* 2/22 1200 RRI nx //4753 (Line-KS)
- 4003.2 SUMATRA *RRI Padang* 3/6 2325 IN tlk, poss nx (Clar-ON)
- 4278.5U USA *AFN* 2/20 0210 nx from USA R nx, CBS, CNN (Alex-PA) 3/4 0804 ID, AFN Sports, college results, ID (Bran-NJ)
- 4471.9 BOLIVIA *R Movima* 2/9 tlk, Andean mx, Tcs, ment Santa Ana (Kohl-PA)
- 4485t PERU *R Frecuencia VH* 2/11 0126 SP shouting vcls (Flynn-OR)
- 4552.2 BOLIVIA *R Tropico* 2/23 1005 vy weak audio, tent (Ziol-NY)
- 4606 IRIAN JAYA *RRI Serui* 2/21 1153 Indo mx, nx (Line-KS)
- 4725 MYANMAR *RM* 3/6 1251 presumed Burmese (Line-KS)
- 4753.3 SULAWESI *RRI U-P* 2/20 1153 lcl mx, tlk, ment Indo. (Klin-NY) 2/18 1146 transmitter breaks (Line-KS)
- 4760 KASHMIR *AIR Leh* 2/15 1314 SC mx, lang tlk (Line-KS)
- 4765 BRAZIL *R Rural* 3/4 0816 tlk, mx, ment Santarem, Para (Bran-NJ)
- 4765.6 BRAZIL *R Integracão* 3/5 0058 IDs (Bran-NJ) 3/5 0050 guitar & vcls, pop mx, chimes, TC, ID (Nove-NC)
- 4766 IRIAN JAYA *RRI Wamena* 3/6 1254 IN tlk, Asian & orch mx (Line)
- 4766 SUMATRA *RRI Medan* 3/6 2325 bits of talk, good carrier (Clar-ON)
- 4770 NIGERIA *R Nigeria* 3/7 0540 mx, ID (Nels-OR)
- 4775 PERU *R Tarma* 2/11 0500* mx, ID (Eram-ARG)
- 4775 SWAZILAND *TWR* 2/8 0341 EG lds, IS (Krau-OH) 2/9 0405 GM pgm, church mx (Nels-OR)
- 4779.8 GUATEMALA *R Coatan* 3/7 1217 accordion, pops, ID (Nels-OR) 2/21 1130 SP/lang rel pgm (Line-KS)
- 4782 ECUADOR *R Oriental* 2/21 1131 ID, tlk (Line-KS) 2/12 1100 full ID, morn mx & info pgm (TIN-JP)
- 4789 IRIAN JAYA *RRI Fak-Fak* 2/28 1340 IN female vcls (Line-KS)
- 4789.4 SAUDI ARABIA *BSKSA* 3/20 0326 subharmonic of 9578.8 w/Koran & faint male voice (Hill-MA)
- 4799.7 GUATEMALA *R Buenas Nuevas* 2/21 1139 SP rel tlk (Line-KS)
- 4800 LESOTHO *RL* 3/9 0507 EG, Afr mx (Nels-OR)
- 4800 UNID 2/14 2209 Lesotho off, mournful exotic Cent As mx, flutes faint echoey anmts, SC mx w/drum. CPBS Minority Svc? (Hill-MA)
- 4800.7 MEXICO *XERTA* 2/21 1140 SP vcls (Line-KS)
- 4815 BRAZIL *Rdf Londrina* 2/8 0020 anmt, lds, rel & lcl mx (Klin-NY)

- 4819.2 HONDURAS *HRVC* 2/14 1130 saludos amigos, programa esperanza (Robi-TN)
- 4820 BOTSWANA *RB* 2/11 0410 EG by Ministry of Finance (Nels-OR)
- 4820 UKRAINE *RU* 2/18 2215 EG nx, features, Ids, IS (Alex-PA)
- 4830 CHINA *Huayi BCC* 3/6 1308 CH tk (Line-KS)
- 4830 VENEZUELA *R Tachira* 3/3 0213 SP mx, IDs (Nels-OR)
- 4835 GUATEMALA *R Tezulutlan* 2/11 0341 lang xylo mx, ID (Nels-OR)
- 4837.1v MAURITANIA *ORTM* 2/6 0836* lang tk, guitar, phone tk (Alex)
- 4840 VENEZUELA *R Valera* 2/21 0220 LA mx, ID, best in USB (Ziol-NY)
- 4845 BOLIVIA *R Fides* 2/9 1154 rel tk, mx, ID, lcl mx (Klin-NY)
- 4845 GUATEMALA *R Kekchi* 3/7 1128 ID, mx (Nels-OR)
- 4845 MALAYSIA *RM* 2/28 1508 lang local mx (Nels-OR)
- 4850 CHINA *CPBS* 3/67 1313 tk & 2nd stn underneath (Line-KS)
- 4850.7t ECUADOR *R Luz y Vida* 2/14 0130 tropical mx, closing anmt (Flyn-OR)
- 4855.6 PERU *R La Hora* 2/25 1015 mx, ID, accordion (Ziol-NY)
- 4860 INDIA *AIR Delhi* 3/6 1303 SC mx (Line-KS)
- 4870 BENIN *ORTB* 3/7 0607 lang guitar mx, ID (Nels-OR)
- 4870 ECUADOR *LV del Upano* 3/5 1145 SP/lang lesson (Line-KS)
- 4874.5 IRIAN JAYA *RRI Sorong* 2/22 1158 EZL mx, anmts, SCI, TP, ID, nx (Clar-ON) 3/5 1140 IN vcls, tk (Line-KS)
- 4880 BANGLADESH *RB* 3/15 0020 tone, IS, muffled anmt, Koran (Hill)
- 4883 CHINA *CRI* 3/6n 1315 lang tk (Line-KS)
- 4890 GABON *RFI Relay* 3/7 0517 //7135 (Nels-OR)
- 4890 PAPUA *NBC* 2/23 0825 EG C&W, ID (Nels-OR) 2/20 1140 local info, Ids, strong sig (Klin-NY) 3/6 1315 rock & roll (Line-KS)
- 4895 SARAWAK *RM Kuching* 3/6 1317 lang pop vcls (Line-KS)
- 4900 CHINA *Vo Strait* 3/6 1319 CH tk (Line-KS)
- 4914.4 PERU *R Cora* 2/13 0650 mx, echo IDs (Nels-OR) 2/13 1004 Imagen Marginario pgm (TIN-JP) 2/28 0424 cumbias, ads, TC (Eram-ARG)
- 4915 BRAZIL *R Anhanguera* 2/11 0106 live sports, ID 0130 (Klin-NY)
- 4915 GHANA *GBC* 2/14 0612 EG nx, sports scores, mx (Nels-OR)
- 4919 ECUADOR *R Quito* 2/17 1100 ads for banco central & gasolino (Robi-TN) 2/9 0332 nx, ID La Voz de la Capital (Eram-ARG)
- 4925 SUMATRA *RRI Jambi* 2/27 RRI nx, anthem at 1308 (Line-KS)
- 4930.6 HONDURAS *R Int'l* 3/7 0409 Cent Am mx, ID (Nels-OR) 12/20 *1202 Christian mx, long opening anmt (TIN-JP)
- 4940 CHINA *Vo Strait* 3/6 1319 CH tk (Line-KS)
- 4950 ANGOLA *R Nacional* 2/21 0345 pops, Ids, TPs (Alex-PA) 2/12 0459 nx pgm, ID (Eram-ARG)
- 4950 KASHMIR *AIR Srinagar* 3/15 0112 tone, IS, Vande Mataram (Hill)
- 4960 VANUATU *RV* 2/13 0822 FR pop mx (Nels-OR)
- 4975 BRAZIL *R Mundial* 3/1 0227 mx, ads, ID (Eram-ARG)
- 4975 CHINA *Fujian PBS* 3/6 1323 CH tk (Line-KS)
- 4975t COLOMBIA *Ondas del Orteguzaza* 2/3 0057 ads, NA & off (Flyn-OR)
- 4975.1 PERU *R del Pacifico* 2/13 0744 church service (Nels-OR)
- 4976 UGANDA *RU* 3/10 0320 Macarena song, Afr chant, ID, EG nx (Bran)
- 4980.3 CHINA *Xinjiang PBS* 2/27 0103 poss MG tk, echoey, choppy (Hill-MA)
- 4980 VENEZUELA *Ecos del Torbes* 1/160235mx, ID (Hume-ON) 2/90346mx, ID (Nels-OR)
- 4985 BRAZIL *R Brasil Central* 3/1 0231 anmts, ads, ID (Eram-ARG)
- 4990 CHINA *Hunan PBS* 2/28 1335 CH tk (Line-KS)
- 4990 INDIA *AIR Itanagar* 2/15 1330 SC mx lang tk (Line-KS)

- 4995.6 PERU *R Andina* 2/8 1050 anmts, Andean mx, echo Ids, ads (Kohl)
 5000 JAPAN *JJY* 2/28 1359 mixing w/VNG, WWVH, WWV (Nels-OR)
 5003.4 RIO MUNI *R Nacional* 3/1 0520 SP tk by OM (Clar-ON)
 5010 CHINA *Guangxi PBS* 3/6 1325 CH tk, instl breaks (Line-KS)
 5010 INDIA *AIR Thiru.* 3/8 0053 mx, tk, ment Sonia Gandhi, TP, lcl ID, tnx Novello (Bran)
 5012 ZIMBABWE *ZBC Radio 4* 2/21 *0300 EG NA, church svc (Flyn-OR) 3/1 0415 mx,
 tk in lang, EG TCs (Clar-ON) 2/14 0416 lang mx, ID as Radio 4 (Eram-ARG)
 5015 TURKMENISTAN *TR* 3/7 0155 mx, IS on twangy string inst (Bran-NJ)
 5019.8 COLOMBIA *Ecos del Atrato* 2/7 0345 pops, anmts, Caracol promos, ads, jingles
 (Alex-PA)
 5030 CHINA *CPBS* 1327 orch mx, CH tk & ads (Line-KS)
 5030.1 COSTA RICA *AWR* 2/27 1010 SP rel, drama, IDs (Alex-PA)
 5035 BRAZIL *R Aparecida* 3/1 0705 church service (Nels-OR)
 5040 GEORGIA *GR* 2/8 2302* vcls, poss RS anmt, anthem (Kohl-PA)
 5040 SUMATRA *RRI Pekanbaru* 2/19 1155 mx, SCI (Nove-NC)
 5047 TOGO *R Lome* 2/14 0540 FR pop mx, nx (Nels-OR)
 5050t CHINA *Vo Strait* 2/28 1327 CH tk (Line-KS)
 5054.5 COSTA RICA *Faro del Caribe* 2/7 1135 LA mx, tk, ID, fade (Ziol-NY)
 5055 FR GUIANA *RFO Cayenne* 2/9 0715 FR discussion (Nels-OR)
 5060 CHINA *Xinjiang PBS* 3/6 1335 presumed MG tk (Line-KS)
 5076.8 COLOMBIA *Caracol* 3/7 0452 mx, ID (Nels-OR)
 5100 LIBERIA *RL* 2/7 2100 ID, EG nx, hilife mx (Kohl-PA)
 5500 ETHIOPIA *Vo Tigray Rev* 2/24 0422 lang tk //6315 (Bran-NJ)
 5678 PERU *R Ilucan* 2/8 1028 SP Andean mx, ID, tk (Ziol-NY) 2/9 0229 mx, ID (Eram-
 ARG) 2/10 1048 Andean mx w/flutes, ID ment Cajamarca (Kohl-PA)
 5700 PERU *R Frec San Ignacio* 2/12 0106 rel pgm, ID (Eram-ARG)
 5773.7 PERU *R Manantial* 3/5 1135 tk, folk mx, presumed (Eram-ARG)
 5770 NICARAGUA *R Miskut* 2/24 0020 EZL mx, audio in USB (Clar-ON)
 5810 USA *R Taipei* Relay 12/31 2244 EG cmts abt hot pot (Hume-ON)
 5850 GERMANY *Sunrise R* 2/7 *0756 multilingual Ids, ads, nx (Alex)
 5872.3 N KOREA numbers stn tnx Ashimori 2/9 1014 (Ziol-NY)
 5900 CENT AFR REP *R Minurca* 3/4 0314 Ids, mx (Nels-OR)



Welcome to the following new NASWA members

William Cockerill, Pueblo, CO
 Bill Fairbanks, Coral Springs, FL
 John Guyders Jr., Kresgeville, PA
 Richard D. Hansen, Braintree, MA
 Mr. Joseph G. Low, Rahway, NJ

Mervin G. Rinde, Portage, WI
 Norman Rolph, Gilbert, AZ
 Mark Seiden, Miami, FL
 Walter W. Spector, Saratoga, CA
 Marino V. Wilson, Milford, CT

Please note that the NASWA Headquarters e-mail address has changed from <boliver@blackboard.com> to <boliver@bboard.com>. This was caused by some sort of conflict with "Blackboard.net". Sorry for the inconvenience.

International Band Loggings

Wallace C. Treibel
357 N.E. 149th Street
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- 5900nf **CENTRAL AFRICAN REPUBLIC R *Minurca*** in EG 0314, ID at 0315, mx pgm (Nelson OR 3/4) ED: According to LN for March, pg 21 this new fqy operates at a temporary 125 watts power!
- 5940 **RUSSIA V of *Vietnam*** relay Krasnodar in EG 0240, nx, cmntry, WWCR QRM, g (Bauernhuber NY)
- 59502 **GUYANA V of *Guyana*** in EG 0846-0935+, "Early Bird Show", pop & Hindi mx, ID, lcl relig pgming covered by WYFR's IS at 0955 (Kohlbrener PA 2/24, Alexander PA 2/14)
- 59847 **MEXICO RMI** Mexico City in SP 1400, "Musica Mexico", pop mariachi, bueno! (Robinson TN 2/14)
- 6010 **MEXICO R *Mil*** in SP 0835-1050, SP remakes of US pops, canned ID, ancmts, promos, nice listening (Ziolkowski NY 2/10, Alexander PA 2/14)
- 6015 **CANADA R *Austria Int*** relay Sackville in EG 0633, nx, heavy snowfall in W Austria (Nelson OR 2/9)
- 60251 **NIGERIA FRC *Enugu*** in Igbo 0450, Afro mx, nx, ID in EG, f (Eramo ARG 2/15) in EG 0601, nx coverage of elections, QRM slop, //60499 vg, 60899 w/QRM from Anguilla (Clark ONT 3/1)
- 6030 **GERMANY *Sudwestrundfunk*** HS 24 hr stn in GM 0928, pop mx, tiks, //7265 (Serra ITALY 3/13)
- 6045 **GERMANY *Deut Welle*** Wertachtel in EG 2305, rpt on situation in Kosovo, p (McGuire MD 2/25)
- 6085 **GERMANY *Bayer Rundfunk*** HS 24 hr stn in GM 2153, cmntry, mx by Elton John (Humenyk ONT)
- 61001 **LIBERIA R *Liberia Int*** in EG 0637, pop mx, sked of lcl events, ID, fqy, "LCN" nx, obituaries, rpt on construction projects in Liberia, f (Kohlbrener PA 2/15, Alexander PA 2/20)
- 61151 **COLOMBIA *LV del Llano*** in SP 0955, lk, L Am vcl, ID 1001, fqy, f-g (Ziolkowski NY 3/3)
- 6120 **GERMANY R *Vilnius*** relay Jülich in EG 0029, nx, features on Lith citizens habits (Brouillette IL 2/14)
- 6130 **CANADA *CHNX*** Halifax in EG 2215, lcl wx rpt, ads, ID's, rock oldies, vg (Bauernhuber NY 2/16) in EG 0605, mx selections, IS, ad for local furniture store (Nelson OR 2/9)
- 6135 **BOLIVIA R *Santa Cruz*** in SP 0048, Andes mx, nx of La Paz, flutes, clear channel (Flynn OR 2/11)
- 6150 **ALASKA *KNLS*** in RS 1159*, C & W mx with RS speaking DJ, ID, QTH, f (Kohlbrener PA 2/10)
- 6155 **GERMANY V of *Deliverance*** relay Jülich in EG 0012-0030*, 1/2 hr relig pgming on Mondays only, gave QTH, mixed with AIR Delhi which was stronger of the two, f-p (Flynn OR 3/1)
- 6160 **CANADA *CKZN*** in EG 0904, NA, replay of prev day's D Welle xmsn, MW/SW ID's (Brandi NJ 3/4)
- 6165 **ZAMBIA *ZNBC Radio 2***, Lusaka in Vern/EG *0250, musical prg, full ID, f (Eramo ARG 2/28)
- 6185 **CHINA *China Huayl BC Co*** Fuzhou in CH 0951, musical pgm, ID 1000, f (Eramo ARG 2/10)
- 61954 **BOLIVIA R *Carlos Palenque*** La Paz in SP 0927, Andean flutes & vcls, ID's, p (Kohlbrener PA 2/24)
- 6265 **ZAMBIA *ZNBC Radio 1*** Lusaka in Vern/EG 0309-0433, mx, siren sounds, cmntry, nx, ID Radio One, (Nelson OR 2/27, Eramo ARG 2/28)
- 64585usb **PUERTO RICO *AFRTS*** vis Isabella Naval Station in EG 24 hrs, nx from CNN, AP, NPR etc., sports scores, PSA's against sexual harassment (Famularo JP, Clark ONT, Nelson OR, Strain NJ)
- 6750 **CHINA *CPBS-CNR1*** in Mandarin 1112, tiks by OM & YL, //5880 better, ID (Ziolkowski NY 2/12)
- 67977 **PERU R *Ondas del Rio Mayo*** in SP *1024, Andean mx w/DJ, ID at 1035, p (Kohlbrener PA 3/2)
- 68953 **PERU R *San Miguel*** Huanca in SP 0302*, OA folk mx, lk, ID, NA at s/off, f (Alexander PA 2/7)
- 6940 **ETHIOPIA R *Fana*** in lang 0415, Ethiopian pop mx, //6210 (Brandi NJ 2/24)
- 7125 **GUINEA *RTV Guinienne*** Conakry in FR 0715, ezl mx, nx analysis, g after BBC* (Bucneman 3/9)
- 7125 **UNITED KINGDOM *BBC*** Rampisham in AR 0715*, lk, contemp mx, g (Bucneman MO 3/9)
- 7150 **INDIA *AIR*** Delhi in EG 2209, GOS nx, low audio & cutouts, //9910, 11620 better (Hill MA 3/10)
- 7175 **ITALY *RTV Italiana*** Sicily in IT 2218, phone interview, promo, //6060, 9515 (Serra ITALY 3/10)
- 7180 **ALBANIA R *Tirana*** in EG *2015, IS, ID, sked, nx, cmntry, f, better on //96499 (Alexander PA 2/13)
- 7210 **BELARUS R *Minsk*** in EG 2200*, ID's, cmntry on Belarus-Russian relations, agriculture problems, local vocals, f, //7105 (Kohlbrener PA 3/4)
- 7230 **UNITED KINGDOM R *Japan*** relay Skelton in EG 0605, rpt on organ transplants in JP (McGuire 2/26)
- 7260 **CHINA *CPBS Taiwan Service*** in CH 1102, tiks by OM & YL, CH mx, f, //9380 p (Ziolkowski 2/20)
- 7290 **CHINA *CPBS-1*** Beijing in CH 2224, string of ads/promos, //9080, muffled boomy audio (Hill 2/21)
- 7300 **SLOVAKIA R *Slovakia Int*** in EG 0120, ID, political nx, fair with QRM (McGuire MD 3/10)

- 7305nf **CROATIA** *Croatian R* Deanovec in EG 0705, nx, ID, good signal (Alexander PA 2/13)
- 7475nf **GREECE** *V of Greece* Kavalla in EG 0147, world nx, feature on olive trees, mx (Krause OH 2/13)
- 91651 **AZERBAIJAN** *V of Azerbaijan* Baku in AZ 0402*, tk, lcl mx, strong distorted sig (Alexander 2/28)
- 9375 **GREECE** *V of Greece* Kavalla in GK 0335, nice vcls in GK, //7450, 9420 (Bauernhuber NY 2/16)
- 9465 **SLOVAKIA** *AWR V of Hope* in Urdu 0315, tk in lang, multi-lingual ID's 0330 and mention of Slovakia xmtx site, pgming in Farsi at 0331 with relig mx, g (Alexander PA 2/7)
- 9500 **GERMANY** *The Lutheran Hour* relay Jülich in FR 2002, bridge mx, comments by OM & YL, //9640, this xmsn on Sundays only to Africa, f (Humenyk ONT 2/14)
- 9515 **ITALY** *RTV Italiana*, Caltanissetta in IT 1115, home service pgms, ID, //6060 (Serra ITALY 3/10)
- 9535 **THAILAND** *R Thailand* Udo Thani in GM 2000, ID in EG 2017, into FR pgming (Alexander PA 2/7)
- 9550 **CUBA** *RHC* in EG 0544, Arnie Coro's DX pgm, low modulation, better on //9820 (Costello NJ 2/26)
- 9555 **SAUDI ARABIA** *BSKSA* Riyadh in AR 2105, tlks in AR, then Koranic chants, g (McGuire MD 3/3)
- 95951 **URUGUAY** *R Monte Carlo* in SP 0002, nx, fanfare, ID, weak, QRM from R Nederl'd (Hill MA 3/13)
- 9650 **SOUTH AFRICA** *TWR* relay in Shuwa/EG 1712*, tribal & piano mx, IS, ID, QRM (Serra 3/10)
- 9655 **TURKEY** *V of Turkey* Ankara in EG 2315, "Lakes and Islands" - Lake Van, g (Fraser MA 2/23)
- 9660 **VATICAN STATE** *Vatican R* in EG 0511, ID, African Service, mx, tk re Pope's travels (Krause 1/24)
- 9665 **SPAIN** *REE* Noblejas in SP 1935, soccer coverage, ID 2000, ex-9745, //9630 (Alexander PA 2/21)
- 9665nf7 **URUGUAY** *Emisoras Ciudad de Montevideo* in SP 1925, futbol relay bcst, f (Nozaki JP 2/20)
- 9680 **SPAIN** *REE* Noblejas in EG 2025, nx rpts, national wx, ID, g-f (Famularo JP 3/13)
- 9700 **CANADA** *Deut Welle* relay in EG 0140, GM lang lesson, TC, fqys, satellite info (Krause OH 2/13)
- 9700 **NEW ZEALAND** *RNZI* in EG 1205, on past usual s/off time 1015 to issue possible cyclone warnings, normally 9700 cuts over to 6105 at 1015, nx bulletin included cyclone warning (Costello NJ 3/14)
- 9705 **MEXICO** *R Mexico Int* in SP 0050, political cmntry, Latin vcls, fair sig after 0100 (Kohlbrener 3/5)
- 97083v **LITHUANIA** *R Vilnius* in EG 1040, cmntry, ID's, fqy, sked, lcl pop songs, feature, f-p (Serra 3/9)
- 97356 **PARAGUAY** *RN del Paraguay* in SP 2100, evening nx "Informativo Nacional", f (Nozaki JP 2/26)
- 9760 **CYPRUS** *CBC* in GK *2213, guitar IS, mx, GK nx, g, //6180, 7105, weekends only (Alexander 2/6)
- 9765 **RWANDA** *Deut Welle* relay in GM 0005, national & regional nx, target Lat Am (McGuire MD 3/10)
- 9765 **SOUTH AFRICA** *Channel Africa* in EG/SH 0300, ID's, African nx & mx, f (McGuire MD 3/10)
- 9785 **CHINA** *CRI* in EG 1556*, pgm w/CH lyrical songs, ancmts, ID's, fqys, QTH, IS, f (Serra ITALY 3/6)
- 9805 **UNITED KINGDOM** *R Canada Int* relay in EG 2105, "Arts in Canada", //7235 vp (Fraser MA 2/21)
- 9830 **CHINA** *CPBS-1* in Mandarin 2336, sounded like nx pgm, weak, //10260 (Hill MA 3/6)
- 9835 **HUNGARY** *R Budapest* in EG 0200, 100,00 tourists a week attend wine festival (Robinson TN 2/13)
- 9855 **KUWAIT** *R Kuwait* in AR 2211, occasional blocks of nx briefs, AR mx (Brouillette IL 2/21)
- 9885 **SWITZERLAND** *SRI* Sottens in SP/FR 0159, ID, fqy, sked at end of SP xmsn, into FR 2000 with ID and nx, g (McGuire 3/6) in EG 0410, nx re avalanche danger & snow in Alps (Nelson OR 2/25)
- 9905 **FRENCH GUIANA** *Swiss R Int* relay in EG 0400, nx, arrest of Kurd rebel leaders (Bauernhuber 2/16)
- 9988v **EGYPT** *R Cairo* in IT 1820, nx, ID's, feature on tombs in Egypt & Egyptian calendars, f (Serra 3/10)
- 11620 **INDIA** *AIR* Bangalore in EG 1928, mx, cmntry on nuclear power (Nelson OR 2/13) in EG 2154, film songs, nx, commentaries, hrd daily w/strong but fluttery signal (Brouillette IL 3/6)
- 11625 **GUAM** *KSDA* Agat AWR in VT 1600, heard ending of "Wavescan" DX pgm at 1556, ID, QTH, fqy and saying pgm in VT would follow, also gave Hong Kong address and Web URL, g (Hill MA 2/27)
- 11665 **SEYCHELLES** *FEBa Radio* in EG 1632, long relig tlks & interviews, song, ID's, IS, f-p (Serra 2/21)
- 117349v **URUGUAY** *R Oriental* Montevideo in SP 2321*, bursts of mx, DJ, phone-in, abrupt s/off (Clark 3/4)
- 117448v **TAIWAN** *CBSR Taipei Int* in Amoy 0825, tlks over strings, CH pop mx, ID's, tlks (Serra ITALY 3/9)
- 11745 **CHILE** *LV Cristiana* Santiago in SP 0032, musical pgm, //15375, 21550 (Nelson OR 2/10) relig pgm "Hombre del Valor", ID 2130 (Nozaki JP 2/26) in SP 2147, relig mx, //17680, 21550 (Humenyk 2/14)
- 117651v **BRAZIL** *R Universo* Curitiba in PT 2318, religious sermon & mx, f, //9565 (Kohlbrener PA 3/2)
- 11785v **BRAZIL** *R Guaíba* Porto Alegre in PT 0958, tk, ID's, anmts, jingles, ballads, vg (Alexander PA 2/14) in PT 0010, tk by two men, ID over mx, vocals after 0023, p (Kohlbrener PA 2/13)
- 11800 **ITALY** *RAI* Rome in EG 0050, xsmn to NA, nx on avalanches due to deep snows (Fraser MA 2/12)
- 11810 **ROMANIA** *RR1* Bucharest in IT 1401, ID, lcl nx, press review, QTH, fax #, contest (Serra ITALY 3/9)
- 11835nf7 **MOZAMBIQUE** *R Maputo* in EG 1125-1134*, tk and native mx until sign off, f-p with adjacent channel interference from WYFR on 11830 before 1130 (Buenean MO 3/9)
- 11860 **INDONESIA** *RR1* Jakarta Lagu 2 in IN 0025, ancmts in lang badly squeezed between RCI and WYFR, hrd later same day with bad wobbly tape of "SCI" till 2300, pips, nx, //151251 (Hill MA 3/13)
- 11910 **GERMANY** *Swiss R Int* relay Jülich in IT 1842, cmntrys w/mx bks, //9885, g (Humenyk ONT 2/13)

- 119151v **BRAZIL R Gaucha** Porto Alegre in PT 2146, sports pgm, relay of National pgm 2200 (Nozaki JP 2/26)
- 11920nf7 **INDIA AIR** in EG 1900, tlk of "Emancipator", sitar / tablas, cmnty on nuke power (Robinson TN 2/13)
- 119548 **ANGOLA R Nacional** in PT 2030, Afro pop mx, pips2100, ID's, tks, g (Alexander PA 2/21) in PT 0603, Portugese world nx, ID at 0624 (Nelson OR 2/24)
- 119751 **PAKISTAN R Pakistan** in Urdu 0136, 2 men in dialog, into Qur'an 0140, p-f, //15485v (Hill MA 3/14)
- 11995 **PHILIPPINES FEBC** in EG 1318, contemp Christian mx, tlk on India's econ, promos (Bueneman 3/9)
- 12010nf7 **SINGAPORE Swiss R Int** relay in multi-lang 1609, ID's, pgm skeds in EG, g (Krause OH 1/24)
- 12130 **SOUTH AFRICA AWR** relay in EG 1730, IS, ID's, choral pop song, sermon, f-g (Serra ITALY 3/10)
- 13710 **INDIA AIR** Bangalore in EG 1350, UN nx, correspondents, ID's, regular nx, //11620 (Serra 2/20)
- 13810 **GERMANY The Overcomer Ministries** relay Jülich in EG 0830, Christian mx, gave Walterboro, SC address, into doomsday tlk, f-p (Bueneman MO 3/9)
- 15040nf **INDIA AIR** in EG 1015, sitar/tabla mx, ID, //17840 (Famularo JP 3/11)
- 15115 **ECUADOR HCJB** Quito in EG 1910, "DX Party Line" by Allan Graham, //21455 (Humenyk 2/13)
- 151498 **INDONESIA V of Indonesia** in EG 2001, mx to 2003, nx to 2012, strong sig at outset (Fine VA 2/28)
- 15170 **FRENCH POLYNESIA RFO** Papeete in FR 0440, mix of pop & island mx to 0459, voicecover ID but no IS, into France Inter relay 0500 slightly behind the French Guiana // on 50549, g (Clark ONT 3/1)
- 15210nf **CHINA CRI** in EG 0904, cooking show, world nx, ID, cmntry (Krause OH 1/24, Serra ITALY 3/6)
- 15215 **SOUTH AFRICA Channel Africa** in EG 0512, African nx, ID's, Afro sport nx, exc (Serra 3/6)
- 15285nf7 **CHINA CPBS-1** in CH 0204, new unlisted channel with network nx?, //15500 (Hill MA 3/14)
- 15293 **MOZAMBIQUE RN** in PT 1235, fast-paced pgm of pop vcls, ID, f/o 1350, gone next day (Hill 3/5)
- 15325 **BRAZIL R Gazeta São Paulo** in PT 0515, relig pgm "A voz da Libertacao", TC's, ID, p (Eramo 2/28)
- 15335 **SAUDI ARABIA BSKSA** in FR 1002*, econ nx, canned anmts, mx, tlk, ID, TP, fqy, f-p (Serra 3/9)
- 15400 **FINLAND YLE R Finland** in EG 1336, business & wx rpts, tlk re elections, f (Bueneman MO 3/9)
- 15415 **LIBYA V of Africa** in EG 1732, Mideast & African nx, cmnts on hurricanes & floods in USA, ID (Krause OH 1/24) in EG 2020, world nx, march theme, into FR, //15435, f-g (Flynn OR 2/24)
- 15435 **LIBYA V of Africa** in AR 1518, instrumental mx, tlk in AR, //15415, g (Bueneman MO 2/22)
- 15445 **BRAZIL RN do Brazil** in EG 1200, ID, czl mx, sked, nx (Bueneman MO 3/9, Robinson TN 2/14)
- 15460nf **SEYCHELLES FEBA** in AR 1123, relig song, IS, QRM (Serra ITALY 3/9) in Tibetan(p) *1200, must be a replacement for 15445 (Hill MA 3/5)
- 15465 **PAKISTAN R Pakistan** in EG 1403, nx w/ frequent ment Pakistan, ID, QRM (Serra ITALY 2/20)
- 15471nf **VIETNAM V of Vietnam** National Network Home Service in VT *1355v-1459*, heard daily since Feb 20, chimes 1359, 6 pips 1400, nx?, some days f-g strength but with QRM after 1400 when Russia's on, Tnx to Mikhail Timofeyev and Cumbre DX for ID, //5925, 9875 (Hill MA, Novello NC 2/20)
- 15475nf **INDIA AIR** Ext Service in Bamar *1215, fqy hetted & sometimes swamped, //11620 (Hill MA 3/3)
- 154758nf **ANTARCTICA R Nac Arcangel**, San Gabriel in SP 2340-0059, SP folk mx, ID, g (Novello NC 2/19) in SP *2207-2357*, SP ballads, ID's (Alexander 2/21) in SP 2330-0035, folk mx, ID's (Eramo 2/22) ED: Eff 3/13, stn will be on M-F 1800-2100, but off 1 hr earlier weekends (per Barrera ARGENTINA)
- 15485 **USA Voice of Greece** relay Delano in EG 1805, rpt on the Kurds in Turkey, mx (McGuire MD 2/25)
- 15500 **CHINA China R Int** in CH 2230-2256*, vibraphone IS, ID "Zhongguo guoji guangbo diantai" repeated slowly, nx items, pop & classical CH mx, xmtr dropout problems at times (Brouillette IL 2/28) ED: Kligenfuss SW Frequency Guide (published 12/98) indicates this xmsn is via Mali relay.
- 15590nf **IRAN VOIRI** Teheran in Malay 1237, nx w/many ments of Iran, //13760, 15200, 17705 (Hill MA 3/7)
- 15715 **GERMANY High Adventures Ministries** relay Jülich in EG 1412, preaching, ID (Humenyk ONT 2/13)
- 15580 **CHINA CNR Taiwan Service** in CH 0809, tks, ID, mx pauses, p-vp, //11000 (Serra ITALY 3/9)
- 17675 **NEW ZEALAND RNZI** in EG 0320, live cricket play-by-play coverage, exc (Costello NJ 2/27) in EG 2024-2050, pop song, brief IS, lcl nx w/correspondents, ID, pgm preview, feature (Serra ITALY 3/10)
- 17680 **CHILE Voz Cristiana** Santiago in SP 1532, ID, promos, f-p (Bueneman MO 2/22)
- 178352 **PAKISTAN R Pakistan** in Urdu 0902*, lcl mx & song, anmts, ID during tlk, violin mx break, TP 0900, nx, f (Serra 3/9) in EG 1110-1120*, slo speed lcl nx, ID at s/off, f (Serra ITALY 3/9)
- 17860nf7 **SOUTH AFRICA Channel Africa** in EG 1703, nx, ID, drums, sport recap, some QRM (Serra 2/21)
- 21460usb **COSTA RICA RFPi** in SP 1408, commentary in SP, g-f, //15050 (Bueneman MO 2/22)
- 21550 **UNITED KINGDOM Merlin Network One** in EG 1359, promo, ID, C&W mx, QRM (Bueneman 2/21)
- 21605 **UNITED ARAB EMIRATES Dubai** in AR 1300, nx, traditional mx, exc (Robinson TN 2/14) in EG 1330, TC, Holy Qur'an quoted (Robinson 2/14) in AR 1443, AR mx, g (Strain NJ 2/21)
- 21610nf **SPAIN REE** Noblejas in SP 1305, nx bulletin & analysis, ment Colombia, //21700, g (Bueneman 2/21)

- 21630 UNITED ARAB EMIRATES *Abu Dhabi* in AR 1314, tlk, Mideast mx, f (Bueneman MO 2/22)
- 21670 JAPAN *R Japan World Network* Yamata in EG 0154, mailbag, mx requests, ID, f (Krause OH 2/22)
- 21700 GABON *R Japan World Network* relay in IT 1035, cmntry re human transplants, ID (Serra 3/10)
- 21785nf RWANDA *Deut Welle* relay in Hausa 1320-1350*, tlk, nx, nx analysis (Bueneman MO 2/22)
- 21825nf? UNITED KINGDOM *BBC* in AR 1359, TC, Big Ben at TOH, nx in AR, g (Bueneman MO 2/22)

Clandestine, Tentatives, Presumed, or Unknown

- 61739 PERU(p) *R Tawantinsuyo?* in SP 1042, excited tlk, ment Cusco, weak but clear (Ziolkowski NY 2/12)
- 6255 KAZAKHSTAN(p) *Kazak R?* in lang 2147, man-woman dialog, familiar sounding anthem 2156*, fair with atrocious hum. Hard to understand why xmtng in middle of nite in Kazakhstan (Hill MA 3/10,12)
- 7000v CLANDESTINE *Radio V of Freedom and Renewal* in AR 0428, AR-style pop mx, harangue w/crowd noises, erratic audio w/fades (Hill MA 2/27, Brandi NJ 2/24) ED: Xmsn from 0400-0500 per Dec LN
- 70406 PERU(p) *R San Ignacio?* in SP 1107, LA mx, tlk, weak w/RTTY QRM, l/o 1130 (Ziolkowski NY 2/13)
- 71001 UNIDENTIFIED Still unknown station in lang? 2236-2254*, pop vcls with strong Mideast influence, brief anmts, very lo audio/ham QRM, Greek-sounding instrml mx at s/off, not hrd since 3/7 (Hill MA)
- 7620 CHINA(p) *CNR-Taiwan?* in CH 1207, tlks by man & woman, //9380 (Brandi NJ 2/22) ED: This one probably belongs in the main body of the column. Klingenfuss' SW frequency guide lists the parallel frequency 9380 as CNR Taiwan Service (1) in Mandarin from 1200-1630.
- 94898 ABKHAZIA(p) *Abkhazia R?* in lang? 0414-0432 f/o, vcls, tlks, IS 0428, 3 pips (Kohlbrenner PA 2/13)
- 96957 CLANDESTINE (Israel) *V of Palestine* in AR 1948, many ments of Lebanon, ID 2000 "Saut al-filistin saut al-thaurah-tal-islamiyya al-filistiniyya", f, later on at 2045 carrying VOIRI Arabic (Hill MA 2/27)
- 9750 MALAYSIA(p) *V of Malaysia?* in IN 1154-1240, Indo service?, pop vcls, movie mx (Kohlbrenner 3/2)
- 11530 LEBANON(p) *V of Hope?* in AR 0941, song, ancmts, sermon?, ID?, poor w/static (Serra ITALY 3/10)
- 11620 INDIA(p) *AIR Bangalore(t)* in Urdu? 0155, interesting vcls, "Vividh Bharati" ancmt, no interfering stations (Tajik Radio not heard), SINPO overall fair (Flynn OR 2/7) ED: Hard to figure! PWBR '99 shows Delhi in lang? 0100-0430 but neither WRTH or Klingenfuss show any xmsn on 11620 at 0155.
- 11740nf? SINGAPORE *RTÉ* Ireland relay? in EG? 1005, nx w/correspondents mostly unclear, vp (Serra 3/10)
- 11940 ROMANIA(p) *RR1?* in RM? *2359, world nx in lang, looking for Cambodia in vain (Flynn OR 2/28)
- 155191 BANGLADESH(p) *Bangladesh Batar?* in EG 1510, relig mx, 15 min of nx then switch to lang? until 1600, pips (last one high), film songs thereafter, no ID, sig just above noise level (Novello NC 3/12)

NOTE: Thanks to all contributors for sending your loggings in early for this issue. Now, I hope to head for Arizona with a clear conscience. Ye olde Editor.

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