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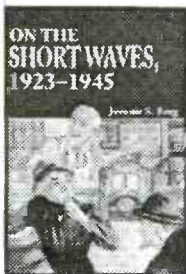


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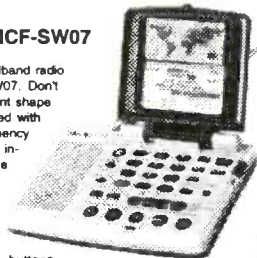
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To help celebrate the 25th anniversary of the Ontario DX Association ("ODXA"), the ODXA announces a special essay contest. Radio listeners around the world; listeners of international shortwave, medium wave, FM, scanning, amateur radio; listeners of all ages and levels of experience; all are invited to participate. The ODXA is looking for essays on the following topic: "Radio in my life." They want to know about the importance of radio to you, how it has contributed to your life, why you love radio, etc. They want you to share your emotions and passions with other radio listeners around the world. Length: up to 1000 words (approximately 4500 characters in computer word processor file). All essays will be published in a booklet to be available at Radio Fest 99 (see the Calendar of Events for further information), September 24-25 in Oakville, Canada. All entrants will receive a complimentary copy of the booklet. Copies will also be made available to other radio clubs, publications and international radio stations, as chosen by the Ontario DX Association. Prizes: first prize will be a portable shortwave radio; four runner-up prizes will be awarded and will be the winner's choice of the 2000 Passport to World Band Radio or the World Radio TV Handbook 2000 edition. There is no charge or fee to enter. The contest is open to anyone, anywhere in the world. Entries must be submitted by e-mail or by printed copy. Printed copy must be typewritten. All entries become the property of Ontario DX Association. Essays must be received no later than September 1, 1999. E-mail to: dxontario@compuserve.com or mail to: Ontario DX Association, P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada. Good luck!

ANARC SWL Ham Net

Dave Kirby and Al Quaglieri, net controls for The ANARC SWL Ham Net, have announced that the net has gone on summer hiatus. Check-ins have been down for some time, and Dave and Al felt that they weren't likely to pick up during the summer. In the mean time, you can find many of the regulars from the net on IRC chat channel #swl. Dave and Al hope to bring the net back in September or October. Watch <<http://www.n1dk.com/>> for more information.

Also from the ODXA is word of a new location for their Internet web site at: <http://www.odxa.on.ca>. You will be able to find the usual features at this new, convenience simple address.

Speaking of new Internet web site locations, Ludo Maes informs us that his Transmitter Documentation Project has a new e-mail address and URL. You can reach him at E-mail info@transmitter.org or on the web at <http://www.transmitter.org>.

Next month is the annual **Adventist World Radio DX Contest**. This year's topic is the "World's Largest QSL Collections." This annual event is part of the Wavescan DX program. They are also asking the question, "What is your longest wait to receive a QSL?" It is not necessary to own a large QSL collection to enter this contest. If you have one QSL, you may enter. The winner will receive the 1999 Bronze Medallion and a copy of Jerry Berg's new book, *On The Shortwaves*. All entries must be postmarked in Septem-

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.

ber, 1999. Part A of the contest requires counting your QSL collection and supplying the number of verifications. Part B asks for your longest wait and from what station to receive a particular QSL. Part C asks you to submit 3 radio cards while Part D asks you to submit at least one reception report on an AWR transmission. A full information sheet

is available from AWR International Relations, Box 29235, Indianapolis, IN 46229 for a self-addressed, stamped envelope.

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



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.

Maryanne Kehoe atlsvo@webtv.net, Atlanta, Georgia

ARE WE WELCOME? After this weekend, I am beginning to wonder.

In the course of my listening activities, I sent an email to a well-known SWL site op, asking some sincere questions regarding some problems I was having logging in to his site. He is someone that knows me as I know him, and I am in the habit of asking questions to clarify something that may be unclear to me at that moment.

The email came back titled "Dear Sir or Madam". At first I thought it was one of the many spams that I get on a daily basis, but upon further examination, it was the site op's response, albeit in a very condescending tone, in response to the questions I had.

This is a topic that comes up from time to time amongst those of us female SWL's that are active and out there. There are not many of us around. In fact, a friend of mine and I tried to name 10 prominent female SWL and DX'ers—with the goal of reaching #10. Both of us couldn't. We got stuck somewhere between 6-8 folks. Then the topic started to drift to some of the attitudes we have encountered in the course of our DX activities—some subtle, some not too subtle, some that you can't mention in a family publication.

Now, I am not talking about a guy that has one too many in the hospitality room at Winterfest and starts mouthing off about something or another. That is to be expected. What I am referring to are some DX'ers, who by their demeanor, body language, or electronic communication, are telling us ladies: "you aren't welcome here."

Calendar Of Events

Aug 7 Meeting. ASWLC. 12 noon to 4 pm, 16182 Ballad Lane, Huntington Beach CA 92649. For further information, contact Stewart MacKenzie WDX6AA at (714) 846-1685 or wdx6aa@aol.com.

Aug 20 Meeting. Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831.

Aug 20 Meeting. Boston Area NASWA Chapter. The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <<http://www.anarc.org/naswa/badx/>>.

Sep'99 Convention. NRC Annual Convention will be held September 3-6, 1999 at the Holiday Inn in Bridgeport, WV (100 Lodgeville Road, Bridgeport, WV); call 304-842-4635 for reservations (\$70.85 per room if made before August 13th). Registration fee is \$35.00 prior to August 1st and \$40.00 thereafter. Send registration fee to William Swiger, One Casey Lane, Bridgeport, WV 26330 (304-842-4635).

Sep 10 Meeting. The Tidewater SWL's meet at 6:30 PM. For more information plus meeting location contact Joe Buch at joseph.buch@dol.net

Sep 10 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 <innmcece@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmcece/monix.html>>

Sep'99 Convention. Ontario DX Association will hold Radio Fest 99 from September 24-26, 1999 at the Ramada Inn & Convention Center in Oakville, Ontario. Radio Fest 99 will look at "Where we have come from in radio's past", "Where we are today", and "Where are we going in the future". There will be exhibits from equipment suppliers; clubs; technology from yesterday, today and tomorrow; plus tables of used equipment for sale. Hotel reservation can be made direct with the Ramada Inn by telephone (905)849-5950, toll free 1-800-357-0880, Web www.ramada-oakville.com. A special rate of Cdn\$82 per night for Radio Fest 99 is available. Further information on Radio Fest can be found at: <<http://www.durhamradio.com/odxa/>>; or E-mail: odxa@compuserve.com, or by mail: Ontario DX Association, P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8, Canada.

Sep'99 Contest. AWR Contest. Largest QSL collections, long delays in receiving a QSL, and QSL cards from the old AWR unit in Africa. Details available for a SASE from AWR International Relations, Box 29235, Indianapolis, IN 46229.

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. 2000 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.

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).

It's happened to me—and without naming names, I am sure it has happened to some of our prominent female DX population at least once. We acknowledged that there is a "silent majority" that are probably active, but for whatever reason, do not show up in the publications, DX conventions, or are mentioned on the various SW stations or they take a look at the noise level (currently) on rec.radio.shortwave and decide to take a pass.

I have been active since 1971, and I think that there were 3 or 4 of us back then, and we all knew each other from Tom Meyer and "Happy Station". In fact, I still have the tape recording of the 1971 show, where Tom answered the first letter that I ever wrote to a radio program.

Fast forward to 1999 and I am asking, where are we? Granted, 99.9999% of DX'ers I have met have been nice people. But it is the other percentage that I am concerned about.

How are we to grow as a hobby community if we do not embrace all folks? If someone has a problem with the female part of the DX population (albeit however small we are), then I'd say that person or persons have a major problem that they need to work on—for the good of themselves, their families and the DX community in general.

We all need to work together—this hobby is facing some serious challenges in the next several years, and we need to keep ALL the hobbyists that we have, nurture and support them, without regard for their sex.

It's the right thing to do!

Harlan Seyfer SEYFERBI@PUBLIC.BTA.NET.CN, Beijing, China

I read with a great deal of interest John Figliozzi's article "A Turning Point for International Broadcasting?" and the sidebar "Who is the Audience?"

As an American who has lived a great deal of time outside the U.S., the past nine years in China, I am typical of a class of audience — the expat wanting to keep in touch with home and needing news without the local political spin.

There is a substantial foreign population in China that does not have access to international televised news services such as CNN. These include students, teachers, researchers, and multi-national company staff in remote locations. Even when routinely available services such as CNN can not be relied upon to be there when needed. All CNN broadcasts in China were shut down "for maintenance" several days before and after the tenth anniversary of the June Fourth Tiananmen crackdown.

When timely news is important only shortwave radio has been there. The Chinese government has only made the effort to jam broadcasts in local languages and dialects. Foreign language broadcasts, so far, have been left alone including the VOA.

So it was with particular interest that other expats and I listened to VOA, BBC, NHK, Radio Australia during the events of early May. As it turned out, things were OK as long as one exercised a small measure of common sense (stay close to home and especially avoid demonstrations in the embassy area). However, at the time that was not clear. There were rumors of foreigners being harassed and attacked. The vast majority of these were false. The international broadcasters kept us up to date and would have advised us to evacuate if the need arose.

German and French friends shared this situational concern and attention to shortwave radio in their languages.

A second shortwave broadcast audience the BBC and VOA obviously recognize is composed of English language learners. I know of one instance of a bachelor farmer from northern China, who learned spoken English through shortwave. He eventually sold his farm and moved to Beijing (illegally, but that's another chapter) where he learned to read and write English. He now works for an international agricultural agency and has traveled outside China. I can also name a university student who upon graduation returned to his isolated village as a teacher. When I met him again five years later, his English had actually improved through listening to a variety of international shortwave broadcasters. Granted his version is a charming mix of accents and idioms.

Who is the audience? It could be the first group, whose safety and possibly their lives may depend on shortwave. It could be the second, whose lives have been altered for the better through shortwave and who, incidentally, are more receptive to, if not in 100% agreement with, Western views.

John A. Figliozzi <jfiglio1@nycap.rr.com>

I very much appreciate Harlan's thoughtful comments on this subject. His more specific descriptions of the shortwave audience are well taken and most correct. Harlan might be pleased to hear that my discussions with international broadcasters in preparation for the subject article did reveal an overall understanding on their part that the audience segments Harlan describes are (1) important to the station and (2) still largely dependent on shortwave for access. Furthermore, there appears to be an appreciation on the part of the broadcaster of the fact that their broadcasts are often vital to the well being of listeners situated as Harlan describes. It is for this reason that most broadcasters view and will continue to view shortwave as the primary medium of delivery for some time to come.

There is also pressure for broadcasters to expand audiences and use new technologies that may let them do so. The above acknowledgements of the broadcasters notwithstanding, this pressure combined with growing financial pressures means that something has got to give. The fear on the part of some (broadcasters *and* listeners) is that the drive for "new audiences" will cause them to shortchange or forget their old ones.

I did not mean to ignore the importance of this audience either. My intention with the sidebar was to point out to the reader that stations no longer feel the need, or have the financial flexibility, to "tolerate" the hobbyist listener if the latter's only interest is in the hobby aspects of shortwave listening.

Again, Harlan, thanks for the enlightenment and the opportunity to discuss this topic further.

Membership Questions?

If you have any questions concerning your membership, renewals, change of address, etc please contact Bill Oliver by postal mail (45 Wildflower Road, Levittown, PA 19057) or e-mail (boliver@bboard.com).

Easy Listening

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Celebrity Events and World News

Over the weekend of July 17th, news programming in the USA was nearly one hundred percent devoted to the John F. Kennedy Jr. airplane crash. The major TV news networks maintained a steady vigil, even in light of relatively few developments as the weekend ensued. It was difficult to find out about other newsworthy events. By comparison, on Monday's 1100 UTC edition of *Newsdesk* on the **BBC World Service**, the Kennedy story was the fifth story aired. This difference in emphasis provided a very convenient opportunity to "evangelize" about shortwave to non-listeners, as my informal, nonscientific survey indicated most Americans felt the Kennedy coverage unnecessarily dominated the airwaves. Please don't construe this as a dig on the Kennedy family, as the untimely deaths of so many of its members truly is a tragic story.

Spirituality and Religion

Religion is a topic that can stir up plenty of debate when considering the current state of affairs for shortwave listeners. While you can find plenty of choices for evangelistic programs from various denominations, ministries, and faiths, finding programs *about* religion and personal spirituality is much more difficult. Here are a few suggestions from the online *swprograms* discussion group.:

Tapestry, produced by the Canadian Broadcasting Corporation and broadcast on **Radio Canada International** Mondays UT at 0205 is one of the best offerings. *Tapestry* focuses on major religious and spiritual themes, exploring the spiritual journeys of individuals with an emphasis on the Canadian experience. The hour-long program pre-

sents in-depth documentaries, discussions, interviews and commentaries prepared by CBC producers and freelance radio documentary makers from around Canada. August topics include "Religion and Revival in Russia", on August 8; "To Be A Pilgrim / Temperance", August 15th; "Mindful Parenting", August 22nd, and "Haunted House, Haunted Mind", August 29th. These are repeat broadcasts, as the program is on summer hiatus until September. (CBC website)

The Spirit of Things is produced by Australia's **Radio National** and airs on **Radio Australia**. Rachel Kohn, a widely recognized academic expert on comparative religions hosts; *The Spirit of Things* is about the spirit that animates the material world and the world of meaning, focusing on what has conventionally been called "religious" as well as spiritualities which find expressions in indigenous, new age and nature religions. *The Spirit of Things* answers the question: how do we find, locate, express, implement, defend and explain spiritual meaning as we near the end of the millennium. (ABC website)

New Dimensions is produced by the New Dimensions organization in California, and was reviewed in this space a few months ago. **Radio for Peace International** airs the program Mondays 2230 and Tuesdays 0630 UTC; **Radio Australia** airs the program Saturdays 1405 and Sundays 1705 UTC.

The Religion Report is produced by Australia's **Radio National** and airs on **Radio Australia**, as reviewed a few months ago, Wednesdays 0030, 1030, 1530 and 2130 UTC. The 1530 UT airing is available on demand at the World Radio Network website for 24 hours.

Focus on Faith is the BBC World Service's long-running entry in this category, but tends to focus on world religions, more so than the personal spirituality explored by most of the programs listed above. *Focus on Faith* airs Fridays to the Americas at 0430 and 1130 UTC.

Other Program Tips

Correspondence has generally been quiet over the summer months. Following up on last month's discussion of news programming, I received a post card from NASWAN Rick Sitz of Bradenton, Florida expressing his preference for Deutsche Welle's *Newslink* as an unbiased source for European current affairs.

Radio Australia

One of the more unusual listener contact programs is Radio Australia's *Feedback* program. While much of the program is the usual reading of listener questions and comments, there are also additional segments on English language usage and the spoken word in general. A recent edition featured a look at differences between boys' and girls' first names—not exactly what you'd expect in a mailbag program. Roger Broadbent hosts.

Voice of America

The advent of Internet-delivered audio has helped American audiences hear more of Voice Of America programming. *Talk to America* is a weekday hour-long program interviewing a single guest and soliciting questions via phone, fax, and the Internet. *Talk to America* addresses the widest possible range of topics: from Capitol Hill to the Grand Ole Opry, from surviving AIDS to harnessing solar energy, from renowned authors to sports stars. Late July topics included "Children in Stressed Communities", "Michael Jordan and the New Global Capitalism", "Global Business and the Internet", "Employing People with Disabilities", and "Hate Crimes." Americans can only be voyeurs, though: questions are only accepted from non-Americans, though I suppose that if one didn't identify their nationality or location in an E-mailed question, there would be no way to screen that question out. The

program airs at 1700 UTC just after the news, and the Africa-directed frequencies of 15410, 15445, and 17895 kHz are probably the best candidates for American shortwave audiences; a 24-hour Internet audio archive is maintained at the VOA website (<http://www.voa.gov>).

Radio Netherlands

The planned *Documentary* series for August is *Wake of Half Moon*, a three-part series presented by David Swatling on the Dutch colonization efforts in New Amsterdam following the explorer Henry Hudson's voyages on the *Half Moon*. *Documentary* airs to North America Fridays at 2353, and Thursdays at 0053 and 0453 UTC. This series originally aired last fall on the program *Aural Tapes-try*. (*On Target*)

BBC World Service Highlights

The BBC has chosen a new Director General, Greg Dyke, who comes from the UK's private broadcasting industry. There have been recent concerns that the BBC's emphasis on new technologies have taken resources away from program production, with the loss of the German language service as the most recent example. Mr. Dyke appears to be favorably disposed producing programs, versus technology, in reading between the lines. While those in the BBC's radio services were initially positive on Mr. Dyke's appointment, it appears the BBC's television services will likely consume most of Mr. Dyke's initial attention.

Meanwhile, August World Service highlights include:

News and Current Affairs

Saturdays, 0430, beginning August 7th: *Lives and Times* fills the *People and Politics* timeslot with a six-part, 30-minute series of modern day British experiences and attitudes from various regions around the country. Each of the first five editions profiles a single family, with a summary edition wrapping the series up. Hosted by Vera Frankl (haven't heard that name in a while!). Repeated Saturdays 1130.

Weekdays, 1205 and 2305: Talk about plum assignments—Heather Payton takes *Outlook* on the road to Tahiti, looking at modern Tahitian life and the future of French Polynesia.

Sundays, beginning August 22nd, 1405: *Matter For Debate* fills the *Talking Point* timeslot with a six-week series of debates on ethical dilemmas, with two protagonists' views supplemented with listener contributions and interviews with people who have faced the issues under debate. Julia Neuberger hosts; August topics include armed struggle and legalized prostitution. E-mail questions to matterfordebate@bbc.co.uk.

General Features

Tuesdays through Saturdays, 0055: *My Century* themes for August include *Survivors*, from people who endured the Holocaust and Hiroshima; *Working the Land*, about agricultural developments during this century; *Left for Posterity*, about memorials to the dead and their future legacy; *Things Fall Apart*, about governmental instability and revolution during the century. Thirty-minute weekly compilations are Saturdays 0530 and Mondays 0030.

Wednesdays, 0330, beginning August 4th: *Back From the Edge* is a six-part, 15-minute series with first person accounts of near-death experiences. Each storyteller talks about the way their lives have changed since their experience, and about the inner strengths they discovered along the way. People from India, Iran, South Africa, and the USA are featured.

Tuesdays, 0330, until August 17th: *Do You Believe In...?* completes its look at paranormal phenomena.

Tuesdays, 0430, beginning August 3rd: *Block On Block* is a new, six-part, 30-minute series on architecture and civil engineering projects. Stadiums, bridges, domes, tunnels, and the Shanghai World Financial Centre—soon to be the world's tallest building—are featured.

Wednesdays, 0430, August 4th through 18th: *Spinning Yarns* is a three-part, 30-minute series on the history of natural fibers. Stinging wool, cotton, and silk are all detailed.

Wednesdays, 0430, beginning August 25th: *Car Stories* is a new four-part, 30-minute series of documentaries on the ways automobiles reflect society, from Nigeria to Moscow. The first two editions feature the status of the Peugeot in Nigeria, and how a minicar fares in the UK. Repeated Mondays 1730.

Tuesdays, 0330, beginning August 24th: *Dreamtime Dreams* is a new, ten-part, 15-minute series looking at dreams and visions and their interpretation. These visionary stories are taken from various cultures; the first two are from Australia ("Aboriginal Land") and Egypt ("The Visions of Isis").

Saturdays, 0330, beginning August 28th: *From Where I Stand* is a six-part 15-minute series featuring audio diaries from British people. People from all walks give a mix of personal views and life experiences during a typical day. Repeated Mondays 1730.

Thursdays, 1130, beginning August 12th: *Future Perfect* is a six-part 30-minute program profiling "think tank" organizations engaged in futurist thinking. Alvin Toffler, Nobel Prize winner Merry Gell-Mann, and the Institute for the Future in California's Silicon Valley are program subjects. *Assignment*, on summer break, normally fills this timeslot.

Classical Music

The *BBC Proms '99* season is in full swing, with the following concerts likely to be audible in North America:

Sunday, August 8th, 0315: Bartok, *Concerto for Orchestra*

Tuesday, August 10th, 0305: Poulenc, *Les Biches*; Bizet, selections from *The Pearl Fishers*

Wednesday, August 11th, 0305: Bernstein, *Wonderful Town*

Saturday, August 14th, 0315: Nielsen, *Symphony No. 4*

Friday, August 20th, 0305: Duke Ellington, *A Centenary Celebration*

Sunday, August 22nd, 0305: Mozart, *The Marriage of Figaro — Overture*; Ravel, *Le Tombeau De Couperin*; Matthews, *Symphony No. 5*

Saturday, August 28th, 0301: Durante, *Concerto No. 4, e minor*; Vivaldi, *Filiae Maestae Jerusalem*; Wassenaer, *Concerto No. 4, f minor*; Pergolesi, *Stabat Mater*

Drama and the Arts

Saturdays, 2230: *Play of the Week* offerings: August 7, *The Lady Vanishes*: A new adaptation of Alfred Hitchcock's comedy thriller. August 14 and 21 (two parts), *Broken Glass*: Arthur Miller's play about neurosis set in prewar Nazi Germany.

August 28, *The Sorrows of Young Werther*: Goethe's classic story about unrequited love.

Thursdays, 0130: *Meridian Live* will be emphasizing the Edinburgh Festival in August, celebrating Scottish history and culture in one of my favorite travel destinations. Also airs Wednesdays 1430.

Tuesdays-Saturdays, 0345: *Off The Shelf* will be hit-and-miss this month, due to the Proms concerts. From August 12th through September 9th, Brian Cox will be reading *Memed My Hawk* by Yasher Kamal of Turkey.

Light Entertainment

Sundays, beginning August 29th, 2230: *Brain of Britain 1999* begins a new 17-part series.

Science, the Environment, Technology

Tuesday, August 10th, 1405: *Discovery*, the regular weekly science documentary, will be extensively covering the August 11th solar eclipse. The southwest corner of England will be in the path of the eclipse. Repeated Wednesday 0030.

Sundays, 0030, beginning August 15th: *Science Extra: Green Champions* is a six-part 15-minute series exploring the largest, oldest, and tallest plant species. Repeated Mondays 1515. *Science Feedback* airs on August 8th; *Seeing Stars* will air on September 5th.

Friday, August 20th, 0030: *The Works* sees how Brazil is faring in its Y2K preparations.

Sunday, 0045, August 22nd: *Waveguide* looks specifically at radio programming for children; are they listening to radio in this age of television, video, and computer? Richard Lambley investigates developments in the UK, the USA, and elsewhere.

Popular Music

Thursdays, 0530 and 2230: *Hot New Country* is a new series on the latest and greatest country music imported from Nashville to Bush House by Nick Barraclough.

Internet Note: Domestic Radio 4 News Programs

It's more difficult nowadays to get much domestic UK news from the World Service, but there are several BBC Radio 4 daily news programs now available for on-demand download via the Web. Obviously, many of the current events stories will be quite similar to World Service content, but the domestic angles may prove to be an interesting perspective. *Today*, *The World At One, PM*, and *The World Tonight* are daily Radio 4 features; weekend programs include *The World This Weekend* and *Broadcasting House*. You can find these all at the URL http://news.bbc.co.uk/hi/english/on_air/default.htm

Internet Mailing List on Short-wave Programming

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

Until next month,

73 DE Richard



Shortwave Center

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Material Needed for Shortwave Center

Thanks to our contributors we have had a goodly supply of material for Shortwave Center over the past few months. However, material on hand is getting a little thin and I have not received anything new in a while. Therefore, ye editor is putting out the call.

Now is the time for all good DXers to come to the aid of the Journal. If you have material appropriate for SWC or have been putting off writing that article, do it now and forward to me. The Journal is only as good as the contributions you send in. Thanks.

Murman Follow-up

Jim Young sent the following note to follow-up the printing of the GTRK Murman QSL article in the July Journal. "Since I sent the article to you, Mr. D. Perederiy, the Chairman of GTRK, wrote me an e-mail message requesting I provide the station with some 'blank' QSL cards like I made for my own

verification. I am in the process of negotiating exactly what he wants, how many, and the exact wording. I will do a reasonable number for him, if he agrees to verify future acceptable reception reports from SWLs worldwide."

35 Years Ago—The Beginnings: A Retrospective on ANARC's Early Years

By Richard A. D'Angelo

It's been thirty-five years since the founding of the Association of North American Radio Clubs-ANARC. While rummaging through ANARC's archives during my tenure as Chairman of the Executive Board, I came across some early letters written by one of ANARC's founding fathers, Don Jensen. I found that the early, formative days of the association made fascinating reading which, I hope, others might enjoy reading too. Many of the problems that plagued ANARC in the past have their roots in the 1960's. History repeats itself and provides an interesting opportunity to learn. So, to help celebrate ANARC's thirty-five years of continuous

service to the hobby community, I have written this retrospective based on Don's writings. With that in mind, I hope you will enjoy reading about this slice of hobby history.

On February 10, 1964, Don Jensen (acting Executive Secretary) wrote a letter to various club officers concerning the formation of an association of DX clubs. Quoting from the opening portion of Don's Letter:

"The time has come for the long discussed alliance of the North American DX clubs to begin to actually take shape. Many club officials and individual DXers have discussed the advantages of such a group on this continent patterned after the successful

"DXAlliasen" of the Swedish clubs. The advantages of such a federation of DXing clubs in the area of interchange of information, setting of standards, and speaking to the world with one voice seem obvious if the clubs get behind this effort and contribute their full cooperation."

"First, to still any initial fears, I must point out that the alliance is not an attempt to replace any of the existing clubs with a sort of "Super-Club." This proposal to form the alliance is a move toward strengthening of each individual club, large or small, through mutual co-operation."

"I have volunteered my services as acting Executive Secretary of the alliance to help get it "off the ground." I emphasize the "acting" designation since in due course an elected leader will be chosen to replace me in accord with normal democratic procedures. However, someone must take the first steps. Several persons in the DX hobby have already pledged their support in the initial phases, including Hank Bennett, editor of the Popular Electronics short wave sections, one of the proponents of the alliance of North American clubs. I would like to point out that though we hope to receive assistance in the way of publicity from Popular Electronics, we are in no sense a "child" of this magazine. This federation will be an autonomous group co-operating with all magazines and news media."

The letter went on to summarize some of the possible provisions the new alliance's constitution should include and solicited comments from the clubs. It was envisioned that Don would remain acting secretary for about six months after approval of a constitution, at which time the representatives would elect an Executive Secretary to a two-year term. Some of the early examples of action the alliance might undertake included a survey of various problems besetting the DX hobby, a program to interest new DXers, setting of verification standards, country lists, etc. Individual DXers may submit a letter for consideration through a club representative. In closing, acting Executive Secretary Jensen

suggested that clubs (1) determine if they would be joining the alliance, (2) appoint a representative, and (3) submit any suggestions in connection with the proposed constitution or any other aspect of the alliance. The alliance was filled with great promise as can be gathered from Don's closing remarks:

"I have great faith that the alliance can help to correct many of the problems a number of clubs and the hobby in general are facing today. I hope that all clubs in North America will participate. The idea of this federation is to work for this in the most democratic way possible. Thanks."

And so ended the first official effort at forming a North American alliance of radio clubs. By early March 1964, acting Executive Secretary Don Jensen had a pretty good idea that the proposed alliance of North American Radio clubs would get off the ground. A number of clubs had already indicated they were willing to participate and had appointed representatives. A reminder was sent out to those clubs that had not responded in the first 30 days and additional clubs were contacted. On April 1, 1964, the association's first constitution was ready for discussion. Quoting from acting Executive Secretary Jensen: "We are now ready to take the second big step in the formation of a continent-wide league of radio clubs." Up to this point, at least 10 clubs, including all the important ones of the day, indicated an interest in participating. A number of favorable comments and offers of assistance were received from European clubs. The first constitution tried to be sufficiently specific to provide definite guidance toward common goals, but not too restrictive that it would penalize either the large or small clubs. The goal of the constitution was to create a federation of sovereign clubs, not a "super club." On April 20, 1964, the results of the balloting were announced. The constitution, which was voted on article by article and section by section within each article, was overwhelmingly approved. Twelve sections were approved unanimously while the other four sections were approved by either 10-1 or 9-2 votes. Acting Executive Secretary Jensen proudly proclaimed: ". . . I'm

pleased to announce that a majority vote was received for each article and section, hence the Association of North American Radio Clubs, (A.N.A.R.C.) is now formally organized." In accordance with previous decisions, Jensen's acting Executive Secretary term began on April 20th and continued for six months. The following eleven clubs were the charter members of the new association:

- ▷ American Shortwave Listeners Club
- ▷ Canadian DX Club
- ▷ Canadian International DX Club
- ▷ Folcroft Radio Club
- ▷ Great Lakes Shortwave DX Club
- ▷ Kentucky DXers Association
- ▷ National Radio Club, Inc.
- ▷ Newark News Radio Club
- ▷ North American Shortwave Assoc.
- ▷ Shortwave Listener's—Certificate Hunters Club
- ▷ Worldwide Monitors Radio Club

Four of the charter member clubs still belong to the association in one form or another. Among the charter members that still operate under their original names are: Canadian International DX Club and the North American Shortwave Association. The Worldwide Monitors Radio Club became the Worldwide TV-FM DX Association in the late 1960's. Finally, the National Radio Club, Inc., changed its name to the current International Radio Club of America. The American Shortwave Listeners Club recently closed its doors. The Newark News Radio Club passed on in the early 1980's with many of its former members founding the Association of DX Reporters, which subsequently passed away in the 1990's.

The first two proposals requiring a vote of the club representatives to ANARC were

"Proposal 1—That the fee for each member club of ANARC will be \$2 (US) per representative, to be paid by the club. This fee for the first year of operation will be used to cover postal, stationary, etc. costs. Any surplus at the end of a year's time will be carried over to the following year. According to this schedule, clubs with one representative will pay \$2, clubs with two representatives will pay \$4, clubs with three representatives will pay \$6. The number of club representatives depended on the number of members in the club. Proposal 2—that ANARC sponsor a permanent hall of fame to which outstanding persons in the radio listening field could be named, in a similar manner to the well-known baseball hall of fame. The proposal suggests a committee of 8-10 be chosen to receive nominations, from these committee members a decision will be made to select those individuals to the Hall of Fame, with announcement of recipients once a year on January 1. The suggestion continues, 4 or 5 selections the first year, thereafter, 2 per year. Members so honored could be listeners, broadcasting personalities, editors, writers in the radio field, etc. Further details to be worked out by the committee." With a constitution approved and some business proposals on the table, the new association was off and running.

In May, 1964, some bad news surfaced. The Shortwave Listeners—Certificate Hunters Club withdrew from ANARC. Club representative Gary Hammond apologized for the decision, but it was necessary in light of communications from its parent group in California that it should not "subordinate" itself to another group. The proposal concerning the establishment of fees passed without opposition. The proposal concerning the Hall of Fame, was a mixed bag with six yes votes, three no votes and two club representatives being completely indifferent to the plan. Most of the negative votes felt it was premature and there were other more pressing problems to tackle first. It was determined that the narrow vote did not indicate enough general support for the project so a committee was not appointed at this time.

In late April, the Benelux DX Club sent a communication to all major clubs and organizations in the world about establishing a program designed to move shortwave stations which were not currently issuing QSL cards, to verify reports from listeners. It was hoped a survey of station's that are not verifying would help DXers in selecting stations to send reports to. ANARC's third proposal was to send a communication to the Benelux DX Club in support of their plan to survey non-verifying stations. The next proposal concerned the establishment of a central clearinghouse for information about Courtesy Programs. It was hoped a coordinating committee, appointed by the Executive Secretary, would enable information about such courtesy programs to be spread to all ANARC member clubs. It was also hoped that the "special ANARC committee would arrange occasional courtesy programs for the benefit of all listeners featuring both BCB and SWBC stations.

The next area of focus was the subject of country lists. Many of the club representatives addressed this touchy subject in correspondence with acting Executive Secretary Jensen. Don thought more discussion was called for prior to taking a vote on the subject. He hoped the club representatives, "...won't become discouraged because we don't solve all the hobby's problems in a couple of months. As I see it, the big problem now is for ANARC to gain stature in the eyes of the members of the DXing fraternity. We can try to gain stature by concentrating now on mainly service projects, such as proposals 3 and 4, those ideas are within immediate practicality, or we can plow right into the major controversies that have plagued the hobby for years. I hope we can prove we have something real and worthwhile to offer and grow in strength before we tackle all the major problems at once."

By late June, the National Radio Club was welcomed to the association. Their club representative was Ray Edge. Apparently the American Shortwave Listeners Club (ASWLC) Board of Directors never autho-

rized the spokesman that said the club would join ANARC. One member of the club accused ANARC of "skullduggery" to coerce the ASWLC to join. The club was undergoing a reorganization and more news was expected to arrive in the coming months. The National Radio Club, Inc., of Denver, Colorado, changed its name to the International Radio Club of America. Its growing membership was now above the 100 mark.

The Folcroft Radio Club of Folcroft, Pennsylvania, merged with a group known as DX Inter-Nationale, of Newton, Massachusetts. Proposals three and four each passed with 12 yes votes and no nay votes. As a result, a letter was sent to the Benelux DX Club in support of the plan to survey the non-verifying stations as outlined in the proposal. The club representatives were encouraged to have their bulletins publish information about this activity so members of the various clubs could participate. Acting Executive Secretary Don Jensen was busy looking for an individual to serve as chairman of a committee to handle the details of compiling data on courtesy programs during the coming year. One of the club representatives suggested that the ANARC clubs exchange bulletins, which would promote goodwill, friendship and closer ties between member clubs. It was further proposed that ANARC headquarters be furnished a copy of each club's bulletin. Instead of putting this to a vote, Don suggested voluntary compliance was the best course of action.

The issue of adopting an ANARC country list was put into proposal form: "Proposal 5—(a) ANARC should adopt a country list. Yes or No. If you vote yes, vote for either (b) or (c). (b) ANARC should adopt the following list as its standard, NNRC, ARRL, Other. (c) ANARC should adopt a list, however, the Exec. Sec. is empowered to select a committee of three persons. This committee would determine the list to be used by either adopting some existing list, creating a new list, or a combination of both. this committee would be delegated to maintain a current list and interpret it in good conscience."

In closing June's business, it was suggested that the club representatives may want to consider drafting some sort of code of ethics or set of precepts, which would be printed by the clubs. The summer of 1964 saw a decrease in activity by club representatives. August's letter saw a divided vote on establishing an ANARC country list. There were 4 votes for adopting no list at all, 4 votes for adopting the NNRC list, 3 votes for establishing a committee to develop an independent list, and 1 vote for accepting the ARRL country list. As provided for in the association's constitution, acting Executive Secretary Jensen cast the tie-breaking vote for not adopting a country list. He felt the great differences of opinion made the project not worthy of consideration at this time.

Two more clubs decided to affiliate with ANARC. A change in policy at the American Shortwave Listeners Club II (ASWLCII), newly reorganized by Gerry Klinck, brought ASWLCII into the association. The American Central Radio Club, under the direction of Richard Wood, also affiliated itself with ANARC. The International Radio Club of America (IRCA) sent word that membership was now 127. Letters from individuals seeking information about clubs were coming into headquarters as a result of an article in Radio-TV Experimenter. This steady flow of such requests eventually resulted in the development of the first club list. Bill Wilson of San Mateo, California, was appointed to set up a system to coordinate information on scheduled courtesy programs. Bill was the courtesy program chairman for the IRCA. ANARC fees were slowly coming in with NASA, DCXC, CIDXC, NNRC, Great Lakes Shortwave Club, NRC, and Worldwide Radio Monitors recently paying. The club representatives were informed about a possible courtesy program from Radio Gambia on 4820 kHz. It was too early to be certain of the details, but it looked promising. Some of the smaller clubs were interested in ANARC printing their bulletins as a service. Unfortunately, the association was not in a position to offer this service.

Acting Executive Secretary Jensen informed club representatives that his term would end on October 15, 1964, and an election was

necessary for the two-year post of Executive Secretary. He hoped that the association could be turned over to some new blood to keep the organization moving forward. The NNRC proposed allowing more time to consider proposals. The current policy was just 30 days. The NNRC proposed a 90-day period. Don suggested that the club representatives may want to consider a 60-day period also. A supplemental letter issued only six days later told the representatives that they could keep the 30-day period if they so desired. In September, 1994, the results of balloting showed 5 votes to lengthen the period for club representatives to consider proposals to 90 days, 2 votes to lengthen the period to 60 days, and 8 votes to keep it at 30 days. Basically, most felt keeping things moving was in the best interest of ANARC.

Fred Woodley, the Canadian DX Club representative proposed an ANARC sponsored annual award to go to the person who is outstanding in the hobby of DXing. The project was viewed as simpler and more workable than the Hall of Fame project proposed earlier in the year. CDXC offered to donate a plaque, which would be engraved with each winner's name. One of the proposed names was "Outstanding North American DXer of the Year."

The topic of an Executive Secretary election was heating up. Only Gerry Klinck, the new executive editor of ASWLCII had been proposed to run for the position. As a result of a number of representatives asking the acting Executive Secretary to reconsider his prior position, Don Jensen agreed to stand for election to provide the clubs with a choice during the first Executive Secretary election. Dick England, of the Worldwide Monitors Radio Club, was appointed ballot clerk for the election. C.M. Stanbury II, writing in the ASWLCII bulletin, was very positive about the potential of ANARC, but expressed some concerns about the club representatives not actually representing their memberships unless they canvass their memberships prior to each vote. According to Stan, too many DX clubs are the creatures of one man or a small group, which did not provide members with an opportunity to be heard. He feared the formation of a "super dictatorship."

The Denver based International Radio Club of America continued its growth by reporting 159 members. Under the association's voting structure, they were now entitled to an additional representative. All clubs except DX InterNationale had paid their dues. A few of the representatives suggested getting together for a face to face meeting to discuss ANARC business. Closing out the month's business, Don Jensen noted a number of subtle changes taking place in the hobby. Clubs that have had little contact previously are now running features and news items about other clubs. There has been greater interest in exchanging bulletins among the clubs. There seems to be less interest in petty, jealous arguments that previously dominated the hobby scene. While not claiming ANARC was responsible for all the progress, Don felt the association deserved some credit for the positive changes unfolding.

In October, 1964, ballot clerk Dick England reported the results of the first Executive Secretary election. With 12 votes, Don Jensen became the first elected Executive Secretary of ANARC. Gerry Klinck received two votes and was immediately asked by Don to furnish his thoughts and concerns about the problems of the hobby as the association moves along. The "Man of the Year" award was approved by a 7-5 tally. It was pointed out that three of the nay votes didn't like the idea of a traveling trophy. Therefore, a certificate was proposed to be added which the winner would keep. Each club was asked to begin the nomination process within their respective clubs for this award. A committee of experts would determine the winners based on the documentation submitted. The club representatives were asked not to exceed three pages in support of each candidate. A special transmission over Radio Gambiã was scheduled for December 15, 1964, at 2015 GMT. Wide publicity was being received for this event which was giving ANARC considerable recognition in the hobby community. The exchange of information about courtesy programs fell through for this season. The smaller clubs appeared uninterested in participating even though they would have been the big winners in this exchange! One club

refused to participate because of the individual selected as the committee chairman!!

Each month more and more people were writing to ANARC headquarters to receive information about the association and its member clubs. As a result, Don Jensen developed a listing of the clubs, which resulted in many new members for the clubs. Because it did not pay its annual fee and for not communicating with headquarters, DX InterNacionale was dropped from the association membership list in November, 1964. In December, a letter was received from Bill Wilson, president of DX InterNacionale, which stated that the club had officially voted not to affiliate with ANARC. Apparently a referendum of the membership ended in a tie vote which was broken by the executive body of that club.

Each month, the club representatives were being asked to begin working on their DXer of the Year award nominations, which were due on February 1, 1965. The American Shortwave Listeners Club II passed the 150 member mark, which gave them an additional club representative. The newly appointed representative was Bill Sparks of San Francisco. December saw a flurry of business activity. First, C.M. Stanbury proposed an amendment to the ANARC Constitution which would require each club to hold a referendum putting the question of standards or ethics before their membership before any proposal to be addressed by ANARC could be voted upon. Stan felt it was inappropriate for a handful of people who control the clubs and publish the bulletins to establish the standards for the hobby as a whole. As an amendment, it would require a two-thirds vote for passage.

Closely connected with Stan's proposal was a counter proposal, in the form of a resolution, by John Callarman. John's resolution would enable each individual club to decide if it wanted to adopt any standard of ethics ultimately developed by ANARC. As a resolution, it would only require a majority vote to pass.

(To be continued)



Listener's Library

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Here we are in the heat of summer and I've shifted into lazy mode. Leave it Rich D'Angelo to come to my rescue with some important words about a new service from the DSWCI.

Domestic Broadcasting Survey

Edited by Anker Petersen

Published by the Danish Shortwave
Club International

ISSN 0106-1968

Reviewed by Richard A. D'Angelo

For 26 years, the Danish Shortwave Club International ("DSWCI") published the very popular and well-respected Tropical Band Survey ("TBS"). Periodically, the club published a survey of home service stations broadcasting above the tropical band frequencies. After many years, the club has combined the two concepts for 1999. As a result, we now have the 1st edition of the new Domestic Broadcasting Survey ("DBS"). This marks twenty-seven years in a row that the DSWCI has published its annual survey of tropical band broadcasting stations. The DBS expands that prior effort by logically incorporating all domestic shortwave broadcasting operations. The project was headed by Anker Petersen, one of Europe's premier DX'ers and Chairman of the club, who has spearheaded this effort in recent years. The logical combination of the old TBS with the other domestic high frequency stations and the DSWCI's extensive monitoring activities make the new Domestic Broadcasting Survey essential material in every radio monitors listening post.

The club is one of the leading DX organizations in Europe. It has about 400 members in more than 40 countries all over the world. Since most of the clubs members were devoting their DX'ing to domestic broadcasting stations, not only those on the tropical

bands (120, 90, and 60 meter bands) but the higher shortwave bands as well, the club decided to expand its excellent TBS to the full spectrum of 2200 to 22000 kHz. The new DBS focuses on stations broadcasting to a domestic audience or relaying such broadcasts to expatriates abroad. Consequently, external services, clandestine stations, pirates, and harmonics were generally not included in the DBS. Nevertheless, you will find the DBS an important addition to the DX shack.

As in the past, the DSWCI bases the survey upon many official sources and DX bulletins. Each station frequency has been confirmed on the air at the time of publication by the clubs extensive array of worldwide monitors. Frequency usage is marked with an A, B, C or D to indicate "regular" or "sporadic" or "likely inactive" or "seasonal changes," respectively. Many frequencies that have not been heard in the last year have been deleted to keep the survey as current as possible.

The DBS is very easy to use. Historically, publications from the club have been extremely reliable and I would suspect that to be the case once again. The first column provides the reception code, A, B, C, or D as previously described. The second column lists the frequency. The third column provides the station transmitter output. The fourth column designates the broadcasting country utilizing the International Telecommunications Union ("ITU") country code abbreviations. For those not familiar with these abbreviations, a complete list of ITU country codes is given on page 43 of the DBS. The fifth column provides the station name and/or call letters and location. The final column provides transmission times and other useful information about the station such as operating schedules during Ramadan for Middle East and Indonesian stations. Also, the survey includes a listing of Indonesian prov-

inces and special districts, which is extremely useful for DX'ers with an interest in that part of shortwave broadcasting world. See the sample extracts from the DBS at the end of this review.


No shortwave listener should be without this excellent survey. Combining all tropical band station listings with domestic high frequency operations make the new DBS extremely useful. I can highly recommend it. Short-

wave listeners need resources such as the DBS in their shacks. The 44pages in A-4 size format DBS is sold by the clubs treasurer: DSWCI, c/o Bent Nielsen <bentndx@post.tele.dk>, Egekrogen 14, DK 3500 Vaerloese, Denmark for EUR 10, US\$12, DKK 75 or 14 International Reply Coupons ("IRC") per issue with airmail delivery. Cash notes are accepted.

Sample extracts from DBS:

A	3300	10	GTM	R Cultural, Guatemala City	0930-0630v in S exc. 0300-0430 (Su 2345-0430) in E
B	3305	10	PNG	R Western, Daru	Provincial Service 0700-1400 in E/ Pidgin E, also ID: "Voice of the Sunrise"
A	3306	100	ZWE	ZBC, Gweru	R 3: 0300-0600 2000-2200 in E, R4: MF 1630-2000, E nx 1800, "ZBC, Mbare Broadcasting Corporation", ck 5012
B	3310	-	BOL	R Moxochaki	r 0025-0102* in S/Quechoa or Aymara. New station in Apr 1999
A	3315	50	IND	AIR Bhopal A	Northern Sec: 0025-0215
A	3315	10	PNG	R Manus, Lorengau	11301741, E nx 1530 1730
A	3316	10	SRL	SLBS, Goderich	Provincial Service: 1900-2200 0700-1200 in Pidgin E, IDs as "Maus bilong Chauka". All Night during festivals.

B	6604	-	SOM	R Mogadishu	0558-2400, E nx 0700 0800 1900 2000 2200
A	6618.2	-	PRU	R Super Sensación, Huancabamba	Voice of the Masses of the Somali Rep: 0330-0500(Fr-0600) 1500(Fr 1600)-2000, In opposition to the President
B	6675.4	2	PRU	R Ondas del Río Marañón, Aramango	1000-1400 2200-0110v
B	6676	-	PRU	R Dif.Paratón,Huarmaca	0930-0100, ex 6520, n 6660
B	6689v	-	VTN	Lao Cai 2	1030-0030v, ex 6670.8 & 7205.6
A	6690.1	-	PRU	R Estdio DW, Naranjos	2200-2300 0400-0530 1000-1030 1200-1330 in Vietnamese & Vn
A	6725.6	0.3	PRU	R Satélite, Santa Cruz	// 5597, d 6650 - 6850

A	9875	25	VTN	National Network 1, Hanoi	1000-0345, sl.: "Estudio 2000"
A	9880	500	KWT	R Kuwait, Sulabiyah	1100-1200 2300-0300v, Alt fq 4781
B	9900	10	CAF	R Minureca, Bangui	2200-1600(Fr 1700) in Vietnamese // 4960 5925, ex 10060
A	9905	100	TJK	Tajik R, Yangi-Yul	Main px: 1315-2130 in A // 9855 UN Mission. Back here Mar 1999 testing in F/E/Sango. Ck 5900 9500
A	9910	250	IND	AIR Aligarh	TR 1: 0130-0430 1630-1800 in Tajik/Ru/Uzbek // 4635, ck 7515
A	9920	100	CHN	CNR 4	Domestic Feeder: 1530-1545 in E MS: 1000-1057 Korean // 8566
A	9930	-	VTN	National Network 1, Hanoi	1400-1500 in Vietnamese // 9875 jamming R Free Asia // 15470 

Digital Short-wave Broadcasting

The Quest Continues

Between August 1987 and March 1998 this column presented some basic theory associated with digital transmission via HF radio. The folks at Thomcast in France have an approach that differs somewhat from that used in recent VoA/JPL tests. This multi-part article is based upon Thomcast's description of their Skywave 2000 system and the design tradeoffs considered.

Requirements Definition

Here are some of the characteristics Thomcast engineers are addressing as they try to optimize the design of a digital modulation scheme:

- ▶ Ionospheric propagation with multiple reflections, Doppler effect and Doppler spreading in MW during night time and SW day and night time.
- ▶ Presence of interference and jamming, especially in the SW frequency bands, due to congestion in the frequency spectrum (multiple re-use of channels, receiver non linearity's and/or poor filtering characteristics, etc.).
- ▶ Improved reception quality (immunity to fading, to interference, constant quality, bandwidth utilization, optional stereo reception).
- ▶ Compatibility with existing AM services (channel-spacing, co-channel and adjacent channel interference),
- ▶ Necessity during a long transition time to continue to use already installed transmitters and antennas with minimal modifications.
- ▶ No significant increase in power consumption or peak transmission power.

- ▶ Compatibility with low cost and low power consumption AM receivers and available technology,
- ▶ No increase, and if possible a decrease, in receiver operating complexity. The new digital receiver should include automatic program searching, and, especially for short waves, automatic frequency changing to follow the program as frequencies are added and dropped.
- ▶ Improvement of reception quality (immunity to fading, bandwidth occupancy, optional stereo reception),
- ▶ Introduction of new data services Program Associated Data (PAD), or accessibility to radically new independent services such as document transmission, fixed images, personal data transmission,

Modulation Types and Selection Criteria

The first consideration in the design of a digital audio broadcasting system is the minimum bit rate which has to be transmitted in order to achieve a perceived quality at least as good as—and if possible better than—the present quality.

Many existing coders already provide a good quality at bit rates between typically 12 and 48 kilobits/second. The difference between the bit rates lies essentially in the transmitted audio bandwidth and the capability for stereo transmission.

Due to the poor quality and the instability of the transmission link, especially in the presence of fading and interference, some form of channel coding is mandatory to ensure integrity of the received binary stream. Details of the theory behind each coding tech-

nique are beyond this article, but it is sufficient to know that all coding schemes add extra bits to the data stream. The extra bits permit a properly equipped receiver to recognize a transmission error and then figure out what the correct transmission and automatically correct the error.

The best known channel coding systems use high diversity convolutional encoding (also called Trellis Coded Modulation, TCM) along with interleaving, to increase robustness to short term reductions of Signal to Noise Ratio (SNR). Interleaving is a process where the signal is broken up into discrete segments and the order rearranged. This technique is useful in minimizing the impact of burst interference like lightning discharges.

Reed-Solomon convolutional coding has been successfully employed on digital space circuits to minimize the amount of power devoted to the transmitter. Power is normally rationed aboard spacecraft and such techniques permit designers to reduce transmitter power levels by about 5dB. In other words they can get by with a 10 watt transmitter on a link that would otherwise require about 32 watts. Put into terms a short-wave transmitter engineer would relate to, coding permits a 32 kW transmitter to do the same job as a 100 kW transmitter without coding. Engineers may use this technique for SW broadcasting.

Modulation Schemes

There are two different modulation schemes, known as serial modulation and parallel modulation. Both have to convey a high bit rate in a very narrow channel. A very efficient modulation system in terms of the ratio of bits per symbol per Hertz of bandwidth is needed.

According to the Thomcast engineers, this requirement eliminates simple modulation schemes like QPSK (Quadriphase Phase Shift Keying), which have poor efficiency. (Note that the VoA/JPL tests have used PSK techniques. Resolution of these differences in approach is the job of the Digital Radio Mundial group which is attempting to arrive at the optimum transmission standard for all broadcasters to use.)

To comply with this constraint, multi-amplitude/multiphase systems have to be used, and more generally multi-level complex modulation known as QAM (Quadrature Amplitude Modulation), APSK (Amplitude/Phase Shift keying), etc... which can provide a much higher efficiency. I described the theory behind QAM in the Technical Topics column in the January 1998 issue of the NASWA Journal. You may want to review it before pressing on.

The first modulation scheme is serial using a single carrier modem. A complex symbol, represented by the amplitude of an in-phase carrier and a carrier shifted 90, is transmitted at each signaling interval. In the presence of multipath effects, the received signal is distorted as the individual states undergo unpredictable delay which can confuse the receiver demodulator. The receiver has to separate the smeared bits before demodulation by means of an equalizer. The complexity of the equalizer is proportional to the square of the delay spreading. When the channel is unstable (especially in the SW band), this complexity is increased because the equalizer must accurately estimate a rapidly changing multipath signal. In addition, the implementation of the equalizer (Decision Feedback Equalizer, DFE) suffers from the problem known as error propagation which arises when the binary output stream is not perfectly decoded and/or during deep fading.

The second modulation scheme uses parallel transmission. In this system the bit stream is separated into several streams that are routed on to adjacent subcarriers. For example, bits one through four are each routed to one of four different subcarriers. Then bit five goes to the same subcarrier that bit one went to, bit six goes to the same subcarrier as bit two and so forth. The receiver reassembles the original bit stream. This process is similar to DAB Eureka 147/COFDM which has been adopted for local broadcasting in Europe and Canada. We'll pick up on this theme and examine the advantages of this second approach next month.

Until then, stay tuned.



Listener's Notebook

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SPECIAL NOTE for those who lie awake at night worrying about such things: your exasperated editor officially throws up his hands re where to list stations relayed via other countries. As a rough rule, I'm trying to list skeds of relay providers (DTK, SENTECH, etc.) under the sites' terra firma; most other station relays will be listed under the name of the station's home country. I am apt to forget this rule in the rush to get this column done each month. So sue me.—AQ

AFGHANISTAN *Voice of Sharia* has returned to its old freq 7200, heard around 1620 to 1635; weak and covered by R. Japan (26-Jul/Vaghjee-MAU/Rev. of Int'l. Broadcasting/Hauser-OK)

ALBANIA *Radio Tirana* (1st program)

0300-0800 Albanian 6100
0800-1300 Albanian 9585
1700-2200 Albanian 6100

Radio Tirana (2nd program—music service)

1000-1500 Albanian 7150v
(BBCM)

Freq change of *TWR* in Polish via Cerrik: 0515-0530 NF 9779.8v strong co-ch R. San'a and RDP/R Portugal. (x9765v) //7385.1 via Shijak. (3-Jul/OB-SERVER-BUL/Ivanov/BC-DX/Bueschel-GER)

ARGENTINA

The usual quasi-UTE broadcast relays:

5400.0L *Radio Mitre* AM80, Buenos Aires, feeder 0800-0900 fair w/program "De la Noche a la Manana," several canned IDs. (3-Jul/TIN-JPN/Relampago DX)

5400.0L *Feeling FM*, Buenos Aires, 0955-1015 poor at 0955 news, then canned ID. (27-Jun/TIN-JPN/Relampago DX)

15820.0L *Radio Mitre* AM80, Buenos Aires, 1155-1201* fair w/sports, 1200 ID, suddenly off. (3-Jul/TIN-JPN/Relampago DX)

15820.0L *Feeling FM* 100.7, Buenos Aires, 1200-1230 w/canned ID "Transmite Feeling en frecuencia de 100.7 MHz, Buenos Aires, Argentina." (25-Jun/TIN-JPN/Relampago DX)

BELARUS *Radiostantsiya Belarus* External Service:

0100-0130	Belarusian	7210 11670
0130-0200	Belarusian	7210 11670 Tu-Sa
0130-0200	Russian	7210 11670 Su
0200-0230	Belarusian	7210 11670 Tu
0200-0230	English	7210 11670 Su/Mo/ We/Fr/Sa
0200-0230	German	7210 11670 Th
0230-0300	Belarusian	7210 11670 Tu-Sa

0230-0300	German	7210 11670 Su
0230-0300	Russian	7210 11670 Mo
0300-0500	Belarusian	7210 11670
1600-1700	Belarusian	7210 11960
1900-1930	Belarusian	7210 11960
1930-2000	Belarusian	7210 11960 Mo
1930-2000	English	7210 11960 Tu/Th
1930-2000	German	7210 11960 We/Sa/Su
1930-2000	Russian	7210 11960 Fr
2000-2030	Belarusian	7210 11960 Su/Fr
2000-2030	Russian	7210 11960 Mo-Th/Sa
2030-2100	Belarusian	7210 11960 Mo
2030-2100	English	7210 11960 Tu/Th
2030-2100	German	7210 11960 We/Sa/Su
2030-2100	Russian	7210 11960 Fr

(BBCM)

6080 *Radio Stolitsa* reg progr, 1500+ Jun 27, electric music mix, 1540 ID with FM freq mentioned, //7210 & 6070. At 1600 IDed as 3rd progr of Byelorussian R. (12-Jul/Crawford-RUS/NU/BC-DX/Bueschel-GER)

Per monitoring, local programs relayed on 11960 from 1500-1600: Mon—*Radio Gomel*, Tue—*Radio Vitebsk*, Wed—*Radio Brest*, Thue—*Radio Mogilev*, Fri—*Radio Grodno*, Sat/Sun—*Radio Stolitsa* (Minsk) ("Club DX"/VORussia/RusDX)

BOLIVIA 5926.91 *Radiodifusoras Minería*, Oruro, 1101 ID "Esta es Radiodifusoras Minería, La Voz de las Mayorías Nacionales, transmitiendo desde Oruro, capital del folklore boliviano, Bolivia, en onda media 1290 kHz, en onda corta 5925 kHz banda de 49 metros, y en frecuencia modulada 107.7 MHz, Radiodifusoras Minería, sintonía en todo el país." Poor. (19-Jun/TIN-JPN/Relampago DX)

BRAZIL *Radio Nacional do Brasil (Radiobras)* is the External service of the state broadcaster, *Radio Nacional do Brasil*. The schedule is based on monitoring research and information published by *Radiobras*. The broadcasts to Africa have not been confirmed.

0115-0215	Portuguese	11780
0415-0515	Portuguese	11765
0700-0800	Portuguese	9745

1000-1120	Spanish	9745
1200-1320	English	15445
1330-1450	Spanish	15445
1630-1750	Portuguese	15265
1800-1920	English	15265
1800-1920	Portuguese	17750
1920-0000	Portuguese	17750 Su

(BBCM)

On the annual meeting 1999 of Austrian SW Club ADXBOE in April 99, ORF Vienna freq planner Mr. Ernst Vranka announced ceasing of RadioBras' German sce. (8-Jul/Ratzer-AUT/BC-DX/Bueschel-GER) Radio Nacional do Brasil's external service (English 1800-1920, German 1930-2050) has been missing from 15265 for at least 6 weeks now. Extensive search for a new frequency has brought no success, so I guess that either their transmitter is once again out of order or the service has been canceled at all. Does anybody know more? (16-Jul/Gatzke-GER/World of Radio/Hauser) In the wake of reports that RNB's European service is closing down, I have been checking for the North American service, and not hearing it, either—English at 1200-1320 supposed to be on 15445. July 20 at 1227 check I heard nothing but FEBA on 15445 with IS, and into Nepali(?). After 1300 FEBA clashes with something else, presumably Romania. (Hauser-OK/World of Radio) The problem is that the president has extinguished RadioBras, which was responsible for the transmitters. Until it is decided which government agency becomes legally responsible for them, the transmissions, even if they continue, will be precarious. (19-Jul/Cruz-BRZ/Radioescutas/World of Radio/Hauser)

Some changes in domestic broadcasting:

2440 *R. Sao Carlos*, Sao Paulo is temporarily off the air

2490 *R. 8 de Setembro*, Descalvado, SP is active 0900-2300

3235 *R. Clube Marilia*, Sao Paulo is definitively off the air

3255 *R. Educadora Cariri*, Crato, Ceara is definitively off the air.

4765 *R. Rural Santarem*, PA 0700-0000. New addr: Rua Sao Sebastiao 622, Santarem, PA 68005-090

4935 *R. Capixaba*, Vitoria, ES is operating 24h. Addr: Av. Santo Antonio 366, Vitoria, ES, 29025-000. Reports to Sr. Sardinha (tecnico). (1-Jul/Bertoldi/DX Clube Paulista/PlayDX/Nigro-URU)

BURKINA FASO As part of a joint project with HCJB, TWR is also seeking permission to set up a new SW transmission facility in Burkina Faso which would improve reception in WeAF. An HCJB supporter has already donated funds for a 100 kW transmitter. (30-Jun/TWR/BBCM/BC-DX/Bueschel-GER)

CHILE Radio Vox Cristiana:

0000-0100	Spanish	6070	11745	15375	21550
0100-1100	Spanish	6070	11690	11745	15375
1100-1200	Spanish	6070	11690	15375	21500
1200-1300	Spanish	9635	11690	15375	21500
1300-1400	Spanish	9635	15375	21500	21550
1400-2000	Spanish	9635	17680	21500	21550
2000-2100	Spanish	6070	17680	21500	21550
2100-0000	Spanish	6070	11745	17680	21550

(BBCM)

CHINA Updated China Radio International in English:

0100-0200	9570
0300-0400	9690
0400-0500	9730 9560
0900-1100	11825 17755
1200-1300	6950 7265 9715 11660 11675 11890
1300-1400	7405 9570 11660 11675 11890 11900 15180
1400-1500	7405 11825 13685 15110 15125 15360
1500-1600	7160 9785 13685 15125
1600-1700	9565 9870
1700-1800	9570 9710 7405 11910
1900-2000	9440 11750 13650 15360
2000-2100	6950 7590 9440 9535 11735 13675 15360 15500
2100-2130	6950 7590 9535 11735 13675 15415 15500
2200-2300	9880
2230-2200	6950 7590 9535 13675
2300-2400	5990

(CRI website/MARE/Rev. of Int'l. Broadcasting/Hauser-OK + 3-Jul/OBSERVER-BUL/Ivanov/BC-DX/Bueschel-GER)

Other freq changes of CRI Beijing:

1400-1500	Tamil	15210(ex-9457)	11575
1730-1827	Mandarin	NF 11760	NF 13765
1800-2000	German	NF 7590	
1830-1927	Arabic	NF 13675	
1830-2227	French	NF 11760	
1930-1957	Turkish	NF 13675	
2000-2157	English	NF 13675	
2100-2200	Arabic	NF 15360	

(3-Jul/OBSERVER-BUL/Ivanov/BC-DX/Bueschel-GER + 27-Jul/das Gupta-IND)

The Hong Kong Standard newspaper reported that a group of Hong Kong activists plans to start a new radio station, the *Hong Kong Voice of Democracy*. Station plans to broadcast on shortwave by 1999-Oct-01 to Hong Kong from Hong Kong. This is due to the fact that all MW and FM frequencies are used, but the prospects of getting a licence don't look good. (3-Jul/BBCM/Communications World/Ogrizek/EDXP/Padula-AUS) [That's an understatement.-AQ]

CHINA—TAIWAN Radio Taipei International:

0100-0200	Chinese	5950W 7520W 11825 17845W
0100-0200	Japanese	11745 15270
0200-0300	English	5950W 9680W 11740W 11745 11825 15345
0200-0300	Spanish	15215W 17845W
0300-0400	English	5950W 9680W 11745 11825 15345
0400-0500	Chinese	5950W 7130 9680W 11825 15270 15345
0400-0500	Spanish	11740W
0600-0700	German	9985W
0600-0700	Spanish	5950W
0600-0700	Thai	15270 15345
0700-0800	Chinese	7130
0700-0800	English	5950W
0700-0800	French	7520W
0800-0900	Indonesian	7130 11550 11915
0800-0900	Japanese	9610
0900-1000	Chinese	7445 9610 11550 11745 11915
1100-1200	Indonesian	11550
1100-1200	Japanese	7130 11745
1200-1300	Chinese	11745 15270
1200-1300	English	7130 9610
1200-1300	Indonesian	15345
1305-1400	Russian	11745 15665
1400-1500	English	15125
1400-1500	Japanese	7130 11745
1400-1500	Thai	11860 15270
1500-1600	Vietnamese	11745 15345
1705-1800	Russian	9955
1800-1900	French	17750W
1800-1900	German	9955
1900-2000	Chinese	9955 15600W 17750W
1900-2000	German	11775
2000-2100	Arabic	9630 11775
2000-2100	French	9955 15600W
2000-2100	Spanish	15715
2100-2200	German	11565W(17750W?) 15600W
2100-2200	Spanish	9610
2200-2300	English	11565W 15600W
2300-0000	Spanish	15130W 17805W
2300-0000	Vietnamese	11745 15345

W-via WYFR (BBCM +Koie-DEN/EDXP/Padula-AUS)

Central Broadcasting System (Voice of Asia)

0500-0700	Chinese	7285
0700-1100	Chinese	9280
1100-1200	English	7445
1200-1300	Indonesian	7445 11860
1300-1500	Chinese	7445
1500-1600	Thai	7445 15270
1600-1700	Indonesian	7445 11745
2200-2300	Thai	7445
2300-0000	Thai	7445 15270

(BBCM)

CLANDESTINE—LATIN AMERICA 6168V Julio
19 al 23, *Voz de la Resistencia*-Bloque Oriental

(FARC) *1130-1230*, la primera emision sigue llegando con buena senal, al igual que la segunda emision entre las *2130-2230*, Nota: las emisiones del Comando de Occidente no le he podido hacer el seguimiento, pero cualquier novedad la estare reportando. (Gaviria-COL/Rev. of Int'l. Broadcasting/Hauser-OK) [Translation: 6168V July 19-23 Voice of Resistance, Eastern Sector; their 1130-1230 first transmission continues to be heard with a good signal, as is the second transmission, from 2130-2230. I have not had any success hearing the Western Command, although I continue to try. New developments will be reported.]

COSTA RICA RFPI's goals include increasing the ease of reception around the globe with the addition of 6 separate 100 kW transmitters, expanding the languages of broadcast, providing live interactive audio streaming on the internet, and expanding the tape distribution of programs produced by RFPI. The addition of a dedicated, continuous UN broadcast presence on shortwave, or UN channel, is seen as another key area for development (RFPI Vista//Rev. of Int'l. Broadcasting/Hauser-OK) [And I've asked Santa for a pony—AQ]

CUBA A most interesting feature appeared in the Jun-24 "El Nuevo Herald" (the Miami Herald's Spanish edition), titled "China instala dos bases de comunicacion en Cuba." The lengthy feature, written by staffer Pablo Alfonso, reveals some significant items.

1. The Chinese have installed two Lourdes-like (RS evesdropping site) monitoring facilities in Cuba. Translating and paraphrasing the article, the bases were disguised under the pretext of a joint Cuba-China communications venture in February, during a visit to Havana by China's Defense Minister, Chi Haotian. The principal listening facilities are northeast of Santiago de Cuba, and in the Bejucal zone of La Habana province. The Santiago site is dedicated to monitoring NAM military satellite communications, while the La Habana site primarily monitors US telephone communications.

2. Secondly, the feature confirms that the 9570 kHz *China Radio International* broadcasts (even the frequency is referenced) are via a presumed new site. The FCC believes the site to be 2256.00N, 8223.00W, approximately 15 km south of Havana on my maps. These bearings do not coincide with the Radio Havana Bauta site. I must wonder if this may also be the location of the 9600/6140/6120 Rebelde broadcasts (4-Jul/Krueger-FL/NU/EDXP/Padula-AUS)

DENMARK A minor frequency change for *Radio Denmark/Radio Norway International* was made Jul-14 for the broadcast 0300-0455, 9475 was changed to 9470. (14-Jul/Koie-DEN/EDXP/Padula-AUS)

FRANCE *Radio France International* noted 11600 at 1200-1300 in Cambodian instead of English via Xian in China. The parallel 15155 continues with English programming. Wrong feed to the transmitter? (11-Jul/das Gupta-IND)

GEORGIA *Georgian Radio:*

0100-1500 Georgian 5040
 0430-0500 Radio Abkhazia (Mo/We/Th/Fr)
 1430-1500 Relay of VOA in Georgian
 (BBCM)

Abkhaz Radio broadcasts from the breakaway region of Abkhazia in northwest Georgia. When not carrying its own programs, Abkhaz Radio relays Radio Russia from Moscow, Radio Kuban from Krasnodar or Radio Sochi. The timing of these relays, as with all programming on Abkhaz Radio, is subject to change.

0325-0800 Abkhaz/RR 9489.75
 0445-0500 Relay of Radio Sochi
 0600-0700 Relay of Radio Kuban (Sa)
 1030-1130 Abkhaz/RR 9489.75 Sa
 1400-1700 Abkhaz/RR 9489.75 Mo-Sa
 1445-1500 Relay of Radio Sochi (Tu-Sa)
 (BBCM)

GERMANY *DTK Jülich* operational schedule:

0000-0059 IBC 9355
 0000-0100 LRT 9855
 0025-0545 SRI(SOT) 9885*
 0100-0129 UNL 9495 Su
 0100-0159 GNW 9855 Su
 0100-0259 HIC 9925
 0300-0359 AWR 5840
 0300-0459 RTB 9490 Mo-Fr
 0300-0459 HIC 9925
 0355-0400 SRI 9610
 0400-0630 SRI 9610
 0430-0459 RTB 9490 Sa/Su
 0500-0659 HIC 9470 13820
 0500-0712 RTB 17580 Mo-Fr
 0500-0806 RTB 17580 Su
 0500-0959 RTB 17580 Sa
 0555-0815 SRI 15545 17685 21750*
 0557-0659 RNW 13720
 0600-0959 TOM 13810
 0600-1100 SUN 5850
 0600-1900 DWL 6140
 0645-0850 TWR 6045
 0700-0859 HIC 13820
 0700-0929 AWR 15620
 0700-1059 VOH 5975
 0800-0859 AWR 7230 Sa/Su
 0825-1030 SRI (SOT) 13685*
 0900-0959 GNW 5995 Sa
 0900-0959 CHW 5985 13800 Su
 0955-1230 SRI 15315
 1000-1117 RTB 21540 Sa
 1000-1206 RTB 21540 Mo-Fr
 1000-1500 Dig.Test 5900 Mo-Fr

1027-1225 DWL (RNW) 6045
 1055-1330 SRI (SOT) 21770*
 1057-1117 RTB 21540 Su
 1100-1559 ERL 5975
 1100-1959 SUN 5850
 1230-1315 TWR 9490
 1245-1345 DVB 17750
 1300-1359 GNW 15330 Sa
 1300-1659 DWL 9770
 1325-1629 VOH 15715
 1355-1615 SRI (SOT) 17670*
 1400-1559 TOM 6010
 1430-1455 DVB 17750
 1500-1559 VOO 11900 We
 1500-1712 RTB 17800 Su-Fr
 1557-1712 RTB 17800 Sa
 1600-1629 UNL 15105 Su
 1600-1645 TWR 5840
 1600-1659 GNW 15105 Sa
 1600-1759 TOM 13810
 1600-1759 AWR 9875
 1625-1815 SRI 15220 17640
 1625-1815 SRI (SOT) 21720*
 1700-1759 GNW 11795 Sa
 1700-1759 VOL 15715 Su/Th/Fr
 1700-2059 TOM 3965
 1725-1930 SRI 9885
 1730-1759 UNL 6195 Mo-We/Sa
 1730-1859 VRT 13670
 1800-1829 UNL 11830 Su
 1800-1859 AWR 9475 Su/Tu/Th
 1800-1859 DWL (VRT) 5910 21510 Sa
 1825-2130 SRI (SOT) 13770*
 1825-2130 SRI 15220 17580
 1830-1859 UNL 11785 Su
 1830-1859 RRP 11785 Th
 1900-1959 DWL (VRT) 5960
 2000-2059 LHL 11695 Su
 2000-2059 AWR 15560
 2000-2059 HIC 13810
 2057-2159 RTB 7345
 2100-2329 AWR 9490
 2130-2159 AWR 15560
 2155-2400 SRI (SOT) 9885*
 2300-0059 HIC 9925
 2300-2359 GNW 9405 Su

*active on demand

Key to broadcasters:

AWR Adventist World Radio
 CHW Christliche Wissenschaft
 DVB Dem. Voice of Burma
 DWL Deutsche Welle
 ERL Europaradio Luxembourg
 GNW Good News World Radio
 HIC Hrvatska Informativni Centar
 IBC IBC Tamil
 LHL L'heure Luthérienne
 LRT Radio Vilnius Litauen
 RNW Radio Nederland Wereldomroep
 RRP Radio Rveil Paroles de Vie, CH-2022 Bevaix, Switzerland.

RTB Radio Television Belge de la communauté Française
 SRI Swiss Radio International
 SUN Sunrise Radio
 TOM The Overcomer Ministry
 TWR Trans World Radio
 UNL Universal Life
 VOH High Adventure Ministry (ex HAM)
 VOL Voice of Oromo Liberation
 VOO Voix de L'Orthodoxie
 VRT Vlaamse Radio en Televisie (ex RVI)
 (5-Jul/DTK/BC-DX/Bueschel-GER)

Since the merger of the German public broadcasters *SWF* and *SDR* their SW freqs Muehlacker 6030 and Rohrdorf 7265 have been broadcasting the popular musical program *SWR 3*. The only exception is *SWR-International*, a program about the problems and achievements of second and third generation immigrants in Germany. It is on Sats and Suns 1600-1700 on 6030 while 7265 continues with *SWR-3*-programming. Beside this program there are only short splits when 6030 and 7265 carry different announcements of regional concern. (19-Jun/Biener-GER/BCDX/EDXP/Padula-AUS)

Bayerischer Rundfunk has upgraded its shortwave service on 6085 under the headline "Neue Kurzwelle" (new shortwave). The programming now consists on a selection of popular segments from their "*Bayern2Radio*" and news from the "B 5 aktuell" network. "Bayern 1," which was until now carried on shortwave most of the day, is now taken just Mon-Fri 1400-1600 with its current-affairs magazine, otherwise it's musical programming was assessed as not so suitable for shortwave. Of special interest is, that as overnight service 6085 between 2200 and 0400 takes (like the "B 5 aktuell" network) the "MDR info" all-news program of *Mitteldeutscher Rundfunk* at Leipzig. Herewith the MDR is present on shortwave for the very first time. "MDR info" is otherwise carried on MW, but here in Brandenburg the BR transmitter clear provides better night-time listening, also thanks to the sound-processing at Ismaning, resulting in a better audible voice modulation than on the MDR mediumwave. Of course it will be a completely new experience for them to receive reception reports from overseas...for e-mail it's certainly the best idea to address it directly to their technical department: techhot@mdr.de (5-Jul/Ludwig-GER/EDXP/Padula-AUS)

GHANA *Ghana Broadcasting Corporation (GBC)*
 GBC Radio 1 carries programming in Akan, Dagbani, Ewe, Ga, Hausa, Nzema and English. Radio 2 broadcasts in English. When a program common to GBC Radio 1, GBC Radio 2 and/or Radio G.A.R is being broadcast, it is identified as "Radio Ghana." Radio G.A.R is FM only. An archived recording of the 2000 news in English (carried on GBC Radios 1 and 2) is available at: <http://www.ghanaclassifieds.com/>

GBC Radio 1

0525-0915 Multilingual 4915
 English 0600-0630, 0700-0715, 0800-0805
 (Su) and 0900-0915 (Mo-Sa)
 0915-1200 Multilingual 4915 Sa/Su
 English from 1100-1115
 1200-0000 Multilingual 4915
 English 1300-1330, 1330-1400 (Tu/We), 1400-1415, 1800-1830, 2000-2030, 2200-2215, 2345-2355

GBC Radio 2

0525-0000 English 6130

GUAM *TWR* Agana introduced a revised schedule on Jul-3, to reflect the additional (5th) transmitter coming on line. Main changes include new services in Hakka 1230-1300 (daily) 9870, and Tok Pisin 0930-1000 (Mon-Fri) 15330. (Padula-AUS/EDXP)

Freq change of *KSDA* Agat: 2300-2330 Cantonese daily, 2330-2400 in Shanghainese, Mon-Fri & in Uighur Sat/Sun NF 17870 (x17865). (3-Jul/OB-SERVER-BUL/Ivanov/BC-DX/Bueschel-GER)

INDIA *All India Radio's* Panaji transmitter is now using its operation beyond 1730 hrs. Although scheduled in A99 period but only in the first week of July they are using this transmitter site beyond 1730 hrs.

9635 1745-1945 GOS-IV
 9705 2245-0045 GOS-I
 11715 2045-2230 GOS-V
 11740 0000-0045 Tamil, 2300-2400 Hindi

Still slight problem is there with modulation. (27-Jul/das Gupta-IND)

Union Minister of Information & Broadcasting Pramod Mahajan has said that *Radio Kashmir Srinagar* will be "further strengthened to counter Pakistani propaganda." (4-Jul/DH News Service, India/Vaghjee-MAU/NU/BC-DX/Bueschel-GER)

INDONESIA 3232.1 *RRI Bukittinggi*, local pops at 1540, talk by M at 1555, Love Ambon at 1600 and s/off 1602*. Up from usual 3231.8kHz. (24-Jun/Yamada-JPN/Jembatan DX)

3905.7v *RRI Merauke*, 1050 local pops, then IS, tp's, ID and local news ("Warta Berita"). Frequency returned to usual 3905.0kHz around 1100. Fair to poor. (11-Jul/Yamada-JPN/Jembatan DX)

4777.1 *RRI Jakarta*, Kebayoran is now heard from local morning to local early morning regularly. (Jul/Yamada-JPN/Jembatan DX)

4855 *RRI Sorong* (spur of 4875), don't confuse with *RRI Palembang*. (Ishii-JPN/Call Sign/Jembatan DX/Yamada-JPN)

6069.8 *RRI Jayapura*, Jakarta news relay at 2001. M ID at 2005 then local pops. Local evening program is hard to hear in Japan due to heavy interference. (3-Jul/Yamada-JPN/Jembatan DX)

6153.5 **RRI Biak**, local news at 1231 w/ending music "Bagimu Negri." ID at 1233 then kroncong music. ID with announcement of Programa Satu at 1258, SCI, and followed to Jakarta news relay. (11-Jul/Yamada-JPN/Jembatan DX)

Many RRI stations belonged to Nusantara Satu network now sign off at 1600. Here's a list of sign-off times of RRI Nusantara Satu network per monitoring:

3224.8	RRI Tanjung Pinang	-1215*
3232	RRI Bukittinggi	-1600*
3265	RRI Bengkulu	-1600*
3395.1	RRI Bandar Lampung	-1700*
4003.2	RRI Padang	-1600*
4766	RRI Medan	-1450*
4925.0	RRI Jambi	-1400*
4927.0	RRI Jambi	-1700*
5040.0	RRI Pekanbaru	-1600*

(Yamada-JPN/Jembatan DX)

IRAN Voice of the Islamic Republic of Iran (VOIRI) noted on new 9725 with Persian 2100- 2130* // 7130 (25-Jun/EDXP/Padula-AUS)

According to IRIB web page, **VOIRI** began Japanese programming Jul 21, 1300-1330 on 15200 & 17630. Program will be on Mo/We/Sa, and repeated on Su/Tu/Th. (6-Jul/Ohtake-JPN/EDXP/Padula-AUS)

Islamic Republic of Iran Broadcasting, regional station at Mashhad:

0100-0230	Tajik	11680
0230-0300	Uzbek	11680
0300-0400	Dari	11680
1330-1530	Dari	7180
1530-1600	Uzbek	7180
1600-1730	Tajik	7180
1730-1800	Uzbek	7180

(BBCM + Ohtake-JPN/TIN-JPN/EDXP/Padula-AUS)

IRELAND Radio Telefis Eireann (RTE) via various sites:

0130-0200	English	6155-Rampisham, UK
1000-1030	English	11740-Singapore
1830-1900	English	21630-Ascension
1830-1900	English	12160-WWCR Mo-Fr
1900-1930	English	12160-WWCR Sa-Su

(BBCM + O'Driscoll/Hauser/EDXP/Padula-AUS + J. Hayde, RTE/WORLD OF RADIO/Hauser/BC-DX/Bueschel-GER)

ISRAEL Kol Israel changes: English 0400-0415 now on 9435 15655 (ex-15650, 11605) 17535; English 1400-1430 on 15650 and 17615 (ex-17535). (18-Jul/RVI/van Oudheusden/EDXP/Padula-AUS) Reshet Bet addit on 17535 from 1900(-2115?). (26-Jun/HCBJ BC-DX/Bueschel-GER)

KAZAKHSTAN Radio Almaty new German program noted Jul 5 at 1742 on 12115. (5-Jul/Koie-DEN/BC-DX/Bueschel-GER)

KENYA 4914.95 **KBC** Nairobi, 1857 African horn style of music with vernacular M songs, at 1902 M speaker in vernacular with salaam a aleikhum announcement, no news at 1900, heard earlier at 1759 with military band and timepips and news in vernacular; at 1900 GBC Accra heard underneath. Gone by recheck at 1907, leaving Ghana in the clear. (2-Jul/Veldhuis-HOL/HCDX) Seemingly reactivated. Noted in Italy on 4-July at 1806 w/news in Swahili and a clear "KBC Nairobi" ID. (Napolitano-ITL/HCDX)

KIRIBATI Heard that **Radio Kiribati** is back on the air on 9810. I wish I could hear it. All that I can receive at 0530 is loud bubble jamming, especially on USB, and absolutely no carrier at all despite trying various antennae combinations. Cuba again? (13-Jul/Salmaniw-BC/Rev. of Int'l. Broadcasting/Hauser-OK)

LAOS After returning for less than two weeks, **Lao National Radio** National Service on 6130 has been off the air again since Jul-01. **Luang Prabang** has recently moved up slightly to around 6972 (sked approx 2200-0700 and 1025-1400). Ominously, it has been off air on a number of occasions in the past few days (e.g. evenings of Jul-03 and 05 and around 0500 on Jul-06. The audio, while still fairly good by SE Asian domestic shortwave standards, has deteriorated noticeably recently—catch it while you can. Noted 0015 on Jul-08 with strong signal, local music program replacing relay of news from inactive Vientiane 6130 (Davies-THA/EDXP/Padula-AUS)

Sam Neua, Houa Phan Province, has moved to 4641v (x-4653v), first noted May-24. Usual hours are approx 2300-0130, 1015-1230.

Pakse 1370 kHz (WRTH lists 1350) noted daily 24 May-14 June at 2200-1400. The transmitter site still appears to have a couple of HF arrays identical to those at Luang Prabang, but nothing to be heard from Pakse on shortwave of course. This station often inadvertently relays Radio Singapore International in English on 6150 at 1200-1225—obviously using an insufficiently selective receiver to pick up Vientiane 6130 so that the two stations are heard with roughly equal volume. (Davies-THA/EDXP/Padula-AUS)

LEBANON 11514.8 **Voice of Hope** noted in English at 1740 w/religious programming, testing here. Distorted modulation, varying from slight to severe. (28-Jun/Schaay-HOL)

LIBYA English news from **Voice of Africa** appears to have settled on 15435 from 0125-0130v. (4-Jul/das Gupta-IND)

MADAGASCAR Radio Madagasikara noted 5009.6 at 2256 on extended sked with bouncy, Caribbean-flavor pop songs and high-energy DJ in Malagasy; no break observed across the hour and no spoken ID caught. (26-Jun/Hill-MA)

MALAYSIA R. Malaysia Channel 6 in Tamil noted with usual hum on 4845 around 1945-2045 on Jun-06. I have seen this freq listed as 2200-1600, but it still seems to be on 24 hrs and is regularly noted staying on past 1600. In the small hours of the local morning it is a very prominent signal, as it's the only broadcasting transmitter in S/SE/E Asia on 60 meters at that time, as far as I know. (Davies-THA/EDXP/Padula-AUS)

MONACO TWR uses now 9515 (x9490) for its bc in Romanian 1600-1645. Heard on June 26 at 1630 with progr from NOREA Radio. Via Monte Carlo (re-x9445). (26-Jun/Bergmann-GER/BC-DX/Bueschel-GER)

NETHERLANDS/KOSOVO-METOHIIJA Radio 21 *Pristina* in Albanian now is on the air via R Nederland's Flevo site, 1828-2025 9495. Studio located in Skopje capital of Macedonia. News in English (6-7 min) at 2015. (3-Jul/OBSERVER-BUL/Ivanov/BC-DX/Bueschel-GER) As Radio 21 Pristina continues to be unable to feed audio to Radio Netherlands (communications links there remain unreliable) the daily SW broadcast has been cut back to 10 minutes at 1830-1840 UTC on 9495kHz, which will be a taped announcement explaining why the Radio 21 programme is missing. As soon as Radio 21 sorts out its technical problems and can feed us the programme, the transmission time will revert to 1830-2025. English news remains available intermittently on their Website at www.radio21.net. (22-Jul/Sennitt, RN/swprograms)

PAKISTAN The Islamabad program to Gulf & Iran 1800-1900 found on new 15174.98 with no trace of signal on former 11600. (14-Jul/Green-UK/BC-DX/Bueschel-GER)

PERU 4606.6 *Radio Ayaviri*, Ayaviri, 2358-0045, program Informativo La Voz de Melgar w/local nx and commentary, ID "...las 7 de la noche con 7 minutos enel informativo La Voz de Melgar de Radio Ayaviri..." many ments of Ayaviri and la Provincia de Puno, ID @0030 "Esta usted en sintonia de Radio Ayaviri La Vozde Melgar que transmite desde Ayaviri, Puno, Peru...rumbo hacia el nuevo milenio..." (2-Jul/Rodriguez-COL/Conexion Digital/Rev. of Int'l. Broadcasting/Hauser-OK)

4790 *Radio Atlantida*, Iquitos (t), 0107, M talk in Spanish. At 0113 music and announcements with strong echo-effect. Nice Andean flute music, tentative ID's. Fade-out after 0130. (27-Jun/Veldhuis-HOL)

4824.42 *Radio La Voz de la Selva*, Iquitos, 1005-1107 morning music program "El Madrugador" (airs 0500-0600 local, Monday to Saturday). At 1107 newscast "Panorama." Fair. (17-Jul/TIN-JPN/Relampago DX)

4890.16 *Radio Chota*, Chota, Cajamarca, 0130 extreme high Andean guitars and M vocals; fast-

paced, professional sounding newscast starting around 0156 with numerous "R Chota de Peru" IDs. (24-Jul/Novello-NC)

4914.43 *Radio CORA del Peru*, Lima, 1028-1031 News flash "Servicio Informativo de CORA." (26-Jul/TIN-JPN/Relampago DX)

4995.58 *Radio Andina*, Huancayo, at 1025 w/ nice huaynos. (26-Jul/TIN-JPN/Relampago DX)

5025.00 *Radio Quillabamba*, Quillabamba, 1007-1020 OA folklore and several comunicados in Quechua and Spanish. ID as "Radio Quillabamba, el Centro de los Medios de Comunicacion Social, transmitiendo desde Quillabamba, Provincia de La Convension, Peru." (17-Jul/TIN-JPN/Relampago DX)

5523.05 *Radio Sudamerica*, Cutervo (p), 0043-0104, Instrumental music and M talk in Spanish. Regular silences in announcements, like the announcer was thinking about what he was going to say. Music bridges with movie-theme. At 0054 Peruvian music with W vocals. Time checks, M announcements at 0101, followed by W announcements. (27-Jun/Veldhuis-HOL)

5859.39 *Radio Nueva Cajamarca*, finally heard in Tokyo per tip from Rafael Rodriguez. Noted at 1055-1115 w/OA folklore and greetings; frequent ID as "Radio Nueva Cajamarca." Heavy ute QRM. (10-Jul/TIN-JPN/Relampago DX)

6173.83 *Radio Tawantinsuyo*, Cusco, 1115 poor w/newscast by W. (10-Jul/TIN- JPN/Relampago DX)

6520.3 *Radio Paucartambo* (t), 0025 M w/TC, 0029 poss. advertisement and ID, but too much QRM. Andean flute tunes and M talks. (1-Jul/Schaay-HOL)

6674.02 *Radio Super Sensacion*, Huancabamba, *0958-1005 poor at sign-on w/Peruvian National Anthem, then an OA folklore show. (17-Jul/TIN-JPN/Relampago DX)

6797.68 *Radio Ondas del Rio Mayo*, Nueva Cajamarca, 1051-1055 fair w/rustic OA folklore and comunicados. (10-Jul/TIN-JPN/Relampago DX)

6955.0 *Radiodif.Paraton de Huamarca* 0028 Andes folk songs, M announcer in Spanish, ID heard at 0101. (28-Jun/Schaay-HOL) (Finally, someone on 6955 with real programming!-AQ)

9721.6 *Radio Victoria*, Lima, 0717-0725. Romantic music, M speaker in Spanish, promo/advertising. fading out. (27-Jun/Veldhuis-HOL)

PHILIPPINES *Radio Veritas Asia*:

0000-0025	Karen	9535
0000-0025	Sinhalese	11805
0030-0055	Kachin	9535
0030-0055	Tamil	11805
0100-0125	Bengali	15335
0100-0125	Telugu	15530
0130-0155	Hindi	15335

0130-0225	Vietnamese	15530	1115-1130	Eastern	9795 We
0200-0225	Urdu	15335	1115-1130	Katu	9795 Tu
0230-0325	Russian	11805	1115-1130	Muong	9795 Th
1000-1025	Hmong	9555	1115-1130	Nung	9795 Mo
1000-1155	Chinese	9520	1115-1130	Stieng	9795 Sa/Su
1030-1125	Vietnamese	11850	1115-1145	Bahnar	9795 Fr
1130-1155	Burmese	9670	1130-1145	Black	9795 Mo/Sa
1200-1225	Indonesian	9505	1130-1145	Bru	9795 Tu
1200-1225	Karen	9670	1130-1145	Chru	9795 We
1230-1255	Kachin	9670	1130-1145	Jeh	9795 Th
1300-1325	Vietnamese	7265	1130-1145	Mon	15095
1330-1355	Hindi	9680	1130-1200	Chrau	9795 Su
1330-1355	Sinhalese	9660	1130-1200	Laotian	11610
1400-1425	Bengali	9680	1145-1200	Karen-sgaw	15095
1400-1425	Tamil	9595	1145-1200	Rengao	9795 Th
1430-1455	Telugu	9595	1145-1200	Roglai	9795 We
1430-1525	Russian	9660	1145-1200	Sedang	9795 Fr
1500-1525	Filipino	9610	1145-1200	Tho	9795 Tu
1525-1555	Filipino	9610 Su/We/Fr	1145-1200	White	9795 Mo/Sa
1530-1555	Urdu	9670	1200-1215	Rawang	15095
1530-1555	Zomi-chin	9525 Mo/Tu/Th/Sa	1200-1300	Cambodian	11610
2100-2255	Chinese	6190	1200-1300	Vietnamese	9795
2230-2255	Filipino	6075	1215-1230	Lisu	15095
2300-2325	Indonesian	9505 11820	1230-1300	Zhuang	1458
2330-2355	Burmese	9535	1230-1330	Burmese	15095
2330-2355	Vietnamese	9670	1230-1600	Chinese	9405 9420
(BBCM)			1300-1315	Koho	9795 Su/Mo/Th
			1300-1330	Hre	9795 Tu
			1300-1330	Jarai	9795 Fr
			1300-1330	Rade	9795 We/Sa
			1300-1430	Cantonese	1458
			1300-1500	English	11995
			1315-1330	Mnong	9795 Mo
			1330-1345	Jingpo	9795
			1330-1345	Naga-ao	15095
			1330-1400	Amoy	9420
			1345-1400	Chin-daai	15095
			1345-1400	Mien	9795
			1400-1415	Chin-asho	15095 Su-We
			1400-1415	Chin-khumi	15095 Th-Sa
			1415-1430	Chin-haka	15095 Mo-We
			1415-1430	Chin-tidim	15095 Th-Sa
			1415-1430	Lushai	15095 Su
			2200-0000	Chinese	9405
			2230-2300	Laotian	9805
			2230-2315	Cambodian	9860
			2230-2330	Indonesian	9780
			2300-2315	Akha	11650 Sa/Su
			2300-2330	Hmong	9805
			2315-0015	Vietnamese	9860
			2315-2330	Lahu	11650
			2330-0115	Burmese	15465
			2330-2345	Wa	11650
			2345-0030	Shan	15520
			(BBCM + Davies-THA/EDXP/Padula-AUS)		
			Radyo Pilipinas:		
			0230-0330	Tagalog/EE	11885 15120 15270
			0330-0400	Tagalog/EE	13770 15330 17730
			1730-1930	English	11720 15190 17720
			(BBCM)		

POLAND *Radio Mariya* in Polish via Samara transmitter: 1930-2200 NF 7380 (45433) (x7400). (3-Jul/OBSERVER-BUL/Ivanov/BC-DX/Bueschel-GER)

PORTUGAL *Radiodifusao Portuguesa* (RDP)
 0000-0200 Portuguese 9715 11655 11840
 13700 15295 Tu-Sa
 0500-0700 Portuguese 15585
 0500-1000 Portuguese 11660-(0645-0800)
 11960 15140 Mo-Fr
 0700-1000 Portuguese 9780 11995-(fm 0830)
 15555 17680 Sa/Su
 1000-1200 Portuguese 11960 15140 17725
 21725 Mo-Fr
 1000-1200 Portuguese 9780 15555 17680
 17740 Sa/Su
 1100-1200 Tetum 17740
 1200-1400 Portuguese 17740 21515 Mo-Fr
 1200-1700 Portuguese 9780 15200 15555
 17725 21800 Sa/Su
 1600-1900 Portuguese 11800 11860 13625
 17680 21515 21780 Mo-Fr
 1700-2000 Portuguese 9780 15200 15555
 21800 Sa/Su
 2300-0000 Portuguese 9715 11655 11840
 13700 15295 Mo-Fr

RDP Africa

0600-0000 Portuguese 21655
 (BBCM)

RUSSIA *Mayak* ("Beacon") is a state-run radio company. It broadcasts a 24 hour-a-day service of news, information and music. Here's all that remains of this once-mighty shortwave presence:

0000-0100 Russian 4520
 0100-0300 Russian 4520 4930
 0300-0330 Russian 2371-dsb
 1300-2300 Russian 4855-dsb
 2200-0000 Russian 4520
 (BBCM)

11840 *Radio Sakhalin* Jun 17 0158-0300
 33433-22332 QRM NHK R. Japan. Sakhalin's MW strn produced by Sakhalinskoe Radio can be heard on SW. Weather forecast, local nx etc. ID at 0259 "Produzhenie programmy Radio Sakhalin slushaeche diapazone srednikh voln na chastote 531 kHz. 14 chasov." (29-Jun/Oguma-JPN/BC-DX/Bueschel-GER)

Belorussian Radio domestic sce. is heard on a new 6260 khz. Noted at 1930 with fair signal, still on at 2035 re-check, //6115. (4-Jul/Pashkevich-RUS/HCDX)

11925 *Tatar Radio*, Samara 0835 sounds like literary reading in Tatar. Russian language lesson when re-checked at 0850. ID at 0856. 11665 Tatar Radio, Samara 0400 s-on with W ID. (3-Jul/Schaay-HOL)

SEYCHELLES *FEBA Radio* moved their 11885 khz to 11640 khz (since BBC left this channel) at 1300-

1330 hrs in Malayalam & 1330-1345 in Tamil. (27-Jul/das Gupta-IND)

ST. HELENA Station Manager Tony Leo says that Cable & Wireless has agreed to host a final transmission for *Radio St. Helena*, which will take place at 1900-2400, Sat, Oct 23, 1999. (20-Jun/Ekwall-SWE/NU/BC-DX/Bueschel-GER/Rev. of Int'l. Broadcasting/Hauser-OK)

SINGAPORE *Radio Singapore International* (RSI)

1000-1100 Malay 6070 7245
 1100-1200 Indonesian 6070 7245
 1100-1400 Chinese 6000 6120
 1100-1400 English 6015 6150
 1200-1400 Malay 6070 7245
 (BBCM)

SOMALIA 6690.0 *Radio Mogadishu* at 1735 M in unid. language, 1800 tune and W in English, anthem, followed by world news in English; 1808 pop music. (12-Jul/Schaay-HOL)

SOUTH AFRICA Here's the nearly-complete *SENTECH Meyerton* usage sked (missing Radio Kuridat):

0000-0530 RSG 3320 SABC Afrikaans service
 0258-0325 CHAF 6150 Swahili
 0258-0355 CHAF 6035 English French
 0259-0330 BBC 6050 Swahili
 0300-0330 AWR 6015 English
 0300-0400 RFI 7135 French
 0300-0600 BBC-W 3255 6190
 0330-0400 AWR 9690 Somali
 0330-0400 TWR 7215
 0358-0430 BBC 9610 Swahili
 0358-0455 CHAF 5955 English & Port.
 0400-0430 AWR 9690 Swahili
 0428-0455 CHAF 9525 French
 0429-0500 BBC 3390 6135 7205 Portuguese
 0430-0455 CHAF 3345 Portuguese
 0458-0555 CHAF 11720 English Portuguese
 0500-0530 AWR 5960 6015
 0530-0800 RSG 7185 Afrikaans
 0558-0655 CHAF 15215 English Portuguese
 0600-0615 TWR 11735
 0600-1700 BBC-W 6190 11940
 0659-0730 BBC 17695 French
 0800-0900 SARL 9750 21530 Su
 0800-1630 RSG 9650 Afrikaans
 1258-1455 CHAF 11720 17860 21530 Sa/Su (Eng)
 1458-1525 CHAF 15150 Swahili
 1458-1555 CHAF 17770 English French
 1527-1557 TWR 7265
 1540-1555 TWR 9500 Fr/Su
 1558-1655 CHAF 11900 Swahili French
 1558-1655 CHAF 9525 English Portuguese
 1600-1700 TWR 9670
 1628-1655 CHAF 3345 Portuguese
 1630-0530 RSG 3320 Afrikaans
 1630-1700 AWR 15620 Somali
 1630-1700 TWR 11705

1640-1655 TWR 9650 Mo-Sa
 1657-1712 TWR 9650 Mo-Sa
 1658-1755 CHAF 17860 English Portuguese
 1659-1900 BBC 15420 English
 1700-1800 AWR 12130 Swahili English
 1700-2200 BBC-W 3255 6190
 1712-1728 TWR 9650 Su
 1729-1745 BBC 3390 6070 9520 English
 classes

1730-1800 TWR 9665
 1745-1800 BBC 7230 Swahili
 1758-1855 CHAF 17870 English French
 1800-1815 TWR 9665 Sa
 1800-1830 AWR 5960 6100
 1800-1830 BBC 7230 French
 1800-1830 TWR 9665 Mo-Fr
 1800-1900 SARL 3215 Mo
 1830-1930 TWR 9800
 1830-2030 TWR 9510 (on Sa to 2045)
 1835-2005 TWR 9700 Mo +Sa/Su to 2020
 2000-2030 AWR 9745 French
 2005-2020 TWR 9700 Sa-Mo
 2030-2045 TWR 9510 Sa
 2030-2100 AWR 9745
 2030-2100 BBC 3390
 2030-2100 BBC 6135 7205 Portuguese

(Andre du Toit-RSA)

SRI LANKA The new VOA shortwave relay station at Iranawila, Sri Lanka—with 4x500kW transmitters, began testing last month. Test sked was announced as:

0000-0100	English	15565
0000-0100	Tibetan	15115 17650
0000-0100	Tibetan	6010 17650
0100-0200	Chinese	15175 15460 17650
0100-0200	English	7115
0200-0300	Chinese	11695 15115 15460
0200-0300	English	7115

(Ferguson, IBB Spectrum Management Division)
[Tests were widely reported and strong; this removes Sri Lanka from the "DX" category worldwide-AQ]

SUDAN 8000 *Voice of Sudan*, *1559-1800, open military tune, ID, and news. At the same time (1601) a UNID station signed on *[I presume on the same frequency?-AQ]* with continuous Somali Songs and went off just after V. of Sudan. The same UNID is also on 6990. (25-Jul/Vaghjee-MAU/Rev. of Int'l. Broadcasting/Hauser-OK)

SWAZILAND Malagasy program from TWR noted new 9585 (ex 7175) 1510-1525 from and 1525-1555 from FEBA (from the same transmitter). Signature tune of TWR noted just before 1510 and signature tune of FEBA Radio noted at 1525 hours. (11-Jul/das Gupta-IND) Freq change of TWR Manzini in Swahili: 1702-1747 (Sat/Sun till 1802) NF9790, (x9620, re-x9585). (16-Jun/Paniview-BUL/BC-DX/Bueschel-GER)

THAILAND *Radio Thailand* sked, transmissions marked with an asterisk are from the US Interna-

tional Broadcasting Bureau (IBB) relay station at Udon Thani in Thailand. The schedule for these channels was supplied by the IBB in June 1999. All other frequencies are from Radio Thailand's own transmitters.

0000-0030	English	9655 9690* 11905
0030-0100	English	9655 11905 15395*
0100-0200	Thai	9655 11905 15395*
0300-0330	English	9655 11905 15395*
0330-0430	Thai	9655 11905 15395*
0530-0600	English	9655 11905 15445*
1100-1115	Vietnamese	7260* 9655 11905
1115-1130	Cambodian	7260* 9655 11905
1130-1145	Laotian	6030* 9655 11905
1145-1200	Burmese	6030* 9655 11905
1200-1215	Malay	9655 11805* 11905
1215-1230	Indonesian	9655 11805* 11905
1230-1300	English	9655 9885* 11905
1300-1315	Japanese	9655 11850* 11905
1315-1330	Chinese	9655 11850* 11905
1330-1400	Thai	9655 11905 11995*
1400-1430	English	9580* 9655 11905
1800-1900	Thai	9655 9690* 11905
1900-2000	English	7195* 9655 11905
2000-2015	German	9655 9680* 11905
2015-2030	French	9655 9680* 11905
2030-2045	English	9655 9680* 11905
2045-2115	Thai	9655 9680* 11905

(BBCM + Timofeyev-RUS/Mujunen/EDXP/Padula-AUS)

Radio Thailand domestic service on 6070 noted Jul-07 at various times around 0200-0500 // 891, 7115, with separate programming at times on 4830 only. Previously for many months, 4830 and 6070 were always noted in parallel, separating at times from 891 and 7115. 891 and all three HF freqs often carry the same program for extended periods, such as in local early morning and late afternoon/early evening. Domestic service on 7115 now reverted to signing-on early in the morning, presumably 2200, after several months of coming on air around 0200v. Possibly due to the disappearance of strong signal in Slav lang previously on 7115 around this time, probably R. Yugoslavia to NAM, Jun-28. (Davies-THA/EDXP/Padula-AUS)

TURKEY Freq change of *Voice of Turkey* in English: 1230-1325 NF 15225 strong, but low audio, (x17830). Transmission in Hungarian back the air: 0930-1025 15405 (55555). First noted June 15. (3-Jul/OBSERVER-BUL/Ivanov/BC-DX/Bueschel-GER)

UKRAINE According to the official transliteration scheme, adopted by the Ukrainian Legal Terminology Commission, the capital should be spelt Kyiv in English. The name of the country is Ukraine, not The Ukraine. (14-Jul/Trutenau/Arctic News Desk/BCDX/EDXP/Padula-AUS)

UNITED KINGDOM BBC WS English to SAs on 17790 now noted daily at 0530-0600, thus filling a long-standing gap. This segment appears to be via Thailand. (28-Jun/Davies-THA/EDXP/Padula-AUS)

Freq changes of **BBC** in Albanian: 1000-1030 Mon-Fri (Sat/Sun til 1015) NF 15190 (x15555). Also deleted 13745. 1315-1345 Mon-Fri (Sat/Sun til 1330) deleted 13670. (3-Jul/OBSERVER-BUL/Ivanov/BC-DX/Bueschel-GER)

Merlin Network One again using shortwave, noted Jul-09 2340 powerhouse 6015 and somewhat less strong 7325 and 9720. Shortwave sked now Fri/Sat 2100-0100 and Sat 1300-1700. (9-Jul/Ludwig-GER/EDXP/Padula-AUS)

Virgin Radio began on shortwave on Jul-02, with this sked via 250 kW at Skelton, UK:

1300-1700 7130 9750 12035 Sa
2100-0100 7325 9720 Fr
2100-2300 6140 Fr
2300-0100 6015 Fr

(Merlin Communications/Mujunen/EDXP/Padula-AUS) Noted 1300-1700 on 9750 and 12035, 1300-1430 on 15235. (18-Jul/RVI/van Oudheusden/EDXP/Padula-AUS)

UNITED STATES OF AMERICA **KTBN**—Trinity

Broadcasting Network Salt Lake City, Utah

0100-1500 English 7510
1500-0100 English 15590

(BBCM)

WJCR Upton, Kentucky

0000-2400 English 7490
0000-2400 English/Chinese 13595

(BBCM)

WRMI has just started testing on new 7465 daily 0330-0500, to NAM, expected to be expanded. (11-Jul/White-WRMI/HCBJ DX Partyline/Hauser/EDXP/Padula-AUS) **WRMI's** new 7465 finally started UT Wed July 14: tune-in at 0329 to find open carrier, and 9955 already off; 0330 ID giving the new frequency to North America, and into "Word of Spirit Radio Broadcast." At 0415 recheck another wacky preacher was in progress. At least there was no jamming—yet. (Hauser-OK/Rev. of Int'l. Broadcasting)

WSHB heard using 18915 (x18910) from 1600 after a tip from John Stewart-UK. (8-Jul/Green-UK/BC-DX/Bueschel-GER)

Changes for **IBB: VOA** 0530-0630 in French Mon-Fri NF 11855 (x11875); 0130-0230 in Pashto/Dari NF 9505 (x9585); 1130-1230 in Burmese NF 15225 (x7220).

RFE/RL 1700-1800 in Ukrainian NF 15380 (x15265); 1900-1930 in Kosovian-Alb NF 7175 (x7180) 1900-2000 in Russian NF 7115 (x7245). (8-Jul/Green-UK/BC-DX/Bueschel-GER)

RL's Arabic service for Iraq ID's as "Idha til Iraq al Hurr min Prague." They give an Internet address at www.iraqsurr.org

1500-1700 6185-KAV 9825-KAV 11805-LAM
12025-KAV 15160-MOR

(8-Jul/Green-UK/BC-DX/Bueschel-GER)

Radio Free Asia

0000-0030	Vietnamese	11540 11560 11580 13720
		15560
0000-0100	Laotian	9365 13830 15205 15655
0030-0130	Burmese	13710 13785 13820 17525
		17540
0100-0130	Uighur	11520 15405
0100-0200	Tibetan	9365 9670 15695 17730
0300-0700	Chinese	17495 17525 17615 17880
1100-1200	Laotian	9545 13750 15185 15560
		15695 17805
1200-1300	Cambodian	11510 15185 15660 17525
1300-1400	Tibetan	7470 11590 15695
1400-1500	Cantonese	9445 9635 11500 13625
1400-1500	Vietnamese	9455 9930 11510 11580
		11765 13775 15660
1500-1600	Burmese	11590 11750 13820 15695
1500-1600	Chinese	9905 11765 11945 13690
		15510 15680
1500-1600	Tibetan	5855 9445 9955 15660
1530-1630	Korean	7460 11565
1600-1630	Chinese	9905 11750 11795 11945
		13690 15510 15680
1630-1800	Chinese	9455 9905 11750 11795
		11945 13690 15510 15680
1800-1900	Chinese	11520 11710 11740 11945
		11955 13695 15510 15680
1900-2000	Chinese	9905 9945 11520 11710
		11740 11945 11955 13695
		15510 15680
2000-2100	Chinese	9355 9455 9910 11785
		15515
2100-2200	Chinese	7540 9355 9650 9775 9845
		15510 15515
2200-2300	Cantonese	9355 9955 11500
2200-2300	Korean	7460 9455 11785 15510
		15660
2230-2330	Cambodian	9930 11520 11570 15705
		17510
2300-0000	Chinese	9910 11785 13800 15515
		15680
2300-0000	Tibetan	7470 9365 9875 15695
2330-0000	Vietnamese	11540 11560 11580 13720
		15560

(BBCM)

URUGUAY SODRE 9620 CXA6 reactive, simulcasts CX26/1050 (3-Jul/Nigro-URU) Supposedly simulcasting CX26 1050, but heard on 4-Jul relaying CX6 MW650. Station is considering a move to 9515 to avoid REE which dominates 9620. Transmitter is homebrew, 500W from a pair of 813's to a halfwave dipole. (4-Jul/Nigro-URU)

UZBEKISTAN Radio Tashkent is the external service of Uzbek Radio. This schedule is based on information from the broadcaster and monitoring observations.

Some programs in Uzbek for Uzbeks abroad identify as "Radio Vatandosh" (Vatandosh=Homeland).

0000-0030 Uighur 5060
0100-0130 English 7190 9375 9530 9715

0130-0200	Dari	7190 9715
0200-0230	Pashto	7190 9715
0230-0330	Uzbek	7190 9375 9530 9715
0600-0630	Turkish	15200
1200-1230	English	7285 9715 15295 17775
1230-1300	Uighur	5060
1230-1300	Urdu	7285 9715 15295 17775
1300-1330	Hindi	7285 9715 15295 17775
1330-1400	English	7285 9715 15295 17775
1400-1430	Urdu	7285 9715 15295 17775
1430-1500	Hindi	7285 9715 15295 17775
1430-1500	Uighur	5060
1520-1550	Dari	6190 7285 9715
1530-1600	Uighur	5060
1550-1630	Uzbek	6190 7285 9715
1630-1700	Persian	6190 7285 9715
1700-1730	Arabic	6190 7285 9715
1700-1730	Turkish	9540
1730-1830	Uzbek	6190 7285 9540 9545 9715
1830-1900	Persian	6190 7285 9540 9545 9715
1900-1930	Arabic	6190 7105 7285 9540 9545 9715
1935-2030	German	5025 5035 5060 9540 11905
2030-2100	English	9540 9545
2130-2200	English	7105 9540
2330-0000	Chinese	5060

(BBCM)

VIETNAM *Voice of Vietnam* noted 13740 at *0000, coming on with opening announcement that included mention of Vietnam; continued with man and woman swapping the mike in Vietnamese, occasionally pausing for short bridges of Oriental orchestral music. Into interview or discussion at 0015. Lousy signal at s/on, then gradually improved a bit. This channel recently reported as new by Timofeyev, who says it's the Domestic Service // 9730, (28-Jun/Hill-MA)

Lai Chau recently moved from long-standing 6397v to 6382.5v, and has also changed its hours—now heard at approx? 2200-0000, 0400-0530, 1155v-1355v. This could be a deliberate change of freq to allow a later evening broadcast while avoiding the strong N Korean station on 6398v.

Yen Bai now on 6393v at approx 2325-0000, 0400-0600, 0955v-1030, 1200-1330v. Modulation varies between poor and awful. I have been unable to trace *Thai Nguyen* (last heard in early April on 6451v) for several months—presumably it's now inactive, although at the best of times it was far weaker than the other Vietnamese regionals. (15-Jul/Davies-THA/EDXP/Padula-AUS)

A check of Vietnamese regionals noted just after 1200 on Jul-15:

4796 *Son La*, varies around 4795-4796.

5596 *Lao Cai*, //6689, varies around 5595-5598.

6382 *Lai Chau*, recently varying around 6382-6383. Clear ID at 1200 sign-on—this and Yen Bai are easy to confuse as they have more or less swapped frequencies over the last few months. Audio from Lai Chau is usually much better, and the station opens with a long piece of gentle, repetitive music played on strings and woodwind starting around five minutes before the hour. 6393 *Yen Bai*, usual very poor modulation.

6689 *Lao Cai*, //5596. Appeared to be off air for a few days this week, back with poor audio on Jul-14 but clear as a bell on Jul-15. 7155 Ha Giang, apparently relaying Hanoi 1 but as usual hard to hear much due to the very shallow modulation. Varies 7154-7156. (Davies-THA/EDXP/Padula-AUS)

YUGOSLAVIA Since 8th July 1999, *Radio Yugoslavia* has been observed to have reverted to a transmission schedule similar to that broadcast prior to a NATO attack on the Radio-Television Serbia HQ in Belgrade on 23rd April 1999. A reduced schedule had been introduced on 2nd May.

This schedule is based on information from the broadcaster. Broadcasts times may vary and transmissions are often shorter than listed. Radio Yugoslavia's main transmitting site is at Bijeljina in the Bosnian Serb part of Bosnia-Herzegovina.

0000-0030	English	9580 11850
0030-0100	Serbian	9580 11850
0430-0500	English	9580 11850
1430-1500	Arabic	11800 15175-unconfirmed
1500-1530	Russian	11710 11870
1530-1545	Hungarian	6100
1545-1600	Greek	6100
1600-1630	French	9620 11800
1630-1700	German	9620 11870(7215?)
1700-1715	Albanian	6100
1715-1730	Bulgarian	6100
1730-1800	German	7215
1730-1800	Italian	6100
1800-1830	Russian	6100 7165
1830-1900	English	6100 9720
1900-1930	English	7230
1900-1930	Spanish	7220
1930-2000	Serbian	6100 7230
2000-2030	German	6100
2000-2030	Serbian	7230 Su-Fr
2030-2100	French	6100 6185
2100-2130	English	6100 6185
2130-2200	Chinese	6185-unconfirmed
2300-2330	Spanish	9605 9680
2330-0000	Serbian	9580-unconfirmed Su

(BBCM)

ZAMBIA *Christian Voice* sked:

0400-0600	English	6065
0600-1600	English	9865
1600-2200	English	4965

(BBCM)



Pirate Radio Report

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

Hello and welcome to the August edition of the edition of the **PIRATE RADIO REPORT**. I've just returned from a two week vacation at Walt Disney World in Florida. Too hot for me down there this time of year!

Things are a little slow this month, so I think I'll review my tips on proper reporting to pirate stations.

Sending a reception report to a pirate station is similar to reporting to a "legal" shortwave broadcaster, but there are differences as well.

The usual data of time, date and frequency, SINPO or reception quality are required. Since pirates are small time operators, they tend to value your reports more than the average shortwave broadcaster. In my own experience, I've had a better QSL return rate from pirates than standard broadcasters.

Return postage. Since pirates use maildrops to receive and send mail, it is imperative that you either send three 33 cent stamps or \$1.00 US. If you enclose a cassette tape recording with your report, it would be best to double those amounts.

Reception quality. Did the transmission have problems? Was the modulation garbled? Did the frequency drift. Your comments are appreciated

Program comments. Be sure to tell the op what you liked and disliked about his show. What pirates hate most is the listener who tries to suck up to them praising the program. Be honest and constructive in your comments.

Personal stuff. Tell the station about yourself, your equipment, hobbies, etc. Most pirates don't receive more than 10 or so reports per month, so each letter is an encour-

agement to continue his operations. Mail is positive feedback to pirates.

Anyway, I think you'll be happy with your results.

Loggings...

Many thanks to the following who contributed logs this month: Bill Wilkins-CO, Dave Theriault-Nova Scotia, and George Zeller-OH

BLIND FAITH RADIO, was heard in Ohio on July 25th at 2115 UTC on 6955 kHz USB. Dr. Napalm was playing classic rock from the Woodstock album. This station uses the Merlin, Ontario maildrop. [Zeller-OH]

CHU CANADA, the pirate time station was heard on 6950 kHz USB on June 19th at 0020 to 0031 sign off. A good selection of Elvis Costello tunes were heard. [Wilkins-MO]

KERW, was heard at 2157 UTC on July 25th on 6955 kHz USB. They were playing a collage of audio clips from various pirates, such as WRX, WHYP and Radio Bingo. [Zeller-OH]

WMPR managed to make it through the QRM from Peru and was heard on July 17th at 2345 UTC on 6955 kHz in the AM mode with the usual techno stuff including "Wonderwall". It signed off after Iding at 0013 UTC. [Theriault-NS]

WWRB, a new one was noted on June 19th from 0112 to 0144 UTC sign off with a broadcast of R&B/Soul music on 6955 kHz in the LSB mode. [Wilkins-MO]

Anyway, that's it for this month. Be sure to send in logs for next month's column!

Happy Pirate DX!



QSL Report

Sam Barto
47 Prospect Place
Bristol, CT 06010



ALBANIA: Trans World Radio 7385 via Shijak f/d cd. in 1 mo. (Craighead-KS).
ANTIGUA: Deutsche Welle 17715 via Saint John's f/d "Transmission Towers" cd. in 401 ds. v/s Horst Scholz, Transmission Management. (Humenyk-ONT). 9640 f/d "Wertachtal Transmitting Site" cd. in 364 ds. (Stewart-MO).
ARGENTINA: Radiodifusion Al Exterior 11710 f/d "41st Anniversary" cd. w/ report form and a personal ltr. in 3½ mo. for \$2.00. v/s Maria Ines Tabares, English Dept. (Myers-VA).
ARGENTINE ANTARTICA: LRA36 Radio Nacional Arcangel San Gabriel 15475.8 f/d cd. w/ ltr. v/s Fernando R. Garcia Pinasco, Jefe de Base Antartica Esperanza. (Castro-BRASIL).
ARMENIA: Radio Free Asia 11510 via Kamo p/d ltr. in

Canadian Broadcasting Corporation
Molander

is pleased to verify your reception on April 19 1998

of its transmissions from

Station CKZU

Frequency 6.16 MHz

Power 1000 watts

This station is on the

CBC PACIFIC Network

Per Dave Newberry

Date April 27, 1998

Comments THANK YOU FAX

YOUR REPORT

NOTES: Gene Borokowski of 139 Regan Avenue, Staten Island, NY 10310 is requesting a current address for the Voice of Africa. As far as I know this is Radio Jamahir-ya. Use the Malta address. If I'm not correct can some other member assist Mr. Borokowski?.....Sam.

3 mo. w/ sticker and w/o site. (Barto-CT)
ASIATIC RUSSIA: China Radio 9450 via Petro-pavlovsk Kamchatsky f/d ltr. w/ site in 17 ds. v/s Richard E. Adams. (Craighead-KS). Voice of Russia 17565 via Komsomolsk-on-Amur f/d E-mail in 1 day for an E-mail rpt. (Neal-TX).

AUSTRALIA: Radio Australia 9660, 15240 and 17750 via Shepparton f/d "ABC Southbank Centre" cd. w/ schedule in 73 ds. (Humenyk). 17795 and 21740 same cd. in 73 ds. for the Brandon site. (Humenyk-ONT).

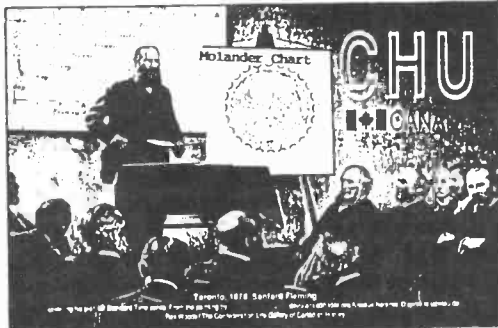
BRASIL: ZYG792 Radio Educadora 3375 p/d ltr. in 65 ds. for a PT rpt. and \$1.00. Brazilian stamps were rcvd. v/s Padre Isidoro Jose Moro, Director. (Palmersheim-WA).

BULGARIA: Radio Bulgaria 11720 f/d "St. Nedelya Square" cd. in 61 ds. w/ schedule and stickers. (Humenyk-ONT).

CANADA: CKZU 6160 p/d "CBC" cd. in 2 wks. for \$1.00. (returned). v/s Dave Newberry. (Myers-VA).

CHILE: Radio Voz Christiana 21550 "Flowers and Cross" cd. in 25 ds. for \$1.00. Used FL addr. (Davis-NM). 17680 f/d cd. w/ site in 39 ds. for 2 ms. (Buer-FL).

CHINA, PEOPLES REPUBLIC OF: China Radio International 15500, 11975, 9820, 7800, 7335 and 7110 f/d cd. w/ sked. in 3 mo. (Barto-CT).



CANNABIS SHORTWAVE



The Station
With Your Mind In Mind.
via Lobdell



KNBS



KNBS is operated by The California Marijuana Cooperative to advocate the decriminalization of marijuana.

This will confirm your reception of KNBS

on 7415.4658 kHz,
at 1830 UTC
on MARCH 21, 1982

ECUADOR: HCJB 17795 f/d

"Andes Mountain w/ carved Logo" in 1 mo. w/ sticker, nesitr. and a pocket calendar. v/s Kazuo Ozaki, Director. (Humenyk-ONT). 12015 and 15115 f/d "Soldiers Band" cd. in 50 ds. w/ rpt. forms. v/s John Beck, Station Manager. (Humenyk). 11920 f/d "Musician Playing a "Ronadador" cd. w/ stickers in JP and schedule in 2 mo. (Barto). 21455 f/d cd.

in 6 wks. w/ sticker, schedule and a pocket calendar. (Barto-CT).
ERITREA: Voice of the Broad Masses of Eritrea 7175 f/d white cd., stamped w/ a camel seal in 2 mo. (Craighead-KS).

VERIFICATION SIGNERS: NHK Sri Lanka Relay Station 11880 C. Okamura. **Radio**

Caroline 13690 via **Merlin Communications** Addr: 148 Grange Rd., Rams-gate, Kent CT11 9PR, England. **Andino Relay Service** 7590 via **SWRS** Pac-hakuti. Addr: Casilla 159, Santiago 14, Chile. **Radio Mi Amigo** 3925

Addr: PB 2188, NL-3000 CD

Rotterdam, Netherlands. **Play**

DX Music 3905 and 7590 via

SWRS Dario Monferini. Addr:

Via Davanzati 8, 20158 Milano,

Italy. **Radio Amazonia** 11470

via **SWRS** Addr: SRS, Ostra Por-

ten 29, SE-44254 Ytterby, Swe-

den. **Free Latino American Ra-**

dio Station via **Radio Cochi-**

quaz Addr: Casilla 1159, Cor-

reco Central, 1000 Buenos Air-

es 1000, Argentina. **Voice of**

the Mediterranean 12060 Addr:

P.O. Box 143, Valletta, Malta

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

RADIO FROM RADIO

STRANGE

STRANGE

We are pleased to verify your reception of:
Radio Strange on UTC/NOV 92 at 0129 UTC, on 7416 kHz.
We radiate 250 Watts from a half wave dipole antenna.
Radio Strange are only the most eclectic and offbeat
programming. Radio Strange is against censorship.
Radio Strange is a union shop. Radio Strange does not
pollute the air. Thank you for listening.

TO: CHRIS LOBDELL QSL# 027

Zytron Glyzerach, owner-engineer-gsm mgr-also Jockey.

Zytron Glyzerach

ETHIOPIA: Radio Fana 6210 f/d green cd. in 9 wks. (Craighead-KS). **Voice of the Revolution of Tigray** 5500 f/d 2 page ltr. along w/ "Saint Mary of Zion Cathedral in Azum" cd. in 2 mo. for \$1.00. v/s Fre Tesfamichael, Director. Cathedral and Mother Theresa stamps on the envelope probably indicate the orientation of this station. (Craighead-KS).

EUROPEAN RUSSIA: Voice of Russia 12030 via **Krasnodar** f/d E-mail QSL in 5 ds. for an E-mail rpt. (Neal-TX). 12070, 12030, 12010, 11630, 7440, 7390, 9470, 9775 and 9830 f/d cd. in SP w/ stickers, postcards, and a personal ltr. in 2 mo. for a SP rpt. v/s Francisco Rodriguez. (Barto-CT).

FINLAND: Radio Finland 15545 f/d cd. w/ schedule in 1 mo. (Glotzbach).

GERMANY: Good News World Radio 6155

* via **Julich** f/d "Telegraph/Logo" cd. in 169 ds. (Humenyk). **RTBF** 17800 via **Julich** f/d "Satellite Dish" cd. in 13 ds. (Craighead-KS) **Deutsche Welle** 6145 via **Wertachtal** f/d cd. in 1 yr. for an E-mail rpt. (Neal-TX). **Sunrise Radio** 5850 via **Julich** p/d ltr. in 11 ds v/s Somaira Sadeghi, PA to Chief Executive. (Craighead). **Sudwest-rundfunk Radio** 7265 via **Rohrdorf** f/d "Earth and SWR Logo" cd. in 13 wks. (Craighead-KS).

STANDARD TIME AND FREQUENCY STATION RID

QSL

Dear EDWARD KUSALIK

Thank you for your report of my transmission detailed as follows:

Date: _____ Time: _____ Frequency (kHz): _____

File # _____

I can confirm that the above transmission was radiated from this station.

Signed *Gregg R. Spence*

REGULATORY AUTHORITY
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, DC 20541



GREECE: Voice of Greece 9420 f/d "Beach in Lefkas" cd. in 22 ds. (Borowski-NY).

GUAM: Adventist World Radio 17635 f/d "Tumon Bay w/ Hotels" cd. in 29 ds. Also rcvd. schedule, rpt. card and a pocket calendar. v/s Lolita Colegao. (Humenyk) 11560 f/d "Philanthropy Stamp" cd. in 46 ds. for \$1.00. (Borokowski-NY).

HAWAII: Radio Free Asia 9930 via KWHR p/d ltr. in 3 mo. w/ sticker. (Barto-CT).

HONDURAS: HRVC La Voz Evangelica 4820 n/d "Map and Logo" cd. in 1 mo. w/ sticker, personal ltr. v/s Modesto Palma, Director. (Humenyk-ONT).

HUNGARY: Radio Budapest 11985 f/d cd. for a special broadcast in Italian in 117 ds. v/s Luigi Cobisi, Florence DX Club. The

VERIFICATION SIGNERS: Radio Blandequé 21450 via SWRS Raul Gonzales, DJ. Addr: Box 2571, Buenos Aires, Argentina...may of changed recently to Casilla 159, Santiago 14, Chile. Radio Pasteur 6980 via Radio Cochiquaz Claudio Morales, Director General and/or Emiliano Cabonell, Productor Ejecutivo. Addr: Casilla de Correo 1852, Corr-

eo Central, 1000 Buenos Aires, Argentina.

Radio Strike 21450 via SWRS Roberto Scaglione. Addr: P.O. Box 119 - Succ. 34, IT-90114 Palermo, Sicily, Italy. Radio Titanic International 6980 via Radio Cochiquaz P.O. Box 220342, DE-42373 Wuppertal, Germany. Radio Wonderful 11470 via SWRS same as RTI above. Star Club Radio 6980 via Radio Cochiquaz Roy Clark. Addr: same as RTI above. Shortwave Relay Service 11470 as above. Trans Atlantic Radio 6955 via WREC P.O. Box 4427, NL-3006 AK, Amsterdam, Holland...via PLAY DXSam.



newsltr. says that I am the only Canadian DXer to receive this Special QSL. (Humenyk-ONT).

ISRAEL: Kol Israel 9435 and 15650 f/d blue cd.

in 73 ds. w/ rpt. form and schedule. (Humenyk-ONT).

ITALY: RAI 11800, 11755, 9675, 9575 and 6010 p/d stamped cd. in 2 mo. w/ schedule and sticker. (Barto-CT). 21520 and 17780 p/d cd. in 9 wks.

(Barto). "Globe on Water Painting" cd. in 1 mo. (Humenyk-ONT).

* Voice of the Mediterranean 7155 f/d "Malta" cd. w/ "Rome" site in 3 wks. (Craig-head-KS).

KALIMANTAN: RRI

* Pontianak 3976 f/d cd. w/ personal ltr. in IN in 1 mo. for an IN rpt. and after a f/up rpt. w/ \$2.00 The QSL ltr.

NATIONAL BROADCASTING COMMISSION
RADIO EAST NEW BRITAIN
"MAUS BILONG TAVUYUR"

Dear Sir, via Kevin Murray

Your reception report dated 30 May, 1992 has been examined.

This confirms that you were listening to Radio East New Britain on 30 May, 1992

This station is operated at a normal frequency (continually operated on 15.000 MHz, 15.000 MHz and 15.000 MHz).

Thank you for your interest in reporting on our transmission.

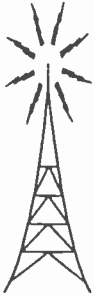
Yours faithfully,

STATION MANAGER.

Nassau Broadcasting Partners, LP

619 Alexander Road • Third Floor • Princeton, NJ • 08540
U.S.A.

Thank you for your recent communication. This will verify your reception of Nassau Broadcasting Partners, LP station



WTTM - AM 1680
10.00 kW Day - 1.00 kW Night
N 40-22-00 W 74-44-38



On Sunday May 2nd 1999 between 0930 and 1006 hours EDT

Anthony A. Cervasi, Jr.
Anthony A. Cervasi, Jr.
Sr. Vice President - Engineering & Technology

requested a gift of a cassette recorder. The QSL was sent via registered mail w/ 9,500 rupiah in postage. v/s Ruddy Banding. Addr: P.O. Box 1005. Thanks to Henry Lazarus tip on this one. (Maroti NY).

KAZAKH REPUBLIC: Radio Free Asia 15705 via **Almaty** f/d 1tr. w/o site in 3 mo. (Barto)

KOREA, REPUBLIC OF: Radio Korea International 15575 via **Kimje** f/d "Year of


Architecture" cd. w/ rpt. forms, newsitr., contest form and schedule in 2 mo. (Humenyk-ONT).

VERIFICATION SIGNERS: Radio Estudio "WB" Moyobamba 6690 Walter Espinoza Trujillo, Gerente. Addr: Jiron Alonso De Alvorado 1435, Correo Central de Moyobamba, Peru. E-mail: karolineneil@mixmail.com. **Radio Vica-**

toria 9720 Martha Rojas (Iglesia Pentecostal Dios es Amor). **Radio Luz y Sonido** 3235 Pedro Martinez Tineo, Director. Addr: Jiron 2 de Mayo 1286, Oficina 205, Huanco, Peru. **Radio Panorama** 5906.8 Segundo Ayala Brione. Send rpt to: **La Voz de Los Andes**, Plaza de Armas, Sorochuco, Distrito de Sorochuco, Provincia de Celendin, Departamento de Cajamarca, Region Autonoma del Marañon. **Radio Union** 6115 Carlos Gonzales Solimano, Director and/or Natividad Albizuri Salinas, Secretary. Addr: Apartado 833, Lima 1, Peru.via PLAY DX.....Sam.

We gratefully acknowledge your report on

station : RY
frequency : 9565
date : 29-11-91
time loc. : 22.30-23.15

 **RADIO JUGOSLAVIJA**
P. O. Box 800, Hilendarska 8
11000 Beograd
YUGOSLAVIA

for
Ross Comeci
Flowerhill, MA
USA

KUWAIT: Radio Kuwait 9855 and 15495 via **Kabd** f/d folder cd. in 108 ds. w/ schedule, pocket calendar and a very informative Kuwait fact and figure book. (Humenyk).



RADIO EDUCACION
Cultura con imaginación





SECRETARÍA DE EDUCACIÓN
Certificado de Sintonía
RADIO EDUCACION

QSL

PARA EL SR. KIRK TRUMPLE
Agosto 17 de 1993.

Su Informe de recepción
del 29 de Julio de 1993 es correcto.

Usted escuchó en esa fecha Radio Educación,
pues su reporte coincide con nuestros registros.

Continúe escuchándonos.

Nuestra programación es su mejor compañía.


Director General

LEBANON: High Adventure Radio 11530 via **Mar-jayoun** f/d cd. w/ schedule in 46 ds. v/s Gary Hull. (Humenyk-ONT).

NEW ZEALAND: Radio New Zealand International 9700 f/d "Birds" cd. in 19 ds. w/ schedule. (Palmersehim-WA).

PHILIPPINES: Radio Ver-titas Asia 9520 cd. w/ postcard in 82 ds v/s Ms. Cleofe R. Labindao. (Castro-BR).

Mr. John Sgrulletta,

This letter serves as confirmation of your Jan 21, 1999 reception of Armed Forces Radio and Television. The signal originates from Naval Computer and Telecommunications Area Master Station, Key West, Florida at 12689.5 khz and Naval Computer and Telecommunications Station, Puerto Rico at 6458.5 khz.

Naval Computer and Telecommunications Area Master Station, Key West, Florida broadcasts with a 48 foot inverted cone antenna from Boca Chica, Florida with 8 kilowatts of power. Naval Computer and Telecommunications Station, Puerto Rico broadcasts with a ground-based, omnidirectional wire antenna with a 30 foot diameter. The signal is broadcast at 10 kilowatts from Isabela, Puerto Rico

a reception in Vietnam. This may of been for the clandestine "Voz da Timor" station whos-ID was heard the previous day. (Craighead-KS). Deutsche Welle 15470 via Sines f/d "Transmission Tower" cd. in 36 ds v/s Horst Scholz. (Humenyk-ONT).

PUERTO RICO: ARRTS 6458.5 via Isabela p/d ltr. w/ site in 15 ds. for ms (not used). v/s Wayne E. Eternicka, Broadcast Operations Specialist. (Davis-NM).

POLAND: Polish Radio
Warsaw 9525 f/d cd. in 44 ds. for \$1.00 v/s Rafal Klepuszewski. (Borokowski-NY). f/d "Logo" cd. in 243 ds. after a f/up rpt. (Borokowski-NY).

PORTUGAL: RDP Internacional 17740 f/d "Two Belem Bridge" cd. in 5 wks. for



VERIFICATION SIGNERS: RTBF 21540 Room 7M57, Bv., Reyes 52, B-1044 Bruxelles, Belgium
Radio Centenario La Nueva 4855 Casilla 818, Santa Cruz, Bolivia. Voice of the Palestine Revolution 7190 E-mail address cimon73@hotmail.com. Rpt. to IRIB Teheran. They will for Das Wort, die kosmische Welle ward rpt to VOPR.

NHK Sapporo 6005

7 Oddori Nishi, Chuo Ku, Sapporo 06-8703, Japan.

La Voz de Saquisilí y El Libertador 4900 Arturo Mena. Addr: C.P. 669, Saquisilí, Ecuador.

Sunrise Radio 5850

Addr: Sunrise House, Sunrise Road, Southall, Middlesex, England. Sudwestfunk 7265 Addr: Technische Information, DE-70150 Stuttgart, Germany. Radio Luz y Vida 3250 Chris Lleck. Addr: A.P. 303, San Pedro de

Postfach 5613, 97096 Würzburg, Germany
Tel 0049/931/3903 0 fax 3903 299

QSL CARD Number

Thank you for your reception report of our transmission.

to: 24-6-1997
on: 15:00 - 15:12 UTC
at: 154604Hz
freq:

which is in accordance with our schedule. We hope that you will continue to enjoy our programme.

Sula. Radio Sana'a 9780 Ali Al-tashi, Technical Director and/or Mahammed Dahwan, General Director. Addr: P.O. Box 2371, Sana'a, Yemen.via PLAY DX.....Sam.

ROMANIA: Radio Romania International 11940, 11830, 9510 and 5990 f/d "Womens Costumes" cd. w/ schedule in 2 mo. (Barto). 15390, 17790 and 17805 f/d "Ox Driven Carts at Oratii" cd. in 3½ mo. w/ schedule and stickers. (Barto-CT).

RUSSIA: Voice of Russia 9465, 9450, 7400 and 7305 f/d cds. in 4 mo. w/o sites. (Barto-CT).

SAIPAN: Radio Free Asia 13735 f/d ltr. in 71 ds. w/ RFA sticker. (Humenyk-ONT).

SINGAPORE: Radio Telefis Eireann 11740 * via Kranji f/d "Irish Landscape" cd. in 41 ds. for \$1.00. Also rcvd. key chain, decals, postcards, magnets and pens. (Borokowski-NY). BBC 7110 via Kranji f/d "Building w/ Transmission Towers" cd. in * 158 ds. (Humenyk). Radio Nederland 11690 via Kranji f/d cd. in 2 wks. (Craighead-KS).

SLOVAKIA: Radio Slovakia International 7300 f/d "Pres-

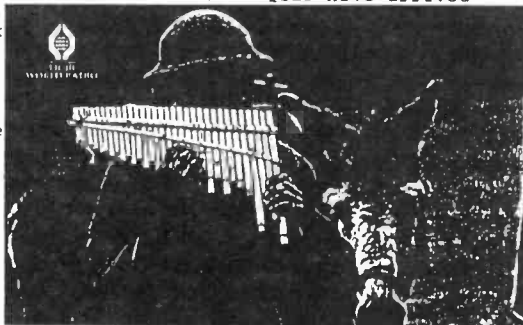


Blue and yellow Macaw

idental Palace" cd. in 52 ds. (Borokowski-NY). Advertiser World Radio Europe 11600 via Rimavska Sobota f/d "Newbold College of Bracknell, UK" cd. in 36 ds. w/ stamp, rpt. form, personal ltr. and a pocket calendar. (Humenyk-ONT). SOUTH AFRICA: Channel Africa 11720 via SENTECH f/d "Johannesburg Tower" cd. w/ stickers and schedule in 32 ds. v/s Kathy Otto. (Borokowski-SWAZILAND: Trans World Radio 4775 ski-NY). f/d folder cd. in 60 ds. for 3 IRCs. Also rcvd. religious literature and schedule. (Wilkins-MO) SWEDEN: Radio Sweden International 9495 and 12060 f/d "Sundsvall" cd. in 11 ds. for an E-mail rpt

NOTES: Eric Bueneman says that the expanded medium wave QSLs (1610-1700 KHz) that we occasionally list here in the QSL Column should be eliminated. They are not considered to be shortwave broadcast by NASWA's own definition. More rightly they belong in the IRCA bulletin. Eric is correct; however, if I have space available I saw no harm in it...Sam. Does anyone else have an opinion?....Sam. Gene Borokowski says the month of June has been kind to him. QSLs have arrived from Ascension, Swaziland, Uzbek and France. Good QSLing.....Sam.

Taylor McNeil in Wakefield, MA is a regular reader of the bulletin and says hello to everyone...Sam. Jim Moats in Ravenna, OH sent along another very detailed listing of the Radio Free Asia schedule. Thank you.....Sam.




to the station's web site. (Palmerheim-WA). TERACOM 13580, 13625 and 13635 f/d "Horby Control Room" cd. in 25 ds. v/s Mr. Hakan Widerstedt. (Craighead-KS). SYRIA: Radio Damascus 12085 after trying for nearly 3 years with many f/up rpts., I sent a new report and 10 weeks later I received via registered mail, 2 f/d cds. w/ a sticker and a copy of the Syria Times. (Maroti-NY). f/d "Logo" cd. in 54 ds. w/ sticker, schedule & newspaper. (Borokowski-NY). 12085 and 13605 f/d "Globe w/ Tower" cd. w/ sticker, schedule and newspaper in 123 ds. (Humenyk-ONT). TADZHIK REPUBLIC: Radio Free Asia 15695 via Dushanbe p/d ltr. w/o site in 3 mo. (Barto-CT).

TAIWAN: Radio Taipei International 15695 f/d "Taiwanese Theatre Performance in Costume" cd. in 100 ds. (Humenyk).

TURKEY: Voice of Turkey 9445 via Cakurlar f/d "Turkish Woman in a Local Headdress" cd. w/ sticker and schedule in 50 ds. (Humenyk). 21715 via Emirler same f/d cd. in 27 ds. w/ schedule, sticker and station pennant (Humenyk-ONT).

USA: WHRI Angel 2 6040 f/d cd. in 5 wks. w/ schedule. (Barto-CT). Voice of Asia 5950 via WYFR f/d cd. in 5 wks. Also rcvd. station pennant,



Tune in everyday to
RADIO ETHIOPIA

On:

- 25 mb SW (11,800 KHz)
- 31 mb SW (9560 KHz)
- 41 mb SW (7185 KHz)
- 303 meters MW (988 KHz)

☎ 71111 ☐ 654

ADDIS ABABA, ETHIOPIA

schedule, calendar, decal and photo. (Craighead-KS).

Radio Taipei International 9680 via WYFR f/d cd. in 100 ds. w/ schedule and newsltr. (Humenyuk-ONT).

WJPP 26470 via Fort Pierce, FL f/d prepared cd., signed and stamped, in 41 ds. for ms. and \$1.00. Also rcvd. a very good looking postcard. Addr: 2192 No. US Highway 1, Ft. Pierce, FL 34946-8912. (Davis-NM).

Radio Free Asia 15510 via Delano f/d ltr. w/o site in 2½ mo. Sticker was rcvd. (Bar-to-CT). 15515 f/d ltr. w/o site in 13 ds. w/ 2 stickers for \$1.00. (Davis-NM).

AFRTS 12689.5 via Key West, FL p/d ltr. in 1 mo. for ms(not used). (Davis-NM).

Radio Free Asia 9355 (no site) f/d ltr. w/o site in 2½ mo. Sticker rcvd. (Bar-to-CT).

Radio Telefis Eireann 12160 via WWCR f/d

"Irish Landscape" cd. in 3 wks. for \$1.00 and ms. (Not used). (Davis-NM).

* Radio Prague 9955 via WRMI f/d "Aero 50 Car" cd. in 1 mo. (Craig head-KS). WWBS 11900 n/d ltr. (the thank you for your report on tape style) in 2 wks. for SASE (not used) and \$5.00 (returned).

v/s Charles C. Josie, Owner. This was my 3rd try to verify this station. (Davis-NM).

VATICAN: Radio Vatican 7305 f/d "Popes at the Microphone" cd. in 59 ds. w/ stickers, schedule, posters and postcards. (Borokowski). 7305 and 9605 f/d "Earth Station Satellite" cd. w/ sticker and schedule in 3 mo. (Bar-to-CT). 11640 f/d cd. in 2 mo. (Bar-to-CT). 7305 f/d cd. in 2 mo. w/ calendar, schedule and postcards. (Palmerheim-WA).

VIETNAM: Voice of Vietnam 12010 and 15110 f/d cd. w/ stickers in 9 wks Schedule was also rcvd. (Bar-to-CT).

CALL - QRX -

My name is E. P. B. Emissora
Provincial de Benguela

Work 24 Hours for 24 Hours

Sw - 49 60m

Am - 199 250m

Fm - 89.6 101.7 105.4 mbz

This is my qsl in Answer your
Letter of the day 23 / 12 / 1993

Thanks for your letter

QSL CARD

73's Sam

ESPERANZA
104.9 FM STEREO
TEMUCO



ESPERANZA
ONDA CORTA - BANDA 49 m.
6.090 KHz. - TEMUCO



ESPERANZA
98.5 FM STEREO
ANCUD

Confirmando en copia de sintonia de nuestra estación de Onda Corta, que transmite desde Temuco, en la República de Chile, en la frecuencia de los 6.090 KHz, en la Banda Internacional de los 49 m. el día 18 de Octubre de 1992 desde las 05:33 hasta las 06:05 Hora de Chile. (09:33 a 10:05 hora UTC)



Sello

Eleazar H. Jara
Jefe Depto. Programación.
Firma

Gracias por su INFORME DE SINTONIA.
Le cobrará el psalbre más adelante en cuanto se ponesse a nuestras órdenes.

Net Notes

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

Sorry to miss providing the column last month, but in the latter part of June, on no notice, we wound up in the hospital for an 8-day stay — and we were in no shape to inform the NASWA publisher.

The Voice of Asia has changed from <http://www.cbs.org.tw/english/engb.html> to <http://www.voiceofasia.actis.kz/eng/about/index.html>. We don't get a live page there, but <http://www.cbs.org.tw/english/engprogram/engb.html> seems to be active. From this page you can pick either Radio Taipei International or the Voice of Asia. RAI (Italy) had a page at <http://www.mix.it/raiinternational/> but this has changed to <http://www.rai.it/>; the English language page is at <http://www.rai.it/eng.htm>. Note that this is not the page the button on the home page takes one to. And the Radio Jamaica URL of <http://www.jol.com.jm/thelwelr/RJRFriend.html> has changed to the easier URL of <http://www.radiojamaica.com/>.

Andy Sennitt of Radio Netherlands sent word of two updates.

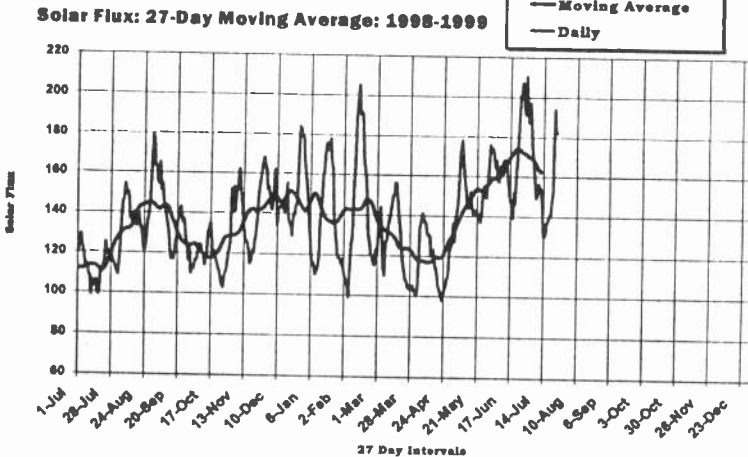
New to the Web is Albanian Radio Television, additionally known as Radio Televizioni Shqiptar. The site is hosted in Austria. The current broadcast schedule — for Europe and North America — is posted. There is no audio on the site. In fact, the server seems to be a bit slow even on a T1 or ISDN connection, so be patient. The URL is <http://rtsh.sil>.

at/. Watch for further developments.

There is a vastly improved Web site for the Voice of Vietnam. Lots of information, news stories, weather, audio on-demand, and links to other Vietnam Web sites all can be found here. Unfortunately there is a silly arrangement to access the English language page. The English language page URL changes with the date, e.g. http://www.vov.org.vn/1999_07_21/Defaultv.htm. But we note the English language page is not updated every day. The only realistic option is to go to the main URL of <http://www.vov.org.vn/> and then click on the English language button-link atop the page.

Then we looked further. The unofficial pages of the Voice of Vietnam prepared by Mrs. Nguyen Thi Thu Hang (TNVN) and Australian Ian Collard have not been updated since 1996, so I think it is time to drop these Web sites off the radar screen. The page is hosted on a Vietnamese server and mirrored in Australia. The URLs are http://www.ioit.ac.vn/tieng_noi_vn/tnvn.html and http://coombs.anu.edu.au/~vern/tieng_noi_vn/tnvn.html, respectively. Frankly I think the authors should remove these pages. It is a disservice to leave old information on the Web, as it just confuses those new to the Internet or those who do not pay attention to dates. But we have no control over such matters. Poof!

Changes have come to our own Web site. Read the "Musings" page for details.




Contributors' Page

Fred S. Kohlbrener
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
Ross COMEAU, Andover, MA	R8 325' LW
Peter COSTELLO, Matawan, NJ	AR3030 DX-390 YB400 70' LW Tun-4A
Nicolas ERAMO, Buenos Aires, ARGENTINA	Sony 2010 ICF-7600 7600G LW's
Jeff FINDLATER, Los Angeles, CA	
Mark FINE, Remington, VA	
Bob FRASER, Cohasset, MA	Sony ICF-2003 ICF-SW100S 2m LW
Andre FREDETTE, Oakville, ONTARIO	NRD-535D R8B G5RV
George GLOTZBACH, Santa Fe, NM	Grundig G-2000A 23' LW
Hugh O. GRIFFIN, Jr., Portsmouth, VA	
Bob HILL, Littleton, MA	Sony 2010 120' dipole at 35'
Mark HUMENYK, Weston ONTARIO	Magnavox D-2935 AN-60 DX-SWL sloper
David KRAUSE, Eastlake, OH	Kenwood R600
Jerry LINEBACK, Scranton, KS	Icom 746 beverage antennas
Jack LINOIS, West Middlesex, PA	DX-375 DX160A NCX-20 65' LW Sloper
William McGUIRE, Cheverly, MD	DX-380
Gary NEAL, Sugarland, TX	Grundig YB-400
Don NELSON, Beaverton, OR	HF1000A NRD-545 R7A 70' LW
Jay NOVELLO, Wake Forrest, NC	R8A LW's
Takayuki Inoue NOZAKI, Tokyo, JAPAN	NRD515 NRD535 FRG7000
Denis PASQUALE, New Brighton, PA	Sony 2010 beverage antennas
Sheryl PASZKIEWICZ, Manitowoc, WI	R8 NRD-525 60' LW Eavesdropper
Bob RAYMOND, Nashua, NH	DX-398 20m 5/8 wave vertical
Chuck RIPPEL, Comland, VA	WJ-HF1000A R8B R390A/SE-3 51S-1 LW's
Betsy ROBINSON, Clinton, TN	Sony 2010 Indoor antenna
Giovanni SERRA, Rome, ITALY	NRD-525 AD Sloper
Randy STEWART, Springfield, MO	FRG-100 w/Collins filters
Gerald WITHAM, Keaau, HI	R8 ANC-4 135' LW
Bobby WRIGHT, Mount Airy, NC	

The deadline for contributions to the Scoreboard column is almost here. Send your updated totals to me at the above address no later than August 15th. The spotlight will be on Africa. If you have never participated in the Scoreboard column before why not begin now. You don't need big totals to participate. Totals are based on the NASWA Country List, available for \$3 from Bill Oliver at 45 Wildflower Road, Levittown, PA. 19057. 


Tropical Band Loggings

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

- CORRECTION TO LAST MONTH: Radio Coatan was listed as 4799. Should be 4779.
- 2310 AUSTRALIA ABC 6/16 1047 EG talk //others (Line-KS)
 - *2379.9 BRAZIL R Educadora 6/19 0034 instl mx, emphatic tlk (Hill-MA)
 - 2410 NEW GUINEA R Enga 6/21 1049 mx, poor (Line-KS) Still trying—sp
 - 2460.1 BRAZIL R Alvorada 6/19 0132 ads, echo anmts, Titanic song (Hill)
 - 3205 NEW GUINEA R Sandaun 6/23 1044 lang tlk, poor (Line-KS)
 - 3220 NEW GUINEA R Morobe 6/16 1039 lang talk mix w/HCJB (Line-KS)
 - 3235 NEW BRIT RWNB 6/21 1-048 lang talk, poor (Line-KS)
 - 3245 NEW GUINEA R Gulf 6/21 1048 local mx, poor (Line-KS)
 - 3245.1 BRAZIL R Clube 6/19 0039 echo anmts, country mx, echo (Hill)
 - 3249.5 HONDURAS Luz y Vida 7/2 0202 mx, poor (Smit-TX)
 - 3260 NEW GUINEA R Madang 6/21 1047 lang talk (Line-KS)
 - 3265 SULAWESI Gorontalo 6/16 1046 IN tlk (Line-KS)
 - 3275 PAPUA R S Highlands 6/21 lang talk (Line-KS)
 - 3279.6 ECUADOR LV del Napo 7/2 0209 talk (Smit-TX)
 - 3280 ECUADOR LV del Napo 6/10 0930 huaynos, organ mx, nx (Robi-TN)
 - 3305 NEW GUINEA R Western 6/16 1036 local mx (Line-KS)
 - 3306 ZIMBABWE ZBC 7/25 0420 talk in lang, drums (Pasz-WI)
 - 3315 ADM ISL R Manus 6/21 1047 lang tlk, EG cmtry (Line-KS)
 - 3319 UNID 7/2 0213 mx & OM anncr (Smit-TX)
 - 3324.8 GUATEMALA R Maya 7/2 0218 male talk (Smit-TX)
 - 3326 NIGERIA R Nigeria 6/27 2024 EG organ, anmts, IDs (Serr-IT)
 - 3335 NEW GUINEA R E Sepik 6/21 1046 lang tlk (Line-KS)
 - 3345 MOLUCCAS Ternate 6/21 1048 IN talk (Line-KS)
 - 3355 TAIWAN CBS 6/27 2019 CH talk, pop song (Serr-IT)
 - 3360.1 GUATEMALA LV de Nahuala 7/2 0224 mx, talk (Smit-TX)
 - 3366 GHANA GBC 6/27 1903 talk, pop mx, poor (Serr-IT)
 - 3375 PAPUA R W Highlands 6/21 1044 local mx (Line-KS)
 - 3380 GUATEMALA R Chortis 7/2 0230 a regular every nite (Smit-TX)
 - 3395 NEW GUINEA R E Highlands 6/29 1117 talk, mx (Line-KS)
 - 3493.8 BOLIVIA R Emis. Padilla 7/16 0024 tent w/tlk & mx (Maro-NY)
 - 3905 IRIAN JAYA Merauke 6/21 1043 tlk, mx mix w/New Ireland (Line)
 - 3976 KALIMANTAN Pontianak 6/21 1055 talk (Line-KS)
 - 4000.2 SULAWESI Kendari 6/21 1055 IN talk (Line-KS)
 - 4534.2 PERU R Horizonte 6/13 0353* folk mx, anmts, no NA (Alex-PA) 7/2 1103 mx w/echo (Smit-TX)
 - 4606 IRIAN JAYA Serui 6/21 1055 IN talk (Line-KS)
 - 4702.2 BOLIVIA R Eco 6/19 1112 poor w/ID & cumbia (TIN-JP)
 - 4748.3 PERU R Huanta 2000 6/29 0115 Andean mx, Ids, yipping (Nove-NC)
 - 4753.3 SULAWESI U-P 6/21 1054 female vcls (Line-KS) 7/2 1110 vcls, quick fade (Smit-TX)
 - 4770 NIGERIA Kaduna 6/1 1837 tlk, fair (Serr-IT)
 - 4779.7 GUATEMALA R Coatan 7/2 0157 slow talk (Smit-TX)
 - 4784 MALI RTM 6/27 1945 IS, ID, nx //4835 (Serr-IT)
 - 4788 UNID 6/18 0014 rambling SP talk, ads, echo (Hill-MA)
 - 4789 IRIAN JAYA Fak-Fak 6/21 1054 female vcls, het from Peru (Line)

- 4799.8 GUATEMALA *Buenas Nuevas* 7/2 0115 loud in lang (Smit-TX)
 4805 BRAZIL *Rdf Amazonas* 0040 abt Pan-Am Games in Winnipeg (Lino-PA)
 4810 ARMENIA *Vo Armenia* 6/1 1843 talk, mx, ID (Serr-IT)
 4824.4 PERU *La Voz de la Selva* 6/19 1053 El Madrugador pgm (TIN-JP)
 4825 BRAZIL *R Cancao Nova* 0100 pop mx, anmtns, IDs (Lino-PA)
 4835 MALI *RTM* 6/27 1936 ment Mali in lang, p-f (Serr-IT)
 4845 GUATEMALA *R Kekchi* 7/2 1125 vy strong, really 1250w? (Smit) booming in w/ID 7/13 0355* (Pasz-WI)
 4845 MOLUCCAS *Ambon* 6/21 1053 talk, drama (Line-KS)
 4850 CAMEROON *Yaounde* 7/08 0051 FR OM tlk (Pasz-WI)
 4855 BOLIVIA *R Centenario* 6/19 0000 ID, romantic vcl (Hill-MA)
 4875 IRIAN JAYA *Sorong* 6/21 1052 IN talk (Line-KS)
 4890 PAPUA *NBC* 6/21 1049 lang tlk (Line-KS)
 4890.2 PERU *R Chota* 6/13 0030 tlk, folk mx, ID (Alex-PA) 7/2 0138 talk, mx (Smit-TX)
 4900 CHINA *Vo Strait* 6/5 1640 CH vcls, poetry, nx (With-HI)
 4904.8 PERU *R La Oroya* 7/2 0132 mx (Smit-TX)
 4905p COLOMBIA *Ecos del Orinoco* 0130 fast talk, fading (Lino-PA)
 4915 GHANA 6/26 2105 ment Ghana, talks (Serr-IT)
 4915 PERU *R Cora* 0130 interview & nx (Lino-PA) Contribute often!
 4919 ECUADOR *R Quito* 6/11 1000 mx, ID, nx (Robi-TN)
 4925 SUMATRA *Jambi* 6/20 1200 SCI //other 60m Indos (Line-KS)
 4930.6 HONDURAS *R Costena* 7/2 0150 rel mx, prayer (Smit-TX)
 4935 PERU *R Tropical* 7/2 0148 mx (Smit-TX)
 4939.5 VENEZUELA *R Amazonas* 7/2 0145 swingin' Latin mx (Smit-TX)
 4960t VIETNAM *Vo Vietnam* 6/29 1121 lang talk (Line-KS)
 4976 UGANDA *RU* 6/27 1925 talk abt Uganda, p-f (Serr-IT)
 4980 VENEZUELA *Ecos del Torbes* 0100 poss futbol, ID (Lino-PA) Tnx!
 4995.6 PERU *R Andina* 7/2 0102 Quechua talk (Smit-TX)
 5009.5 MADAGASCAR *RM* 6/26 2256 extended sked w/bouncy mx, high energy anncr (Hill-MA)
 5020 SOL ISL *SIBC* 6/21 1050 lang talk, BBC EG nx 1120 (Line-KS)
 5047 TOGO *Lome* 6/17 continuous class mx (Ripp-VA) 6/27 1919 ID, mx, nx in brief, ID, class mx (Serr-IT)
 5050 TANZANIA *RT* 6/27 1914 Afropop, ID, chorus, anmt (Serr-IT)
 5055 FR GUIANA *RFO Cayenne* 0310 FR mx & cmtry, ID (Eram-ARG)
 5060 CHINA *Xinjiang PBS* 3/23 0311 MG' poor (Glot-NM) Thanks!
 5060 UZBEKISTAN *R Tashkent* 7/3 1936 FC, ID //5035, 9540, 11905 (Serr)
 5100 LIBERIA *RL* 7/3 1931 ID, mx, econ pgm (Serr-IT)
 5400L ARGENTINA *Feeling FM* 6/27 0955 nx, ID (TIN-JP)
 5640 PERU *R Peru* 6/13 0302* varying, folk mx, ID, no NA (Alex-PA)
 5678 PERU *R Ilucan* 6/13 0242* folk mx, ID, no NA (Alex-PA)
 5859.4 PERU *R Nueva Cajamarca* 7/10 1055 folk mx, greetings, ID tnx Rodriguez (TIN-JP)

Thank you all you regular dedicated contributors and also a big thank you to the newcomers. My noise problem on the tropical bands seems to have cleared up, hence some loggings from me. The Cameroon log was the first evening tropical band DX I've had in ages.

This month loggings from 10 states and 2 foreign countries. Feel free to contribute any loggings despite what experience level you're at. I picked up an NRD-345 recently. It does not have a notch filter or passband tuning, which can be essential for tropical band Dxing. However, it has almost no background noise. I am quite pleased with it. You may email loggings to spasz@dataplusnet.com or snail mail to 314 Riverview Drive, Apt. 16, Manitowoc, WI 54220 or PO Box 716, Manitowoc, WI 54221. Next deadline for me is August 19. Keep listening! 

International Band Loggings

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

- 6070 CANADA *CFRX* Toronto in EG 2250, Wall St Journal rpt, ads, sports nx, ID, p (McGuire MD 6/14)
6115 ALBANIA *R Tirana* in EG *0145, IS, ID, rpt on troops in Kosovo, political nx, g (McGuire MD 6/14)
6120 SAO TOME *VOA* relay in Hausa *0500-0630*, nx, into FR 0530 to Africa, mx, f (Findlater CA 7/4)
6165 NEW ZEALAND *RNZ1* in EG *1700, IS, sked ancmt, nx of Pacific area, exc (Witham HI 6/30)
6210 ETHIOPIA *Addis Ababa* in Amharic 0350, mx pgm, ID "Radio Fana", f (Eramo ARGENTINA 6/20)
64797 PERU *R Altura* in SP 0115-0316*, OA folk mx, anmts, tlk, ID's, no s/off NA, p (Alexander PA 6/13)
6674 PERU *R Super Nueva Sensacion* Huancabamba in SP 0055-0228*, OA folk mx, ID, nx, s/off NA, f (Alexander PA 6/13) in SP 1100-1120 with information and newscast, f (Nozaki JAPAN 6/26)
67977 PERU *R Ondas del Rio Mayo* in SP 0105-0155*, OA folk mx, DJ, ID, NA at s/off (Alexander 6/13)
69871 PERU *R San Miguel* in SP 0100-0208*, OA folk mx, anmts, s/off w/NA, f (Alexander PA 6/13)
7115 BOSNIA *R Yugoslavia* relay in Serbian *0330, ID, rpt on Kosovo and Milosevic (McGuire MD 7/13)
7155 NIGER *La Voix du Sahel* in FR 2213, interview, carrier hum, //50207, both fqys poor (Hill MA 6/19)
7210 THAILAND *R Thailand* in EG 1916, tlk re Canada-Thailand relations & electricity in Thailand, ID, QRM splats and co-channel with R Minsk, Belarus at 1930 (Serra ITALY 7/1)
7230 GERMANY *AWR Europe* relay Jülich in IT 0806, pops, feature, Sat/Sun only (Serra ITALY 6/13)
7230 UNITED KINGDOM *R Japan* relay in EG 0500, political nx, fqy, sked, ID, p (McGuire MD 7/11)
72399v ALBANIA *R Tirana* in IT 1802, nx re Kosovo, press review, econ nx, ID, bad QRM 1810 (Serra 6/16)
7245 ANGOLA *R Nac de Angola* in PT 2357-2359*, ID for International Svce, slow orch sel (Hill MA 6/19)
7270 POLAND *R Polonia* in EG 1239, chat, mx, polit tlk, ID, E-mail address, QTH, //11820 (Serra 6/27)
7350 SEYCHELLES *FEBa* in Hindi 0027, IS, several ID's, ancmts, subcont vocal, g (Hill MA 6/18)
7405 CHINA *CRI* Xi'an in IT 1852, tourist pgm, ID, final IS, //9965 under co-channel (Serra ITALY 6/1)
9022 IRAN *VOIR* Teheran in EG 0046, story on downing of Iranian Airbus 8 yrs ago (Fredette ONT 7/3)
9420 GREECE *V of Greece* in EG 2345, Greek Pres visiting Bucharest, Romania, g (Pasquale PA 6/17)
9440 SLOVAKIA *R Slovakia Int* in EG/Slovak 0130, IS, ID in EG, into nx in Slovak, g (McGuire MD 6/25)
9460 TURKEY *VOT* Ankara in TK 1503, song in TK, tlks, f, //15350 (Serra ITALY 7/4)
9560 UKRAINE *RUI* in EG 0000-0058, nx, cmntry, lcl pops, choral church mx, f, //6020 (Alexander 6/5)
9560 CANADA *China R Int* relay in EG *0400, IS, ID, world nx, mention of Iran, g (McGuire MD 6/22)
9570 CUBA *China R Int* relay in EG 0105, nx re G-8 summit conf & North Korea (Humenyk ONT 6/21)
9580 BOSNIA *R Yugoslavia* relay in EG 0000, ID, rpt on Milosevic, fqy, sked, g (McGuire 7/13) in Serbian 0033, tlk w/many ments of Belgrade, martial mx/anthem?, //11850 (Costello NJ 7/8)
9595nf SPAIN *REE* Madrid in SP 2300, ID, fqys, sked, IS, nx re Kosovo, g (McGuire MD 6/17)
9660 MOROCCO *R Free Europe* in Romanian 0500-0600*, ID, nx re Kosovo, NATO (Findlater CA 6/28)
9665 MOLDOVA *V of Russia* relay in EG 0200, nx re further life of MIR space station (Pasquale PA 6/16)
9680 MOROCCO *VOA* relay in EG 0600, "News Now", mostly nx re Yugoslavia situation (Findlater 6/19)
9710 LITHUANIA *R Vilnius* in EG 0946, pgm on Lith econ/commerce, ID, jazz pgm (Serra ITALY 7/4)
9750 ROMANIA *RRI* Bucharest in IT 1512, "Rubrica domenicale", ID's, QTH, feature (Serra ITALY 7/4)
9765 RWANDA *Deut Welle* relay in EG 0405, regional nx, ID, "Newslink" pgm, f (McGuire MD 7/9)
9770 SEYCHIELLES *BBC* relay in EG *0200, Big Ben IS, ID, sked, rpt on Kosovo, f (McGuire MD 6/14)
9810 HUNGARY *R Budapest* in HG 0000, nx re Yugoslavia, Magyar, and NATO, exc (Robinson TN 6/8)
9855 MADAGASCAR *R Netherlands* relay in DT 0400-0425*, ID, pop mx pgm, NA, f (Findlater CA 7/5)
9855 GERMANY *R Vilnius* relay Jülich in EG 0045, tlk on IntNat Theater Fest in Lith, g (Pasquale PA 6/7)
9870 AUSTRIA *RAI* Vienna in GM 0300, IS, ID, fqys, sked, ment of Milosevic, g (McGuire MD 6/25)
9880nf CZECH REPUBLIC *R Prague Int* in EG 1037, pgm re Kosovo refugees, CZ lang lesson (Serra 6/12)
9905 FRENCH GUIANA *Swiss R Int* relay in EG 0420, business rpt, sports, ID, //9885, g (McGuire 7/9)
9988 EGYPT *R Cairo* in IT 1805, ID, tlk over mx, nx, ID, AR feature (Serra ITALY 6/16, Witham HI 6/9)

- 11560nf? **NIGERIA** *V of Nigeria* in EG 1900, reggae mx/Bob Marley, politics, feature, g (Robinson TN 6/10)
- 11600nf **BULGARIA** *R Bulgaria* Sofia in BG 0045, pop mx, ID, p (Witham HI 6/27)
- 11615 **CZECH REPUBLIC** *R Prague* in EG 0105, IS, ID, story, rpt on the Euro Union, Czech PM to attend NATO meeting in Budapest (Pasquale PA 6/17, Witham HI 6/27, McGuire MD 6/13)
- 11635nf **NORWAY** *R Norway Int* in NO 0400, IS, ID, fgy, sked, national nx, g (McGuire MD 7/13)
- 11705 **CANADA** *R Japan* relay in EG 0016, "44 Minutes", stopped raining in Tokyo!, custom made clothes for dogs, Asis focus corner (Fredette ONT 7/3) in JP *2200, IS, "NHK" ID, nx pgms (McGuire 7/12)
- 11715nf **JAPAN** *R Japan* Tokyo in RS 1915, cmntry, mx by YL, fgy anmts, ID, f (Humenyk ONT 6/20)
- 11715 **CANADA** *R Korea* relay in EG 1030, IS, ID, fgy, sked, rpt on North Korea, g (McGuire MD 7/13)
- 11720nf **PHILIPPINES** *DZRB* relay via VOA? xmtrs in dialect *1730-1930*, many EG words inserted from time to time, ID as "Radio Filipinas" & "Philippine Broadcasting Service", into nx & interviews in the language mixture, //15190, good sig on 11720 but poor after *1855 R Japan on 11715. Assume VOA leased xmtrs since xmtrs are listed under VOA "Frequency Schedule Report" of 5/30 (Treibel WA 7/7)
- 11725 **ROMANIA** *RRI* Bucharest in EG 0200, mail, ID, local nx (Krause OH, McGuire MD, Humenyk ONT)
- 11810 **ROMANIA** *RRI* Bucharest in SP 0350, YL hosting oldies & novelty tunes, ID, f (Witham HI 6/28) in EG 2340, pgm of classical mx (Paskiewicz WI 6/9)
- 11810nf **CANADA** *Deut Welle* relay Sackville in EG 0335, rpt on recycling, ID, QRM (McGuire MD 6/29)
- 11810 **RWANDA** *Deut Welle* relay Kigali in EG 1614, tk re Kosovo, ID, press review, f-p (Serra 6/14)
- 11815 **COSTA RICA** *R Ext Espana* relay in SP 1230, nx and taped rpt by OM, f (Humenyk ONT 6/20)
- 11820 **PHILIPPINES** *R Veritas* in IN *2300, ID, relig tk, hymns, weak but audible (Findlater CA 6/16)
- 11840 **PORTUGAL** *RDPI* Lisbon in PT 2300, nx of Jakarta, political speeches, disco mx (Robinson TN 6/8)
- 11850nf **BOSNIA** *R Yugoslavia* relay (xmtr site presumed) in EG 0445, ID, nx re Russian troops in Kosovo, Serb refugees flood Belgrade, 0458* (Findlater CA 7/14) in Serbian 0033, //9580 (Costello NJ 7/8)
- 11875 **ECUADOR** *IICJB* Quito in Czech 0550, YL ments of Slovakia, mx, ID 0600, f (Witham HI 6/26)
- 11915 **MOROCCO** *R Liberty* in Tibetan *0300, ID "R Svoboda", dialog re Kosovo, nx? (Findlater CA 7/5)
- 11920 **MOROCCO** *RTV Marocaine* in AR 0200, AR mx and chanting, clear ID, exc (Linois PA)
- 11945 **GERMANY** *Deut Welle* Nauen in EG 0202, rpt on S Africa, ID, "Newslink", f (McGuire MD 6/17)
- 11945 **UNITED ARAB EMIRATES** *RTV Dubai* in EG 0230, tk on Israel peace tlks, ID, exc (Linois PA)
- 11960 **NORWAY** *R Denmark* relay in DN 0035, nx, ID, //13805 (Linois PA, Witham HI 6/27)
- 11975 **SAO TOME** *VOA* relay in EG 2200-2230*, nx, Kosovo update, sports roundup, f (Findlater CA 7/1)
- 11975 **MALI** *China R Int* relay Bamako in CH 2230, IS, ID, nx, bridge nx, exc (Humenyk ONT 6/13)
- 11980 **CHINA** *China R Int* in EG 1217, nx on heatwave in China, slight sig flutter (Fredette ONT 7/3)
- 11985 **GREECE** *VOA* relay Kavieng in Farsi 0400-0430*, dialog, weak sig but audible (Findlater CA 6/28)
- 11980 **KUWAIT** *R Kuwait* in EG 1830, nx, story on Iranian disturbances, wx rpt for Kuwait (Fredette 7/11)
- 11995 **PHILIPPINES** *FEBC* in EG 1434, nx re Indian-Pakistani conflict, stock rpt, ID, sermon (Serra ITALY)
- 12005 **TUNISIA** *RTV Tunisienne* Sfax in AR 2157, cmntry by OM, phone interview, f (Humenyk ONT 6/13)
- 12015 **ECUADOR** *IICJB* Quito in EG 0300, relig pgming to N Am, ID, Andean mx, nx (Linois PA)
- 12050nf **NORWAY** *R Denmark* relay in DN 2330-2355*, ID, ment Yugoslavia conflict, //13805 (Findlater 6/16)
- 12055nf **NORWAY** *R Norway* in NO *0500, ID, nx, dialog, over to R Denmark relay 0530 (Findlater CA 7/1)
- 12060nf **SWEDEN** *R Sweden* in EG 0340, "60 Degrees North", rpt on laser surgery, //9495 (Witham HI 6/28)
- 12060 **RUSSIA** *V of Mediterranean* relay in GM 2035, cmntry by YL, bridge mx, f (Humenyk ONT 6/13)
- 12070nf? **VIETNAM** *V of Vietnam* (Russia relay?) in EG 1704, lcl & world nx, ID, nx bks (Serra ITALY 6/12)
- 12105nf **GREECE** *V of Greece* via VOA xmtrs Kavieng in EG/GK *2357, internat'l nx, f (Findlater CA 6/29)
- 13580 **CZECH REPUBLIC** *R Prague* in EG 0001, national & political nx, ID (McGuire MD, Fredette ONT)
- 13600nf **BULGARIA** *R Bulgaria* Sofia in GM *0515, nx re Yugoslavia situation, //12000 (Findlater CA 6/16)
- 13640nf **TURKEY** *V of Turkey* in EG 2215, "Letterbox", TK pop mx, fgy, //1790 (Fraser MA, Fredette ONT)
- 13675 **UNITED ARAB EMIRATES** *UAE R Dubai* in AR/EG 0329, ending pgm in AR, into EG 0330, ID, rpt on Kashmir, wx rpt (McGuire MD 6/14) in EG 1038, tk re Islam, AR mx, //15370 (Serra 7/4)
- 13685 **SWITZERLAND** *SRI* Sottens in EG *0830, IS, ID, rpt on Kosovo, p (McGuire MD 6/20)
- 13690nf **IRAN** *VOIRI* Teheran in RS 1625-1628*, mood mx hosted by YL, //15405 (Witham HI 6/5)
- 13720 **PORTUGAL** *Deut Welle* relay in EG 0039, ID, "Newslink", arts festival (Krause OH, McGuire MD)
- 13740nf **BELGIUM** *R Vlaanderen* in DT 0600-0657*, ID, pop mx pgm, unique IS, g (Findlater CA 7/4)
- 13740nf **RUSSIA** *V of Vietnam* relay in FR 1850, ID, into EG 1900 wrpt on Cambodia situation, "Letterbox" (Witham HI) in VT *0000, OM & YL swapping mike, Oriental mx, interview, //9730 (Hill MA 6/28)
- 13770nf **SWITZERLAND** *SRI* Sottens in EG 2000, ID, rpt on Kosovo situation, econ nx, g (McGuire MD 6/17)

- 15150 **INDONESIA RRI** Jakarta in SP 1731, ID, fqys over mx, lcl nx, econ nx, QRM (Serra ITALY 7/3)
- 15155 **FRANCER France Int** in EG 1215, "Asia-Pacific" rpts, f, //15540 p (Fraser MA 6/13)
- 15185 **GERMANY Deut Welle** Wertachtel in EG 0615, sports rpt, ID, Saturday Review (McGuire MD 6/20)
- 15186 **EQUATORIAL AFRICA (Rio Muni) R Africa** in EG 2258, list of addresses, hymns, two evangelists alternating dialog (Paszkievicz WI 6/9, Flynn OR 6/7)
- 15220nf **GERMANY Swiss R Int** relay Jülich in GM/FR 2057, ID, into FR 2100, ment Kosovo (McGuire 6/20)
- 15240 **ITALY RAI** Rome in EG 0050, fqy, ID's, nx, rpt on Italian elections, //9675, 11800 (Fraser MA 6/9, McGuire MD 6/29, Krause OH) in IT 0220, lcl ballads, rock mx, ID, phone tlk (Paszkievicz WI 6/29)
- 15240 **SWEDEN R Sweden** in EG 1340, "In touch with Stockholm", ID's, pops, phone-ins (Serra ITALY 7/4)
- 15330 **GUAM KTWR** in EG 1600*, fqy, TC, ID "Trans World Radio", relig chat, QTH (Serra ITALY 6/14)
- 15385 **SPAIN REE** Madrid in EG 0022, local sports, wx rpt, nx, interview, exc (Krause OH, Fredette ONT)
- 15395nf **LIBYA V of Africa** in EG 0220, anti-US tlk, then into FR pgming (Paszkievicz WI 6/23)
- 15400 **FINLAND R Finland** Helsinki in EG 1250-1300*, rpt on unemployment in Finland, g (McGuire 7/13)
- 15415nf **CHINA China R Int** Beijing in RS 1740, children's chorus, ID, f (Witham HI 6/28) in EG 2100, news quoting Clinton on US-Chinese relations, recent ruling in Hong Kong, f (Findlater CA 6/30)
- 15415 **LIBYA R Jamahiriyi** in AR/FR 2000, tlks, chants, into FR 2030, ID?, f, //15435 (Findlater CA 7/1)
- 15415 **AUSTRALIA RA** in EG 0807, correspondents' rpts, ID, sports nx, //15515, 17750 (Serra ITALY 6/27)
- 15420 **SEYCHIELLES BBC** relay in EG 0350, African service, Afro nx, mx, ID, sports, p (McGuire 6/17)
- 15435 **FRENCH GUIANA R France Int** relay in FR 1046, nx re Kosovo, stock mkt etc. (Fredette ONT 7/2)
- 15475 **GABON Africa #1** in FR 1626, soccer matches, pop mx, ancmts, f (Fredette ONT 7/11)
- 15520nf **GERMANY Swiss R Int** relay in AR 1950, mid-East mx, ID, into EG 2000, p (Witham HI 6/27)
- 15640 **ISRAEL KollIsrael** in HB 0200, pop mx, nx of PM Barak's visit to Washington (Lincoln PA) in FR *1530, IS, ID, national nx, p (McGuire 6/28) in EG 1406, nx on Kennedy plane crash (Fredette 7/17)
- 15565nf **NETHERLAND ANTILLES R Vlaanderen** Belgium relay Bonaire in EG 0358, nx, wx rpt, "Belgium Today" feature (Paszkievicz WI 6/11)
- 15575 **SOUTH KOREA R Korea Int** in EG 0258*, pgm sked, NA, no sign of listed //s (Costello NJ 7/13)
- 15820lsb **ARGENTINA R Continental** feeder in SP 1200-1233, ID 1200, tlk show, lcl pop mx, slogan, Father's Day pgm, nx flash 1230, feeder did not air commercail broadcasters following day (Nozaki JP 6/18)
- 15820lsb **ARGENTINA Feeling FM** feeder Buenos Aires 1200-1230, canned ID, Lat Am romantic vcls, also hrd on previous day from 1120-1130, f (Nozaki JP 6/25 & 26)
- 17505nf? **SWEDEN R Sweden** Stockholm in EG 0005, cultural nx, summer revival theater in Stockholm, story on countdown to Millenium, chat program on Internet, f (Fredette ONT 7/10)
- 17505nf **NORWAY R Denmark** relay in DN 1430, nx of Danish parliament & NY ballet, g (Robinson TN 6/9) in DN1750, cmntry by 2 OM's, ID, nx, //21730 (Witham HI 6/30, Humenyk ONT 6/13)
- 17505nf **NORWAY R Norway Int** in NO *1400, nx re Kosovo, tlks, fqys, IS, g (Robinson TN 6/9)
- 17565nf **HUNGARY R Budapest** in HG 2222, taped interview by 2 OM's, g (Humenyk ONT 6/13)
- 17580nf **GERMANY Swiss R Int** relay in EG 2020, rpt on nuclear energy, econ nx, ID, p (McGuire MD 6/28)
- 17580nf **AUSTRALIA RA** in EG 0412, weekend sports show on this intermittently used fqy (Krause OH)
- 17595nf **RUSSIA V of Vietnam** relay Petropavlovsk *0400, all VT pgming, ID, NA, mx bks, tlks, nx, some split second xmtr outages occasionally, probably repl for 9875 from same xmtr site (Treibel WA 6/23)
- 17630 **GABON Africa No. 1** Moyabi in FR 0959, Afro pops, drum beat, ID, Lat Am mx, pips one minute early, nx (Serra ITALY 7/4) in FR 1554, reading letters from listeners (Fredette ONT 7/2)
- 17635nf? **GUAM KSDA** Voice of Hope in CH *2200, ID in EG, relig tlk in CH, hymns, f (Findlater CA 6/15)
- 17665nf **SPAIN REE** Madrid in SP *0500-0700*, ID, nx, Kashmir, India, Pakistan, Bgrade, f, (Findlater CA)
- 17675 **NEW ZEALAND RNZI** in EG 0420, interview, ID, C&W mx, rpt on blood transfers (McGuire MD) in EG 1959, lcl chant, pips 2000, ID, into world and Pacific nx, sports nx (Serra ITALY 6/27)
- 17695 **CANADA RCI** in SP 2330*, IS, ID, fqys, sked, regional nx, f (McGuire MD 6/28)
- 17700nf **USA Voice of Greece** relay Delano in GK *0600-0800*, ID, GK mx, tlks, nx, last 15 minutes of xmsn devoted to nx in EG, fqys listed in GK at s/off (Treibel WA 6/23)
- 17735 **ROMANIA RRI** Bucharest in EG 1719, cmntry, ID, tlk, //15380, 17865, 15270 (Serra ITALY 6/3)
- 17755 **SPAIN REE** Madrid in SP 1236, nx including taped rpts, //9500, 21570, 21610 (Humenyk ONT 6/20)
- 17765 **PHILIPPINES VOA** relay Tinang in CH 0155, ID in EG, nx and tlks in CH (Paszkievicz WI 6/23)
- 17770nf **SPAIN REE** Madrid in SP *0700, Kosovo update, NATO, Yeltsin etc., g (Findlater CA 6/20)
- 17790 **ROMANIA RRI** Bucharest in RO 0758, IS, ancmts, rock mx, tlk, pops, //17865 (Serra ITALY 6/27)
- 17820 **CANADA RCI** Sackville in EG 2020, mining rpt, folk songs, Arts in Canada, ID (McGuire MD 6/20)

- 17825 **JAPAN R Japan** Tokyo in JP 0318, pop songs from Japan, //5960, 9660 both poor (Costello NJ 7/13)
 17860 **RWANDA Deut Welle** relay Kigali in GM 1835, tk on econ summit, ID, g (McGuire MD 6/20)
 17860nf **SOUTH AFRICA Channel Africa** in EG 1705, tk on soccer, mx break, ancmt, ID (Serra ITALY 6/27)
 17865nf **ROMANIA RRI** Bucharest in EG 1740, piano concerto, rpt on old books/manuscripts (Witham 6/30)
 17895nf **SWEDEN R Sweden** in EG 1234, pgm re peace keepers in Kosovo & elsewhere, //21810 (Serra 6/12)
 21475nf **CROATIA Hrvaski Radio** in CR 1501, nx with several ments of Kosovo situation (Humenyk 6/20)
 21500 **CHILE R Voz Cristiana** in SP 1648, fqys, ID, relig pop mx, tk, f (Serra ITALY 6/18)
 21530 **SOUTH AFRICA Channel Africa** in EG 1331, tribal chant, ID's, UN nx re aid to Africans (Serra 7/4)
 21580 **FRANCE R France Int** in FR 1757, tk on language of Moliere & its influence (Fredette ONT 7/2)
 21610 **SPAIN REE** Madrid in SP 0755, guitar song, ID, ancmt w/echo effect, song, f (Serra ITALY 6/29)
 21735 **UNITED ARAB EMIRATES UAER Abu Dhabi** in AR 0605, ID, drama, f (Witham HI 6/4)
 21745 **CZECH REPUBLIC R Prague** in EG 1727, story telling, IS, ID's in multi-lang, //5930 (Serra 6/27)

Clandestine, Tentatives, Presumed, or Unknown

- 6798 **PERU(p) Radio 11-60 (Once Sesenta)** in SP 0935-1056*, musical pgm- Senor Bolero-ID, 1056 cutoff of xmsn with musical theme in progress but no ancmt or ID (Eramo ARGENTINA 6/19)
 13650 **CHINA China R Int** Kunming(p) in EG 1800-1827*, long tk, ID as "The Peoples Republic of China" fair signal (Findlater CA 6/19)
 15355nf? **OMAN(p) R Oman(t)** in AR 0200, continuous chanting, no ID but new fqy reported in June NASWA (Findlater CA 6/22)
 15735nf? **SLOVAKIA(p) Adventist World Radio** in AR 0500-0700*, periodic ID's as "You are listening to AWR Cyprus", invite request for sked, sermon?, AR mx, f (Findlater CA 7/7) ED: This is almost certainly the relay from Slovakia as published in the latest AWRsked on the Internet which indicates xmsn in AR from 0500-0700 on 15735)
 175252 **ARMENIA R Free Asia** in Burmese *(0030-0130)*, hrd in Massachusetts evenings since 6/28, weak and echoey with variable audio (Hill MA) ED: One hour of Burmese! That requires good staying power.
 21460 **UNIDENTIFIED** Costa Rica? in EG 1318, tk (mostly unclear), vp signal (Serra ITALY 7/4)

FRENEX: Twenty Five Years Ago....

In the Shortwave Center, Neal Perdue writes about how the local power company can In Ed Shaw's Shortwave Center column, Neal Perdue writes about Radio Rio Amazonas, Harry Helms presents "A Little Straight Talk On Selectivity," Al Sizer addresses "Subterranean DX and the Cerebral Filter," Serge Neuman talks about frequency interpolation, and Victor Goonetilleke writes about Indonesia. A new edition of the country checklist was published with emphasis on continent order. Dan Henderson reported on the club's new awards program which issued 63 certificates since May. Among the award recipients were: Don Jensen, Gerry Dexter, Ed Shaw, Mike Hardester, Charles Wootten, Larry Yamron, and Dan Henderson.

NASWA

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Sat 1800 RFPI 21460-USB 15049
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Sun 0630 WWCR 5070
Sun 1000 RFPI 15049 6975
Sun 2300 RFPI 21460-USB 15049
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