

**NASA**

the  
**JOURNAL**

**NORTH AMERICAN SHORTWAVE ASSOCIATION**

VOLUME XXXVI NUMBER 2

FEBRUARY 1996



ZYK 687 - 840 KHz - MW

ZYE 956 - 6.090 0 KHz - SW - 49 m

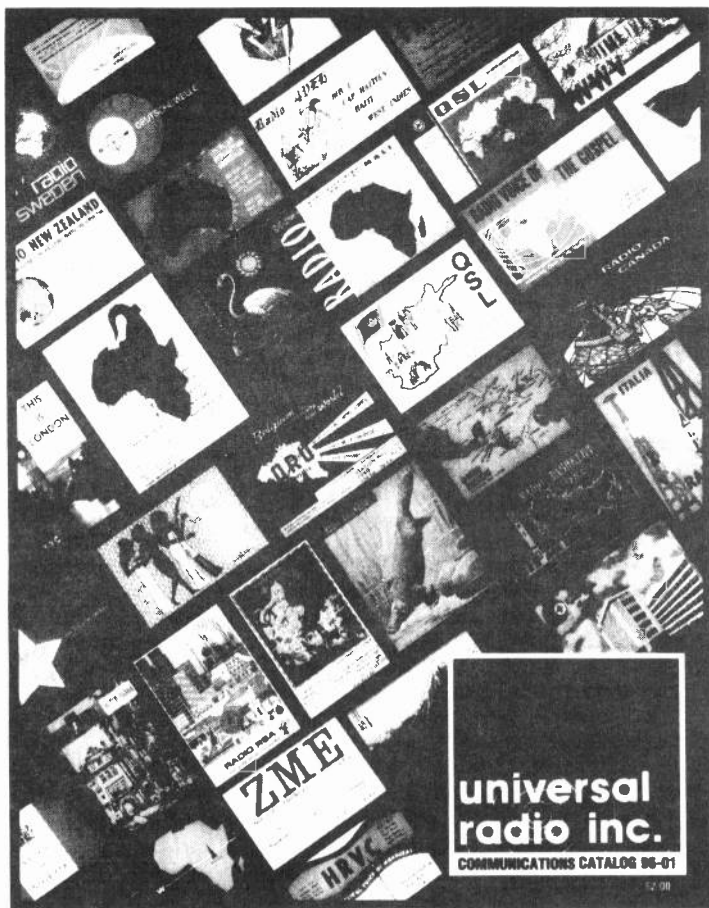
ZYE 957 - 9.645.0 KHz - SW - 31 m

ZYE 958 - 11.925 0 KHz - SW - 25 m

ZYD 819 - 96.1 MHz - FM

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# NASWA Notes

**Richard A. D'Angelo**

2216 Burkey Drive

Wyomissing, PA 19610

GENIE R DANGELO3

Internet r.dangelo3@genie.geis.com

It seems we get one snow and/or ice storm followed by another on a regular basis. Although it is good for finding time to DX (who wants to slip on the ice in 10 degree weather?), I'm getting very tired of the weather conditions. Fortunately, the Winter SWL Festival is just around the corner. Besides seeing many of our members each year, the FEST reminds me that the winter is almost over and soon my nights will be filled with little league baseball. Hey, maybe I can live with a little more winter!

Once again, Mathias Kropf in Germany provides some interesting information in his survey of clandestine broadcasting activity for 1995. Global activity of political clandestine stations on shortwave has dropped by 10%. The activity to Asian target areas has decreased by 11%; to African target areas by 17%. Activity to the American continent has increased by a modest 3%. The number of active target areas has decreased from 24 to 23 countries. The three most active target areas are Iraq (still!!!) with 291 weekly broadcast hours ("WBH's") followed by Cuba with 249 WBH's and Iran with 170 WBH's. The survey has been published annually since 1986. Thanks Mathias for the information.

After many, many years of hard work as Secretary General of the European DX Council, Michael Murray is stepping down. Currently elections are underway seeking a replacement with Stig Hartvig Nielsen, Risto Vahakainu, and Luigi Cobisi each running for the position. We will keep you updated when the results are announced.

The World Radio TV Handbook awards committee has recognized Baygen Power

## ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave listening, DX tips, and up to the minute hobby news. Contributors share their DX tips via their own amateur radio stations or by telephoning a "gateway" station who then broadcasts the relayed tips. Net Controls Bob Brown KW3F, Hausie WB4JSP, and Tom Sundstrom W2XQ, host an always lively gang of DX monitors. (Best heard in the eastern half of NAm)

Company of South Africa as the "most Innovative Receiver Manufacturer 1995/6 for developing a radio costing only US\$40.00. Incidentally, have you ordered your copy of the handbook? This is the 50th anniversary edition!!! Congratulations to Andy Sennitt and the entire WRTH team for reaching this milestone. I must admit to having a rather extensive collection of handbooks which are very useful in research activities and trips down memory lane.

Finally, we wish Country List Chairman Don Jensen a speedy recovery. Shortly after deadline last month we learn Don had a brief visit to the hospital. He has been home for a while recuperating and reports are that dnj is doing nicely.

We have another banner edition of Musings for you again this month as the topic of electronic publication heats up (and I mean HEATS UP). Let me take this opportunity to remind members that the views expressed in Musings are those of the individual members and not necessarily those of the Executive Council. Please keep that in mind while

**Our Motto is - "Unity and Friendship"**

reading. There are no plans to convert the JOURNAL into an electronic publication. The web page introduced last month is part of an effort to recruit new members to our club in order to expand the base of hobbyists that receive the Journal. Also, Musings are running a "little" long. I have resisted the urge to edit them down but I may have to in future months. Therefore, please be concise is developing your thoughts. Thanks!

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

## 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. He can also be reached through the Internet at: [fkohl@ix.netcom.com](mailto:fkohl@ix.netcom.com).

## Musings

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

**Maryanne Kehoe, Box 467681, Atlanta, GA 31146**

Re: Donald Aspinells letter in Dec'95 issue.

Yes, Don, the program you heard was called "Timelines;" also, one of my favorite VOR programs. I met the host, Estelle Winters, several years ago on a trip I took (one of many!) to Moscow. I got back one month ago from Moscow, didn't get a chance meet up with Estelle this time due to her busy schedule, but she did ring me up at my hotel and we talked (and gossiped!) for 3 hours! What fun!

**Richard E. Hankison <[74172.3254@compuserve.com](mailto:74172.3254@compuserve.com)>**

My January edition of NASWA Journal arrived by snail mail, today. I read with great interest Joe Buch's comments of concern with the future of the Journal. If I may, I would like to make several comments. I am taking the liberty of carboning in Rich D' Angelo as I think he would be interested in what I have to say.

Isn't technology wonderful. I received a tip via e-mail, yesterday. I managed to hear Christian Radio, Zambia for the first time, thanks to that tip. I logged the find in my shortwave log which I keep in a data base on my computer. It was the last entry of the "logging month" so I reformatted the log and converted it to a text file. I then cleaned it up and inserted it into e-mail messages to CIDX, NASWA, Cumbre and Rich McVicar. One of these days, I may turn my Drake over to the computer and just sleep in. But back to my purpose in contacting you. Your musings.

As one of the editors at SPEEDX, at its closure, I would like to say the club did not die as a result of the electronic age. I don't know where this perception comes from or why it persists. Yes, SPEEDX was a DXer's publication, but timeliness of information was not the reason for its demise. Rather, SPEEDX was the victim of the times. First, it was based upon participation and there was not all that much interest in participating. I had about six people I could count on to help me each month. All of the other editors had the same. But there was

rarely any new blood. This closed group (clique) also represented the editors and the steering committee. Both were old and there was no new blood. The Executive Committee folded when no one volunteered to come on board to replace retiring members. Ed Janusz, the publisher kept publishing for over a year following his resignation because no one stepped forward to replace him. The membership was a pool of old blood. And that (in my opinion) brings me to the second reason for the clubs fall into insolvency. Membership was flat and publication costs were rising. The business manager made a decision to ride it out in hopes that things would clear up. But the economy did not improve, the printer raised his charges and the Postal Service increased the first class rate. Viola! Instant bankruptcy.

But back to NASWA, the Journal, Cumbre and your musings. As mentioned earlier, the Journal arrived today via snail mail. That is fine with me. I like sitting down and reading things like your musings and RAD's comments in addition to the loggings. No offense, Joe, but I don't lose sleep over a day lost to snail mail when it comes to your comments. The Journal is a broad-based publication that is both time sensitive and timeless.

In contrast is Cumbre DX. I have been getting this electronic publication for some time now, and I have managed to snag more than one elusive DX thanks to its expediency. But it gives me nothing in terms of programming information or opinion, and it shouldn't given its purpose. You see, (in my opinion) neither is a threat to the other. They can co-exist, even in the small world of shortwave radio.

This is not to say, that either one cannot die. Indeed, I see signs in both publications which (in my opinion) could cause them to lose favor with their readers. Cumbre has an editorial attitude that its content is proprietary to those who contribute. Let's face it. Its contents is of no value to anyone but DXers and radio enthusiasts, and that is a small market. Why alienate people with editorial policy. And believe me, there are people out there who are annoyed with this policy.

Also, Cumbre is (in my opinion) losing sight of its purpose. It is barely a half a year old, and it is already getting fat. The last edition was two e-mail mailings long. I converted it to a text file, and it was over 20 pages long! Then I edited it down to what I considered to be timely DX information, and I had about 10 pages. And believe me, I was very generous in my opinion of what I considered to be DX information. Cumbre should be a lean, mean DX machine, but it appears to be getting fat.

As for NASWA and the Journal, my concerns are that it is still a good ole boy network. I had that opinion five years ago, when I fled to SPEEDX, and I still see it. As evidenced by ---- Your concern is that electronic newsletters like Cumbre will put NASWA out of business. My comment is that they can coexist. Obviously, we both view them as separate entities. Yet NASWA continues to patronize Cumbre. Take a look Page 14 of the January Journal. The lead story in Shortwave Center is about Marie Lamb's new DX show DXing with Cumbre. Isn't that nice. Did you notice who is the editor of Shortwave Center. Why it is Hans Johnson, Cumbre's founder and editor in chief. I know that both Hans and Marie are long time, dedicated members of NASWA, but this story is self serving. It doesn't inform NASWA members as much as it promotes Cumbre. There is a lot of this cronyism in NASWA. It perpetuates that old blood while alienating the newcomers. Maybe the fate of SPEEDX does relate to NASWA, but not for the reason you mentioned (in my opinion).

Well, this is about the longest e-mail message I ever sent. Take it with a grain of salt—one man's opinion. But do not fret. This hobby will continue despite (or with) technology as long as it does not lose sight of its purpose.

73, Rich Hankison

**Eric Bueneman-N0UIH, EBSDJDX@aol.com**

Sub: Update on St. Louis DX Get-Together

The dates have been changed for St. Louis DX Get-Together '96. Due to a conflict with a Hamfest in Joplin, MO, the dates are now April 19-20-21, 1996. Several St. Louis area stations are being considered for tours at this point. The most popular part of St. Louis DX Get-Together, the Saturday night Italian dinner, will be part of the 1996 edition. Two DX Quizzes, one on Shortwave broadcasters in the Americas and the other on AM/FM/TV stations in Missouri and Illinois, are also being prepared. Barring any conflicts, the site for the DX session may be Wright City, MO (50 miles W of St. Louis)...one of the prime DX areas in east central Missouri. And, of course, my QSL collection will be on display. For the Hams, our talk-in frequency will be 146.55 MHz simplex. The primary meeting site will once again be the Budgetel, 318 Taylor Road in Hazelwood (next to Jack-In-The-Box), just east of Lindbergh Boulevard (U.S. 67). Their reservations number is (314) 731-4200. For more information, contact Eric Bueneman-N0UIH at (314) 839-9751, or via E-mail at EBSDJDX@aol.com.

73, Eric-N0UIH

**John T. Wagner, 8643 Appleridge Circle, Pickerington, OH 43147**

As a new member, and a rather new hobbyist, I really enjoy the JOURNAL. I look forward to each and every edition. I could not help feeling a little sad when I read several articles relating to the probably inevitable transition of our newsletter towards the electronic age of computers. Perhaps it is that I am a real printer that causes me to be so attached to the printed format.

While that may be a subconscious motive, it is really a benefit to me to be able to save copy after copy of the JOURNAL so that I may be able to return and refer to some really excellent information such as Alan Johnson's reviews of equipment or other such educational articles that appear in each and every issue.

I don't know how others progressed through the various levels of hobby sophistication, I find that at least for me some very distinct levels of advancement. For example, all of a sudden a hobby technical practice will suddenly strike me as having merit and it is very useful for me to fall back to an article pertaining to what ever it is at the moment that interests me. I can then reread that article and then, when it makes much more sense to me, put that skill into practice.

A real life example of this was receiver interference. Being new I merely took interference for granted. Last month the articles by Joe Buch began to sink in. Yes, there is interference but there are steps that can be taken to eliminate or at least reduce it. Also, I had known that antenna tuners and preselectors existed but was unsure as to why or even how to use them. I ordered a reprint from the Company Store and promptly found out. For me, it is very useful to be able to reference something in print so that I can take my time and digest the thoughts of an author and to be able to keep these types of articles on file for future reference as I continue to advance in equipment and the techniques implemented by those much more skilled than I.

Yes, the loggings are of great interest to me but there are even other aspects of the loggings that draw me to the JOURNAL. The first thing that I turn to each edition is the loggings section, but not for the loggings themselves. I jump right to the list of contributors. Aside from

the technical help as mentioned earlier, to me where the rubber meets the road is reading the equipment and antenna systems used by the contributors. Nothing interests me more than knowing who uses "what" in order to make those QSL catches.

I really hope that the printed format continues as a printer I can also say with at least some authority that the JOURNAL is very well done, all aspects of it. Keep up the good work.

73, John Wagner

**Terry Jones, P. O. Box 192, Plankinton, SD 57368-0192**

The last Musings column was very disturbing. The argument about the Country List being "politically correct" is sophomoric and irrelevant. Is NASWA an organization of adults or not?

The second thing is Joe Buch's proposal to make the NASWA Journal an electronic newsletter. He states "I am worried that the advent of electronic newsletters like Cumbre DX will soon eliminate a primary reason for people to join NASWA." If he is so worried about this then why does he distribute it? He answered his own argument; an electronic newsletter will be the end of NASWA. The cold hard facts of life are a logging is after the fact not before the fact, so a logging one month old is as relevant as a logging one day old. We have loggings simply to check our own logs against and to share our experiences. To be graveyard dead honest we also like to see our names there. So now lets be honest about this. Is NASWA a radio club or a computer junkie club? Is it an organization for SWL's or just another "fix" at the keyboard? I don't think there is much doubt where NASWA is going according to page 1 of the January Journal. The foundation has already been laid. So now those who are computer junkies are going to take dues I sent to support the radio hobby to support their "habit."

I am a radio enthusiast, "I don't cut notches on my gun" or keep score. I can contribute loggings to PopComm or Monitoring Times. I'm sure Bob Grove will welcome any one NASWA doesn't want, which may be a much larger group than you think. I think you had better estimate the loss at 25% to 50% of the membership. It would increase the volume of his distribution considerably. I'm sure he is "wise" enough to accommodate these "people." Same with PopComm.

So do I "need" an electronic NASWA Journal? No!! Do I NEED the NASWA Journal or NASWA at all? NO!!! My renewal date is March and I will be considering all this at that time. My inclination at this time is good-bye NASWA, but I may cool off. NASWA needs to decide what it is. Is it a radio club or the North American Computer Junkie Association (NACJA)?

As I look through the loggings in PopComm and MT, I see names that I used to see in the NASWA Journal that no longer appear here. Why?

It appears that the "chip heads" want a computer organization and want to keep "those people" out, typical elitist attitude. If that is so—so be it. This is a free country and I can withhold my dues. I predict that 2 to 3 years from now NASWA will not be here. Why would anyone pay dues when some computer nut will furnish the information free? So that he can get another jolt of what ever chemical buzz from his PC gives him or them or her. We must be "politically correct." Right?

J. D. Stephens has warned IRCA of this same thing in the DX Monitor. It seems that the electronic bulletin has been proposed by IRCA and they are loosing members to the NRC.

73, Terry

(As I said in NASWA Notes, there are NO PLANS to convert the Journal into an electronic publication - RAD)

**Charles J. Shaw, 71 Orchard St., Glen Lyon, Pa. 18617 <Internet: cshaw@epix.net>**

As a hopelessly incurable Program Listener, I am overly fond of Radio Prague. Several months ago, I sent an e-mail message to the good folks in Prague telling them how much I enjoyed listening to their station and even offered to write to the Czech Parliament to voice my support for keeping Radio Prague on the air. In these times of severe budget cutbacks, it had appeared that the station was destined to be shut down. "The money could be spent DIFFERENTLY but never BETTER!" I wrote.

Months passed, and I figured that they either had elected not to respond to my message or had, for some reason, never received the darn thing. On January 10th, I was checking my e-mail when, surprisingly, I saw that I had a message from Radio Prague. It was from Nora Mikes, and she explained that my message "squiggled" its way into the wrong folder. She thanked me for my message and apologized for the error. She closed her response with, "If at all possible, please send a less sneaky (and better-behaved) e-mail message next time—by that I mean one that's not likely to squiggle itself into folders into which it does not belong!"

Now I had become frantic trying to think of what I may have said in my message that could have possibly been deemed "sneaky" or that required "better behavior." Had I inadvertently said something that was considered so loathsome and abhorrent in the Czech Republic that I was now viewed as a subversive? Was my picture being displayed in Czech post offices under the heading "Have you seen this man?" Would the State Department come knocking on my door? Had I made shame for NASWA?

I rapidly dispatched another message to Nora asking her to "please elaborate." Whatever I had done, I didn't want to do it again, ever. Nora quickly responded. She hadn't meant that I was being sneaky or misbehaving. "What really happened is that I accidentally saved your original message into the wrong folder—instead of in my "To Answer" folder, it snuck its way into my "Archive" folder. I was simply attempting to lay the blame on the computers rather than on myself. Sorry for the nix-up!"

Whew! Me, too, I thought as I read her message. This entire episode was truly a "Much Ado About Nothing" experience. I had simply taken her comments in the wrong way. Amazing. Hmmm. I wonder what will happen when I finally get around to QSLing Radio Prague?

**Richard R. Dailey, 1815 Kleber Street, Pittsburgh, PA 15212-1618**

For the 1996 NASWA Winter SW Fest guest list of speakers could I make a suggestion? The design/engineering team of the new AOR A.R. 7030 receiver, Mr. John Thorpe and Mr. John Wilson. You can't do any better and you could do a lot worse.

(John Wilson spoke at a previous FEST while he was at Lowe - RAD)

**John W. Davis, 11340 Duncan Plains Road NW, Johnstown, OH 43031**

I would like to submit my opinion about the "country listing" controversy that I have seen in the "Musings" column. I think this controversy is silly, the North American Shortwave Association (NASWA) does not need to revise the country listing, it should be dropped altogether. What the NASWA does need is a listing of "transmitter" locations. A listing by country, town, and the name of the radio station or call letters would be sufficient. I would



like to ask Mr. Jensen if he could please work on the list of transmitter locations before some other organization or person does so. I would like to see the NASWA remain at the head of the DX community by taking the initiative in the development of a transmitter location listing.

**Rick Krzemien/N6NVG, 5398 Concerto Circle, Concord, CA 94521  
(74137.363@compuserve.com)**

It seems that "Political Correctness" has reached hysterical proportions and has now attacked our club's country list!

Obviously, Alaska and Hawaii are legal states and are indeed part of the United States. Nobody has said that they weren't. For country counting purposes, I have no problem with having them as separate country counts due to their geographic distance from the mainland. Remember folks, this is a hobby intended for fun and enjoyment. Let's not get so uptight about something so trivial as whether our country list is politically correct.

Don Jensen stated things best in his Musing in the January Journal. He said that a "radio country is merely a DXing counting unit, created to add fun and interest to the hobby for those inclined to use it". I think Don and the Country List Committee have done a good job in keeping the country list up to date.

*The FEST is right around (?) the corner...almost.*

73 - RAD 19 Jan 96

### **Welcome to the following new NASWA members -**

Frank D. Aigner, Bridgewater, VA	John G. Lucas, South Milwaukee, WI
Greg Bailey, Somersworth, NH	Don-David Lusterman PH.D, Baldwin, NY
Walter R. Beane, Branson, MO	David Matthews, Scottsdale, AZ
Jean Burnell, St. John's, NF, CANADA	Robert Millis, Lander, WY
Wayne Childress KC7KUE, Helena, MT	Mr. Noriaki Mise, Detroit, MI
George Clement KE4AK, Powder Springs, GA	Mark Mohrmann, Coventry, VT
Alexandre Colas, Roselle, NJ	C. Nevel, Pocono Summit, PA
Roark Consolatti, Paw Paw, MI	Kiyokazu Ohru, Syracuse, NY
Paul D. Deliens, Miami, FL	Zach Osofsky, New City, NY
John Doty, Bedford, MA	Mark L. Perlmutter KD1BP, Billerica, MA
Richard S. Gattoni, Wyckoff, NJ	L. Jim Plume, Syracuse, NY
N. Clark Gittinger, Niskayuna, NY	William G. Presho, Browns Mills, NJ
Mark Gringrich, San Leandro, CA	Neil Roth, Alpharetta, GA
Michael Grossman, Boston, MA	Donald L. Roupe, Bridgeport, WV
Charles Hasz, Berkeley Heights, NJ	Addison Smith, Athens, GA
Dan Henderson, Laurel, MD	Scott Kamana Stewart, San Francisco, CA
Tom Inston II, Theodore, AL	Lawrence Sweeney, Fultonham, NY
Bob Jesmain, Schaghticoke, NY	Kenji Takeuchi, Nagoya, JAPAN
David J. Kaley, Columbus, GA	Victor L. Trucco, Portland, OR
Paul Labecki, Gunnison, CO	Richard A. Urban, North Arlington, NJ
L. W. Lindgren, Flint, MI	Niel J. Wolfish, Toronto, Ont. CANADA
John C. Locke, Mississauga, Ont. CANADA	Joseph D. Yergler, Montrose, CO

## Calendar Of Events

- Feb 16 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 215-446-7831.
- Feb 16 Meeting. Boston Area NASWA Chapter.** The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 508-470-1971 or Internet: 74007.3434@compuserve.com
- Feb 17 Meeting. The Miami Valley DX Club** (all band orientation) meets at 1:00 PM. For more information plus this months meeting location contact Dave Hammer at 614-471-9973 or write to MVDXC, Box 292132, Columbus, OH 43229-8132.
- Feb 19 Meeting. The Chicago Area DX Club** meets at 7:00 PM at the Faith Lutheran Church Parish Hall in Oak Lawn, IL, 9700 Melvina Avenue. We will be ordering out for pizza/sandwiches. For more info contact Ed Stroh at 708-877-5204.
- Mar 9 Meeting. The Tidewater SWL's** meet at 6:30 PM. For more information plus meeting location contact Joe Buch at 804-721-2782 or Internet: buch@exis.net
- Mar'96 Contest. 1996 North American DX Championships.** Further information will be published in the Journal or you can send a self-addressed stamped envelop to 1996 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606. Information will be sent after the contest plans have been firmed up.
- Mar'96 Convention. The 9th Annual Winter SWL Festival** will be held at the Kulpsville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 14-16 March 1996. This all wave gathering attracts over 200 hobbyists each year. For further information and the registration form see December's Journal. We look forward to seeing many of our club members at the FEST once again.
- Apr'96 Convention. St. Louis DX Get-Together '96** will be held April 19-20-21, 1996 in the St. Louis, MO area. Planned activities include AM/FM/TV station tours, DX sessions and a tour of Amateur Radio bulletin station WA0RCR-1860. Open to all bands. For more information, contact Eric Bueneman-NOUIH at (314) 839-9751, or via E-mail at EBSDJDX@aol.com.
- Apr'96 Convention. The 30th EDXC Conference** will be held in Florence, Italy on 27-30 April 1996. The Associazione Italiana Radioascolto ("AIR") is the organizing group. Details are available from AIR, P.O. Box 30, I-50141 Firenze 30, Italy.
- May'96 Convention. The 1996 ODXA Convention** will be held at the Holiday Inn in Kingston, Ontario on 3-5 May 1996. More details to come.

Members are invited to submit items to be included in this calendar to Rich D'Angelo (Internet: r.dangelo3@genie.com) or Ralph Brandi (Internet: ralph.brandi@att.com).

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

February was the last edition of Friendx scheduled to be published by Ed Shaw as Bill Eddings returned to the helm. Eddings notes the generous contribution of \$50.00 from member Sara Stillman noting its the largest ever received by the club. C. M. Stanbury renewed for a 4th year and Dan Henderson renewed for a 7th year. Charlie Loudenboomer provides his predictions for the new year. The Photo Parade page featured Marlin Field, Al Sizer, Del Hirst, Bill Sparks, and Richard Wood. In The Shortwave Center, Cesar Objio wrote about "Emisora Cultural - La Voz de las Fuerzas Armadas" which broadcast from the Dominican Republic on 4,825 kHz with 3 KW. In the QSL Report, editor Gregg Calkin points out interesting verifications from Trucial States, AFNT/Taiwan, Radio Pax/Mozambique, and the Galapagos Islands. Dan Ferguson's Log Report and the QSL Report each received contributions from 50 members.

# Easy Listening

**Richard D. Cuff**

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Timonium, MD 21093-1716  
CompuServe 73651,153  
Internet rcuff@mementec.com

## Life After RCI

I'll admit that I haven't been following this extremely closely given my January travel, but the odds sure seem to favor RCI ceasing to exist in two months. RCI's last day will be a sad day for shortwave listeners. RCI has always ranked high among most listened-to broadcasters here in North America. International broadcasting provides only indirect benefits to a government, as there is rarely a voting constituency whose lives are directly affected by radio. The only international listeners who are also voters are expatriates. It appears this constituency isn't large enough to matter.

Those of us who listen to shortwave radio for program content should be especially concerned by the precedent set by the CBC decisions. I wonder if we listeners need to develop a more effective feedback strategy to convince governmental officials holding pursestrings that shortwave broadcasting is still much more effective for communicating one's perspective than a World Wide Web page or by a satellite broadcast. Perhaps communications with station personnel isn't enough; perhaps references like WRTH and Passport to WBR also need to provide names and addresses of government leaders along with names and addresses of shortwave stations themselves.

No doubt future wireless program delivery into inexpensive receivers will provide the accessibility of international broadcasting without the vagaries of the ionosphere, but I would still wager that technology is a good 5-10 years away from being commercially viable without several hundred dollars' expense.

Hon. Jean Chretien is Canada's prime minister, but Joe Buch reported in a [rec.radio.shortwave](#) posting that his letter

had been forwarded to Hon. Michael Dupuy, Minister of Canadian Heritage, Ottawa, Canada K1A 0A2 who sent what amounted to a form letter response.

## Winter SWL Festival

On a happier note, the Winter SWL Festival will be here before you know it. For those of you who have never attended and are on the fence, I strongly encourage you to fit the "Fest" into your budget and schedule. What has always impressed me with the festival is that participants enjoy the shortwave hobby in many diverse ways, yet all respected and encouraged no matter the level of expertise or degree of specialization. The weekend of camaraderie recharges the batteries very nicely at the point where we in the Northeast have been worn down by winter. Every year I meet old friends (I think this will be my sixth Fest) and make new ones. For more information, send a self-addressed, stamped envelope to Winter SWL Festival, PO Box 591, Colmar, PA 18915. You might even hear yours truly speak...

## Target Topic: Religion

When I researched this topic I found relatively few programs on secular stations that deal with religion; much more common are religious stations with a evangelistic mission. Deutsche Welle, Radio Australia, Radio New Zealand International, VOA, and the BBC were the only stations shown in the **Shortwave RadioGuide** database.

You'll see Peter Bowen's review on **Focus on Faith** below. What I find insightful in the program myself is that the BBC can dispassionately report on religious matters without getting caught up in them. This has always been a peril in religious reporting, and the BBC does it better than most. Here's Peter's review:

Time	Station	Title	Days
0130	BBC	Focus on Faith	Friday
0135	DW	Religion & Society	Sunday
0210	VOA	Perspectives	Saturday
0805	BBC	Words of Faith	Daily
1130	BBC	In Praise of God	Sunday
1130	BBC	Focus on Faith	Friday
2230	BBC	In Praise of God	Sunday
2355	BBC	Words of Faith	Sun-Fri
0430	RFPI	Sound Currents of the Spirit	Monday
0530	RFPI	Wisdom School of the Air	Sunday

*Focus on Faith is probably the best program about religion on shortwave. It is in the usual magazine format, with four to six items/topics covered in each show. There is also a short bulletin of religious news midway through the program, lasting for two to three minutes. The program as a whole is about twenty-eight minutes in length.*

*Each program usually consists of on-site reports and/or interviews by correspondents, plus interviews conducted by the host with guests who are either in the studio or on the telephone. The host introduces both the show as a whole, and each individual topic.*

*The topics covered deal with all of the world's major religions, though some priority appears to be given to Christianity. Most are presented within a social or political context, and have a contemporary relevance. Contrasting points of view are often presented on a single topic, either within the same program or perhaps over the course of several programs.*

*In the world of religious programs on shortwave, Focus on Faith is a lush oasis in an otherwise bleak desert. Instead of the usual simplistic and predictable evangelical Christian programs that most other stations broadcast, the BBC gives us a program that is refreshing and invigorating, challenging and fascinating. The content is varied, interesting, and relevant; presentation is lively, engaging, and thoroughly professional. Definitely a first-rate program, which helps to explain why the BBC is truly in a class by itself.*

*I do, however, have two small quibbles. The program's theme music is a bit too light and bouncy, while the host comes across as a touch too mellow and laid back. I would prefer both to be more serious, without being somber, as befits subject matter which is perhaps more important than any other.*

## BBC Radio 4

If you ever find yourself in the UK, where you wouldn't expect to easily hear the World Service, you can get a decent BBC fix from Radio 4. It appears many programs are co-produced by the BBC for both Radio 4 and the World Service. Just thought you'd like to know!

## Upcoming Target Topics

March: Shortwave Hobby/Media

April: History

May: Folk Music

etc.

If you have suggestions or comments as to how **Easy Listening** can be improved, please put pen to postcard (or keys to keyboard) and let me know. Don't be afraid, neatness don't count.

Sorry there are no BBC highlights this month; as of January 25th I haven't received *BBC Worldwide* yet.

Until next month,

73 DE Richard



## Station Profile: Radio Free Europe/Radio Liberty

### An Update on its Downsizing and Relocation Activities

By Richard A. D'Angelo

Earlier this year the National Security and International Affairs Division of the United States General Accounting Office issued a report after reviewing the issues related to Radio Free Europe/Radio Liberty's ("RFE/RL") downsizing and the planned relocation from Munich, Germany, to Prague in the Czech Republic. This effort was in response to the request of Congressman Alan Mollohan, ranking minority member of the Subcommittee on Commerce, Justice, State, and Judiciary (Committee on Appropriations). The report focused on (1) RFE/RL's ability to meet congressionally mandated funding ceilings and successfully operate in Prague, (2) the most pressing management problems facing RFE/RL in Prague, and (3) RFE/RL's view of its role and mission in the 21st century. The following are the more interesting highlights of the report entitled,

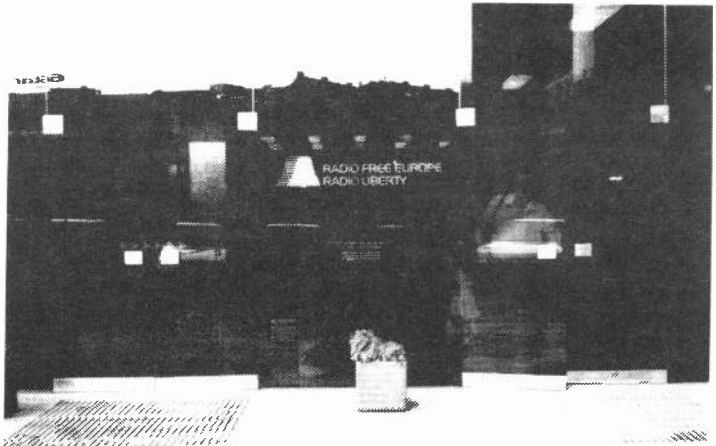
"International Broadcasting: Downsizing and Relocating Radio Free Europe/Radio Liberty."

### Background

In the 1950's, the U.S. government established RFE/RL as a private nonprofit company to provide surrogate radio programming to and about

Eastern Europe and the former Soviet Union. RFE/RL receives its grants and policy direction from the Board of International Broadcasting ("BIB"), a federal entity created to fund and oversee the operations of RFE/RL. During the past several years, RFE/RL has received annual grants of more than \$200 million.

With the demise of the Cold War, the executive branch began questioning the role and management of international broadcasting. President



Wenceslaus Square reflected in the exterior of the new RFE/RL building in Prague

Clinton called for the consolidation of all U.S. international broadcasting to better address changing broadcasting requirements and to meet deficit reduction goals. It was hoped a new management structure would reduce costs by promoting more rational programming decisions and sharing engineering and other administrative resources. The Office of Management

and Budget ("OMB") determined that a consolidation could save \$400 million during a 5-year period.

On April 30, 1994, President Clinton signed into law the International Broadcasting Act which consolidated all non-military U.S.-funded international broadcasting activities under the International Broadcasting Bureau within the United States Information Agency ("USIA"). The legislation also authorized the establishment of a Broadcasting Board of Governors ("BBG") to oversee the Broadcasting Bureau and to establish and maintain standards. The BIB, which currently oversees RFE/RL was scheduled to be dissolved in the fourth quarter of 1995. The act expressed the sense of Congress that the private sector should assume all funding not later than fiscal year 1999.

The legislation placed funding limits on RFE/RL and restricted what they could do. It specifically limits grants to RFE/RL to no more than \$75 million for any fiscal year after 1995. In July 1994, the President certified that significant national interest required relocating the operations of both stations from Munich to Prague.

## Summary of Results

The National Security and International Affairs Division estimates that the current and planned sources of revenues are insufficient by about \$28 million to cover RFE/RL downsizing and relocation costs and to meet mission require-

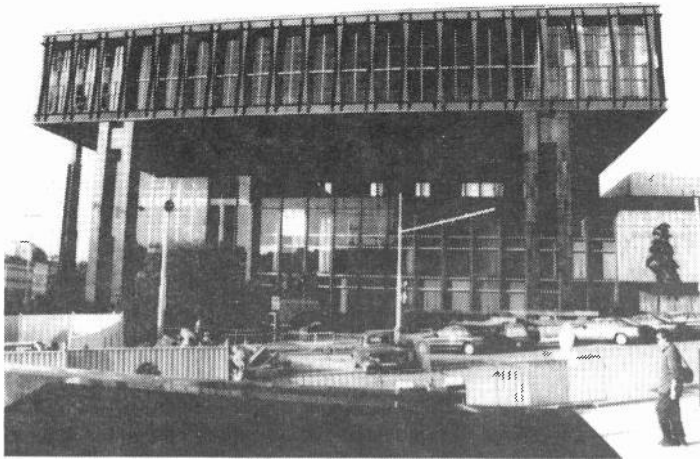
ments through 1999. This shortfall is predominantly from OMB under budgeting the actual cost of downsizing and relocating the organizations. The original estimates to consolidate international broadcasting activities did not identify the need for RFE/RL to pay millions of dollars in corporate liabilities for pensions and post retirement medical benefits, and underestimated the costs to terminate staff in Germany. Total revenues are also less than envisioned due to significant losses from currency exchange fluctuations which has resulted in a shortfall of revenue funding levels.

RFE/RL managers are concerned about their ability to recruit qualified staff from within and outside the organization. They believe their broadcasts will continue to be needed to provide accurate, objective news in support of democratic institutions and to present journalistic standards that in-country media could emulate. RFE/RL is contemplating new services and activities, such as English language print news reports, which are potentially marketable and competitive with other private sector media organizations.

## Downsizing and the Move to Prague

As a result of the downsizing, RFE/RL's annual fiscal year budget will be cut from \$143 million in 1994 to \$75 million for the years 1996 through 1999. Its staff ceiling will be reduced from over

1,000 to just 419 people. In 1993, OMB estimated that \$105 million would be needed to fund all downsizing costs and \$152 million would be needed to cover operations in 1995 for a total funding level of \$257 million. However, the estimate did not factor in many unknowns such as which activities, sites, or staff would be terminated. As a result, OMB underestimated by about \$45 million the costs associated



The new RFE/RL building in Prague

with pensions and post retirement medical benefits. Because of underestimated costs, budget reallocation activities and bad revenue estimates, Congress has had to pass amendments to help get RFE/RL through this period.

The move to Prague offers a location of great symbolic value in addition to lower expected operating costs. New digital production equipment will enable the management to reduce staff at the new location. RFE/RL has designed a new pay package that will put them more in line with other federal employees in similar positions, i.e. lower salaries. However, the move is significantly behind schedule and RFE/RL is finding it difficult to recruit experienced staff for Prague.

## Conclusions

With the end of the Cold War, the U.S. government found it necessary to redefine the role and purpose of Radio Free Europe and Radio Liberty. Essentially, the BIB/BBG is struggling with reducing the costs of operating the station's while moving its location from Munich to Prague. As usual in government work, a significant underestimate of the costs and problems associated with this change were inadvertently ignored during the design phase of the relocation. Nevertheless, the move is underway. It will cost more than originally planned, but what else is new when federal agencies are involved! As RFE/RL settle in to their new surroundings, it will be important for them to carve out their role in the 21st century.

*The next article is from the October 23, 1994 New York Times.*

# Shedding light on '56 Hungary Revolt

## New tapes may reveal whether the U.S. urged on participants

by Jane Perlez

Budapest Oct. 22—Historians have long debated whether the freedom fighters in the 1956 Hungarian uprising against the Soviet Union were spurred on by provocative broadcasts of Radio Free Europe, which was then financed by the C.I.A.

But the question could never be answered in the cool light of historical distance because Radio Free Europe, which had been based in Munich, Germany, could never find the tapes of the broadcasts.

Now, with the 39th anniversary of the revolt, the answer seems to be only a few months away. Successful sleuthing by a senior official of Hungarian Radio, the Government station here, has turned up copies of the tapes in a German archive.

The official, Gyorgy Vamos, the director of documentation, hauled 30,000 minutes of Radio Free Europe tapes covering the revolt back to Budapest from the German state library in Coblenz. On Monday, the anniversary, in the first of a series of programs based on the tapes, Hungarian Radio is planning to broadcast a

selection covering the first days of the revolt, which lasted from October 23 to November 4.

So far, Mr. Vamos has not listened to the tapes covering the days just before and after Soviet tanks squashed the revolt. Hungarians say they would like to confirm whether the radio suggested, that the fighters should press on, despite the odds, because Western assistance was coming through Austria.

The broadcasts in 1956 caused a stir at the time. Stimulated by the complaints of Hungarian emigres embittered by the lack of Western help and the Soviet victory, a Congressional hearing was held in 1957 to determine whether Radio Free Europe incited the fighters. The hearings exonerated the radio agency from being unduly provocative.

But given the intensity of the cold war at the time, the hearing's conclusion was hardly surprising, historians say. The trove of tapes found in Coblenz—actually monitoring tapes made by the German Government—will shed new light on the question, said Gyorgy Litvan, the director of a history institute on the 1956 revolt started here after the collapse of Communism.

Many Hungarians recall that Radio Free Europe had enormous influence during the revolt and that it gave implicit if not explicit hope to the revolutionaries.

"There were people for whom Radio Free Europe was an oracle and others who felt it was a very dangerous enemy," said Mr. Vamos, who was 16 in 1956 and remembers listening intently to the broadcasts.

His first program will show that at the beginning of the revolt, Radio Free Europe was disdainful of Imre Nagy, the Communist reform leader on whom the fighters pinned their hopes and who was executed in 1958 by the Soviet-imposed regime.

"Those who commented on the first days of the revolution didn't like Nagy," Mr. Vamos said. "They considered him as much of a Communist as the rest of them."

The discovery of the tapes comes as Central Europeans are getting more and more access to their cold war history with Communist Party archives in their own countries being uncovered and Western sources becoming more readily available.

The printed archives of Radio Free Europe, a collection of books, publications and samizdats—clandestine publications—from the Soviet bloc, have been moved from their previous home in Munich and were reopened here last week at the Central European University. Similarly, the tapes and the remainder of the operations of Radio Free Europe, which broadcast to the countries of the Soviet bloc, were moved to Prague over the last few months.

But the whereabouts of the original tapes of the 1956 broadcasts remains a mystery. Ties to the C.I.A. were severed in the early 1970's when the radio became a publically financed corporation. Eugene Pell, president of Radio Free Europe from 1986 to 1993, said that he asked staff members for the 1956 tapes several times, but they could never be found in the agency's vast storage area in Munich.

"But I would be very surprised if there was not a complete set somewhere," Mr. Pell said. "We all know who was running the radio at the time," he said, referring to the the C.I.A. "Do they have a complete set?"

## DX Target: Radio Happy Isles

### Shortwave Broadcasting from The Solomon Islands

By Richard A. D'Angelo

Tuning across the dial to domestic broadcasting station's is probably one of the best ways for armchair traveller's to learn about another country's culture. As shortwave listener's we have the opportunity to cross the globe through the use of our communications receivers to seek out other lands and cultures. Although most of these opportunities are in foreign languages, such as Spanish, Portuguese, Indonesian, etc., the Solomon Islands provides an opportunity to seek out an exotic world in English. As the country's only broadcaster, listening to the Solomon Islands Broadcasting Corporation ("SIBC") is our opportunity to hear, log, verify, and learn about this exotic DX location.

### The Country

The Solomon Islands are a chain of islands in the South Pacific. The southern islands in the chain

make up the island nation of the Solomon Islands. The northern islands are part of Papua New Guinea. The southern chain covers about 11,500 square miles, or 29,785 kilometers. The Solomon Islands lies about 1,000 miles, or 1,610 kilometers, northeast of Australia. The country spreads over about 230,000 square miles, or 600,000 square kilometers. Over 300,000 people live in the Solomon Islands.

Great Britain ruled the Solomons from 1893 to 1978, when the islands became independent. Honiara, on Guadalcanal, is the capital and largest community of the Solomons. It has a population of about 15,000 and is the home of the SIBC.

With the geographical feature of the Solomon Islands as an archipelago with some very remote islands having uncertain and irregular shipping links, the SIBC provides the only immediate means of transmitting news and information to



many of the islands. This crucial factor places importance on the SIBC as a valuable tool and an instrument for change in the country. The station's major role is telling people something new about what is happening and to provide entertainment through its various programs and music.

## The Government

The Solomon Islands is a constitutional monarchy and a member of the British Commonwealth of Nations. A Prime Minister, who is the leader of the political party with the most seats in Parliament, heads the government. An eight member Cabinet helps the Prime Minister run the government. A 38-member Parliament makes the country's laws. The people elect the members of Parliament to four year terms.

## Land and Climate

The country's main islands were formed by volcanoes. They are rugged, mountainous and covered with tropical plants. The islands range from 90 to 120 miles long (140 to 190 kilometers) and from 20 to 30 miles (32 to 48 kilometers) wide. Each island has a central spine that has mountains up to about 7,000 feet, or 2,100 meters, high. Some of the outlying islands are ring-shaped coral reefs known as atolls. Rainfall in the Solomon Islands varies from 60 to 200 inches, or 150 to 500 centimeters, annually. Temperatures range from 70 to 90 degrees Fahrenheit or 21 to 32 degrees Centigrade.

## The People

Most Solomon Islanders are dark-skinned people called Melanesians. More than 90% of them live in rural villages. The main foods of the people include chicken, fish, pork, coconuts, and a tropical plant called taro. English is the official language of the Solomon Islands. However, about 90 different languages are spoken among the Melanesians. The islanders also speak Pidgin English. About 80% of the people are Protestants.

## Awards Program

If you chase those wonderfully elusive QSL verification cards and letters, the SIBC provides a number of opportunities for awards program consideration. First, if you do not have a current copy of the club's "Awards Program and Country List" booklet, you should obtain a copy through Bill Oliver at headquarters (45 Wildflower Road, Levittown, PA 19057) or Kris Field at the club's Company Store (705 Gregory Drive, Horsham, PA 19044). Once you have browsed through the booklet, you will see that the Solomon Islands can help you toward earning up to 15 different awards in our program.

SOLOMON ISLANDS BROADCASTING CORPORATION	
QSL CONFIRMATION	Date: <u>25/10/95</u>
This confirms your reception of -	
9545 kHz; on _____ from _____ (G.M.T.)	
5020 kHz; on <u>4/195</u> from <u>2/27</u> (G.M.T.)	
1030 kHz; on _____ from _____ (G.M.T.)	
; on _____ from _____ (G.M.T.)	
The transmission had an aerial power of _____ <u>10</u> kilowatts. Thank you for your report, and we wish you good DX'ing.	
S.I.B.C.	
P O Box 654, HONIARA. S.I.	
SIBC/20.	
To	<u>Richard A D Angelo</u> <u>2216 Burkley Drive</u> <u>Wyncosting, PA 19610</u> <u>U.S.A.</u>

First, the Solomon Islands counts toward the DX Centurion series (four different awards in total) for 50, 100, 150 and 200 shortwave broadcasting countries verified. Incidentally, there are four similar companion awards available for those listener's that do not seek out QSL's - the International DX Listener Award series. Second, the islands count toward the prestigious Senior and Master British Commonwealth DX'er awards; for verification of 30 countries and 40 countries, respectively, that are or have been members of the British Commonwealth. Third, since the SIBC operates at relatively low power, it can help you achieve the All Continent QRP DX'er award. Next, the Solomon's count toward two awards for expertise in verifying Oceania broadcast countries; the Pacifica de DX'er for 10 countries verified and the Master Pacifica DX'er for 17 countries verified. Finally, if a verification is obtained for the country's 60 meter band frequency, it can be included in your list for the two Tropical Band DX'er awards

offered through the Awards Program. The Tropical Band DX'er requires verifications from 50 different shortwave broadcasting countries operating between the Tropics of Cancer and Capricorn and below the frequency of 6 MHz. The Tropical Band DX'pert award requires 75 countries to be verified. It is this latter award that recently attracted me back to the Solomon Islands many years after having previously verifying them on their 31 meter band outlet years ago.

If you have any questions concerning our awards program, please contact its chairman, Dr. Harold Cones (2 Whits Court, Newport News, VA 23606, USA). Dr. DX will be glad to answer any questions you have provided a self-addressed stamped envelope (or 2 International Reply Coupons for overseas members) is included with your letter to him.

## The Station

The SIBC, also known as Radio Happy Isles, broadcasts on both medium wave and shortwave in English and Pidgin. The medium wave outlets are from Honiara on 1035 kHz from 1900 to 1130 UTC each day; from Gizo on 945 kHz from 1600 to 0700 UTC each day; and from Lata on 1386 kHz from 0330 to 0700 UTC each day. Our main interest, the shortwave outlets, are located at Honiara. The outlet on 5020 kHz operates from 1900 to 1130 UTC each day while the outlet on 9545 kHz operates from 1800 to 0730 UTC each day. Both shortwave frequencies utilize 10 kilowatt transmitters.

The SIBC broadcasts 16.5 hours a day, seven days a week from its studios in Honiara. The programs include national news and overseas news, current affairs, special interest programs, health, agriculture, religion, and music. The station accepts advertising through its Commercial and Sales Department. Radio Happy Isles encourages listeners to send greetings to friends and relatives and to make birthday calls through the station's facilities.

A typical broadcast day commences with the station tuning signal from five minutes prior to the beginning of the broadcast day. The opening consists of a vocal rendition of the country's national anthem and a morning devotional prayer. After a twenty minute morning music program,

a news report in Pidgin follows at the 30 minute mark. This is usually followed by a business report relayed from Radio New Zealand International ("RNZI"), a weather report and a mail bag segment. After the first hour of programming, the morning news in English is broadcast. A typical program day consists of features on sports, health, money matters, youth, environment, maritime shipping and weather, etc. In addition to the business report from RNZI, relays from the Voice of America, the British Broadcasting Corporation ("BBC") and Radio Australia are not uncommon. The day closes with a BBC world news relay, a late night request program and the evening devotional prior to close down. The station is best heard on the east coast of North America during our winter months in the early morning hours prior to sign-off, i.e. 1000-1130 UTC.

The station has always been a reasonably good verifier of listener reception reports over the years. It's a good thing too, since this is the only way to log and verify this NASWA country. English language reports with return postage can be sent to Radio Happy Isles at the following address:

Solomon Islands Broadcasting Corporation  
P. O. Box 654  
Honiara  
Solomon Islands



## Conclusion

From a DX'ers point of view, Radio Happy Isles has a lot to offer. It is an interesting station to listen to while tuning the bands and a reliable verifier of listener reception reports. For those members chasing one of our many interesting awards, verification of the Solomon Islands can go a long way to achieving a number of terrific awards.

Good luck DX'ing the Solomon Islands Broadcasting Corporation. Remember to send all loggings of Radio Happy Isles to either Sheryl Paszkiewicz or Wallace Treibel for inclusion in the Log Report and those exciting SIBC QSL's to Sam Barto for his QSL Report column.

# Listener's Library

T. J. "Skp" Arey WB2GHA

P. O. Box 644

Waterford Works, NJ 08089

America Online: TJAREY

Internet: tjarey@aol.com

Our hobby opens us to the world in ways no other activity can. It is only natural to seek a deeper understanding of the distant places that send their signals our way. To this end, fellow NASWA member Dr. Stephen E. Pitts checks in with a review of a book about a favorite DX location, India.

## **CHASING THE MONSOON**

**A Modern Pilgrimage Through India**  
by Alexander Frater

1992 Henry Holt Publishers, New York

Available in paperback for \$12.95 from

Barnes and Noble

Reviewed by Dr. Stephen E. Pitts

One of the unique requirements of SWBC Dxing—perhaps especially when compared to Ham Radio Dxing—is both the necessity of and the opportunity to learn the culture of our radio targets. One or two minutes simply will not do it -- either in terms of an adequate reception report or in getting a sense of the peoples and places that frequent the dials. Take India for example. One of the largest and most populous countries in the world, India presents the radio listener with a variety of stations—each providing a window into who comprises this ancient and intricate culture and how it functions today. And every winter, the loggings sections of the Journal will show the dozen or so regional AIR stations that can be heard in North America.

One way to prepare for the Subcontinental DX season is to find some good reading material about India. Alexander Frater, Chief Travel Correspondent for The London Observer, has written a marvelous account of a trip through India following the monsoon as—day by day—it reached further and further into the interior of the country. Frater, the son of a Scottish physician, grew up on Vanuatu where his father served prior to World War II. It was that childhood background that led to his interest in both the weather and in the larger region of Asia and the Pacific.

In June 1987, Frater spent several weeks traveling from city to city in India, trying at each point to be there just as the monsoon rains arrived. It required precision in both weather forecasting and itiner-

ary planning—neither of which is easy under any circumstances let alone under the conditions of Indian bureaucracy. That is what makes the book so fascinating. Frater interacts with customs officials, meteorologists, aircraft pilots and taxi drivers with humor and persistence and each conversation and episode gives just a glimpse of the depth and variety of Indian societal structure.

Now, what makes it interesting to the Dxrer is not only Frater's contact with various government officials along the way (who demonstrate just how postal service and AIR personnel might function), but his stayovers in places such as Trivandrum, Panaji, Bombay, Delhi, and, most interesting of all, Shillong and Cherrapunji—the wettest region in the world. These cities are, of course, also regional AIR sites and the author deals with each community and its people with considerable detail. Shillong, to cite one example, is not only unique meteorologically; it is problematic politically for the Indian government.

I learned more about India in a more enjoyable way through this book than anything I have previously read. Along with Frater's BEYOND THE BLUE HORIZON (reviewed by John Bryant several years back in his NASWA column), CHASING THE MONSOON will provide thorough and entertaining reading about Asia and the Pacific—two of Dxings most popular regions.

Thanks for the review Stephen. Remember folks, we are always looking for your input for this column. If you have read a book or used a piece of software recently that might be of interest to your compatriots, why not pull a few lines together and send it in.

Speaking of software. I recently ran across a propagation package that could be a use to folks as we wrestle with the current sunspot cycle.

*Hfx v1.03*

**\$129 including shipping**

**by Pacific-Sierra Research Corporation**

**2901 28th Street**

**Santa Monica, California 90405-2938**

**1 (800) 820 4777**

**1 (310) 314-2300**

Propagation software has come a long way since the days of MINIMUF running on Tandy Model I personal computers. Hfx may well represent the current state of the art. Hfx is a Microsoft Windows based high frequency propagation prediction program that calculates ionospheric skywave signal strength from 2 through 30 MHz. What sets this program apart from most others is its highly intuitive, graphic intensive format. I loaded the program and played with it for almost a week before I got around to using the manual.

Minimum system requirements are a 386 PC, DOS 3.1 or higher, Windows 3.1, 4.5 MB of free hard disk space, 4 MB RAM, a mouse and SVGA with at least 256 colors @640 x 480. Preferred system requirements would be a 486 using DOS 5.0 or higher with at least 8 MB of RAM and 800x600 SVGA resolution.

Installation of the software package was a "no brainer". Just insert the disk and run the installation file from the Windows program manager. PSR has tested the program on several Windows 95 systems and have discovered no problems with the standard WIN95 setup. They cannot as yet guarantee that Hfx will work with any WIN95 third party additions or changes but this is the case for most software on the market right now. I ran the program with no problems under Windows for Workgroups 3.11.

The program can calculate the Maximum Usable Frequency world wide at any particular time of the day. It can also show the MUF along a transmitter/receiver path calculated on an hourly basis. Field Strength, signal - to - noise ratio and path availability can also be examined on an hourly basis. Based upon the information you input for the programs use, you can display skywave hop configurations and solar ephemeris data. The program allows you to examine pertinent propagation information by way of an excellent Interactive Map feature that is capable of displaying the "grayline" day/night terminator, Subsolar positions, great circle paths between a given transmitter and receiver location as well as high-latitude auroral information. Managing information on the map is mouse based and the map includes identification of many major cities.

When I finally took the time away from using the program to peek at the manual, I discovered that it was not only well written and illustrated with many full color depictions of the program in use. The manual also included a great short course in the practical aspects of propagation. There is also a glossary of technical terms and a list of references to help you study this subject in more depth.

This product has been initially marketed through the ham radio end of our hobby but it is an important tool that can be used by anyone exploring the HF spectrum.

### **PIRATE RADIO**

*The Incredible Saga of America's Underground Illegal Broadcasters*

by Andrew Yoder

326 Pages plus 1 Audio CD

\$29.95

HighText Publications

PO Box 1489

Solana Beach, CA 92075

ISBN 1-878707-29-9

If you have taken the time to read any of my screeds in various radio hobby publications, you know that I have often lamented at the lack of good historical documentation about radio monitoring. Andy Yoder's latest offering provides the Pirate Radio aspect of monitoring with a true historical text. Reading this book took me back through many fun years of listening in to those folks either brave or foolish enough to thumb their noses at the F.C.C. in favor of broadcasting without benefit of a license. Andy goes all the way back to the roots of radio itself to examine the earliest pirate practices that predated the Communications Act of 1934. He then takes the reader on a journey through the realm of pirate and clandestine broadcasting in the United States through the present. He also makes some expert predictions of the direction that free radio might take through the rest of this decade. The book includes a great deal of information on the developments in the area of "microbroadcasting". The book itself is well worth the cover price, but Andy and his Publisher Harry Helms provide another piece of radio history. An audio CD with 14 tracks of ID's, jingles, and programs from the world of pirate radio. Included in this collection are ID's from Voice of the Voyager and Radio New York International. It is my hope that future radio monitoring book project take a hint from Andy and Harry and consider including audio CD's.

The book does not stop at establishing Pirate Radio's history. It is also a source book of information for anyone trying to listen in on all the fun. The book include chapters on equipment, logging, confirmation and monitoring techniques that will allow the reader to enjoy many of the currently active free radio stations. Andy's exhaustive list of current stations and mail drops is included. This book could well serve as a model for other radio monitoring histories.



## Getting the Most From Your Receiver

Have you ever wondered what all those knobs are for on the front of your radio? For most short-wave listening you only need the tuning and volume controls. But when your tropical band DX is being splattered by some screaming preacher raving away on an over-modulated domestic transmitter, when static is obliterating every fourth word, when you are ready to trade your radio in and take up stamp collecting, that's the time you need to know what all those other knobs are for.

If you have not read the series "Walking Through Your Receiver", I would recommend you study it to help understand the recommendations I am about to make. That series ran in this column between September 1994 and March 1995.

Of necessity this article must be generic. There are as many variations of adjustments and controls as there are types of radios. I will attempt to show how to use the more common features that are included in many radios. If a described feature is one that you think would be useful, but you don't have it, you might consider a radio with that feature for your next purchase.

Let's begin at the radio antenna connector and work our way toward the output. The first control on most radios is the input attenuator. On some radios this may be a "preamp ON, preamp OFF" button that performs a similar function. This is probably the most important control available to the serious DXer.

When the going gets rough, try attenuating the input. In most cases sensitivity will still be limited by the atmospheric noise you pick up from the antenna. You will increase the dynamic range of the receiver by 10-20 dB.

The electronics in the RF and IF amplifier stages of your radio will be operating more linearly and generating less distortion. Intermod products will be reduced. Receiver generated noise may drop more than the amount the signal is attenuated resulting in an improved signal to noise ratio.

Some receivers achieve a similar effect by turning the RF gain control counter-clockwise and boosting the audio gain to compensate for the loss of gain.

You should also try using the Single Side Band (SSB) mode when you have an interfering signal that is almost on the frequency of a station you are trying to dig out. This mode allows you to select either the upper sideband or the lower sideband. Let's say that you have a station on 5050 and another station on 5050.5 that are approximately the same strength. In the AM mode your radio will put out an annoying 500 Hz tone that will make the reception unpleasant at best. Experienced DXers have learned that this is an ideal situation to employ the SSB reception capability of their receivers. If they want to listen to the station on 5050, they will select the lower sideband (LSB) mode. The receiver's SSB filter will attenuate the interfering carrier at 5050.5 and the modulation sidebands below 5050 will be heard with some interference from the lower sideband of the 5050.5 signal.

Similarly, if they want to receive the signal on 5050.5, they select the upper sideband (USB). The filter rejects the annoying carrier on 5050. The only interference left is the upper sideband energy from the 5050 transmitter which is normally much easier to listen to than the 500 Hz tone.

Some receivers have a function called "passband tuning" that operates in the SSB mode. This feature can be used to clean up muddy audio like that you hear from Radio Cairo and some Indian transmitters. The passband tuning can be adjusted to favor the higher frequencies of the audio. Passband tuning is also useful to accentuate discrimination of a desired signal from an interfering signal as in the previous scenario.

Many receivers have synchronous detectors. Theoretically, the sync detector can improve the signal to noise ratio of a weak signal by 3dB. That can be the difference between identifying a weak station and just hearing it. Some sync detectors also allow selection of either the upper or lower sideband. You don't get the S/N improvement that way but you may permit nearby interference to be rejected.

You should select the narrowest IF bandwidth available for maximum receiver sensitivity and maximum rejection of adjacent channel signals. Unfortunately, as you narrow the bandwidth, you also attenuate the audio sidebands. So the IF bandwidth selection is a compromise. The narrower the bandwidth, the more noise and adjacent channel interference are rejected. The audio sidebands also become more attenuated reducing the audio level out of the detector. The IF bandwidth that is optimum for each set of circumstances must be determined by the operator. Use the narrowest bandwidth that still permits the audio to be understood.

Do you ever wonder how DXers measure frequency to a resolution of 10 Hz? Many radios read frequency to a resolution of 10 Hz. But how do you know when you are tuned properly. Most radios do not put out much audio below 100 Hz. How do you judge the beat note in the SSB mode if you can't hear it below 100Hz?

The best way is to make use of the SSB mode. Tune in WWV on 10 or 5 MHz in the AM mode. Now switch to SSB. Alternate between upper and lower sideband. Does the pitch of the WWV audio tone sound the same in both USB and LSB? If not, adjust the tuning control until the pitch is the same in both modes. Once this has been done, you

can read the frequency off the receiver dial. If it is not 10000.00 or 5000.00, your receiver should be aligned.

Most receivers derive their frequencies from a master crystal oscillator. This oscillator normally has an internal adjustment. Take it to a technician experienced in repairing and aligning your particular receiver.

Once your receiver checks out on WWV, you can accurately use it to measure frequency of any received signal. Tune in an AM signal in the SSB mode. Switch between USB and LSB. Note the pitch of the audio. Adjust the receiver tuning control until the audio pitch sounds the same in LSB and USB. When you have that match, read the frequency off the dial. You should be within 10 or 20 Hz of the correct frequency assuming your hearing has a reasonable ability to discriminate pitch.

We have now reached the audio stages of the receiver. Many DXers find that a big improvement in the ability to dig out weak signals can be obtained by using earphones. I agree if the earphones are designed for communications and not high fidelity applications.

I have war surplus earphones that I bought from Fair Radio for \$4 that work well. These surplus phones use a thick metal diaphragm that doesn't vibrate much above 3kHz. Noise and adjacent channel heterodynes above this frequency are severely attenuated increasing the effective signal to noise ratio of the receiver. Of course earphones also mask extraneous room noises and eliminate the reverberation that occurs with loud speakers. Do not use hi-fi earphones. They are too good and pass frequencies much higher than the voice frequencies DXers need to get ID's of weak stations.

Good earphones are probably the single most effective accessory you can use if you want to DX the really weak stations. Those who share your living space will also appreciate you using earphones.

I hope these hints will improve your ability to hear the weak ones. Until next time, stay tuned.

**SLV**

# Equipment Reviews

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## The Grundig Yacht Boy 305 Portable Receiver

The Yacht Boy 305 is a low cost follow-on to the phenomenally successful YB 400. The radio's low cost is obtained by cutting out such features as a BFO, one kilohertz tuning steps, dual bandwidths and a clock/timer. The YB305's circuitry is based on a lower cost single conversion design. The street price of the YB305 is \$130, and, like the YB400, is manufactured in the People's Republic of China.

The size of the unit is very similar both to the YB400 and the Sony ICF-SW7600G at 8 X 5 x 1.5 inches (WxHxD) and it weighs a little over one pound. The effort to make the YB305 economical is evident in the supplied accessories—a leatherette carrying case, two "C" batteries and a concise instruction manual. There are no earphones, external antenna or AC adaptor included.

### A Basic Radio

The YB305 tunes medium wave from 530 to 1710 kHz, shortwave from 2.3 to 21.85 mHz (continuous) and FM from 87.5 to 108 mHz. Tuning steps are 5 kHz on SW, 9 or 10 kHz on MW and 50 or 100 Khz on FM—the latter two being selected by switches in the battery compartment. There are ten memory channels on each of the three bands. Memory channels within a band can be scanned with the radio stopping on active channels for about three seconds before resuming scanning automatically.

Tuning the radio is accomplished by Up/Down pushbuttons, direct frequency entry with the numeric keypad or by scanning. Using the "Meter" key in conjunction with the keypad will jump the SW tuning to the

low end of the selected standard international or tropical broadcast bands (120 to 13 meters). If scanning is initiated (by pressing and briefly holding in either tuning button) while the radio is within a meter band segment, scanning will be carried out within the limits of that meter band. While scanning in this manner, the radio will stop on active frequencies and scanning must be manually resumed by pressing a tuning key. To tune directly to a desired frequency, the "Enter" key must be pressed, followed by the frequency (trailing zeroes are not required) and repressing the "Enter" key to tune the radio to the keyed-in frequency. There are no bumps on any of the keys to help orient the visually impaired listener.

The other controls include a thumb-wheel volume knob and a High/Low tone switch on the right-hand side of the case and a Local/DX sensitivity switch on the left side. Also on the left side of the case are a 1/8 inch jack for an external antenna, a 1/8 inch stereo headphone jack and a barrel-type jack for external 3 volt power.

### Reasonable Performance


I compared the YB305 side-by-side with a Sony ICF-SW7600G, using each set's built-in whip antenna. The YB305 had equal sensitivity across the SW spectrum. Selectivity was approximately equal between the two radios, but the lack of one kHz tuning steps or fine tuning was a drawback with the YB305, since the tuning could not be shifted away from adjacent channel interference. The YB305 produced very pleasant audio output on signals "in the clear"—a heritage from its bigger Grundig brothers. The radio

was free from overloading, even when using a short length of wire connected to the external antenna jack.

## Single Conversion

The only area in which the YB305 is truly deficient is in the area of image rejection. Since the unit is a single conversion superheterodyne, with an intermediate frequency of 450 khz, images of strong signals can appear 900 kHz below the actual frequency. This was most noticeable on the 60 meter tropical band, where images of super-power stations in the 49 meter band would appear.

## Who Is This Radio For?

For the money, the Yacht Boy 305 is a good radio—it is easy to use, sounds good and provides overall good performance. It would be a good choice to introduce a newcomer to the hobby of SW listening or for the traveler on a budget who wants to monitor major international broadcasters. Those listeners who want to do semi-serious DX'ing or listen to hams while travelling would be better served by the YB400 or '7600G, since both of these radios have a BFO and better interference rejection capabilities. 

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## Tech Topics Extra

by Joe Buch

Notice: The following information regarding the R-8A noise blanker was provided by Chuck RippeI who received it from an R8 users group E-mail broadcast.

For those of you who have the R8a and notice the noise blanker not working up to par, you may want to send it back to Drake for an update. I brought mine back to them for a fix, and now at least the "n" position works like a blanker should. (at least on the noise I have at my location). Prior to the mod, activating the blanker only managed to produce more noise in the form of "popping" and "crackling", even without a signal present. It was most evident on SSB/CW.

Tim Cook <timcook@erinet.com>

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# Listener's Notebook

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**ANGOLA** *Radio Nacional de Angola* sked:  
0000-0500 Portuguese 7245 4950v 3375v 3355  
0430-1900 Vernaculars 9535 7215 3355  
0500-1200 Portuguese 11955 9720 7245 4950v  
3375v  
1200-1800 Portuguese 11955 7245 7215 4950v  
1800-2400 Portuguese 7245 4950v 3375v 3355  
1857-2000 French (ES) 9535 3355  
2000-2100 English (ES) 9535 3355  
2100-2200 Portuguese 9535 3355  
(ES)  
2200-2300 Lingala (ES) 9535 3355  
(BBCM)

*A Voz da Resistencia do Galo Negro* (VOLGRAN) continues to operate on the sole channel of 7090 kHz and there is an English program of news and commentary aired on Tuesdays & Thursdays at 1835-1900v. Identification is given as "This is the English Service of Black Cockerel Radio". BBCM confirms that the full schedule is 1650-2100. (TLC/HCB/Jan-96/World Radio Report/ODXA/via David Clark)

*RNA's* 9534.8 Foreign Sc. now regularly noted in EE @2000. (ed.) Also strong on 3374.92 at 1930 in RSA, fade-out on 13 Jan at about 0506. Fade-in on 13 Jan at 1750 // 5043, but with separate programming in period 1800-1900, announcing 'Radio Nacional', while 5043 carries program for Benguela. (13-Jan/Conradie—RSA/Cumbre)

*Emis. Prov Lobito* on 9590 at 0645. (Clemitson/DSWCI/WOR/Cumbre)

**ANGUILLA** The transmitter and antennas for *Caribbean Beacon's* imminent shortwave service are installed. They are awaiting ITU frequency registration and should be on the air in one or two months. (Dec-95/ARDXC) [We can hardly wait.—ed.]

**ANTARCTICA** I called the government contractor, Antarctic Support Associates, and asked them about the status of *AFAN*. Andrew Wright told me that the equipment is still down there but there aren't any plans to put the station on the air (Guess what, the station was on for last year's Super Bowl!). However, he said he was going "down to the ice" and to con-

tact him shortly. So, the door is still open for getting a broadcast from this station, if only just a bit. (04-Jan/Johnson/Cumbre)

**AUSTRALIA** *Radio Australia* ceased Suns 0810 UTC outlet of *Feedback*. Still on the air Fri 2210 UTC, Sat 0010, 0210, Sun 0410, 0610 UTC. (15-Jan/BC-DX/Bueschel—Germany)

*RA* is using new frequency of 9475 kHz, noted signing on at 2200 UTC, wiping out *WWCR*. Carnarvon 9645 kHz was heard in parallel. (Ross/WDXC Contact/15-Jan/BC-DX/Bueschel—Germany)

According to an item in the New Zealand DX Times, a radio station operator near Albury in New South Wales has been granted a low power shortwave license. Test broadcasts have already taken place using an initial power of 50 watts, though this is to be increased to 500 watts. Channel allocations have not yet been finalized but it is likely to fall between 2.9 and 4.6 MHz. Although the information is somewhat sketchy, this would seem to indicate a new development in the Australian radio scene. (14-Jan/AWR Wavescan #55/Harold Sellers/Feb-96/World Radio Report/ODXA/via David Clark)

**BANGLADESH** Dhaka now 1215-1545 (English 1230-1300) on 9548 kHz, past 1600 on 9568 kHz, announces also 7180 kHz, but really on v7185 kHz. English at 1815 UTC on 7190 and 9568 kHz. (Pankov—Bulgaria/15-Jan/BC-DX/Bueschel—Germany)

Observed on 9568 kHz, 1600-1630 Arabic, 1630-1730 Bengali, 1745-1815 Voice of Islam, 1815-1900 English. Fighting against Arabic station Doha Qatar on usually odd 9570.2 kHz. (09-Dec/BC-DX/Bueschel—Germany)

**BHUTAN** *BBS* has now stabilized on 5030 (ex 5025) daily and has adopted winter time. Thus English is now carried at 1315 until s/off one hour earlier than previously at 1400. (Johnson/Cumbre) *AWR-Costa Rica* is also scheduled on this channel until 1400 and *RTM Malaysia* is just slightly lower on 5029.9. (Feb-96/World Radio Report/ODXA/via David Clark)

**BOLIVIA** *Radio Ilimani*, La Paz, has reactivated 6025 which is now normally heard in parallel with 4945 kHz. (Jones/Numero Uno #1350) listed sked is 1000-0400, except Sun 1100-0400(Feb-96/World Radio Report/ODXA/via David Clark)

6142 *Radio Mauro Nunez* 2310 has not left shortwave as reported elsewhere. Heard several nights just after New Year's eve. Normally plays lots of Bolivian music nonstop, very few announcements or ID's. (02-Jan/Pedersen/Cumbre)

**BOTSWANA** *Radio Botswana* shifted down from 4830 to 4820 kHz in December where it was heard Dec 13th closing at 2200 and again at 0250 with usual barnyard IS before s/on, // continuing 3356 and 7255. (Berg/Numero Uno/Feb-96/World Radio Report/ODXA/via David Clark)

**BURMA** The clandestine [sic] radio station operated by the Karen National Union (KNU) in Kawthlay state in eastern Burma has resumed broadcasting. Programming consists of music with brief announcements in the Karen language. (16-Nov/RN Media Network/Goonetilleke/BBCM) Oops! It's no clandestine. *Thabye Radio* (Burmese: *Thabye Athan Hlwint Htar Na*) broadcasts in support of the Burmese government and in opposition to the Karen National Union (KNU) rebel group. (Thabye is a reference to the aromatic leaves of the eugenia tree which, according to Burmese belief, denote victory.) Sked is:

0030-0130	Burmese	6355.5v
0530-0630	Pwo Karen	6355.5v
1030-1230	Sgaw Karen/Burmese	6355.5v

(BBCM)

**CAMBODIA** In a report on Vietnamese radio, Cambodian minister of information, Ieng Muli, said that Cambodia will soon have two more new TV channels and three more radio shortwave channels. (26-Dec/BBCM)

**CHINA** With tensions between China and Taiwan rising quickly, it might be worth keeping you ear on Beijing for possible developments:

0000-0030	Hakka	12015 9440 8260 7190
		6140
0000-0100	English	11715v 9710v
0000-0100	Russian	4883 4815
0000-0100	Spanish	11445 9945 9370 7820
0030-0100	Chaozhou	12015 9440 8260 7190
		6140
0030-0100	Portuguese	12055 7435
0100-0200	Cantonese	9710v 7820
0100-0200	Spanish	11650 9945
0200-0300	Chinese	15435 11715v 9710v 9690
		7820
0200-0300	Spanish	11650 9945
0300-0400	English	11715 9710 9690
0300-0400	Russian	15435 11755 11515

0400-0500	Chinese	11715v 9710v
0400-0500	English	9730
0500-0600	English	9560
0830-0930	Indonesian	17680 15600 15135 8660
0900-1000	Chinese	15180 12015 11945 11695
		11685 11650 9945 9480
		6590
0900-1000	English	15440 11755
0930-1030	Malay	17680 15135 8660
0930-1530	Japanese	9855 7190
1000-1100	Cantonese	11650 9945
1000-1100	Chinese	12015 11945 11685 6590
1000-1100	English	15440 11755
1000-1100	Russian	11980 7820 7110 6140
		5145 4815
1030-1130	Cambodian	11780 9440 8260
1030-1130	Indonesian	15135 11455 8660
1100-1130	Esperanto	9480 6955
1100-1200	Cantonese	15260 12015 11945 11685
1100-1200	Mongolian	5850 5145
1100-1200	Russian	7820 7110 6140 4815
1100-1200	Vietnamese	9550 6110
1100-1300	Korean	5965
1130-1200	Burmese	11825 9880 8260
1130-1200	Tagalog/English	11700 11445 8660
1130-1230	Thai	7350 6590 6010
1200-1230	Tagalog/English	12110 11700 11445 8660
1200-1300	Cambodian	8260
1200-1300	Chinese	12015 11945 11685
1200-1300	English	11795 11660 9715 7410
		7385
1200-1300	Mongolian	5850 5145 4883 4815
1200-1300	Vietnamese	9550 6110
1230-1330	Laotian	7350 6590
1230-1330	Malay	15135 11445 8660
1300-1330	Burmese	11825 9880 8260
1300-1330	Esperanto	11840 11600
1300-1400	Chinese	12015 11945 11685
1300-1400	English	11600 9715 7410-(to 1330) 7385
1300-1400	Russian	7820 6140 5850 5145 4883
		4815
1300-1400	Vietnamese	9550 6110
1300-1500	Korean	5965
1330-1400	Burmese	11825 9880 8260
1330-1430	Indonesian	15135 11445 8660
1330-1430	Thai	7350 6590
1400-1430	Sinhalese	11780 7260
1400-1430	Tamil	11575 9457v
1400-1430	Turkish	9480 6955
1400-1500	Amoy	12015 11685 11650
1400-1500	Cambodian	9440 8260
1400-1500	English	9785 9530 7405
1400-1500	Mongolian	5850 5145 4883 4815
1400-1500	Vietnamese	9550 6110
1430-1500	Sinhalese	11780 11455
1430-1500	Tagalog/English	15135 11445 9880 8660
1430-1500	Tamil	11575 9457v
1430-1530	Laotian	7350 6590 6010

1500-1530	Bengali	8660 7260	2000-2100	Chinese	7780 7660 7435 7125 6955
1500-1530	Nepali	11445 9625 6590	2000-2100	English	15110 11715 9920 9440 6950
1500-1530	Pashto	9700 7480 5220	2000-2100	Russian	7315
1500-1530	Persian	11685 9440 9435 6955	2030-2100	Bulgarian	7385 7160
1500-1600	Chinese	11910 9455 7315	2030-2100	Hungarian	9365 6933
1500-1600	English	9785 9535 7405	2030-2100	Italian	9965 7470
1500-1600	Hindi	9920 7590 7180	2030-2100	Polish	7405 7375 4960
1500-1600	Russian	7780 7435 7375 5850 5145 4883 4815	2030-2130	French	9820 7800 7335 7215 7110
1500-1600	Vietnamese	9550 6110	2100-2130	Albanian	7405 4960
1530-1600	Bengali	8660 7260	2100-2130	Chinese	6165-via Switzerland
1530-1600	Nepali	11445 8660 7260 6590	2100-2130	English	15110 11715 9920 6950 5220
1530-1600	Pashto	9700 7480 5220	2100-2130	German	3985-via Switzerland
1600-1630	Swahili	9457v 7335	2100-2130	Italian	9965 9365 7470
1600-1630	Turkish	9785 7480	2100-2130	Serbo-Croat	7405 4960
1600-1630	Urdu	11690 9675 7590 6920	2100-2200	Arabic	11515 9440 7260 6955
1600-1700	Arabic	11835 9440	2100-2200	Spanish	7480 7360 6933
1600-1700	English	15130 15110 11575	2130-2200	English	9920 6950 5220
1600-1700	Hakka	7260	2130-2200	French	3985-via Switzerland
1600-1700	Hindi	9920 8660 7180	2130-2200	Serbo-Croat	6165-via Switzerland
1600-1700	Russian	11650 9655 7780 7470 7375 7160 6950	2130-2230	French	11790 9820 9770 7800 7335 7110
1600-1700	Vietnamese	7360 6590 6010	2200-2230	English	3985-via Switzerland
1630-1700	Swahili	9457v 7335	2200-2230	Portuguese	7535 7435 6950
1630-1700	Urdu	11690 9675 7590 6920	2200-2230	Spanish	6165-via Switzerland
1700-1730	Swahili	15110 11790 9455	2200-2300	English	7170
1700-1800	Cantonese	9900 7260 6920	2200-2300	Spanish	7480 7360 6933
1700-1800	English	11575 9535 7405 7150 5220	2230-2300	Esperanto	9480 6950
1700-1800	Russian	9655 7780 7470 7375 7160 7110 6950	2230-2300	Italian	3985-via Switzerland
1730-1800	Hausa	15110 11790	2230-2300	Portuguese	6165-via Switzerland
1730-1830	Chinese	9820 7800 7335 7110	2230-2330	Chinese	12015 11790 9770 9535 9440 7190 6140
1800-1830	Hausa	15110 11790 7405 7235 4960	2300-0000	Russian	4883 4815
1800-1830	Hungarian	7385 7160 6933	2300-0000	Spanish	15120 11875v 11445 9945
1800-1830	Persian	9785 9440 6955	2330-0000	Amoy	12015 9440 8260 7190 6140
1800-1900	German	9920 6950 5220			
1800-1900	Russian	9535 7780 7435 7375 7315			
1830-1900	Bulgarian	7385 7160 6933			
1830-1900	Italian	9965 7470 7405 4960			
1830-1900	Persian	9440 6955			
1830-1930	Arabic	11790 9770			
1830-1930	French	9820 7800 7335 7110			
1900-1930	Albanian	9965 7470			
1900-1930	Czech	7375 6933			
1900-1930	Portuguese	9900 9670 7120 6920			
1900-1930	Romanian	9945 7250 7160			
1900-1930	Turkish	9785 7405 4960			
1900-2000	Cantonese	11915 7780			
1900-2000	English	9440 6955			
1900-2000	German	9920 6950 5220			
1900-2000	Russian	9365 7660 7435 7315			
1930-2000	Albanian	9965 7470 7405 4960			
1930-2000	Czech	7375			
1930-2000	Portuguese	15110 11715 7765			
1930-2000	Romanian	8285 7160 6933			
1930-2030	French	9820 7800 7335 7110			
2000-2030	Esperanto	9965 7470 7405 4960			
2000-2030	Polish	7375 6933 6150			
2000-2030	Serbo-Croat	9365 7385 7160			
2000-2100	Chinese	7780 7660 7435 7125 6955			
2000-2100	English	15110 11715 9920 9440 6950			
2000-2100	Russian	7315			
2030-2100	Bulgarian	7385 7160			
2030-2100	Hungarian	9365 6933			
2030-2100	Italian	9965 7470			
2030-2100	Polish	7405 7375 4960			
2030-2130	French	9820 7800 7335 7215 7110			
2100-2130	Albanian	7405 4960			
2100-2130	Chinese	6165-via Switzerland			
2100-2130	English	15110 11715 9920 6950 5220			
2100-2130	German	3985-via Switzerland			
2100-2130	Italian	9965 9365 7470			
2100-2130	Serbo-Croat	7405 4960			
2100-2200	Arabic	11515 9440 7260 6955			
2100-2200	Spanish	7480 7360 6933			
2130-2200	English	9920 6950 5220			
2130-2200	French	3985-via Switzerland			
2130-2200	Serbo-Croat	6165-via Switzerland			
2130-2230	French	11790 9820 9770 7800 7335 7110			
2200-2230	English	3985-via Switzerland			
2200-2230	Portuguese	7535 7435 6950			
2200-2230	Spanish	6165-via Switzerland			
2200-2300	English	7170			
2200-2300	Spanish	7480 7360 6933			
2230-2300	Esperanto	9480 6950			
2230-2300	Italian	3985-via Switzerland			
2230-2300	Portuguese	6165-via Switzerland			
2230-2330	Chinese	12015 11790 9770 9535 9440 7190 6140			
2300-0000	Russian	4883 4815			
2300-0000	Spanish	15120 11875v 11445 9945			
2330-0000	Amoy	12015 9440 8260 7190 6140			
			(BBCM)		
			<i>Central People's Broadcasting Station</i> sked, all in Chinese:		
0000-0030		15550 15395 11800 9290 9080 7935 7504 6840 6750 6125 5955 5915 5880 4460			
0030-0100		15550 15395 12120 11800 9290 9080 7935 7504 6840 6750 6125 5955 5915 5880			
0100-0200		17605-(fm 0200) 15550 15390 12120 11800 11775 9290 7935 7504 6840			
0200-0300		17605 15550 15390 12120 11800 9290 7504 6840			
0300-0600		17605 15550 15390 12120 11800 11775 9290 7504 6840 6180.5u			
0600-0855		17605 15550 15390 12120 11800 11775 9290 7504 6840 6180.5u We-Mo			
0855-0930		17605 15390 12120 11800 9290 7504 6840 6180.5u 5320			
0930-1000		15390 12120 11800 9290 7935 7504 6840 6180.5u 5320			

1000-1030	11800 9290 7935 7504 6840 6180.5u 5320 4460	2230-2330	11740 11630 11610 10260 9775 9755 9064 7770 7516 6890 5163 4905 4800
1030-1100	11800 9290 9080 7935 7504 6840 6180.5u 5320 4460	2330-2400	11740 11630 11610 9775 9755 9064 7770 6890 5163 4800
1100-1130	12040 11775 9800 9290 9080 7935 7504 6840 6750 6180.5u 6125 6087.1u 5880 5320 4460	(BBCM)	
1130-1500	12040 11775 9800 9290 9080 7935 7504 6840 6750 6180.5u 6125 6087.1u 5880 5320 4460 3220	Broadcasts for National Minorities:	
1500-1600	12040 11775 9800 9290 9080 7935 7504 6840 6750 6180.5u 6125 5880 5320 4460 3220	0000-0026	Tibetan 11630 11375 8566
1600-1735	9800 9290 9080 7935 7504 6840 6750 6180.5u 6125 6087.1u 5880 5320 4460 3220	0030-0056	Uighur 11375 10260 8566 4735- Urumqi
1958-2300	9290 9080 7935 7504 6840 6750 6180.5u 6125 5955 5915 5880 5320 4460 3220	0100-0126	Kazakh 11375 10260 8566 4970- Urumqi
2300-2330	15395 9290 9080 7935 7504 6840 6750 6180.5u 6125 5955 5915 5880 5320 4460 3220	0430-0456	Korean 9920 9775 8566
2330-2345	15550 15395 12120 9290 9080 7935 7504 6840 6750 6180.5u 6125 5955 5915 5880 4460 3220	0500-0526	Mongolian 9920 9775 8566
2345-2400	15550 15395 12120 9290 9080 7935 7504 6840 6750 6125 5955 5915 5880 4460 3220	0530-0556	Tibetan 15670 11630 11375
(BBCM)		0600-0626	Uighur 15670 11375 10260
CPBS Second Program, again all in Chinese:		0630-0656	Kazakh 15670 11375 10260
0000-0030	11740 11610 9775 9064 7770 6890 5163 4800	1000-1026	Korean 9920 9775 8566
0030-0100	11740 11610 9775 9755 9064 7770 6890 4800	1030-1056	Tibetan 11630 11375 8566 7110- Lhasa 5995-Lhasa 4035- Lhasa
0100-0200	15500 11740 11610 9775 9755 9064 6890 4800	1100-1126	Uighur 11375 10260 8566
0200-0300	17700 15500 11610 9064 6890	1130-1156	Kazakh 11375 10260 8566
0300-0600	17700 15500 11610 11040 9064	1200-1226	Korean 9775 5420 4190
0600-0900	17700 15500 11610 11040 9064 Sa- Tu/Th	1230-1256	Mongolian 9775 6974-Hohhot 5420 4800 4190
0900-0955	11610 9064 7770 6890 Sa-Tu/Th	1300-1326	Tibetan 11630 8566 7110-Lhasa 5995-Lhasa 4035-Lhasa
0955-1030	11610 9755 9064 7770 7440 6890 5163 4800	1330-1356	Uighur 10260 8566 4735-Urumqi 3990-Urumqi
1030-1100	11610 9775 9755 9064 7770 7440 6890 5163 4800	1400-1426	Kazakh 10260 8566 4970-Urumqi 4330-Urumqi
1100-1200	11740 11630 11610 9775 9755 9064 7770 7440 6890 5163 4800	1430-1456	Mongolian 10260 8566 5060-Urumqi 4980-Urumqi
1200-1300	11740 11630 11610 10260 9755 9064 7770 7440 6890 5163 4800	2130-2156	Korean 9775 5420 4190
1300-1330	11740 11610 10260 9775 9755 9064 7770 7440 6890 5163 4800	2200-2226	Mongolian 9775 6974-Hohhot 5420 4800 4750-Hohhot 4190
1330-1400	11740 11630 11610 9775 9755 9064 7770 7440 6890 5163	(BBCM)	
1400-1600	11740 11630 11610 9775 9755 9064 7770 7440 6890 5163 4800	CHINA—TAIWAN <i>Voice of Free China</i> sked:	
2058-2200	11630 11610 10260 9755 9064 7770 7516 6890 5163 4905	0100-0200	Cantonese 15440
2200-2230	11740 11630 11610 10260 9755 9064 7770 7516 6890 5163 4905	0100-0200	Chinese 15215 11825
		0100-0200	Japanese 15345 11745
		0200-0300	English 15345 11825 11740 9680 7130 5950
		0200-0300	Spanish 15125 11825
		0300-0400	Amoy 11915 7130
		0300-0400	Cantonese 11740
		0300-0400	English 15345 11825 11745 9680 5950
		0400-0500	Chinese 15345 15270 11825 9680 7130 5950
		0400-0500	Spanish 11740
		0500-0600	Cantonese 15345 15270 11915 11825 9680 5950
		0600-0700	Indonesian 11915 11825 7130
		0600-0700	Spanish 5950
		0600-0700	Thai 15345 15270
		0700-0800	Chinese 7130
		0700-0800	English 5950

0900-1000	Chinese	15345 15270 11915 11745 9610 7445
1000-1100	Amoy	15345 15270 11745 9610 7130
1000-1100	Cantonese	11915 7445 7285
1100-1200	Cantonese	15270
1100-1200	Hakka	15345 11860
1100-1200	Japanese	11745 7130
1200-1300	Chinese	15270 11745
1200-1300	English	9610 7130
1200-1300	Indonesian	15345 11860
1300-1400	Cantonese	15345 11915
1300-1400	Japanese	11745 7130
1400-1500	Amoy	11745 7130
1400-1500	Hakka	15345 11915
1500-1600	Thai	9610 7130
1500-1600	Vietnamese	15345 11915
1705-1805	Russian	9955
1857-1957	Chinese	17845 9985 9955
1900-2000	German	9610
2000-2100	Arabic	15270 9955
2000-2100	French	9985 9610 5810
2100-2200	German	9985 5810
2100-2200	Spanish	15270
2200-2300	English	9985 5810
2200-2300	Thai	15345 7445
2300-0000	Spanish	11720 9690

(BBCM)

**CIS Radio Nadezhda**, the independent Moscow-based station aimed at women listeners, has returned to shortwave. On 10th December it was heard on 5925 kHz shortwave at 0830-0930. On 12th December noted signing on at 0300 on 5925 kHz. (BBCM)

Christian **Radio Station Alpha & Omega** is on in Russian from 1500-1600 on 7230 kHz. (BBCM)

After a brief absence, **Radio Kurdish Voice Media** ("Kurde Dendzi Media") is back on 9855 kHz 0800-1100 & 1300-1600.

**Voice of Russia** seems to be testing a new super power transmitter, heard with test transmissions: 6030 kHz 0200-0600, 12030 kHz 1100-1500, 6085 kHz 1600-2100. (Pavel Mikhailov's DX Klub/VOR/Pankov—Bulgaria)

#### **Radio Alef**

1700-1800 Russian 6005 Tu/Th/Su

#### **Radio Kala Aturaya**

1500-1700 Assyrian, Arabic, Farsi, 6005  
Russian, English 6130 Sa

#### **Radio Islamskaya Volna**

1600-1700 Russian 6005 Fr

Popular announcer Karl Yegorev has returned to **VO Russia** after an 18-month absence. (26-Dec/Keade)

A note sent by **VO Russia** states, "...our Technical Department says that **Radio Vietnam** does not broadcast via transmitters located on the Russian territory." Paul Buer, recipient of the note, asks, "Is Armavir the correct site and they don't want to admit it? Maybe a site in Ukraine instead?" (Buer—FL)

#### **Radio 7 (Samara) latest sked:**

0200-0330	6130 Tu/W/Th/F
0500-0630	9550 Tu/W/F
0800-1000	9550 Th
0600-1100	9550 Sa
0600-0730	9550 Su

Txers are 10kW.

#### **Voice of Vietnam** via Russian relays:

0100-0300	English	5940 Krasnodar
0300-0400	Spanish	5905 Krasnodar
0400-0500	Vietnamese	7345 Petropavlovsk

#### **China Radio International** via Russian relays:

1600-1657	Arabic	7130 St. Petersburg
1800-1827	Farsi	7130 St. Petersburg
1830-1927	Arabic	7200 Kurovskaya
2030-2157	French	7215 Samara
2200-2257	English	7170 Taldom

#### **TWR** via Russian txers:

0030-0200	South Asian langs	9825 Irkutsk
1130-1615	South Asian langs	7420 Irkutsk
1230-1300	Chinese	7400 Petropavlovsk

(Rudnev—Russia/ARDXC/22-Jan/BC-DX/Bueschel—Germany)

4485 Petropavlovsk not heard in Honolulu as of late (Brock—WH6SZ)

**Koryak Radio** broadcasts 2000-0800 on 4520 kHz from Palana in the Koryak Autonomous Area on the Kamchatka peninsula in the Russian Far East. Languages are Russian and Koryak. Local programs (in Koryak language) are Mo-Th from 2000-2030 and Mo-Fr from 0720-0800. All other times relays Radio Russia (in Russian). (BBCM)

#### **Radio Almaty**, from recent observations:

0600-0630	???	9705 9690 9560 7280 7235 7115 6075 6060 5985
0630-0700	English	9705 9690 9560 7280 7235 7115 6075 6060 5985
0700-0720	German	9705 9690 9550 7280 7235 7115 6075 6060 5985
0720-0800	Russian	9705 9690 9550 7280 7235 7115 6075 6060 5985
1700-1730	English	9505 5970 5940
1730-1800	Russian	9505 5970 5940

\* Unidentified Turkic language

### Kazakh Radio First Program

0000-1800 Kazakh/Russian 4545

### Kazakh Radio Second Program

0100-1800 Kazakh/ 9705 9690-(via Russia) 9560  
Russian 9550 9505 7235 7115 6060  
5970 5940-(via Ukraine)  
4820

**Adygey Radio** ("Radio of the Adygey Republic from Maykop") (The Adygey Republic is located in southern Russia, to the northeast of the Black Sea.) The radio broadcasts in the Bzadog (or Bzadugh) dialect of Adygey, one of the Circassian languages, as well as Arabic and Turkish, from 1800-1900 Mo/Fr only on 6005 kHz. (BBCM)

**Kabardino-Balkar Radio**, in southern Russia, on the border with Georgia. Station broadcasts Su/We 1830-1900 on 6005 in Kabardinian language. (BBCM)

Swiss German religious ministry radio programs may ceased via Armenia. Have not been monitored since November. Previous schedule 0630-0700 15400, 1030-1100 15270, 1800-1830 11805 kHz via **Radio Armenia Intercontinental**. (Dr. Hansjoerg Bienen MaKIR/02-Jan/BC-DX/Bueschel—Germany)

**Republic of Abkazia Radio** broadcasts on 9495 kHz at 0430-0530 (sometimes extended to 0545 or 0600) in Russian and Abkazian with a somewhat pro-separationist content. It was thought the transmitter might be located at Armavir (Russia) but it has now been confirmed that shortwave broadcasts are from transmitters registered in Krasnodar (Ukraine). Broadcasts begin with the national anthem and program review in both languages. ID's in Abkhazian are given as "Abkhuas Radio" while in Russian, they may be heard as "Abkhazkoe Radio" or "Gavarit Sukhumi", Sukhumi being the capital. More recently, additional 9585 has been added and s/on is sometimes at 0400, announced as 0700 local. (06-Dec/ARDXC NewsPlus/Feb-96/World Radio Report/ODXA/via David Clark)

A Danish SW club member recently visited the Frequency Management and Planning Department at **Radio Ukraine's** Monitoring Centre, 15 km outside Kiev. He advises that all programs now originate from Radio Ukraine and that there are no more relays of Moscow broadcasts. The Starobesek centre has been closed down. Active sites are Simferopol, Kharkov, Lvov and Kiev, although some transmitters in good working order are not actually operational due to lack of power or no demand for their use. Nikolayev is currently not active on shortwave, while the Ivano-Frankovsk and Odessa sites no longer have shortwave facilities. The 100 kW Kiev transmitter on 4940 has been off the air since August/95.

The 5 kW transmitter on 4840 at Zaporozhje has not been heard, although it is listed 0300-2300 non directional in the operational schedule.

**Radio Alma Ata** uses Ukrainian transmitters on 5940 at 1600-1900 (English at 1830) and 9560 with English at 0630-0700. **Radio Belarus** (Minsk) rents 5940 and 7205 kHz at 1900-2000. (Jan-96/DSWCI Short-Wave News/Bueschel/ARDXC NewsPlus/E-DXP Edition 2/Feb-96/World Radio Report/ODXA/via David Clark)

Ukraine noted on odd 5916.5 kHz for English sce at 2200-2300 producing terrible heterodyne signal, due to RFI Paris in Polish on even 5915 kHz at same time span. (20-Jan/Bueschel—Germany)

### Radio Tashkent sked:

0100-0130	English	7285 5975 5955
0130-0200	Dari	7285 5975 5955
0200-0230	Pashto	7285 5975 5955
0230-0330	Uzbek	9540 7285 5975 5955
0400-0430	Turkish	15330 15165
1200-1230	English	9715 6025 5975 5060
1230-1300	Urdu	9715 6025 5975 5060
1300-1330	Hindi	9715 6025 5975 5060
1330-1400	English	9715 6025 5975 5060
1400-1430	Urdu	9715 6025 5975 5060
1430-1500	Hindi	9715 6025 5975 5060
1520-1550	Dari	7285 6025 5975
1550-1630	Uzbek	9540 7285 7105 6025 5975
1630-1700	Persian	9540 7285 6025 5975
1700-1730	Arabic	9540 7285 6025 5975
1700-1730	Turkish	15165 9540 7105
1730-1830	Uzbek	9540 7285 7105 6025 5975
1830-1900	Persian	9540 7285 7105 6025 5975
1900-1930	Arabic	9540 7285 7105 6025 5975
1935-2030	German	13800 11905 9540 7105 6230 5060 5035
0030-0100	Uighur	5060
1230-1330	Uighur	5040
1430-1500	Chinese	5040
1530-1600	Uighur	5040
2330-0000	Chinese	5060

(BBCM)

**CLANDESTINE—AFRICA Voice of Oromo Liberation (VOL)**, which supports the Oromo Liberation Front and is hostile to the Ethiopian government, was heard in December broadcasting from a transmitter believed to be in the former Soviet Union.

1600-1700 Oromo 5960 Mo/We/Sa

(BBCM)

**R. Mogadishu, Voice of the Masses of the Somali Republic**, 6880 USB, ex-6870 kHz. Noted 27 December on new frequency with speech to crowd in presumed Somali, into English at 2002 with mention of meterband. (Hill)

**Voice of Sudan** broadcasts on behalf of the National Democratic Alliance (NDA), an umbrella group opposed to the current Sudanese government. It identifies itself as "Voice of Sudan radio, voice of democracy and peace, NDA radio" (Arabic: *Idha'at Sawt*

*al-Sudan, sawt al-dimuqratiyah wa'l-salam, idha'at al-Tajammu al-Watani al-Dimuqrati*). Sked:  
 0400-0600 Arabic 10000 9000-announced 8000  
 1715-1915 Arabic 10000 9000-announced 8000  
 (BBCM) Noted on 8000.08 until 1917\* (06-Jan/  
 Valko/Cumbre)

**CLANDESTINE—ASIA** *Voice of Kashmir Freedom* (Urdu: "*Sada-i Hurriyat-i Kashmir*") is opposed to Indian control of part of Kashmir. It is sometimes referred to by other sources as Voice of Independent Kashmir. It is assumed that the station operates from Pakistan or Pakistani-administered Kashmir. It has announced an address of PO Box 102, Muzaffarabad, Azad Kashmir, via Pakistan. Sked:  
 0230-0330 Urdu 6300 5750 5300  
 1530-1730 Kashmiri 6300 5300 4115v

**CLANDESTINE—MIDEAST** *Radio Voice of Sharia* (Dari: *Sadaye Sharia*) was first heard on 29 December 1995. Although it has not been heard explicitly to announce its affiliation or the identity of its sponsoring organization, its broadcasts are hostile to the government of President Rabbani and give publicity to the Taliban Islamic Movement. Frequency usage is subject to considerable variation.  
 0300-0420 Dari/Pashto 7070-7090v

*Radio Message of Freedom* (Dari: *Pyam-e Azadi*) supports the Islamic Party (Hezb-e Islami) of Afghanistan led by Golboddin Hekmatyar. Times and freqs variable:  
 0230-0400 Pashto/Dari 7000-7100 6235v  
 0730-0900 Pashto/Dari 7000-7100 6235v

**COLOMBIA** A new station is *Ecos del Orinoco*, 4905.25, first noted by Dave Valko on January 10th around 0230 in Spanish. It was later identified by Ullis Fleming and his SS fluent wife. The broadcasts are announced as tests and the address of Puerto Carreno, Vichada, Colombia is announced. Signal is quite strong in the Eastern USA. They play a variety of music, ranging from vintage boleros to EE pop mx. Sign off is around 0500. Morning transmissions have NOT been noted. (Valko, Fleming et al, NU #1355) Asking for reception reports to this address: Puerto Careno, Vichada, was heard with fair reception in Ecuador at 2325-0445. Apparently they are only on the air in the evenings. They announce 4905 as their SW frequency (ARDXC/Padula)

**CONGO** 9609.92 *RTVC* 1600 FF & vernacular music w ID '*Radio Congo*' fair signal (10-Jan/Conradie—RSA/Cumbre)

**CROATIA** *Croatian Radio*, 4770 kHz, is a spur, created by the mixing of two genuine signals radiated from Croatian Radio's Deanovec transmitter site (5895 kHz minus 1125 kHz equals 4770 kHz). (Bueschel—Germany/BBCM)

**CUBA** *Radio Havana Cuba* sked:

0000-0030	Quechua	15340
0000-0200	Spanish	15230 11970 11875 11760 9550 6180 6070 5965
0100-0200	English	9830u 9820 6000
0200-0230	Creole	6180
0200-0400	English	9830 9820 6000
0200-0400	Spanish	15230 11970 11875 11760 9550 6070 5965
0230-0330	French	6180
0330-0400	Creole	6180
0400-0500	English	9830u 9820 6180 6000
0400-0500	Spanish	15230 11875 11760 9550 6070 5965
0500-0700	English	6000
1100-1200	Spanish	11875 11760 9550 6000
1200-1300	Spanish	11875 11760 9550 6000 5965
1300-1400	Spanish	11760 9550 6000 5965
1400-1500	Spanish	11760 6000 5965
2000-2100	Arabic	15220
2000-2100	French	11705
2000-2100	Portuguese	11760
2100-2200	English	9550
2100-2300	Spanish	15220 11760 9820u
2130-2200	Creole	6180
2200-2300	English	9505u 6180
2200-2300	Portuguese	15340
2300-2400	French	9820u 6180
2300-2400	Guarani	15340
2300-2400	Portuguese	11970

(BBCM)

*Radio Rebelde* noted @0757 on 3600 kHz, // usual 5025. (ed.) I think this is a harmonic of 600 kHz. I heard them last year on 2400, 3600, and even 4800. (Brandi)

**ECUADOR** *La Voz de Chinchipe* is a new Ecuadorian station (perhaps unofficial) that has been heard on the air since October but was only able to be identified in mid-December. It uses 3570.17 kHz and operates from the town of Zumba near the southern border with Peru. Check for this around 2345 until closing with the Ecuadorian anthem shortly after 2400. (McVicar/TLC/HCBJ/Feb-96/World Radio Report/ODXA/via David Clark) This is the only shortwave station in the remote province of Zamora Chinchipe. (McVicar/Cumbre DX)

*R. El Buen Pastor*, Saraguro is still heard on 4830.1 kHz throughout Ecuador, but heavily QRM-ed during the dusk, night and dawn by R. Tachira. The Director, Sr. Segundo Poma who is an real Indian, told me that they transmit with 1 kW and has just applied for another frequency in the 60 mb to avoid the interference. It is a Protestant, religious station which broadcasts daily in Quichua 1100-1400 and 2100-2400, and in Spanish 1400-1500 and 0000-0100. (ARDXC/PADula)

**Emisora Gran Colombia** in Quito was visited. They broadcast on 610 kHz MW mainly sports programs and LA music. Their power is reduced to 10 kW to save costs, but they are still heard well in Northern and Central Ecuador. Their SW transmitter on 4911 kHz is off the air and will be repaired when finances allow, but this was said to have low priority. The man who introduced the SW transmitter died 5 years ago and the remaining staff seems to show little interest for it. (ARDXC/Padula)

It is NOT recommended to enclose IRC's with reception reports to small Ecuadorian stations, as their post offices do not know how to use them! (ARDXC/Padula)

**ETHIOPIA Radio Fana** sked:

0330-0430	Oromo	6210
0430-0530	Amharic	6210
0900-1030	Amharic/Oromo	6210
1530-1630	Oromo	6210
1630-1730*	Amharic	6210

\*sign-off often extended to as late as 2030. (BBCM)

**GREECE Voice of Greece**, Athens, is anxious to assess the effectiveness of its direct shortwave transmissions to Australia. A new schedule is in effect until 26 March:

0600-0800	Grdek/EE	9425	11645
0900-0950	Greek	15630	15665
2100-2250	Greek/EE	9425	

(05-Jan/Padula—Australia)

**GUAM Trans World Radio (KTWR):**

0755-0915	English	15200
0825-0855	Hakka	11665
0855-1000	English	11830
0900-1100	Chinese	11665 9785
0915-0930	Balinese	15200 Tu
0915-0930	Madurese	15200 Fr-Su
0915-0930	Torajanese	15200 We/Th
0930-1100	Indonesian	15200
1000-1130	Russian	9870
1100-1200	Chinese	11665 9785 9590
1130-1145	Korean	9870 Mo-Sa
1130-1155	Korean	9870 Su
1200-1300	Japanese	9870
1200-1325	Chinese	9820 9590 7465
1325-1530	Chinese	9820 7465
1330-1345	Assamese	11580 Mo/Tu
1330-1345	Boro	11580 We-Su
1330-1400	Swatow	9870
1345-1400	Santali	11580
1400-1415	Tamil	11580
1400-1430	Cantonese	9870 Sa
1400-1500	Cantonese	9870 Su-Fr
1415-1430	Vietnamese	9430
1430-1500	Amoy	9870 Sa
1430-1515	Burmese	9430
1500-1630	English	11580

1530-1545	Kazakh	9475 Mo-Fr
1530-1545	Tajik	9475 Sa/Su
1545-1600	Kyrgyz	9475 Mo-Th
1545-1600	Uzbek	9475 Fr-Su
1600-1615	Korean	9475 Tu-Fr
1600-1615	Russian	9475 Sa-Mo
2100-2200	Japanese	11700
2100-2230	Indonesian	9815
2130-2330	Chinese	11580
2200-2230	Cantonese	11660 Sa
2200-2300	Cantonese	11660 Su-Fr
2230-2300	Amoy	11660 Sa

(BBCM)

Guam *Pacific DX Report* airs each week on *KTWR* on Saturdays at 0815 using 15200, Saturdays at 0940 on 11830, and Mondays at 1615 on 11980. It includes the *ARDXC Report* and ARDXC QSLs are available for reports of the Club segment. Reports, with return postage, should be sent to: ARDXC, Box 227, Box Hill, Victoria 3128, Australia. (24-Dec/ARDXC DX-PRESS/Padula)

**HONDURAS Radio Litoral** does not appear to be active before 1400. Checks by Terry Krueger in Florida in early January have found no trace of the signal at his location. When they are on, he can hear them as late as 1500. (Krueger, NU #1355)

**HONG KONG** It's official: the *BBC World Service* transmitting site in Hong Kong—which broadcast news of the Tiananmen Square massacre in Mandarin [Standard Chinese] to China—is to be dismantled before the Chinese authorities take over the colony in 1997. The equipment will go home when Britain pulls out, in order to prevent the Chinese authorities from using the station, maybe for jamming purposes as they're jamming the BBC at the moment. Replacement coverage will come from a new transmitting station currently being built in Thailand, which is due to come on stream in mid-1996. (23-Nov/RN Media Network/BBCM)

**IRELAND** An official from *RTE*, the Irish public broadcaster, has given the reasons for the broadcaster's relay agreement with US shortwave station *WWCR*. The official cited the large number of overseas Irish who did not have access to a satellite dish, and pointed out that if the six-month experimental arrangement with *WWCR* was successful, further shortwave broadcasting would be considered. (BBCM)

**INDIA All India Radio** sked:

0000-0045	Tamil	13732	11745	9910	9550
					4990
0015-0100	Urdu	6155			
0045-0115	Sinhala	1053			
0100-0130	Burmese	11620	9950		
0100-0200	Sindhi	7125	5990		
0100-0200	Urdu	9610	6155		



0130-0200	Tibetan	13700 11880 9565
0130-0228	Nepali	9550 7250 6045 3945
0200-0430	Urdu	9610 6155
0215-0300	Pashto	13700 9910 7225
0300-0315	Dari	13700 9910 7225
0315-0415	Hindi	17387 15180 15075 11855
0400-0430	Persian	15050 13700 11730
0415-0430	Gujarati	17387 15075
0430-0530	Arabic	17785 15050
0430-0530	Swahili	17387 15075
0530-0600	Urdu*	17785 15050
0700-0800	Nepalese	11850 9595 7250
0830-1130	Urdu	11620 9595
0845-0945	Indonesian	17387 15050
1000-1100	English	17890 17387 15050 13700
1115-1200	Thai	17890 15340
1115-1215	Tamil	17865 15770 15075 13750
1145-1315	Chinese	17705 15050 11735
1215-1245	Telugu	15770 13750
1215-1315	Burmese	11620 10330
1215-1330	Tibetan	11710 9565 7410
1230-1500	Sindhi	11585 6165
1300-1500	Sinhala	15020 9700
1315-1530	Dari	9910 7140
1330-1430	Nepali	11850 7410 6045 4860 3945
1330-1500	English	13750 11620
1415-1530	Pashto	9910 7140
1430-1930	Urdu	6045 4860
1500-1600	Baluchi	11585 6165
1515-1540	Swahili	15075 9950
1515-1600	Gujarati	15165 11620
1615-1640	Russian	15140 11620
1615-1730	Hindi	15075 13732 9950 7410
1615-1730	Persian	11585 9910 7265
1730-1945	Arabic	13732 9910
1745-1945	English	15075 13750 11935 11620 9950 9650 7410
1945-2000	French	13732 9910
1945-2045	Hindi	11620 9950 7410
2045-2230	English	15225 11715 11620 9950 9910 7410
2245-0045	English	15145 13700 11620 9950 9705
2300-2400	Hindi	13732 11745 9910

\* during Haj pilgrimage season (BBCM)

Information and Broadcasting Minister P.A. Sangma inaugurated three 50-kW shortwave transmitters at **All India Radio's** [AIR] high-power transmitter site at Delhi on 8th January, according to a report by AIR that day. According to the report, the Indian-made transmitters would strengthen AIR's foreign and regional coverage. (08-Jan/AIR/BBCM)

Three other AIR sites are also testing new transmitters:

Gangtok 3390 kHz 10 kW 1200-1630. (ex Sikkim)  
Kohima 4850 kHz 50 kW 1300-1425.

(address AIR Assist. Dir. Engineering, Mr. Morang, 797001 Kohima, Nagaland, India) Itanagar 4990 kHz 50 kW 1100-1630. (06-Jan/DXPI/HCBJ/07-Jan/BC-DX/Bueschel—Germany)

Port Blair 4760 noted @1214 Subcontinental vocals, "*Akashvani Port Blair*" ID at 1229, followed by pips, AIR ID and Delhi news by woman. (14-Jan/Hill)

**AIR Guwahati** 4940, tentatively @1213 mixing w/prob Sri Lanka. (01-Jan/Hill)

**AIR Thiruvananthapuram** relays **AIR Kozhikode** [medium wave] at times. It relays only the English news from Delhi [at 0035], but not Hindi [at 0030]. Sked is 2345-0315, corresponding to local morning. This "micro" external service is meant for Indian expatriates in the Middle East. (Manosij Guha—India/Feb-96/World Radio Report/ODXA/via David Clark)

**INDONESIA Voice of Indonesia**, external service, using new 250 kw tx here coming from Cimanggis near Jakarta:

0030-0100	Spanish	9525
0100-0200	English	9525
0200-0300	Indonesian	9525
0300-0400	Arabic	9525
0800-0900	English	9525
0900-1000	Malay	9525
1000-1100	Chinese	9525
1100-1130	Thai	9525
1130-1200	Japanese	9525
1200-1300	Indonesian	9525
1730-1800	Spanish	9525
1800-1900	German	9525
1900-2000	French	9525
2000-2100	English	9525

(BBCM/Subagyo/Indo Dx Club/Peterson/Wavescan/White/Cumbre/11-Dec/BC-DX/Bueschel-Germany)

**RRI Manado** continues to rotate the use of 3214.8 and 5987.6 during the evening transmission period. On those occasions when 5987.6 is used, often there is then a changeover to 3214.8 which occurs following the 1200 Jakarta news relay. The station lists nominal 3215 and 5990 with 10 kW each. (Dec-95/Yamada/IDXR/Feb-96/World Radio Report/ODXA/via David Clark)

**RRI Ujung Pandang** (program?) is irregularly testing a new 250 kw tx on the following channels: 6165, 7110, 9565, 11855, 13685, 15165, 17730, 21660 kHz. (Subagyo/Indo DX Club/Peterson/Wavescan/White/Cumbre/11-Dec/BC-DX/Bueschel-Germany)

3249.8	<b>RRI Banjarmasin</b> 2114 Presumed this with subcontinental-sounding vocal by woman. (26-Dec/Hill/Cumbre)
3266.4	<b>RRI Gorontalo</b> 2132 Probably this one (14-Jan/Hill)
3384.9	<b>RRI Kupang</b> 2118 Slow, C&W-type lagu2 vocals segued till 2130. (01-Jan/Hill/Cumbre)

4003.2	<b>RRI Padang</b> 1500-1535+, Jakarta nx to 1511, anthem, right into Indo pops. (02-Jan/Martin/Cumbre)	0350-0410 Ukrainian 5975 7275 0415-0425 Amharic 9670 11800 0415-0425 Italian 5990 7275 0425-0440 English 5990 7275 0435-0510 Italian 9670 11800 0445-0535 Lithuanian 5975 7270 0510-0530 Romanian 6125 7270 0510-0530 Somali 9670 11800 0535-0555 Arabic 9645 11800 0535-0555 Russian 5975 7270 0600-1355 Italian 15240 R. Uno 1000-1100 Italian 11925-via BBC Singapore 1335-1400 Albanian 5990 7275 1400-1415 Slovak 5990 7275 1400-1430 English 15245 17780 1415-1435 Austria 5990 7275 1430-1455 Arabic 6035 7290 1435-1455 Croatian 5990 7275 1500-1520 Turkish 7235 9615 1500-1525 Italian 5990 7290 1520-1540 Greek 7235 9615 1530-1555 French 5990 7290 9755 1555-1635 Italian 5990 7290 9755 1605-1625 Russian 7235 9615 1630-1655 Arabic 11745 15310 17870 1630-1655 French 7235 9710 1700-1800 Italian 7235 9710 11840 11840 15230 17870 15320-Ascension
4789.2v	<b>RRI Fak2</b> 2059 Three iterations of SCI, then man in presumed news from Jakarta. (24-Dec/Hill/Cumbre)	
4874.6	<b>RRI Sorong</b> has been off the air since Dec 1st. (Kito/Asian DX Forum/Feb-96/World Radio Report/ODXA/via David Clark)	
6134.7	<b>RRI Samarinda</b> (pres.), 0718-0735* (26-Dec/Schulze/FT/Valko/Cumbre)	
6152.8	<b>RRI Biak</b> , 0815-1300, now on this freq. Noted @0828. RRI Tual changed freq or is weaker?? (22-26-Dec/Schulze/FT/Valko/Cumbre)	
7174	<b>RRI-Cerui</b> observed here with a BIG SIGNAL on 7174, from 0120-0200, with local Indonesian vocals. Peaking 0200, but long fades, typical of the Midday Asian Mode, as at (19-Jan/Padula/ARDXC DX-PRESS)	
9655	<b>RRI Jakarta</b> (x9680) from 2200-0100 to avoid R. Thailand QRM (Subagyo/Indo Dx Club/Peterson/Wavescan/White/Cumbre/11-Dec/BC-DX/Bueschel-Germany)	

**IRAN** 7160 V. of the Islamic Rep. of Iran \*1300

For the first time in my memory, this station now has a broadcast in Chinese. Noted Dec. 30 and Jan. 1 s/on in that language after usual solemn string IS. On Dec. 30, went into Urdu at 1330 while 11930 carried something else. On Jan. 1, pulled the switch after Chinese while 11930 carried the Urdu transmission. Fair on 7160 via long-path. (05-Jan/Hill/Cumbre/02-Jan/BC-DX/Bueschel—Germany) Comment: IRIB schedule show Chinese 1300-1330 KAM 15330 kHz 500 kW 64 degrees, 1430-1500 KAM 11750 kHz 100 kW 79 degrees. (Bueschel—Germany)

1805-1825 German 5990 7275 9755 1815-1830 Czech 6035 9710 1830-1845 Slovak 6035 9710 1830-1905 English 15245 17780 1845-1905 Polish 6035 9710 1910-1930 Serbian 5990 7130 1910-1930 Somali 9710 11800 15340 1935-1955 English 6030 7235 1935-1955 Hungarian 5990 7110 2000-2020 Russian 6090 7110 9590 2000-2020 Sw/Da/Esp 6030 7235 2025-2045 Arabic 6035 7235 2025-2045 English 5990 7110 9710 2050-2110 Portuguese 5990 7235 9710 11740 15250 2110-2130 Spanish 5990 7235 2115-2135 Romanian 6015 7110 2135-2155 Arabic 5990 7235 2135-2155 Czech 6015 7110 2155-2210 Slovak 6015 7110 2200-2225 English 5990 9710 11815 2210-2225 Polish 6015 7110 2230-0050 Italian 6005 9575 9645 11800 11880
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(RAI/15-Jan/BC-DX/Bueschel—Germany)

**ITALY** After long break **RAI Rome** issued a printed schedule again (til March 30, 1996): 6060 kHz 2300-0500 Night program in Italian, and nx px in Italian xx.00, in E xx.03, F xx.06, German xx.09 h. 6060 & 9515 kHz 0500-2300 Radio Uno Italian 7175 kHz 0500-2300 Radio Due Italian

Sunday sport special in Italian, 1320-1650, CeEUR 9855, EaAF 21520, Ce&SoAF 21710, NoAM 17780, SoAM 21535 kHz.

0050-0110 English 6005 9645 11800 0050-0110 Spanish 9575 11880 0110-0130 French 6005 9645 11800 0110-0130 Portuguese 9575 11880 0130-0230 Italian 6110-via Ascension 11765-via Ascension 0130-0305 Italian 6005 9575 9645 11800 11880 0305-0325 Spanish 6005 9575 9645 11800 11880 0330-0345 Russian 5975 6020 7270 9575
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**JAPAN** Heard here (near Seattle) **NHK-Shobukuk** on 3607.5 USB, **NHK-Nagoya** 3970 USB, and **NHK-Ebetsu** on 6005 AM 0850-0920. Each carried separate programming (mostly talk) to 0900 time pips, simulcast NHK news in Japanese. Signals best on Nagoya, but all fair and readable. (09-Dec/John M(?))

**KOREA (SOUTH) Radio Korea International** sked. Some broadcasts are relayed via *Radio Canada International's* facilities at Sackville (marked "-s") and the *BBC's* Skelton site in the UK (marked "-u");

0100-0200	Korean	7275
0100-0200	Spanish	11810 11725
0200-0300	English	11810 11725 7275
0300-0400	Korean	11810 11725 7275
0600-0700	English	7205
0700-0800	Korean	15575 7550 7205 7105-u
0800-0900	English	13670 7550
0800-0900	Japanese	7275 5975
0900-1000	Korean	13670 9570 7275 5975
1000-1030	Spanish	11725 11715-s 7550
1000-1100	Korean	13670 9570 7275 6135 5975
1030-1100	Spanish	11725 7550
1100-1130	Korean	11725 9650-s 9640 6145-s
1100-1200	Russian	7275 6135 5975 1170
1130-1200	English	9650-s
1130-1230	Chinese	9640
1130-1230	Indonesian	13670 9570
1200-1300	English	7285
1200-1300	Japanese	7275 6135 5975 1170
1230-1300	English	13670 9640 9570
1300-1400	Chinese	7285 6135 5975 1170
1300-1400	Indonesian	13670 9640 9570
1400-1500	French	9570
1400-1500	Japanese	5975
1400-1500	Korean	13670 9640
1500-1600	Russian	15575 6150
1600-1700	English	15575 9870 9515 5975
1700-1800	Arabic	9870 9515 7275
1700-1800	Russian	7120-u
1700-1900	Korean	15575 7550 5975
1800-1900	French	9870 9515 7275
1830-1900	English	6480
1900-2000	Arabic	15575 9870 9515 7550 6480
1900-2000	English	7275 5975
2000-2030	English	3970-u
2000-2100	German	7550
2000-2100	Russian	5975
2000-2100	Spanish	15575 9870 6480
2030-2130	French	6090-u
2100-2200	English	15575 6480
2100-2200	Korean	9640 7275 5975
2130-2230	German	3970-u
2200-0400	Korean	15575
2200-2300	Chinese	9640 7275 5975
2200-2300	Spanish	6480
2300-0000	Indonesian	9640 7275
2300-0100	Korean	5975

(BBCM)

**KUWAIT Latest Radio Kuwait sked:**

0000-0530	Arabic	11675
0200-1305	Arabic	6055 15495
0400-0805	Arabic	15505
0445-0930	Arabic	15110
0815-1740	Arabic	15505

0900-1505	Arabic	17885
0930-1605	Arabic	13620
1315-1730	Arabic	15110
1315-2130	Arabic	9880
1615-1800	Arabic	11990
1745-2300	Arabic	15 505
1800-2100	English	11990
1800-2400	Arabic	9855 15495

(17-Jan/DX-Antwerp/Vissers—Belgium)

**LAOS UNID station** on 5396.7 kHz at 1120, drift from 5408 kHz? (Gerhard Werdin—INS/UADX/15-Jan/BC-DX/Bueschel—Germany)

**LATVIA Radio Latvia**, Riga, has suspended the Swedish broadcasts (Sat/Sun at 2130-2200) and the German broadcasts (Mon-Fri at 2135-2140) due to a lack of funds. The Home Service-1 English broadcasts do continue on 5935 kHz at 2000-2030 on Sat/Sun and at 2130-2135 on Mon-Fri. (02-Jan/Radio Latvia/BCDX/ARDXC NewsPlus/E-DXP Edition 2/Feb-96/World Radio Report/ODXA/via David Clark)

**LITHUANIA** As from January 1st, the *Radio Vilnius* External Service to NAM ceased relay from Krosnodar (CIS) transmitters and instead, began being relayed via the Julich transmitter facilities of *Deutsche Welle* in Germany. Because the cost is some 30% less, the transmission period has been expanded from one-half hour to restore the former hour-long daily format, being Lithuanian at 0000-0030, followed by English at 0030-0100. The frequency is 5910 kHz. (TLC/HCJB/Feb-96/World Radio Report/ODXA/via David Clark)

BBC Monitoring has identified the station on 9044 kHz which was first reported by Wolfgang Bueschel in BC-DX as *Lithuanian Radio* from Vilnius. The signal was observed in parallel on 9710 kHz as well as on another frequency, 10376 kHz. Both 10376 and 9044 are mixing products of transmitters on 9710 and 666 kHz at the Sitkunai transmitter site near Vilnius (formula 9710+666=10376; 9710-666=9044). The exact frequencies observed were 9043.95, 9710.95 and 10376.95 kHz- but this may vary slightly as the 9710 kHz transmitter is subject to some drifting. (BBCM/02-Jan/BCDX/Bueschel—Germany)

**MADAGASCAR/NETHERLANDS** On 2 January, *Radio Netherlands* donated equipment and accessories worth 150m malagasy francs to the Ministry of Culture and Communication. The equipment is destined to improve the Sabotsy-Namehana [radio] transmitter [near Antananarivo]. This will enhance the audibility of the Malagasy national radio station. (BBCM)

**MALAYSIA** The *Voice of Islam* program has been heard within *Voice of Malaysia's* English service

(for example at 0620 on 15295 kHz) and its Indonesian service (e.g. at 1530 on 9750 kHz). (BBCM)

**MALTA** *Voice of the Mediterranean* sked:

0600-0700	English	9765 Mo-Sa
0700-0830	English	9765 Su
0700-0800	Arabic	9765 Mo-Sa
0830-0930	French	9765 Su
0930-1000	German	9765 Su
1400-1500	English	11925
1500-1600	Arabic	11925

(BBCM)...but this may be a moot point, because...

The *Deutsche Welle* Relay station at Cyclops, Malta was closed on January 15th. The treaty with the Maltese authorities was valid for 20 years and expired at the end of 1995. It was not renewed. The station will be dismantled and replaced by a vacation resort. Deutsche Welle is now searching for other transmitting facilities to take over these transmissions. This will be not that difficult because in Germany itself there is an overcapacity of available transmitters. Nothing was mentioned about the transmissions of 'Voice of the Mediterranean'. But today (Sun Jan 21) I couldn't hear anything on 11925 kHz at 1400. So, I assume that Malta left shortwave. (21-Jan/Schotmans—Belgium)

**MAURITIUS** A small item in *Radiopanorama* from the DX club 'Amatie Radio' in France states that a financial accord has been reached with Luxembourg for the establishment of a shortwave service on the island which would be used for coverage of the Indian Ocean, Africa and Australia. (Jacob/Wavescan/WRR/Clark/Cumbre Dx)

**MONGOLIA** *Radio Ulan Baator*, 7530, noted signing on at 1930 with interval signal, station ID in English by woman, followed by news and pop music until 2000\*. Most days, this is quite weak, but was pretty good January 8th. (Rausch-NJ, NU#1355)

**MOZAMBIQUE** 15291.7 *Em. Nacional* 1310 Disco-type Europop vocal with heavy, thudding beat. At 1315, tenor-voiced man announced in Portuguese, then a second man and a woman with what sounded like a string of ads. After echo announcement at 1317, back to Europops. Extremely low audio, but it's the first time I've managed to get anything readable from this one after innumerable tries lately. (01-Jan/Hill/Cumbre)

**NEPAL** Ram S. Karki, Director of Engineering, *Radio Nepal*, advised that enclosing US\$1 with reports significantly increases chances of mail theft & has specifically requested that DXers discontinue this practice and instead enclose 3 IRCs with reports. Reports are welcome and can be sent to him c/o Radio Nepal, P.O. Box 634, Singha Durbar, Kathmandu or to his personal address: P.O. Box 4946, Kathmandu. (Matthews—Nepal/DXPL/ARDXC)

**NORWAY** *Radio Norway*, the external service of Norwegian public radio NRK, is planning to add a second 500-kW shortwave transmitter at the Sveio site by the end of 1996, together with some new antennas covering the 11-21 MHz range. (08-Dec/WOR/WWCR/BBCM)

**PAKISTAN** 3664 *Azad Kashmir Radio*, poor here 0218, man in Hindu type lingo, not good but readable (08-Jan/Henderson/Cumbre). 4790.6 *Azad Kashmir Radio* 0044 singing by chorus, same "anthem" that I have heard at 1330\*. Seems as though they are saying "Azad Kashmir" over and over. 0045 Brief call to prayer and then greetings and ID by woman. (08-Jan/Johnson/Cumbre). 4895.7P *R. Pakistan* 1435 with music and plenty of mentions of Pakistan by YL announcer but no ID. 4790.6 too weak to check //. (07-Jan/Johnson/Cumbre)

**PAPUA NEW GUINEA** 3325, *R. Bougainville*, 1250-1302\*, Tlk by M in PD over Church organ mx. So prob. rel. pgm. Island song, and M again over mx. 1300 ID by M "The time now ?? o'clock. Saturday night ?? broadcast ?? 8:00 o'clock. R. Bougainville broadcasting from ?? frequencies of 812(?) and ?? kilohertz. (Valko Dec. 30)

**PERU** According to Peruvian authorities, *Radio Ondas del Rio Mayo*, 6803.2 kHz, is a totally illegal (i.e. unlicensed) operation. Although given orders to cease transmitting until a license is procured, they continue to be active on shortwave. Locally-made 1 kW transmitter is fed into a half-wave dipole, 11m above the ground, and powered by the station's own generator. (TIN/Relampago DX #76)

...and, in a related matter...

At least nine radio stations in Rioja and a larger number in remote hamlets and districts, which operated without licences, have been closed by the Ministry of Transport [and Communications]. Eduardo Macedo Zapata, judge of Rioja's penal court, witnessed the operation that started on 8th December and continues with the support of the national police. Transport Ministry authorities, headed by legal adviser Teofilo Meza, announced their decision to continue their campaign until all clandestine radio stations are eliminated from the province. *Radio Frecuencia Popular*, *Radio T & FM*, *Radio Estudio 95*, *Panamericana Television Channel 9 Relay Station*, *Radio Ondas de Mayo*, *Radio Naranjos*, *Radio Estudio 1*, *Paredes Cable Television*, *Radio FBC* and others stations in remote hamlets and districts were among those which had their equipment confiscated by the authorities. (19-Dec/'La Republica' newspaper, Lima/BBCM)

3339.95	<b>R. Altura</b> , 1049, Canned promo by M w/ t/king live M anncr over OA Huayno mx w/ ID, comunicados, TC, and ending w/police siren SFX at 1053. (23-Dec/Valko/Cumbre)	1430-1455	Telugu	9520
3670	<b>LV de la Esperanza Adventista</b> , Rel. songs, SP anmnts. (Pankov OZDX via Valko)	1430-1525	Chinese	6020
4182.41	(ex 5646 already?!) <b>Radio LV de San Antonio</b> (Bambamarca); 90% sure it was them at 0513 w/ romantic music, OM w/ low-level mumblings. Mumbled ID at 0520, old songs. fr with QRM (31-Dec/McVicar)	1500-1525	Pilipino	11715 (to 1555 Sa/Su/We)
5235.44	<b>R. Apurimac</b> , 1019-1047, Mx and t/king pgm w/M and W anncrs in lang. that sounded like lcl Indian mixed w/SP words. SP ad block at 1030, one w/sirens blowing. Ment of radio by M at 1035 but not an ID. (Valko).	1530-1555	Urdu	9670
5E22	<b>Radio Sudamerica-Cutervo</b> noted signing on at 1142 in mid-song on 22 December with fast LA mx, AD for pharmacy and mention of "sociation de Cutervo", then ID at 1200 as "Somos R. Sudamerica, AM 1060, una senal del Peru el gusto" (Lazarus/NU #1353)	2100-2255	Chinese	6190
6232.7	<b>Radio Superior-Pardo</b> Miguel Naranjos is now operating mornings. I noticed its sign on at 1102 on October 13th, and at 1200 on Sunday, October 14th. It announces its nominal frequency of 6250 kHz but drifts between 6232.5 and 6232.8 kHz. (TIN/Relampago DX #74)	2130-2225	Russian	9560
		2230-2355	Chinese	7105
		2300-2325	Indonesian	9505 11820
		2330-2355	Burmese	7230
		2330-2355	Vietnamese	9535
		(Padula/ARDXC/22-Jan/BC-DX/Bueschel- Germany)		
		<b>POLAND Radio Maryja</b> is announcing the following schedule:		
		1100-1500	5970	
		0700-0930	5900	
		Observed also on 7285 kHz til 0825. ID is "Here is Radio Maria, Catholic Voice of Our Homes". ("Tu Radio Maryja—Katolicki Glos Nashih Dome") (20-Dec/Pankov—Bulgaria/15-Jan/BC-DX/Bueschel—Germany) here is the address: Radio Maryja, ul. Zwirki i Wigury 80, 87-100 Torun, Poland. Phone: 056/36580/2 Fax: 36572		
		<b>Polish Radio, Warsaw</b> sked until 31-Mar:		
		0600-0625	Ukrainian	7270 6035
		0630-0725	Polish	7285 6095 6035 5995
		0730-0755	Czech	5995
		0730-0755	Polish	6095 6035
		1200-1225	Lithuanian	7285 5995
		1200-1225	Russian	9525 7145 6095
		1230-1255	Belarussian	7285 5995
		1230-1255	German	9525 7145 6095
		1300-1355	English	11815 9525 7270 7145 6095
		1400-1425	Lithuanian	7145 6095
		1400-1425	Russian	9525 7285 7270
		1430-1455	Belarussian	7270 6095
		1430-1455	Esperanto	9525 7285 7145 6000
		1500-1555	German	9540 9525 7285 7145 6095 6000
		1530-1555	Russian	7270 7145
		1530-1555	Ukrainian	7285 6035 6000
		1600-1625	Czech	6095
		1600-1625	German	7270 7145 6000
		1600-1625	Lithuanian	6035
		1630-1655	Belarussian	6095
		1630-1725	Polish	11815 7285 7145 6000
		1730-1755	German	7270 6095 6000
		1800-1855	English	7285 7270 6095
		1900-1925	Russian	7285 7270 6000
		1930-1955	Ukrainian	7270 6035 6000
		2000-2025	Russian	7270 6035 6000
		2030-2125	English	7285 6035 6095
		2130-2155	Esperanto	6095 6035
		2200-2255	Polish	6035 6095
		(05-Jan/Ageenkov—Russia)		
<b>PHILIPPINES</b> Final sked for <b>Radio Veritas Asia</b> , March 3-May 27, 1996:				
0000-0025	Karen	9535		
0000-0025	Sinhala	9670		
0030-0055	Kachin	9535		
0030-0055	Tamil	11820		
0100-0125	Bengali	15335		
0100-0125	Telugu	15530		
0130-0155	Hindi	15335		
0130-0225	Vietnamese	15530		
0200-0225	Urdu	15535		
1000-1025	Hmong	9555		
1000-1055	Chinese	9520		
1030-1125	Russian	15130		
1100-1125	Vietnamese	11850		
1130-1155	Burmese	9670		
1130-1155	Chinese	9660		
1200-1225	Indonesian	9505		
1200-1225	Karen	9670		
1230-1255	Kachen	9670		
1230-1255	Pilipino	9505		
1300-1325	Vietnamese	7265 11770		
1330-1355	Hindi	9555		
1330-1355	Sinhala	9660		
1400-1425	Bengali	9555		
1400-1425	Tamil	9520		

<b>ROMANIA Radio Romania International:</b>			
0000-0100	Spanish	11940 9570 9510 6155 5990	
0100-0130	Portuguese	11940 9570 9510 6155 5990	
0130-0200	Romanian	11940 9570 9510 6155 5990	
0200-0300	English	11940 9570 9510 6155 5990	
0300-0400	Spanish	11940 9570 9510 6155 5990	
0400-0430	English	11940 9570 9510 6155 5990	
0430-0500	Ukrainian	7135 5965	
0500-0530	Hungarian	7245 5955	
0530-0600	English	17790 17745 15365 15250 11940	
0600-0645	Multilingual	11775 9665 9570 9510 7105	
0645-0745	English	17805 17720 15405 15250	
0715-0815	Romanian	17790 17745 17570 15380 15370 15335 Su	
0815-0915	Romanian	17790 17745 17570 15380 15335 Su	
0915-1015	Romanian	11810 11775 9665 9590 9570 Su	
1130-1200	French	17790 17775 17745 15390 15380 15250	
1200-1230	German	15390 15365 11940 9690	
1230-1300	Arabic	17790 17745 17720 15405 15380 15365	
1300-1330	Romanian	17790 15365	
1300-1400	English	17745 15390 11940	
1330-1400	Russian	11775 9570	
1400-1430	Arabic	17790 17745 15405 15380 15365 11740	
1400-1430	Turkish	9510 7105	
1430-1500	French	17745 15380 15365	
1430-1530	English	15335 11810 11740	
1500-1530	Persian	17745 15603.5 15250	
1500-1530	Ukrainian	6105 5955	
1530-1600	Italian	11740 9665	
1530-1630	Arabic	15405 15380 15365 11790 11740	
1600-1630	Turkish	9510 7105	
1630-1700	French	11940 9625	
1630-1700	German	9690 7195 5990	
1630-1700	Romanian	9665 7105	
1700-1730	Persian	11940 9530	
1700-1730	Russian	7225 7105 6105 5955	
1730-1800	English	11940 11740 9750	
1730-1800	Romanian	7195 6105 5990	
1800-1830	Portuguese	11740 9750	
1800-1900	German	9690 7195 6105	
1830-1900	Russian	7225 7105 6105 5955	
1900-1930	French	9665 7225	
1900-2000	English	9510 7195 7105 6105	
1930-2000	Spanish	11790 9665 7145	
2000-2030	Romanian	9690 7175	
2000-2100	French	9510 7195 7105 5990	
2030-2130	Spanish	11790 9665 7145	

2100-2200	English	9510 7195 7105 5990 5955
2130-2230	Portuguese	11790 9665 7145
2200-2300	Spanish	11940 9570 9510
2230-2300	Romanian	11830 9755 9530
2300-0000	Romanian	11940 11740 9570 9550

(BBCM)

**SAO TOME** Testing of *VOA* transmitters has begun. Frequencies are 13770, 13740, 13710, 13680, 4985, 4950, 4860 and 4785 kHz. Reportedly, 4950 will become *VOA*'s fixed frequency in the 60 mb. (BBCM)

**SAUDI ARABIA BSKSA** Riyadh noted with frequency changes:

0300-0600	Holy Quran	9620 (x9885) & 17745 (x17720)
1000-1200	Indonesian	21665 (x21705)
1200-1600		15230 (x15165)
1400-1600	Persian	11730 (x11825)

(Rumen Pankov-BUL)

*BSKSA* on odd frequencies: Arabic first progr at 0600-0900 clearly observed in Europe on surprisingly odd frequencies v11708.3 and v11818.6 kHz (be aware of *QBS Doha-QAT* from 0707 on 11820 kHz!). (13-Jan/BC-DX/Bueschel—Germany) also heard on 4789.4 @20305+1 pips, standard Arabic ID and into news; same at 2130. Presumably a subharmonic of nominal 9580, which is supposed to carry the 2nd Program but s/off 2100. Couldn't tell because the channel was blocked by Spain (also in Arabic). Not there when rechecked two days later. (11-Jan/Hill) and 3868U kHz, in AA @2200. (DSWCI/Johnson/Cumbre/(24-Dec/BC-DX/Bueschel—Germany)

**SENEGAL R-TV Senegal**, 7170, noted signing on at 0658 with interval signal, National Anthem, station ID in French, then into the Koran with Arabic talks. Into French at 0800. The 60 meter band frequency of 4890 was announced at sign on, but not heard. (17-Nov/Rausch/NU #1348)

**SLOVAKIA Radio Slovakia International:**

0100-0127	English	9440 7300 5930
0130-0157	Slovak	9440 7300 5930
0200-0227	French	9440 7300 5930
0800-0830	German	7300 6055
0830-0857	English	21705 17485 11990
0900-0927	Slovak	21705 17485 11990
1400-1427	Russian	13715 11990 9440
1430-1457	German	9505 7345 6055
1630-1700	Slovak	7210
1700-1727	French	7345 6055 5915
1730-1827	Slovak	7345 6055 5915
1830-1857	Russian	9485 7150 5915
1900-1927	German	7345 6055 5915
1930-1957	English	7345 6055 5915
2000-2027	Slovak	7345 6055 5915
2030-2057	French	7345 6055 5915

(BBCM)

Broadcasting officials said that the license of US-sponsored **Radio Free Europe** to broadcast in Slovakia could soon be withdrawn if it does not stop "negativism and attacks" on the country. The Slovak Radio and Television Council said Radio Free Europe's reports had contravened the terms of the license, and that if the station did not change its tune it would lose the license in a month, the state news agency TASR reported. (16-Jan/Reuters/Boston Globe/Hill)

**SUDAN Radio Omdurman:**

1700-1800 French 9025v or 9000v  
 1800-1900 English 9025v or 9000v  
 (BBCM)

**SURINAM** 4991 *R. Apintie* Play Dixer Gornati reports getting a verification from this station: listing their power as 50 watts! Normal power is 350 watts so their linear amplifier is apparently down again. Here is a chance to improve on your NASWA QRP award. (Johnson/Cumbre)

**SWAZILAND TWR Swaziland** sked until 23 March:

0300-0330	Ndebele	3200
0300-0330	Swahili	4760
0300-0345	Shona	3240
0315-0345	Tswana	3335
0330-0345	Swahili	4760 Sa
0400-0415	Lomwe	6100
0400-0430	German	3200 5055
0400-0500	Chewa	6045
0430-0500	English	3200
0430-0530	English	6070
0430-0805	English	5055
0505-0805	English	9500
0530-0805	English	6070
0605-0805	English	9650
0805-0835	English	6070 9500 9650 Mo-Fr
0805-0835	English	5055 Mo-Fr
1400-1415	Urdu	15195
1425-1430	Portuguese	7315 Mo-Fr
1430-1515	Portuguese	7315
1500-1515	Malagache	7125
1515-1530	Lomwe	7315
1515-1545	French	7125
1530-1545	Makua	7315
1600-1630	Tshwa	3200
1600-1700	Chewa	5965
1600-1830	English	9500
1630-1645	Tshwa	3200 Mo-Sa
1630-1700	German	3240
1645-1700	Soo	3200 Fr
1700-1730	Tswana	3200
1700-1830	Swahili	5965
1730-1745	Pedi	3200 Sa/Su
1730-1800	Zulu	3240
1745-1800	English	3200 Mo-Fr
1800-1830	Ndebele	3240
1800-2015	English	3200
1830-1845	Umbundu	6035

1830-1915	Shona	3240
1845-1900	Kimbundu	6035
1900-1930	Lingala	9520
1900-1945	Portuguese	6035
1930-2000	French	9520
1945-1950	Portuguese	6035 Mo-Fr
2000-2015	French	9520 Sa/Su
2015-2045	English	3200 Su

(15-Dec/Volk/Germany)

6155 **Swaziland Commercial Radio** 1658 (earliest time I have so far) with ID and canned rlg pgm. (06-Jan/Conradie—RSA/Cumbre)

**SYRIA** General Husayn Kamil [the former director of Iraq's Military Industrialization Organization who defected to Jordan in August 1995] recently signed an agreement with the US General Electric Company to set up a radio station, beamed to Iraq, at a cost of 25m dollars. Jordan has refused to set up this opposition radio station on the Jordan-Iraq border, but Damascus has agreed to set it up on the Syria-Iraq border. Sources close to the Iraqi opposition in Amman said that Washington has promised Husayn Kamil that it would try to finance this radio station from the Iraqi assets frozen in the United States. (14-Nov/'Al-Hayat al-Jadidah' newspaper, Gaza/BBCM)

**TANZANIA—ZANZIBAR Radio Tanzania-Zanzibar** was reactivated on 11734.1 in early December and according to BBCM, is now scheduled on this channel at 1200-2000. (RNMN)

**TURKEY TRT Ankara** began start SSB transmissions in Turkish and German language from Jan 1st. At 1830-1930 on 9592.5 kHz in German, tx Emirler 500 kW 310 degrees. Turkish on 15352.5 kHz, but no exact time has been mentioned, registered on 15350 kHz at 1000-1700 in AM mode, both 500 kW at 310 degrees. TX Emirler 5 @ 500 kW, tx Cakirlar 3 @ 250, 2 @ 500 kW. (Klink DG1EA—Germany/02-Jan/BC-DX/Bueschel—Germany)

**UAE—ABU DHABI** Latest official sked for *Abu Dhabi Radio*, effective to 2 March:

0000-0200	Arabic	9605 9695 9770
0200-0400	Arabic	17770
0200-0500	Arabic	21735 17855
0200-0600	Arabic	8605 9695
0500-0700	Arabic	21735
0500-1300	Arabic	15285
0600-0800	Arabic	13605
0700-1100	Arabic	15265
0800-1200	Arabic	17885
0900-1100	Arabic	15315
1100-1300	Arabic	9605
1100-1500	Arabic	17760
1200-1600	Arabic	15265
1300-1700	Arabic	11885 11970
1500-2200	Arabic	9605

1600-2000 Arabic 9695 9770  
 1700-2200 Arabic 11710 6180  
 2200-2400 English 9605 9695 9770

(Gavin Hellyer/ARDXC Newsplus/Padula)

**UNITED KINGDOM BBC** French language broadcasts, which go back to before the Second World War, ended at midnight on 31 December. The first broadcasts were made in September 1938 at the time of the French crisis, and General de Gaulle used the BBC for his rallying call to the Resistance in 1940. The service was terminated for financial reasons. (Simon Collins—UK/UK Independent Television/Internet/Ogrizek/ARDXC/07-Jan/BC-DX/Bueschel—Germany)

...but they seemed to have enough money remaining for this...

The **BBC World Service** on 9 January launched a news service in Macedonian. News bulletins, features, and English lessons will be broadcast on state-run Macedonian Radio and on local radio stations. (10-Jan/OMRI Digest/Salmaniw—Canada)

Good news on cuts for BBC World Service BY JULIE KIRKBRIDE, POLITICAL STAFF

A Tory backbench rebellion over cuts in the BBC World Service was averted yesterday when Malcolm Rifkind, the Foreign Secretary, announced that the proposed reduction in its operating budget can be compensated by savings in its program of capital expenditure. Ministers had been concerned about the strength of support among its own backbenchers for the service. Labour had tabled a motion for debate condemning the £2.5 million cut in the World Service's operating budget for 1997-98. The cut came on top of a £2 million reduction already agreed and, according to BBC management, threatened the continuance of the World Service's broadcasts in 42 languages around the world as well as its English programs.

Other cuts are proposed by the Government but these are in funds for World Service capital spending. The Government expects the BBC to replace these cuts by securing funds from the private sector—for instance, by building transmitters through private finance and then leasing them for World Service use.

Replying to the debate, Mr Rifkind said that the BBC would be allowed to make up for the shortfall in the operating budget from money which had been earmarked for the capital program. He explained that the £22 million target figure for capital expenditure to be met by private finance was likely to be greatly exceeded and that some of the money saved from the capital budget could be used by the World Service to fund its operating costs. 90 per cent of the world could now receive the World Service. Though nothing has yet been agreed, Mr Rifkind said that the likely projects for private funding were a relay

station in Oman and a small one at Bush House in London, both of which would require £32million.

Seeking to defend the Government's record on the BBC World Service, Mr Rifkind said that, since 1979, funding had grown by 50 per cent in real terms with £166 million invested in capital projects to broadcast the programs. As a result, 90 per cent of the world could now receive the World Service, compared with half before—boosting listeners from 75 million to 133 million. (17-Jan/Electronic Telegraph/Neill—Australia)

**USA** High Adventure Ministries station **KVOH** is planning to switch from 7415 to 5085 kHz in the 60 mb, provisionally from 0000-0800. (Hauser/WOR)

**WVHA**—World Voice of Historic Adventism

1200-1230	German	11580 Su
1230-1300	Russian	11580 Su
1400-1500	English	15745 Sa
1400-1500	Spanish	15745 Su
1515-1800	English	15745 Sa
1800-1830	English	9930 Su
1800-1830	Russian	9930 Sa
1800-1900	English	9930 Mo/We/Fr
1800-2200	English	15745 Tu/Th
1830-1900	German	9930 Sa/Su
1900-2000	Spanish	9930 Sa
1900-2100	English	9930 Mo/We/Fr
1900-2300	English	15745 Su
2000-2100	English	9930 Sa
2100-2200	English	5850 Mo/We/Fr/Sa

(BBCM)

**WWCR** sked:

0000-0900a	3315
0000-1200c	5065
0000-1400b	5935
0900-1100a	7435
1100-2100a	15685
1200-1500c	7435
1400-2400b	13845
1500-2300c	12160
2100-2400a	9475
2300-2400c	5065

Sked for **RTE Dublin** via **WWCR**:

1000-1030	5065 Mo-Fr
1100-1130	5065 Sa/Su
1930-2000	12160 Mo-Fr
2000-2030	12160 Sa
2100-2130	12160 Su

a=WWCR1, b=WWCR2 (Dr. Gene Scott), c=WWCR3 (incl RTE relays) (BBCM)

**Radio Marti**, all in Spanish:

0000-0100	9815 7365 6030 1180
0100-0300	7365 6030 1180
0300-0400	7365 6030 1180 Tu-Su
0400-0900	6030 1180 Tu-Su
0900-1200	6030 1180



1200-1400 9565 1180  
 1400-1500 13820 11930 1180  
 1500-1600 13820 11930 11815 11740 1180  
 1600-1700 11930 11815 11740 9825 1180  
 1700-1800 13820 11930 11815 11740 9825 1180  
 1800-2200 13820 11930 9825 1180  
 2200-2300 15330 13820 11930 9815 1180  
 2300-2400 15330 13820 9815 6030 1180  
 (BBCM)

**VATICAN** Frequency changes advised by *Vatican Radio* effective February 4: 0600 French, 0630 English 9660 (ex 7360) kHz. Changes for 3 March: 1230 Chinese 15585 (ex 9500) kHz, 1315 Japanese 11655 (ex 7255) kHz, 2130 Japanese 9600 (ex 6065) kHz, 2200 Chinese 9600 (ex 5935) kHz. Extended-band freq of 9940 kHz listed for Mass in English to SoAS Sats only at 1600, for Jan/Feb/Mar. (Padula/ARDXC/22-Jan/BC-DX/Bueschel—Germany)

**VENEZUELA** 4939.5 R. *Continental* (re-activated) 2305 long blocks of lcl mx. Deep voiced M with TC. No full canned ID's heard but the ones I did hear were: En Continental su sintonia La Voz de Barinas 0403\* with closing anncs and "Musica de San Andreas." (30-Dec/Rausch) Noted signing on at \*0920 on 12/31 with hymn national anthem and ID: Radio Continental premier lugar de sintonia. (31-Dec/Rausch/Cumbre)

**VIETNAM Radio Hanoi** 4959.6 kHz as early as 0930, //5924.6 & 10059 kHz. 2nd progr on 12035.1 kHz, often //10059 kHz. (Gerhard Werdin—INS/AD/15-Jan/BC-DX/Bueschel—Germany) More VTN regional stations: 4661 kHz Lao Cai 1202-1335 //5597.6 kHz. 4739.3 kHz UNID 1246-1335. 5597.6 kHz Lao Cai 1125-1335 and at sign on at 2305 //4661 kHz. 6391.2 Yen Bai? 1133-1210. 6427.5 kHz Bac Thai? 1040-1200. 6452.2 kHz UNID 1242-1310. 6555.2 Cao Bang 1200-1400 very strong as usual. 6700.6 kHz UNID Hanoi relay only. //5924.6 kHz. (Timofeyev—Russia/15-Jan/BC-DX/Bueschel—Germany)

**YEMEN** New address for *United Yemen Radio & TV Corporation*: P.O. Box 2371, Sana'a, Yemen. (10-Dec/ORF Vienna DX Telegramm/11-Dec/BC-DX/Bueschel—Germany)

**ZAMBIA** A letter from the chief engineer at *Christian Voice* confirms that co-incident with the station's 1st anniversary on December 1st, the broadcast schedule was expanded. The 100 kW transmitter is now on 6065 at 0400-1700 and on widely-reported 4965 kHz at 1700-2030. (TLC/HCJB/Feb-96/World Radio Report/ODXA/via David Clark)

**UNIDENTIFIED 9730 UNID.** This has me mystified! Found at tune-in 0530, still audible at 0625, with Asian style vocals, male/female, and anncs in Asian language by man, lady, Chinese or similar, perhaps Lao, Burmese? Unheard previously. (06-Jan). Doubt if Myanmar, as signal rather late for a Midday Asian Mode. Left it at 0630, and returned at 0700, when either the same, or different, station audible, with CC service, to past 0830. I may be missing something obvious here! I seem to recall some sort of Chinese clandestine was noted on this spot some months ago. (06-Jan/Padula—Australia)

**WORLD OF RADIO** Here is the latest schedule for Glenn Hausers' *World Of Radio* program via *WWCR*:


Friday	2215	9475
Saturday	1128	5065
Sunday	0130	3315
Sunday	0800	3315
Sunday	1900	12160 (may move to 1830)
Monday	1230	15685
Monday	2130	9475
Tuesday	1330	15685

*World of Radio* is no longer carried by *WHRI/KWHR*. (16-Jan/Thurman)

**RAMADAN** The Islamic lunar month of Ramadan began January 20th and runs until February 18 (January 21 to February 19 in Asia on the other side of the dateline). Since fasting occurs daily from sunrise to sunset, stations in Muslim countries often operate on extended hours into the night. In the case of Indonesia in particular, some stations will operate throughout the night. Typically, a number of municipal (non-RRI) local stations are activated only during Ramadan but these are very low power outlets on the Tropical Band and rare catches in North America. (Feb-96/World Radio Report/ODXA/via David Clark)

**MAYBE THAT'S WHY WE'VE NEVER HEARD IT**

The Sultan of Oman recently paid 500,000 pounds for the BBC Philharmonic Orchestra to be flown to Oman to perform for him. While there, they were asked to record the Oman national anthem. This was to replace the only known recording which had been made on a 78. Apparently this had been broken 40 years ago when the sultan's father accidentally sat on it. (Demaine—UK)

**MEA CULPA** Sorry about last month, folks. An 11th-hour business trip deep-sixed my LN time. Certainly not the way I'd hoped to start the new year. Thanks to you who understand; everyone else, feel free to write me if you feel the need to vent. 

# Pirate Radio Report

Chris Lobdell  
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Stoneham, MA 02180-0146  
CompuServe: 75720,253  
Internet: piradio@usa1.com

## Winterfest—A Pirate Fest?

As most you already know, Winterfest 96 will be held on March 15th and 16th in Kulpville, PA at the Holiday Inn. This is the 9th annual event, and even I'm going to attend this year. Lots of pirate DXers and even a few pirates (undercover of course) will be in attendance. The Fest even has its own pirate radio stations. KULP (Kulpville University Loves Pirates) will be there, relaying other stations, WSWL was there last year and might be there this year too! Then there is the legendary Voice Of Pancho Villa which appears Saturday at midnight on 7415 kHz. Rumor has it that an All Radio Azteca station may pop up too. These are all very low power (milliwatt) stations, of course. I hope to see you there. The registration form is on page 56 of the December Journal.

## The Ace—A Mini Review

Founded in April of 1982, The Association Of Clandestine Radio Enthusiasts was the first publication in North America to devote its whole publication to pirate and clandestine shortwave stations. The current editorial lineup includes NASWAN Nick Grace who does a great job editing the pirate logs, veteran John T. Arthur, who's been around since the start, is in charge of QSLs received. He also lists swap/for sale items and has a section to editorialize on different subjects. George Zeller edits an excellent column on clandestine stations as well. When space permits, columns by John Cruzan and Mike Folk appear.

The bulletin is offset printed, runs about 24 pages in length and is issued monthly. The current publishers are Scott Gentry and Yolanda Lewis of Illinois. Kirk Baxter of Kansas is the club's president. Current subscription rate is \$20.00 in the USA, \$21.00 in Canada/Mexico and \$27.00 by air to the rest of the world. For a sample issue, send

\$2.00 to The ACE, Box 11201, Shawnee Mission, KS 66207-0201.

The ACE is a must if you're a serious pirate DXer!

## Pirate Radio Directory

The new edition of George Zeller's and Andy Yoder's directory should be available soon. For this and other publications dealing with pirate and clandestine radio, contact Tiare Publications at Box 493, Lake Geneva, Wisconsin 53147 and ask for their latest flyer.

## Pirate Bandscan

The Canadian John Fisher from Ontario noted KOLD with a show of music featuring Guy Lombardo on New Year's eve at 2130 sign off on 6955 kHz USB. John also heard WPN-World Parody Network at 2215 on December 31st on 6955 LSB with Billy Joel mx and a mock drama about getting a citation from the FCC. Mary Jo "Mama DX" Ondrechen of MA heard KTLA on Jan 2nd with an oldies show at 2000 utc. She also heard Radio Azteca on December 30th at 1505 utc with show #16. WLIS "We Love Interval Signals" was noted by Mary Jo with two shows from 1530 to 1604 utc on 12-31. The Voice Of The Runaway Maharishi was heard on January 2nd at 2038 utc. The program featured Capt'n Ganja with pot related programming.

The frequency of choice continues to be 6955 kHz. Propagation has been quite poor, but with the increasing daylight in the late afternoon and early evening, things should improve by the beginning of March.

## Pirate Profiles Needed!

We are completely out of station profiles! If there are any station ops out there, please send in a few paragraphs about your station, and we'll be glad to print them.

Until next month, Happy Pirate Hunting! 

# English Schedules

Tom Sundstrom

PO Box 2275

Vincentown, NJ 08088-2275

Fax 609-859-3226

Internet: tom.sundstrom@pics.com

Prepared January 25.

Thanks to Chris Hambly (Australia), Dave Kenny (BBCM WBI), Adam Lock (WWCR), Joe Hanlon (PA), Jonathan Marks (R Netherlands), Andy Sennitt (WRTH).

**Canada:** Chris Hambly tells me RCI added 5925 to the 22-23 UT set of frequencies.

**Cuba:** Bowing to the low solar conditions, Radio Havana Cuba has moved the wNAM service down to 6000 and retimed the service to 0530-0730. The half-hour is required to change antennas. The European releases moved too. At 19, 11705 went to 9550. Early reports suggest this frequency fails miserably in Europe, and Hambly tells me it doesn't work in Australia (whereas 11705 did). At 20, 11960U moved to 9505U.

**Japan:** Chris Hambly tells me that R Japan will be conducting a test transmission in English via BBC Singapore from January 29 to February 4. Hours are 05-09 UT on 11920, directed to Australia/NZ/Pacific.

**Lithuania:** From January 1 the change of the relay site from Krasnodar to Julich, FRG, is marvelous. The signal is very much improved. The NAM service is now 7 days a week on 5910: Lithuanian

at 00, English at 0030 UT.

**Norway:** R Norway changed its NZ release at 19 UT to 5930.

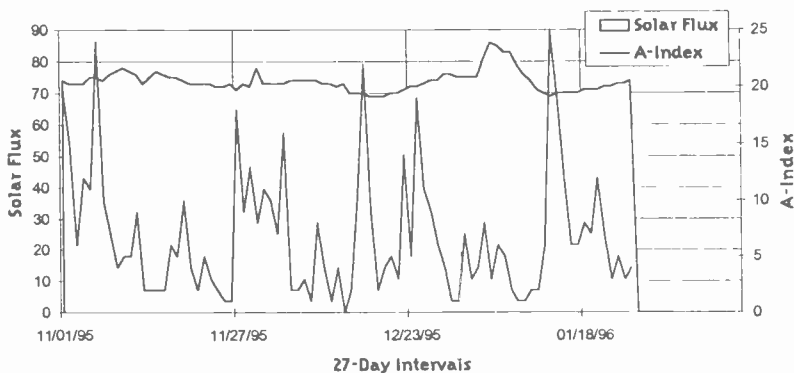
**South Korea:** From January 15 R Korea Intl at 02 added 15575 for NAM coverage. Other frequencies are 11810, 11725 and 7275.

**USA:** WWCR's 4th transmitter will probably be in regular operation by mid-February. Though the transmitter was installed by the end of January, the power company was slow to move on their end of the hook-up. Day-time frequency is expected to be 9475 (and WGTG will have to move). Additionally, Adam Lock tells me an additional airing of *World of Radio* will be added as the first edition of the week, Thursdays at 2130 UT. I forgot to ask which frequency, so have a look; my guess is that it will be on 9475.

## Computer Stuff

Know of an interesting radio-related World-Wide Web site? I'm writing the monthly *Baudwalking* column for ACP Syme's **Radio & Communications** published in Melbourne. (Down under, R&C is akin to MT and PopComm rolled into one.) We're reporting on what's new and interesting radio-wise on the Internet. Check out our "hot links" page.

SOLAR FLUX & A-INDEX: NOV '95-JAN '96



<http://www.pics.com/trs/>



# QSL Report

Sam Barto  
47 Prospect Place  
Bristol, CT 06010



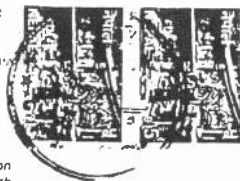
votre !!  
radio

- cds. w/ stickers in 10 ds. v/s Bill Westenhaver.
- BELARUS:** Radio Belarus 7145 p/d pre- (Wilkins-CO).  
pared cd. w/ schedule in 3 mo. (Barto-CT).
- BELGIUM:** Radio Vlaanderen 17640, 9925 and 13670 f/d  
"Kvoostende and Germinal Ekeren Football Team"  
cd. in 90 ds. (Humenyk-ONT). 9925 f/d cd. w/ sked.  
in 104 ds. for \$1.00. (Clement-GA).
- BOTSWANA:** VOA 7415 via Moepeng Hill f/d cd. in 13 ds.  
v/s Dan Ferguson. (Clement-GA). 15445 f/d "Map of  
Africa" cd. in 1 mo. for an E-mail rpt. (Owsley-CA)
- BRAZIL:** Radio Brasil Central 4985 f/d cd. in 25 ds.  
for a PT rpt. and \$1.00. v/s Sergio Rubens da  
Silva. (Owsley-CA). Radio Cancao Nova 9675 f/d  
"Clock" cd. in 187 ds. w/ PT form ltr. and news-  
paper. (MacHarg). Radio Bandeirantes 6090 p/d ltr.  
w/ stickers in 72 ds. for a PT rpt., tape and  
\$1.00. v/s Salomao Esper, Director. (Klinck-NY).
- BULGARIA:** Radio Sofia 9700 f/d cd. w/ personal ltr. signed by Iva Del-  
chera in 1 mo. Also rcvd. schedule. (Gattoni-NJ).
- CANADA:** CHNX 6130 cd. w/ personal note in 3 mo. after a f/up rpt. They  
were using only 28  
watts. (Berg-MA).  
Radio Canada Inter-  
national 9805 f/d  
cd. in 19 ds. Also  
rcvd. sticker and  
pennant for \$1.00.  
(Clement-GA).



自由中國之聲  
VOICE OF FREE CHINA

Radio Broadcasting Service  
**RADIO NEPAL**  
P. O. Box 154, Kathmandu, Nepal



Dear Ross Comeau,

We are very pleased to confirm your reception report of our transmission, which is in accordance with our schedule.

Date: June, 84  
Frequency (kHz): 5005  
Time (UTC): 12:45 - 12:56

We thank you for your report, we will be pleased to hear from you again. With best wishes from Nepal

Broadcast Hours: 00:15-17:15 HRS (UTC)

FREQUENCIES 5005, 7165, 3230, 1143, 810, 792, 681, 548, 576 (kHz)

RSKarki  
Signature

Ross Comeau  
16 Unwood street  
Andover, MA. 01810

USA

- CELEBES:** RRI Palu 3960  
\* f/d ltr. in 32 ds.  
after 8 f/up rpts.  
in IN for \$1.00. v/s  
Netty Ch. Soriton,  
Kepala Seksi Siaran.  
(Wilkins-CO).
- CHINA, PEOPLES REP. OF:**  
China Radio Internat-  
ional 9920 and 6950

f/d "Wulao Mountain" cd. w/ sticker and calendar in 6 wks.  
 \* (Barto-CT). **Radio Canada International** 6150 via Xian  
 f/d "Annee Mondiale de L'Amitie" cd. w/ pennant  
 and CIDX info. sheet in 16 ds. for ms. (Wil-  
**COLOMBIA: Radio Nacional de Columbia** (Wilkins-CO)  
 4955 f/d cd. in 163 ds. for 1 IRC. (Colton).  
**Caracol Bogota** 6150 p/d cd. in 86 ds. after a  
 f/up rpt. in SP for SASE (used). (Wilkins-CO).  
**COSTA RICA: Radio For Peace International** 7385 f/d  
 cd. w/ schedule in 33 ds. for \$1.00. (Clement-GA)  
 very nice Certificate QSL for 8th Anniversary "Fi-  
 esta On the Air" program in 6 wks. v/s James Latham,  
 Station Manager. (Berg-MA). **Adventist World Radio**  
 9725 f/d "Conference Center" cd. in 3½ mo. after a

RCL 500  
 RADIO CANADA INTERNATIONAL  
 1945 - 1995  
 via Hosoya

**VERIFICATION SIGNERS: Radio Fides** 4845 Eduardo Perez Ro-  
 jas, Director. **Radio San Miguel** 4925 Gerin Par-  
 do Molina, Director. **La Voz de Los Caras**  
 4795 Marcelo Nevarez Faggioni, Dir-  
 ector General. **AIR Madras** 4920  
 N.V. Sany, Assistant Sta-  
 tion Engineer. **AIR Jaipur**  
 3345 Sharma, Assistant Sta-  
 tion Engineer. **AIR Simla** 3223  
 P.K. Sood, Assistant Station  
 Engineer. Addr: AIR 171004 Hima-  
 chal Pradesh. **RRT Jakarta** 3277 Mrs.  
 Anastasia Yasmine, Head of Section of  
 Public Relations Overseas Service... via  
 PLAY DX....Sam.

**ANTENNA**  
 UNSER SENNER  
 'was Eigenes!



f/up rpt. (Berg-MA).  
**CROATIA: Croatian Radio** 5895 ltr. in 295 ds  
 after a f/up rpt. for \$2.00. (Owsley-CA).  
**CUBA: Radio Habana Cuba** 11875 f/d "Lenin Park"  
 cd. in 203 ds. (Humenyk-ONT).  
**CZECH REP: Radio Prague** 7345 f/d "Lynx" cd. in  
 23 ds. w/ schedule. (Dacus).  
**ECUADOR: HCJB** 5900 special "Radio Stamps" cd. w/  
 same stamps on QSL. v/s Neil Carleton. (Berg-MA).  
**Radio Quito** 4920 n/d folder cd. in 3 wks. w/ VOA  
 Quito sticker for a SP rpt. and \$1.00. (Ondrechen-  
 MA). **Radio Oriental** 4780 f/d "Certificado" w/  
 personal ltr. in 81 ds. v/s Luis Enrique Espinoza,  
 Gerente General. (MacHarg).  
**EGYPT: Radio Cairo** 9475 f/d "Aswan and Hieroglyphic" cd. in  
 223 ds. w/ schedule and stickers. (Pasquale-PA).  
**ENGLAND: Radio Canada International** 11835 via Skelton f/d cd.  
 \* in 10 ds. for ms. (Wilkins-CO). **Irish**  
**Overseas Broadcasting** 9605 via BBC  
 f/d "Map" cd. in 78 ds. Addr: IOB,  
 P.O. Box 4950, Dublin, Ireland.  
 (Washburn-ME). same in 2½ mo. for  
 a taped rpt. (Berg-MA).  
**ETHIOPIA: Radio Fana** 6210 very nice  
 ltr. from Mulugeta Gessese, General  
 Manager w/ postcard from Girma  
 Lema, Head of Planning and Research  
 Dept. Addr: P.O. Box 30702, Addis  
 Ababa. This all in 1 mo. for a tape  
 Tnx to D'Angelo on this one. (Berg).  
**EUROPEAN RUSSIA: Voice of Vietnam** 7250

Univariate Frequenzen Robel 918 - Rotoket 9 1 - Marlow 1038 - Schwarm 1013 - Hagelst 19 1018 - Garibingen 1051 - Usedom 1054

Univariate Frequenzen Robel 918 - Rotoket 913 - Marlow 1008 - Schwarm 1013 - Hagelst 1913 - Garibingen 1051 - Usedom 1054



\* via **Armavir** f/d cd. w/ site in 42 ds.  
 for \$1.00. (Buer-FL). **VOA Krasnodar**  
 f/d "Annapolis" cd. in 1 mo. (Field-MI).  
 15490 f/d "New Year's" cd. in 2 mo. (Bar-  
 to-CT). **UAT Moscow Radio** 12910 f/d form

**The State Enterprise of Broadcasting and Radio Communications No.2 (GPR-2)**

Академика Павлова Street 13-A, St. Petersburg, 197376, Russia  
Tel.: +7 /812/ 234 1002 Fax: +7 /812/ 234 2971

No. 876 St. Petersburg 26 April 1995

Dear Mr. Richard A. D'Angelo

Thank you very much for your reception report on our transmission

Date 5 February 1995

Time 13.03 - 14.01 UTC

Freq. 12065 kHz

The VOICE OF RUSSIA program

was broadcast that time in English

via 2 x 200kw "Sneg" transmitter located at Государственное  
SAINT-PETERSBURG (Popovka) предприятие радиосвязи

The antenna: curtain / 147° и радиосвязи № 2

Yours sincerely Mikhail Timofeyev (TIP-2)

GPR-2 Verification Code: 1376 Санкт-Петербург

ул. Академика Павлова, 13а

same in 1 mo. (Field-MI). Radio Canada International 11835 and 15215 f/d cds. in 10 ds. (Wilkins-CO). VOA Holzkirchen 7270 f/d "Greenville" cd. w/ schedule in 6 wks. (Barto-CT).

GREECE: VOA Kavala 11805 f/d "Annapolis" cd. w/ sked. in 6 wks. (Barto).

GUATEMALA: Radio Tezulutlan 2340 n/d form ltr. in 221 ds. for a SP rpt. v/s Sergio Godoy. (MacHarg).

**NOTES: Mike Horan** has had to curtail reception reports a bit due to his studies. Don't worry we all went through that phase... Sam. Mary Jo Ondrechen just had here first real snowfall up in Boston. Conditions have been very bad lately so I hope things clear up with the onset of winter. John Squilletta reports that the Mexican on 2390 is back on the air with a new antenna and seemingly a better signal. Maybe they increased their power output?

To: Richard A. D'Angelo

TUBE RADIO

We confirm your reception of our free radio broadcast.

DATE: 4-1-95 ANTENNA: wireless

TIME: 2150 DIRECTION: low

FREQUENCY: 6755 kHz POWER: 100W

qsl # 150 comments: TNX

Ray Cathode  
Ray Cathode



HOLLAND: Radio Nederlands 6020 f/d cd. in 18 ds. w/ newsltr. and schedule. (Gattoni-NJ).

HONDURAS: Radio Copan International 15675 f/d cd. from Miami in 1 mo. for ms. (Coltan). HRET 4960 prepared cd. w/ ltr. in 45 ds. after a f/up rpt. in SP for SASE. v/s Delmar Brown, Director Ajunto. (Wilkins-CO).

HUNGARY: Radio Budapest 6000 f/d "Photo" cd. in 80 ds. (Humenyk-ONT).

JAPAN: Radio Canada International 9680 via Yamata f/d cd. in 10 ds. for ms. v/s Bill Westenhaber. (Wilkins-CO).

JAVA: RRI Yogyakarta 7098.7 p/d note w/ "New Years" cd. in 1 mo. for an IN rpt. (Barto-CT).

KOREA, REP. OF: Radio Canada International 7260 via Kimiae f/d cd. in 15 ds. for \$1.00. (Wilkins-CO).

LESSER SUNDAS: RRI Mataram 3223 p/d ltr. w/ tourist brochure in 32 ds.

\* for an IN rpt. and \$1.00. v/s Hamid Djasman, Kepala. (Wilkins-CO).

LITHUANIA: Radio Vilnius 5940 f/d "Land of Amber" cd. w/ sked. in 25 ds. for \$1.00. (Pasquale PA).



**RADIO REBELDE**

La Habana, Cuba

¡Al Ritmo de la Vida!



СЪВЪНЪТЪ  
НА РАЗНОУСЛОВИЕТО  
ИОУНЕРСЪОН



ТОУСЪАФЕРИТИУМЪ РОУНДИЕ  
РЕСЕРЪАРИ РАУМЕРСИЪН  
ДИУ СЪАФЕРИТИУМЪ  
РАУНОРЕЪАНИУ

1995. г. Януари 14 - Юни 31  
вс. 21 до 24. 21.15 до 21.30  
Часът е 09:15 до 09:30  
Част А&В - (всичкообщо)

**MALI: China Radio International**  
15110 f/d "Wulan Mountain" cd.  
w/ calendar in 39 ds. for \$1.00  
(Owsley-CA). 11715 and 9710 f/d  
cd. w/ calendar in 105 ds. (Lev-  
ison-PA).

70 \_\_\_\_\_  
No 26 \_\_\_\_\_ QSL \_\_\_\_\_

RECEPTION REPORT CONFIRMATION

**MOLDOVA: Radio Moldova International 7190**

Boles Mubutidzova  
Radio Tajikistan  
English Branch  
Chapawa Str. 3  
Dushanbe-Tajikistan  
Gabriel Ivan Burrows  
Osella 2046  
1000 Buenos Aires  
ARGENTINA

Dear Mr. Burrows

**NOTES: Steve Martin** says thanks for the previous months thank you to **Bill Plum**. Bill is one of the fine gentlemen in the hobby. Steve is an organic farmer, garlic lover and an avid gardener. He also produces specialty lettuces, potatoes and other seasonal vegetables and fruits. **R.S. Gattoni** is 73 years old but a novice in NASWA having joined in 12/95. Your reports are fine. **Jerry Klinck** hopes everyone had a great holiday season. Jerry got engaged over Christmas. If someone can purchase his backup R-8 receiver he can buy the ring. My I offer my congratulations or future condolences. Hi!...Sam.

Thank you very much for Your Reception Report about one of our transmissions on short wave.  
Your Report had been checked and found to be correct according to our station-log book.  
We herewith verify your observations made on 30.03.1995 of Radio "Tajikistan" - on 7245 KHz from 16.44 to 17.00 hours UTC.

You have been listening to a transmitter located in Dushanbe, Republic of Tajikistan.

Thank you a lot for very warm letter and invitation. If any time you will be in Tajikistan you are most welcome.

Best regards from you soon.  
P.S. For your pleasure I enclose some Tajikistan stamps.

With best wishes,  
Boles Mubutidzova

postcard in 3 mo. after a f/up rpt. in 22 mo. total for a taped rpt. v/s Daniel Lacky, Editor of the EG Service. (Berg)

**MOROCCO: VOA** 15215 f/d cd. in 5 wks. (Barto). 15305 f/d "Green-ville" cd. in 6 wks. (Barto-CT).

**NORWAY: Radio Denmark** via **Kvitsoy** n/d "Logo" cd. w/ personal ltr. and schedule. (Humeny-ONT).

**OMAN: Radio Oman** 9735 f/d cd. in 42 ds. for \$1.00. v/s Abood Al Sawafi, Chief Engineer. (Peters-MN).

**PERU: Estacion Yurimaguas** 6238 f/d ltr. w/ prepared cd. in 32 ds. for a \* SP rpt. and \$1.00. v/s Adolfo Ojanama Taichiuva, Periodista. Station stamped and signed prepared cd. and sent a 2 page personal ltr. Also rcvd. photo of v/s behind the mike. (D'Angelo-PA). **Radio Santa Rosa** 6045 f/d prepared cd. in 1 1/2 mo. for a SP rpt. and \$1.00. v/s P. Juan Sokolich A. (Paszkwicz).

**PLEASE NOTE: Dario Monferini** of Via Davanzati 8, 20158 Milano, Italy says that the "BCL Sicilia Club, 100 Anni Di Radio" pennant which was featured in a previous QSL Column is available for 5 IRCs or \$5.00 to his address. It is a very beautiful pennant and well worth the price...Sam.

\* **Radio Horizonte** 5020 via **Chachapoyas** f/d ltr. in 55 ds. for a SP rpt. and \$1.00. v/s Rocio Garcia Rubio. (Paszkwicz). **Radio Imagen** 4970 p/d personal ltr. in 114 ds. for a SP rpt. Also rcvd. photo of a local hotel, magazine clippings and a tourist brochure. v/s Adith Chumbe Vasquez, Secretaria. (MacHarg). **Radio La Hora** 4858 f/d "Machu Picchu" postcard w/ prepared cd. in 44 ds. after a f/up rpt. in SP w/ SASE(used). v/s Edmundo Montesinos G., Gerente Gral. (Wilkins-CO). **Radio Luz y Sonido** 6473 f/d "Certificado de Sintonia" cd. w/ personal ltr. in 11 ds. for a SP rpt. and \$1.00. v/s Sor Maria Milagros Sdj., Representante de

**Radio NOR ANDINA**  
75 M. 4460 KHTZ 1420 KHTZ.  
1985 1995  
**10 años**  
La primera en informacion y diversion.  
CELENDIN - PERU



Radio Luz y Sonido. (D'Angelo-PA).  
**PHILIPPINES: VOA** 15290 f/d "Golden Gate Bridge" cd. in 1 mo. (Field-MI).  
**POLAND: Radio Warsaw** 9525 f/d "Logo" cd. w/ personal ltr, schedule and postcards in 108 ds. (Humenyk-ONT).  
**PORTUGAL: Radio Portugal International** 9570 f/d "Caravel" cd. in 73 ds. Also rcvd. tourist brochure and decal. (Gattoni-NJ). f/d cd. in 214 ds. for 1 IRC after 3 f/ up rpts. Sticker was rcvd. (Coltan). **VOA Gloria** 11945 f/d "Annapolis" cd. in 72

**NOTES: Rich D'Angelo** sends greetings to everyone in this New Year. The Winter SWT. Fest is only 2 months away. I may make it but not too sure yet...Sam. **Mary Jo Ondrechen** also sends greetings. She usually QSLs only

in special situations such as for an outstanding program, special QSL, requests from the station, etc. **Steve Martin** sent out over 25 follow up reports late last with only a few QSLs to show. Hope this year will be better. **Larry Colton** has recently relocated from MA to the Tampa area. He hopes the DX will be more favorable. **John Wilkins** was very pleased with his non-SWBC QSLs from YNRC, XSQ and UAT. The latter is somewhat rare.

ds. Note said that it could not verify the site. PWBR says Gloria. Help on this one. (Humenyk-ONT).

19/12/85

Radio Telefís Éireann  
 Ireland's national radio and television service



Radio Telefís Éireann, Dorrnbrook, Dublin 4, Ireland

We are glad to verify your reception report of  
 21/12/85 - 2000 - 2030 UTC

of our transmission on 12160 kHz AM.

Our reference  
 3.P.

Best wishes to your future listening  
 Yours faithfully,



*Rennie Pope*  
 Reception Investigations  
 PATYBICK'S STREET, CORN CITY, THE REPUBLIC OF IRELAND  
 Telephone: 01-454 1111  
 Fax: 01-454 1111  
 Telex: 01-454 1111  
 E-mail: rennie@pope.ie

Mr Paul Mc Donough

also via D'Angelo

Somerville

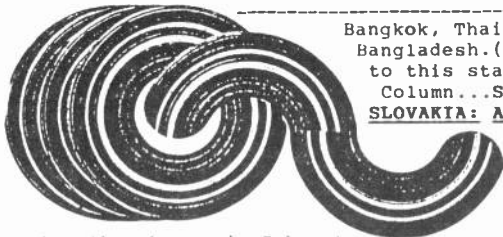
MA 02144

U.S.A.

**Voice of Vietnam** 7250 (see European Russia)  
 15340 f/d "Church of Danube Delta and Tirgu Jiu" in 100 ds. Also rcvd. personal ltr. w/ sticker. (Humenyk-ONT).  
**RUSSIA: Voice of Russia** p/d cd. in 59 ds. (MacHarg)

\* f/d cd. w/ no site in 2 mo. w/ sticker and pennant. (Field-MI). **Mukto Probaho Program** 15470 v/s Sk. (Sheik?) Abdullah. Addr: P.O. Box 1605,

**VERIFICATION SIGNERS: Radio Melodia** 5995 Elba Alvarez De Delgado, Directora. **Radio Oriente** 6188 Juan A. Lopez Manzanares Mascunana, Director. **Radio Cusco** 6195 Raul Siu Almonte, Director. **Radio Condorcaqui** 4318 Octavio Shacaima Huahua. **Radio Andina** 4996 Teodosio Munos Inga. **Radio Paucartambo** 4510 Irwin J. Berrios P., Gerente General. **Radio Almaz Bishkek** 4010 Rustam Gafarovich Koshmuratov, Director. **Radio Chita** 4860 Klimov Tarzan, Chief Engineer.....via PLAY DX...Sam.



Bangkok, Thailand 10501. QSL was mailed from Bangladesh. (Berg-MA)...Jerry, I'm listening to this station on 7400 as I'm typing the Column...Sam.

**SLOVAKIA: Adventist World Radio** 6055 f/d cd. from Germany. My rpt. was sent to their London addr. (Coltan). 9455 via **Rimavska Sobota** f/d special cd. in 10 wks. v/s I.M. Brandl. Also rcvd. schedule, pennant and a personal note. (Field-MI).

also the above via Schwartz  
**QSL Bayerischer Rundfunk**

**SOUTH AFRICA: SENTECH** 7290 carrying the **Radio**





**Tanzania** program w/ 2 f/d cds. of the "SW Matrix" and the other of the "Satellite Earth Station" in 1 mo. for a taped rpt. (Berg-MA). same in 28 ds. v/s B.M. Kapinga. (D'Angelo-PA).

**SPAIN: Radio Exterior de Espana** 9760 f/d "Seville Universal Exposition" cd. w/ sticker and schedule in 87 ds. (Humenyk-ONT).

**SULAWESI: RRI Ujung Pandang** 4753 f/d prepared cd. in 24 ds. for an IN rpt. Also rcvd. schedule. v/s L.A. Rachim Ganie. This was after several f/up rpts. (D'Angelo-PA).

**SUMATERA: RRI Palembang** 4855.9 f/d prepared cd, signed and stamped in 7 mo. for an IN rpt. and ms. v/s Drs. H. Mursjid Noor. (Martin-CA).

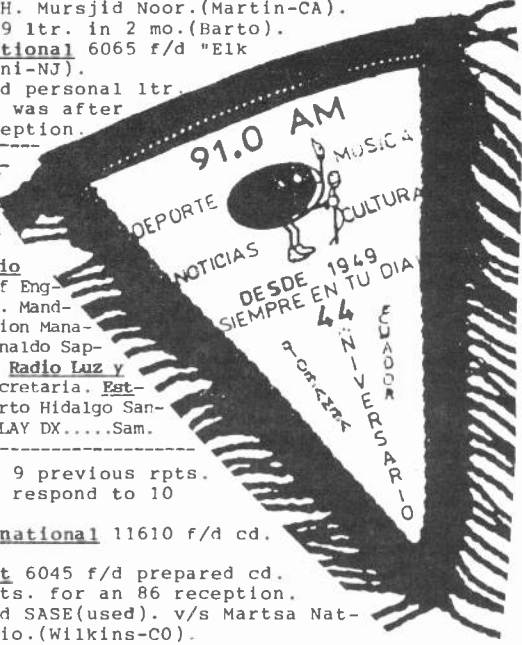
**SURINAME: Radio Apinto** 4990.9 ltr. in 2 mo. (Barto).

**SWEDEN: Radio Sweden International** 6065 f/d "Elk Head" cd. in 10 ds. (Gattoni-NJ).

**UGANDA: Radio Uganda** 4976 f/d personal ltr.

\* in 33 ds. for \$2.00. This was after a f/up rpt. for an 85 reception.

**VERIFICATION SIGNERS: Radio Netherlands** 11655 Bem Wituliet. **La Voix du Sahel** 5020 Mr. Souley Houbacar, Director. **FRON Lagos** 3326 Mr. O. Adeyemi. **ZLXA** 3935 Brian Stokoe, QSL Manager. **Radio Norway** 5960 Kristen Ruud, Chief Engineer. **Radio Manus** 3315 John P. Mandrakamu, Acting Provincial Station Manager. **Radio Huanta 2000** 4746 Ronaldo Sapaco Maravi, Director Tecnico. **Radio Luz y Sonido** 6473 Maria Milagros, Secretaria. **Estacion Tarapoto** 5015 Luis Humberto Hidalgo Sanchez, Gerente General... via PLAY DX..... Sam.



Had sent station at least 9 previous rpts. Now only if Tunisia would respond to 10 f/up rpts! (Evans-TN).

**UKRAINE: Radio Ukraine International** 11610 f/d cd. in 7 wks. (Barto-CT).

**URUGUAY: Radio Libertad Sport** 6045 f/d prepared cd.

\* in 67 ds. after 6 f/up rpts. for an 86 reception. This was for a SP rpt. and SASE(used). v/s Martsa Natario. (Wilkins-CO).

**USA: VOA Greenville** 6130 and 13740 f/d cd. w/ sticker, schedule and a plastic ruler in 100 ds. (Humenyk-ONT). **WVHA** 7465 f/d form ltr. in 54 ds. for ms. Also rcvd. schedule and photo of their antenna system. (Wilkins)

\* **Radio Telefis Eireann** 12160 via **WWCR** f/d cd. in 2 wks. v/s Bernie Pope. (McDonough-MA).

**USA (Pirates): KNBS** 6955 f/d green cd. in 2 wks. w/ pennant. (Field-MI). **WKND** 6956 f/d personal ltr. in 307 ds. for 1 IRC. v/s Radio Animal. (Pasquale-PA). **Voice of Free Speech** 6955 f/d ltr. in 22 ds. for \$1.00. Also rcvd. 2 copies of their newsltr. along w/ a small ruler.

(Pasquale-PA). **Radio Perfekt** 6955 f/d photo cd. in 4 mo. for 2 IRCs. The rpt. was sent to the Wuppertal addr. but the reply came from Poland. (Name???)

CHRISTIAN VOICE (ZAMBIA) LTD

Mr Chris Lobdell  
P O Box 146  
Stonham  
Massachusetts 02180  
USA

24 January 1995

Dear Mr Lobdell

I was very pleased to receive your letter of 29 December 1994 regarding Christian Voice reception on 26 December 1994. The information given is most helpful. At the time you were listening 19:15 - 20:30 UTC, we were broadcasting at 818kW on 6065kHz. Our programme output at the time was a "Christmas special" presented by Maureen Jstanda, and I happen to confirm that there is a direct match between the programme content and your description of what you were hearing.

The transmitter we use is a Conventional type 418-F 31kW and the antenna is a TC1 omnidirectional log-periodic array with 9dB gain. We are located on the site of a farm approximately 40 km west of the capital, Lusaka. At the present time our broadcasting hours are 11:00 to 22:30 UTC and we are using 6065kHz only, although 4968kHz and 7238kHz are also available to us.

Certificado de Sintonía

Emisora Estación Yurimaguas  
 A Sr. Richard A. D'Angelo  
 Muchas gracias por su informe de recepción. Tenemos el gusto de confirmar su control de nuestra emisión en h.238 kHz. de fecha 16 de Septiembre de 1994 a las 02.46 a 03.35 horas de UTC con        vatios de potencia.



*John H.*  
 DIRECTOR GENERAL  
 DIRECTOR PRODUCCIÓN  
 DIRECTOR TÉCNICO  
 Jefe de Oficina

firma y sello oficial

**Radio Bob's Comedy Network** 6955 f/d cd. w/ ltr. in 18 ds. for 3 ms. Stamps were returned. (Pasquale-PA). **WRV Radio Virus** 6955 f/d cd. printed on recycled paper from an environmentally friendly pirate in 46 ds. for ms. Sticker was rcvd. (D'Angelo-PA). **WPN World Parody Network** 6955 f/d computer generated ltr. w/ "Pirate Flag and Globe" in 35 ds. for 3 ms. via Huntsville drop. (Owsley-CA).

**VERIFICATION SIGNERS:** **La Voz de San Antonio** 6682 Walter Hugo Silva Bautista. **Radio Cora** 4915 Juan Ramirez Lazo. **Radio Ilucan** 5621 Jose Galvez Salazar, Gerente. **Radio Frecuencia San Ignacio** 5700 Franklin R. Oyos Condor, Gerente. **Radio Portugal International** 15515 Mrs. Christine Haupt, Secretary - French Service. **Radio Baltica** 12070 Oleg K. Rudnov, General Manager. **Radio Sofia** 12070 Ioann Sviridov, Chief Engineer. **Radio Monte Carlo** 5955 Miss Deborah Ibarra. **Slovak Radio** 7345 Mrs. Helga Dingova, Director of English Service. **Advertiser World Radio - Slovakia** 5945 Mrs. Iris Manuela, Secretary of the Spanish Section. **Radio Bulgaria** 7355 Miss Assia Stamenova, QSL Secretary. **Radio Record** 15135 Mario Luis Catto, Director. **Radio Verdes Flores** 4865 Marlene Valente de Andrade. **Radio**



**Buen Pastor**  
 4830.2 Segundo  
 Poma S., Director.  
 Addr: Asociacion Cristiana

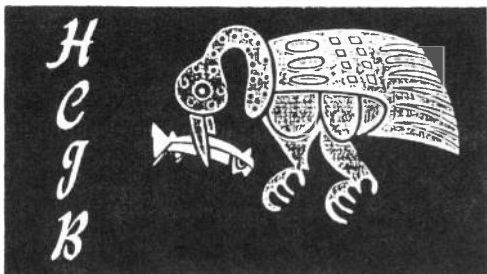
de Indigenas Saraguros, Saraguros, Loja. **Radio Oriental** 4780 Luis Enrique Espinosa, Gerente General...via PLAY DX.....Sam.



**VENEZUELA: YVMK Radio Nacional de Venezuela**  
 \* 5010 cd. w/ postcard, schedule, sticker and a personal ltr. in 1 mo. for a SP rpt. on an 85 reception. v/s Ivan Russa Crespo, Jefe del Canal Onda Corta.(Barto-CT).

**WEST IRIAN: RRI Jayapura** 6069.8 p/d prepared cd., signed and stamped, in 271 ds. after a f/up rpt. for an IN rpt. and ms. v/s Drs. D.A. Siahainenia who apologized for the delay.(Martin-CA).

**ZAMBIA: Radio Christian Voice** 4965 p/d form ltr. in 1 mo. for a taped rpt. v/s Lenganji Nanyangwe, Assistant to the Station Manager. (Berg-MA). ltr. rcvd. via E-mail in 1 day. v/s Andrew Flynn, Transmitter Engineer. (D'Angelo-PA).



Well I guess we have concluded another one of our monthly QSL Columns. Some pretty good catches in this one. Happy New Year to everyone...Sam.

*Sam*

# Scoreboard

Jerry Lineback  
220 West Third  
Garnett, KS 66032

Jerry A. Lineback, Editor  
220 West Third  
Garnett, Kansas 66032

Greetings and welcome to SCOREBOARD. I cleaned up the files this month. If you are missing from the SCOREBOARD, it is because you have not updated in the past year. The SCOREBOARD is your opportunity to share your DX totals with the membership. Your continued participation is needed to insure that the SCOREBOARD will continue to appear in the JOURNAL. The SPOTLIGHT is on North America. Remember C/H = Countries Heard and C/V = Countries Verified. Counts are by the NASWA Radio Country List.

Name, State	Total		NA		Best NA QSL
	C/H	C/V	C/H	C/V	
Marlin Field, MI	237	236	23	23	CFRX 6080
William Flynn, OR	236	221	25	25	Greenlands R.
Jerry Berg, MA	235	233	24	24	ZNX32 Barbados
Ed Shaw, KY	230	214	23	21	CKFX
John Sgrulletta, NY	227	227	22	22	CKFX
Steven Lare, MI	226	204	20	19	Greenland
Nobuaki Takahashi, Japan	226	201	18	15	CFVP Calgary
Terry Palmersheim, WA	224	213	19	19	Greenland
Al Miller, Jr., OH	220	212	21	21	Belize
Rick Krzemien, CA	215	209	19	18	Greenland
Sheryl Paszkiewicz, WI	215	208	19	19	El Salvador
Richard Davis, NM	215	206	22	20	Panama HOH7
Ron Howard, CA	215	200	21	21	Turks & Caicos
Paul Buer, FL	214	203	22	21	CKFX
Jerry Klinck, NY	212	188	20	19	R. Miscut
Mike Hardester, NC	211	198	19	19	Turks & Caicos
Fred Kohlbrenner, PA	211	187	19	18	CKFX
Jerry Lineback, KS	206	108	20	12	Turks
Charlie Washburn, ME	202	159	31	27	HOLA Panama
Stephen Price, PA	186	156	15	13	R. Cima Ciento
Nick Grace C., DC	186	123	15	13	R. Democracy
Allan Loudell, DE	179	146	18	17	R. Belize
John MacDonald, WA	178	76			
Andy Rugg, Que.	170	154	21	19	KNLS Alaska
Ross Comeau, MA	167	133	15	13	R. Miskut
Richard Hankison, KS	164	140	14	12	
Scott Helm, KS	163	113	11	10	CFVP
Gary Froemming, AZ	162	43	14	6	WVVL
Mark Humenyk, Ont.	160	125	13	13	KUSW
Carl Radtke, WA	153	153	18	18	Grenada
Elliot Straus, NJ	152	88	17	10	Turks 4.788
Chris Sweitzer, FL	147	93	16	10	CHNX
Wally Peters, MN	131	111	16	14	Turks & Caicos
Mark Anderson, MI	99	79	10	10	4VEH
Ed Poston, IA	82	64	9	8	CKZN Newfoundld

Thanks to all who contributed to the SCOREBOARD this quarter. The next deadline will be February 15, 1996, for the March issue. The SPOTLIGHT then will be on Oceania. Happy Holidays to all and 73. Jerry

# Contributors' Page

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

## LOGGINGS CONTRIBUTORS-NEXT DEADLINE IS THE 10TH OF THE MONTH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA	NRD-535D 100' LW
Jerry BERG, Lexington, MA	R8 R390A HQ180A 150' LW
Juliana BICKUS, Herndon, VA	R8 Eavesdropper
Don BREWER, Overland Park, KS	ICF-SW77 2010 SW-100 SW-7600G
Erik BUENEMAN, Hazelwood, MO	ATS-803A homebrew antenna
Jim CLAR, Rochester, NY	R8 FRG-8800 Eavesdropper dipole
Rich A. D'ANGELO, Wyomissing, PA	R8 HF150 AD Sloper 100' LW
Ralph FAMULARO, Osaka, JAPAN	ICF-SW55 ATS-803A R5000 LW
Marlin FIELD, Hillsdale, MI	NRD-535D
Bill FLYNN, Cave Junction, OR	R8 SW55 DX Ultra 20' LW
Bob FRASER, Cohasset, MA	Sony ICF-2003 ICF-SW100S
Gary FROEMMING, Glendale, AZ	TS440 3 element beam
Richard HANKISON, Praire Village, KS	R5000 Eavesdropper
Bob HILL, Natick, MA	Sony 2010 w/ KIWA filters, Sony AN-1
Ron HOWARD, Carmel, CA	NRD-535D vertical Dymak
Mark HUMENYK, Weston, ONTARIO	Magnavox D-2935 Sony AN-60 Tune 3
Jack JONES, Jackson, MS	
Terry JONES, Plankinton, SD	AOR-3030 DX-390 70' LW
Marv KAMINSKY, Flanders, NJ	NRD-535D random wire
Fred KOHLBRENNER, Philadelphia, PA	R8 NRD-525 FL-3
Marie LAMB, Brewertown, NY	HF150 DX392 MFJ16010 60m LW Loop
Richard LEMKE, St. Albert, ALBERTA	NRD-535 LW's
Harold LEVISON, Philadelphia, PA	R8 R70 YB400
John LYON, St. Paul, MN	
John McDONALD, Paulsboro, WA	NRD-535D 50' LW
Bob MONTGOMERY, Levittown, PA	R390A NRD-525D FL-3 ARA60
Ed NEWBURY, Kimball, NE	WJ-1000 R8 60'Sloper 20' loop
Mary Jo ONDRECHEN, Canton, MA	R8 300' LW
Sheryl PASZKIEWICZ, Manitowoc, WI	R8 NRD-525 60' LW Eavesdropper
Denis PASQUALE, New Brighton, PA	DX440 10m LW
Wallace PETERS, Roseville, MN	
Stephen PITTS, Minnetonka, MN	NRD-535D FRG-7 Eavesdropper RW Loop
Ed RAUSCH, Cedar Grove, NJ	R5000 Sony 2010 MFJ959 Eavesdropper
Chuck RIPPEL, Cornland, VA	R8A Lowe Europa R390A LW's
Doug ROBERTSON, Oxnard, CA	FRG-8800 FRT-7700 DX-302 ATS-808
Betsy ROBINSON, Clinton, TN	Sony 2010 Indoor antenna
Lloyd ROUPE, Littleton, WV	NRD-535D AD Sloper
Mike RYAN, Bangkok, THAILAND	
Brian SAADE, Brea, CA	
Trevor STANLEY, Flagstaff, AZ	Drake SW-8 Eavesdropper
Wallace TREIBEL, Seattle, WA	
David WILLIAMS, Astoria, OR	Icom 765 Horizontal loop

Thanks again to everyone who took the time to send in their loggings this month. Hope to see many of you at next months Winterfest in beautiful downtown Kulpsville, PA.

73's, Fred



# Tropical Band Loggings

**Sheryl Paszkiewicz**  
P O Box 152  
Manitowoc, WI 54221-0152

MARIE'S logging last month on 5745 was supposed to read VOA via WHRI, not WHRI itself. I can't read my own writing--sorry.

1610 USA TIS stn NJ 12/24 0136 ment NJ Turnpike, 800-336-5875(Alex.)  
1610 USA WXL-34 NY TIS stn 12/24 0102 wx, IDs, f-g (Alexander-PA)  
1620.3 PIRATE unid 1/1 0725 continuous pop mx, few anmts (Alexander)  
1660 USA WJDM 12/22 2030 SP pgm, EG ID on hour, also Spectrum pgm  
12/24 0340 (Alexander-PA)  
2298 UNID 12/9 0253 Asian mx, lang tlk, loud & clear to 0256, help  
(Ondrechen-MA)  
2390.1 MEXICO R Huayacocotla 12/25 1200 ID, ads, Mex mx, poor (Froem.)  
2410.1 NEW GUINEA R Enga 12/25 0900 EG ID, Xmas mx (Proemming-AZ)  
2460t BRAZIL R Alvorada 12/22 0225 tlks, ballads, weak (Pitts-MN)  
2479.9h DOM REP R Revelacion 12/14 IDs, ads 2353, rel (D'Angelo-PA)  
12/15 \*0953 NA, anmts, ID, mx (Kohlbrener-PA) 12/14 2337  
ment Puerto Plata, ID 0008 (Montgomery-PA)  
2850 NORTH KOREA KCBS 12/26 2120 patriot chorus (Hill-MA)  
3000h UNID 1/2 1100, fading, Colombia? (Field-MI)  
3222.1 TOGO R Kara 1/4 2250 FR hilife, nx 2300, ID, NA (Roupe-WV)  
3223 INDIA AIR Shimla 12/14 1320 SC mx, ID, nx, weak (Pitts-MN)  
3230.2 PERU R El Sol de Los Andes 12/23 1010 Santa Claus is Coming  
to Town, ID (Rausch-NJ) 12/16 0953 Andean mx, Jingle Bells,  
ads (Kohlbrener-PA)  
3249.8 HONDURAS R Luz y Vida 12/30 0240 rel, ID, fair (Alexander-PA)  
3249.8 KALIMANTAN RRI Banjarmasin 12/26 2114 SC sounding mx, drama,  
poss in IN, weak (Hill-MA)  
3290 NAMIBIA NBC 12/14 0255 nonstop mx, 3270 covered by ute (Pitts)  
12/15 0411 EG interview, tlk abt AIDS, Coke ad (Montgomery-PA)  
3306 ZIMBABWE ZBC 12/5 0315 mx, YL anncr, poss ID 0326 (Hankison-KS)  
12/31 0318 lang tlk, EG ID, nonstop Afr choral mx (Clar-NY)  
12/3 0344 hilife mx, drums, poor (Flynn-OR)  
3315 USA WWCN 12/20 0708 Freedom Radio tlk abt rock mx (Bueneman-MO)  
3316 SIERRA LEONE SLBS 12/21 2310 lang tlks, mx bridge (Pitts-MN)  
3324.6 GUATEMALA R Maya 12/19 1145 prayer, Xmas mx, good (Hankison-KS)  
3325 BRAZIL R Liberal 12/16 0504\* Braz pops, IDs, off sudden(D'Ang.)  
3326 NIGERIA R Nigeria 2134 EG Afr mx, ID 2200 (Montgomery-PA)  
3344.9 MOLUCCAS RRI Ternate 12/19 1405 speech with //s (Pitts-MN)  
3356 BOTSWANA RB 1/9 0355 pop, lang tlk, RTTY QRM, poor (Hankison)  
12/15 0345 lang pops, EG promos, strong (Pitts-MN) 12/13 0409  
pop-rock mx, anmts, poor (Flynn-OR) 12/14 2201\* EZL, ID, NA  
//4820 (D'Angelo-PA) 12/30 0430 US pops (Rippel-VA) 12/13  
2201\* US pops, ID 2149, prayer, NA (Kohlbrener-PA)  
3360 GUATEMALA LV de Nahuala 1/2 1100 ID, marimbas, tlk (Robinson)  
3384.9 SUNDARS RRI Kupang 1/1 2118 C&W, TP, ment Kupang (Hill-MA)  
3390 SIKKIM AIR Gangtok \*1200-1600\* EG nx 1230 (Ryan-THAILAND)  
3390nf SOUTH AFRICA BBC \*1700 been here 9 mos now! (Ryan-THAILAND)  
12/17 2015 approx 8693 repeats of BBC chimes, PT (Hill-MA)  
3396 ZIMBABWE ZBC 1/10 0300 NA, ID, lang tlks //3306 (Hankison-KS)  
12/14 0350 drumbeat, ID, nx, ute QRM (Pitts-MN)  
3397.8 PERU R Int'l 12/16 2314 LA & OA mx, ID 2338 (Kohlbrener-PA)  
3481 CLAND Vo Natl Salvation 12/14 2215 KR opera //4450 (D'Angelo)  
3905t IRIAN JAYA RRI Merauke 12/27 2028 march, anmt, pop (Hill-MA)  
3925 JAPAN R Tampa 12/20 0725 JP tlk, weak (Bueneman-MO)  
3950 ITALY IRRS 12/7 2225 pops, IT tlks (Hill-MA)  
3955 ENGLAND BBC 1/1 0712 EG nx, Peter Pan, mx, fair (T. Jones-SD)  
3985 ITALY IRRS 12/30 2018 addr, EG cmtry, under SRI (Hill-MA)  
3995t ASIATIC RUSSIA Khabarovsk 12/20 0720 RS tlk pgm (Bueneman-MO)  
4000.2 SULAWESI RRI Kendari 12/15 2143 OM w/mx (D'Angelo-PA) tent  
12/25 1145 tlks, threshold lvl (Berg-MA)

4080.6 CLAND Vo People of Kurdistan 12/17 2022 instl, march, ment  
Kurdistan, quite strong (Hill-MA)  
4182.3t CLAND Vo Iraqi Kurdistan 11/24 0405 ME lang & mx (Ondrechen-MA)  
4330 CHINA Xinjiang PBS 12/2 \*1200 TP, IS, NA, ID, tlks (Ryan-THAI)  
4550 BOLIVIA R Tropic 12/25 0540 Silent Night (Field-MI) 12/13  
2300 lcl mx, ID 2300, fair (D'Angelo-PA)  
4557 CLAND Vo Natl Salvation 12/22 1200 KR tkl, nx (Froemming-AZ)  
4599.5 UNID 12/26 1015-1055 fade, tlks, too weak (Field-MI)  
4600 BOLIVIA R Villa Montes 12/25 1230 ID, tkl, mx, poor (Froemming)  
4606.4t IRIAN JAYA RRI Serui 12/25 1137 lcl mx, tkl (Berg-MA)  
4635t TAJIKISTAN TR 12/16 0138 lcl mx, tlks, poor (Flynn-OR)  
4649 BOLIVIA R Santa Ana 12/14 2256 SP vcls, ID, ad string (D'Ang.)  
4682.3 BOLIVIA R Paititi 12/15 1016 rustic vcls, ID, freq(D'Angelo-PA)  
\*4702.2 BOLIVIA R Eco San Borja 12/16 2302 IDs, TCs, RTTY (D'Angelo-PA)  
4750 TIBET Xizang PBS 12/21 1100 CH tlks & mx (Froemming-AZ)  
4753.3 SULAWESI RRI U-P 12/14 1400 ID, pops //3345 (Pitts-MN) 12/15  
2130 mx, SCI, ID, nx (D'Angelo-PA)  
4775 BRAZIL R Educ Rural 12/20 0925 anmts, soft pop (Newbury-NE)  
4760 ANDAMAN ISL AIR Pt Blair 12/31 1700\* EG cmtry on econ(Williams)  
4760 CHINA Yunnan PBS 12/21 1200 CH OM ID & tkl (Froemming-AZ)  
4760 LIBERIA ELWA 1/1 0832\* rel chorus, EG anmts, IS (Alexander-PA)  
4760 SWAZILAND TWR 12/6 0334\* SH? chorus, ID (Peters-MN)  
4770 ECUADOR Centinela del Sur 1/2 1130 ID, ment Ecuador (Robinson)  
12/15 1125 ads, IDs, nx 1136, poor (Peters-MN) 1/1 0205 tkl  
anmts, phone nos, ment Loja (Clar-NY)  
4770 NORTH KOREA R Pyongyang 1/1 \*1159 IS, anthem? nothing more  
readable (Hill-MA)  
4770 NIGERIA R Nigeria 11/11 2253 EG pop mx, fair (Humenyk-ON)  
12/23 2258\* EG sked, ID, NA (Williams-OR) 12/14 0510 EG Afr  
nx, OM (Newbury-NE)  
4775p INDIA AIR Imphal 12/19 1320 Hindi tkl, SC mx, poss ID (Pitts)  
4775nf SWAZILAND TWR 12/24 \*0355 IS EG ID, GM rel (Alexander-PA) 12/25  
0357 IS EG ID, GM pgm, good (Newbury-NE)  
4775 PERU R Tarma 12/25 1330 ID, poor audio (Froemming-AZ)  
4779.8 GUATEMALA R Coatan 12/9 0236\* tkl, IDs, chorus, f-g (Alexander)  
4780 ECUADOR R Oriental 1/10 1045 TCs, IDs "musica mas alegre"  
(Jones-MS) 12/25 1112 ID, Xmas mx, HC mx (Newbury-NE)  
4780 NORTH KOREA R Pyongyang 1/1 \*1200 IS as 4770 but out of synch  
KR pgm (Hill-MA)  
4783 MALI RTM 11/11 2255 Afr pops, fair (Humenyk-ON)  
4785 CHINA Zhejiang PBS 12/22 1000 CH tlks, some mx (Froemming-AZ)  
4789.2 IRIAN JAYA RRI Fak Fak 12/24, 26 2059 SCI, nx (Hill-MA)  
4790 PERU R Atlantida 12/20 0937 Andean mx, ID, rooster (Newbury-NE)  
4799.8 GUATEMALA R Buenas Nuevas 12/9 0230\* tkl, steel drums (Alex.)  
4800 LESOTHO RL 1/9 0310 long tlks, good (Hankison-KS)  
4805 BRAZIL Rdf Amazonas 12/20 0955 pops, anmts, nx (Newbury-NE)  
4810 SOUTH AFRICA R 2000 11/11 2303 NA, fair (Humenyk-ON)  
4815 BURKINA FASO RB 12/22 0700 FR ID, nx, poor (Froemming-AZ)  
4819.7 HONDURAS HRVC 12/25 0120 Xmas pgm, Bible reading (Froemming)  
11/11 2342 fair w/mx (Humenyk-ON)  
4820 BOTSWANA RB 1/1 0105 lang tkl, Afr pops //3356 (Alexander-PA)  
12/15 2135 hilife mx //3356 (Kohlbrenner-PA) 12/16 2112  
hilife, tkl, insp msg, NA (Berg-MA)  
4820 UKRAINE RU 12/14 2223 tkl abt NATO, ID 2233 (Montgomery-PA)  
4824.2 PERU LV de la Selva 12/24 1420 ID, mx, ads (Froemming-AZ)  
4830 VENEZUELA R Tachira 12/25 0100 ID, nx, LA mx (Froemming-AZ)  
4831.7 COSTA RICA R Reloj 12/12 0933 LA pops, IDs, nx poor (Peters-MN)  
4835 GUATEMALA R Tezulutlan 11/12 0016 cmtry, good (Humenyk-ON)  
4835p MALI RTM 12/12 2212 FR vibes, choir, tkl //4782.9 (Peters-MN)  
4840 INDIA AIR Bombay 12/15 1328 Hindi flutes, ID, nx (Pitts-MN)

4840 MANCHURIA Heilongjiang PBS 12/23 1100 CH tlk, mx (Froemming-AZ)  
 4844.9t MALAYSIA Radio 6 12/30 \*2100 chorus, SC lang (Hill-MA)  
 4845t MAURITANIA ORTM 12/6 0059\* AR tlk, Koran, drums (Peters-MN)  
 12/6 2303 AR tlks, singing (Newbury-NE)  
 4850 INDIA AIR Kohima 12/16 0022 Hindi sitar, IS, ID nx (D'Angelo)  
 4850 UNID Asian \*1130 IS, since 1/1 CH stn here over 1st stn. ID  
 sounds like Shen-lan min guangbo diaintai, Jinling move? (Berg)  
 4855 BOLIVIA R Centenario 12/25 1300 LA mx, ads, ID, tlk abt work  
 conditions, poor (Froemming-AZ)  
 4870 BENIN ORTB 12/12 2238 FR whispering, piano, NA 2302\* (Peters)  
 1/5 0605 FR tlk, nx, drums, good (Roupe-WV) 12/6 2247 FR  
 pleasant mx, Afr pops, ID (Newbury-NE)  
 4870 ECUADOR LV del Upano 12/25 0130 ID, ads, tlk //5020 (Froemming)  
 4886 PERU R Villa Rica 1/9 1120 TC, mx, ID, fair w/het (Jones-MS)  
 12/15 1038 Andean mx, TCs, ID, Jose Feliciano (Kohlbrener-PA)  
 4890 PNG? NBC? 12/27 2015 EG pops, TC, peaked 2030 (Berg-MA) 12/17  
 1930 audio hrd but didn't get stronger (Hill-MA) 12/25 1133  
 C&W, EG anmts, soft rock (Newbury-NE)  
 4890.5 PERU R Chota 12/24 0147 vcls, IDs (Williams-OR)  
 4895 COLOMBIA LV del Rio Arauca 12/7 1055 ads, nx, ID, NA (Peters-MN)  
 12/25 0200 ID, addr, RCN ID, mx, tlk (Froemming-AZ) 1/1 0229  
 slogans, IDs, TC, pops & ballads (Clar-NY) 12/8 0215\* SP tlk,  
 ID, ads, jingles, NA (Alexander-PA) 1/1 0500 ID, New Year  
 wishes, fair (Newbury-NE)  
 4895 INDIA AIR Kurseong 12/23 1310 flutes, tlks (Pitts-MN) 12/10  
 1220 SC mx, EG ID, no IS (Rippel-VA)  
 4900 CHINA poss Vo Strait? 12/22 1300 TP, CH ID, orch, opera (Pitts)  
 4904.5 CHAD RNT 12/14 0518 FR tlk, good (Newbury-NE)  
 4904.6 PERU R La Oroya 12/25 1320 ID, tlk abt farming, ads (Froemming)  
 4910 INDIA AIR Jaipur 12/12 1323 Hindi mx, ID, nx (Pitts-MN)  
 4914.5 PERU R Cora 12/22 1123 anmts, SP Jingle Bells (Newbury-NE)  
 4915 BRAZIL RN Macapa 12/23 1130 PT sambas, ID, tlk (Froemming-AZ)  
 4915 GHANA GBC 12/15 2235 lang tlk, fair (Newbury-NE)  
 4920 INDIA AIR Madras 12/1 1330 ID, Hindi nx, speeches (Pitts-MN)  
 4919 ECUADOR R Quito 12/14 0522 SP drama, sfx, rock (Newbury-NE)  
 12/23 1625 SC vcls, ment Madras, ragas (Williams-OR)  
 4924.1 BOLIVIA R San Miguel 12/25 1347 ID but vy weak (Froemming-AZ)  
 4923.8 12/24 at 0031 ment Bolivia, ID (Williams-OR)  
 4930 HONDURAS R Int'l 1/1 0030 ID, orch mx, ment ano nuevo (Robinson)  
 4935 BRAZIL R Capixaba 12/24 0515 sermon, ment Vitoria (Field-MI)  
 4935 KENYA KBC 12/23 2102 insp msg, TC, s/off anmts (Berg-MA)  
 4935 PERU R Tropical 12/23 1105 IDs, nx, no mx (Peters-MN)  
 4939.5rf VENEZUELA R Continental 12/30 2305 mx, TC, IDs, musica de San  
 Andreas 0403\* Also \*0915 NA, ID (Rausch-NJ) 1/1 0254 de unid  
 anmts, sfx, slogans, poss ID (Clar-NY)  
 4940 CHINA Vo Strait 12/23 1230 CH tlk, mx //5050 (Froemming-AZ)  
 4940t INDIA AIR Guwahati 1/1 1213 exotic vcls w/bells & woodwinds  
 anmt, no AIR nx (Hill-MA)  
 4945 BOLIVIA R Illimani 12/22 2330 anmts, flutes, pops (Newbury-NE)  
 4950 ECUADOR R Bahai 1/13 1109 Quechua mx, tlks, ID (Jones-MS) 12/12  
 1045 nx, indigenous mx, ID 1058 (Peters-MN)  
 4953 PERU R Madre de Dios 1/4 1045 anmts, calls (Berg-MA)  
 4965 ZAMBIA Christian Vo 12/15 2011 ID, getting stronger (Field-MI)  
 12/15 2035\* EG gospel singing, IDs, jingles (D'Angelo-PA) 12/23  
 0447 contemp Christian mx, jingle, ID (Rausch-NJ) 12/14 2032\*  
 rel mx, ID, prayer (Kohlbrener-PA) 12/10 2032\* rel pgm,  
 jingle, clear as a bell (Rippel-VA)  
 4965.9 PERU R San Miguel 12/24 0040 vcls, tlk abt Xmas (Williams-OR)  
 4970 INDIA AIR Shillong 12/23 1545 EG "Focus on the NE" ID (Howard)  
 4974.7 COLOMBIA Ondas del Ortegaza 12/14 2228 mx, ID, ads (Kohlbrener)

4976 UGANDA RU 12/30 0410 EG nx, pol cmtry, great sig (Rippel-VA)  
4980 VENEZUELA Ecos del Torbes 12/25 0030 salsas, ID (Froemming-AZ)  
12/9 0147 mx, lottery, ID, TC (Bickus-VA) 12/25 0435 Xmas  
wishes & mx (Newbury-NE)  
4985 BRAZIL R Brasil Central 12/21 0750 pop mx, tlks (Hill-MA)  
4990.7 SURINAM R Apintie 12/25 0300 SP ID, tlk, RTTY QRM (Froemming)  
12/9 0405\* DT anmts, US pops, NA (Alexander-PA)  
4991.3 BOLIVIA R Animas 12/28 0026 ads, freqs, ID, nx (Williams-OR)  
5003.5 RIO MUNI RN Bata 11/15 2200\* OM, flute, NA (Ondrechen-MA)  
12/9 2159\* tlk, folk mx, long NA (Alexander-PA)  
5005.1 NEPAL R Nepal 12/29 1715\* SC vcls, ID, nx, weak (Williams-OR)  
5006 PERU R Jaen 1/15 1133 mx, ID, TCS, fair (Jones-MS) 12/23 1245  
SP ID & nx pgm (Froemming-AZ) tent 12/16 2348 mx, tlks, sound  
like Peru, not Eq. Guinea (Field-MI)  
5009.5 MADAGASCAR RM 1/9 0257 IS, vcls, poor (Hankison-KS) 12/17  
1852 vcls, anmt, ukelele mx, FR? anmt, march (Hill-MA) daily  
1550 ment Malagasy, Antananarivo, pop, hilife (Williams-OR)  
5010 CHINA Guangxi PBS 12/24 1200 CH tlks & mx, poor (Froemming-AZ)  
5010 INDIA AIR Thiru 1/5 0145 lang tlk, SC mx, fair (Roupe-WV)  
12/2 0018 IS, anmts, vcls, p-f (Flynn-OR) 12/15 0036 EG nx  
instl 0041, best this season (Williams-OR)  
5010.3 ECUADOR Esc Radiofon 12/30 0302\* HC mx, ballads, ID (Alexander)  
5020 ECUADOR LV del Upano 12/24 1230 ID, EZL //4870 (Froemming-AZ)  
5020t SHRI LANKA 12/29 1717 SC mx, tlk, best so far (Williams-OR)  
5023 BHUTAN BBS 1/9 1320 EG ID, poor (Howard-CA)  
5025 BENIN Parakou 12/23 2221 FR tlk, hilife, anmts, NA (Williams)  
5025 CUBA R Rebelde 12/25 0215 sev IDs, Afr-Cuban mx (Froemming-AZ)  
12/25 2340 vcls, TC, interview (Bickus-VA)  
5030 BHUTAN BBS Thurs 1330 UN Scope pgm //6035 (Ryan-THAILAND)  
12/20 1315 EG TC, ID, "good evening" nx (Howard-CA) Hi!--sp  
5030 COSTA RICA AWR 12/29 0502 EG nx, ID, rel pgm (T. Jones-SD)  
11/9 0107 SP cmts, fair (Humenyk-ON)  
5040 ECUADOR LV del Upano 12/7 1125 fair "desde Macas" (Peters-MN)  
12/24 1129 exc w/rel pgm, Xmas eve past 0300 (Field-MI)  
5040.4 COLOMBIA LV de Yopal 1/1 0450 excited OMs New Year's countdown  
Feliz Ano Colombia (Rausch-NJ) 12/25 0230 ID, Xmas mx in EG,  
no SP (Froemming-AZ) 12/3 0020 anmts, pops, IDs (Alexander-PA)  
5043 ANGOLA EP Benguela 12/17 0215 mx, ID, nx, QRM (Kohlbrenner-PA)  
5047 TOGO Rdf Togolaise 12/18 2130 FR tlk, Afr mx, ID? (Kaminsky-NJ)  
12/13 0004\* Mahalia Jackson, FR drama, ID, NA (Pitts-MN)  
12/15 0533 FR tlk w/soft rock in back (Newbury-NE)  
5050.1 TANZANIA RT 1/5 0400 EG TC, nx, ute QRM 0430\* (Roupe-WV)  
5060 UZBEKISTAN R Tashkent 1/4 1330 EG nx, ID //5975, 9715 (Roupe)  
1/4 2025 GM ID, mx, one tone (Berg-MA) 1/1 1224 EG pgm, lang  
vcls abt New Year, 1330 into EG (Williams-OR)  
5075 COLOMBIA Caracol 11/11 0154 discussion (Humenyk-ON)  
5145 CHINA CRI 12/24 1330 lang tlk, ment Beijing often (Froemming)  
5235.4 PERU R Apurimac 12/14 1012 OA mx, tlks, ID 1028 (Kohlbrenner)  
5275 TAIWAN WYFR Relay 12/24 1400 CH ID, tlk, Xmas mx (Froemming-AZ)  
5295nf CHINA CNR 1 1/4 1220 CH tlks, mx //5320 5880, etc (Roupe-WV)  
5320 CHINA CNR 12/23 1300 CH tlks & mx (Froemming-AZ)  
5522.3 PERU R Sudamerica 12/13 0003\* OA mx, sermon (D'Angelo-PA) 12/16  
0013 speech, rel svc? (Kohlbrenner-PA)  
5621t PERU R Ilucan 12/16 0144 SP tlks, QRM (Flynn-OR)  
\*5766.7 PERU Estacion Soritor 12/13 2319 OA vcls, IDs (D'Angelo-PA)  
12/9 2345 tent, no ID yet, huaynos, no anmts 0000 (Rippel-VA)  
5770 NICARAGUA R Miskut 11/19 2326 tlk, jingles, poor (Ondrechen-MA)  
12/25 0336\* on late for Xmas, Ode to Joy, NA (Alexander-PA)  
1/1 0733\* on late for New Year, marimbas, tlk (Alexander-PA)  
12/9 2338\* anmts, IDs, pops (Rippel-VA)  
5810 USA KAIJ 11/29 0110 preaching, exc (Humenyk-ON) 12/16 2309\*  
LA mx, ID, O Little Town, NA (Kohlbrenner-PA)  
5875 ENGLAND BBC 12/17 0030 SP mailbag pgm, addr, ID (Field-MI)  
5880 VATICAN VR 1/4 1940 LT? IS ID, rel //6185, 7365 (Roupe-WV)  
5895 CROATIA CR 12/4 2300 EG IS ID, nx, poor (Hankison-KS)

Last month we had reporters from one more state than I counted. This time 17 states, 1 province & 1 country. For a weekly supplement to your NASWA Journal, tune into DXing with Cumbre Fridays 2330 on WHRI 5745 or 2330 Saturdays on 9495 hosted by our own MARIE LAMB.

The 50th Anniversary Edition of the WRTH is out; get yours soon.



# International Band Loggings

**Wallace C. Treibel**  
357 N E 149th Street  
Seattle, WA 98155

- 5900 EQUADOR HCJB Quito in RS 0340, relig tlks, ballads, TC, ID, into GM 0430 (Roupe WV 1/5)
- 5910nf GERMANY R Vilnius via Juulich in LH/EG \*2355, tones, repeated "This is the terminal audio circuit from LN Radio, Vilnius", ID, LH pgm, into EG 0030, f-g (Lamb NY 1/8, Pasquale PA 1/3)
- 5915 SLOVAKIA RSI in EG 1930, IS, ID's, nx, feature on Jewish Museum, //6055 (Clar NY 12/30)
- 5920 RUSSIA VOR via Petropavlovsk in EG 0630, ID, story, mx, sked, IS, bells (Robertson CA 12/8)
- 5930 RUSSIA Murmansk R in RS 1558, IS, bells, TC, ID, nx, tlk, instrnls (Robertson CA, Roupe WV)
- 5975 UZBEKISTAN R Tashkent in EG \*1200-1228\*, NA, ID, nx, cmntry, mx, p (Alexander PA 12/31)
- 6000 BRAZIL R Guaiba in PT 0805, jingle, ID, "A Musica da Guaiba"pgm, f/distorted (Lamb NY 12/30)
- 6000 GERMANY D Welle Wertachtal in EG 2322, "Asia-Pacific Report", ID, f (Famularo JP 12/14)
- 60701 BRAZIL R Inconferencia in PT 0801, pop rx, ID's, jingles, ads, ncmts, g (Alexander PA 1/1)
- 60153 COLOMBIA R Miri in SP 1125, anmts, ads, ID, lively dance mx, f/QRM (Alexander PA 12/31)
- 6035 SWAZILAND TWR in PT 2000, ID "R Transmundial", sermon, fqys, IS (Hill MA 12/26)
- 6055 SLOVAKIA RSI in EG/SL 1935-2028, IS, ID, nx, tlk, interview //5915 (Pasquale PA, Roupe WV)
- 6055 KUWAIT R Kuwait in AR 0500, IS, tlks, fqy blocked until Spain s/off at 0458 (Rippel VA 12/9)  
in AR 1239, Mideast vcls, brief ancmts, ID 1300, nx, abrupt off 1304, //15495 (Hill MA 12/30)
- 6065 ZAMBIA Christian V Lusaka in EG 0450, relig mx, ID, lost to Sweden \*0500 (Hankison KS 1/10)
- 6080 BRAZIL R Anhanguera in PT 0755, rock mx, ID, fqy, nx, sports, ads, f-g (Lyon MN 1/2)
- 6090 CHILE R Esperanza in SP 0820, relig mx, ID, QTH, fqys, drama, TC, f/QRM (Lamb NY 12/30)
- 6095nf PORTUGAL RDPI in PT 0030, tlk, upbeat mx, fados, //9570, 9635, 11840, g-p (Roupe WV 1/5)
- 6115 JAPAN R Tampa Tokyo in JP 0707, TP, ID, non-stop mx pgm for 1 hr, f-g (Robertson CA 12/9)
- 6120nf UNITED ARAB EMIRATES Abu Dhabi in AR 1938, ME mx, ID 2000, nx, exc (Hill MA 1/1)
- 6120 JAPAN R France Int relay in VT 1450, monolog, mx, ID 1500, TP, f (Hankison KS 1/7)
- 6140nf ALBANIA R Tirana in EG 0145, nx, cmntry, mx, QRM 6135 (Bickus VA 12/9, Jones SD 12/15)
- 61401 BURUNDI R dif Burundi in EG 1745, ID "Bujumbura", nx, cmntry, tlks (Ryan THAILAND 12/12)
- 6150 ALASKA KNLS in EG 0847, Linda Ronstadt mx, London Radio Service 0839 (Lemke ALT 12/31)
- 6175 MALAYSIA VoM Kajang in IN 1340, Qu'ran recitations, tlk, choral mx, ID (Famularo JP 12/10)
- 6180 SOUTH AFRICA BBC relay in EG \*0245, lang lesson, into SH 0300, Cuba QRM (Field MI 1/2)
- 6180 BRAZIL RN da Amazonia in PT 0800, tlk, jazz mx in PT lang, exc (MacDonald WA 12/9)
- 6190nf HUNGARY R Budapest in EG 0208, nx, interview, feature, ID (Jones SD, Lemke ALT 12/31)
- 6195nf NORWAY R Denmark relay in DN \*0430, ID, nx, interview, listed 7480 not hrd (Treibel WA 1/4)
- 62002 COSTA RICA RFPI in EG 2340, UN pgming, cmntry, into SP 0000, better //9400 (Alexander PA)
- 6205 MOLDOVA R Dniester Int in EG 2130-2159\*, nx, cmntry, lcl folk tx, mail, EG listed for M,W, & TH only, ID, sked, fqys (Alexander PA 12/25, Stanley AZ 12/14, Ondrechen MA 1/22)
- 6205nf? CUBA R Rebelde in SP 0340, tlk, SP pops, ID, irreg-not hrd daily, //5025 (Alexander PA 12/23)
- 6230 MONACO TWR in GM 1015\*, relig pgm, choral mx, IS, //7160, Sun. only? (Alexander PA 12/31)
- 6245nf? GREECE ERT Thessaloniki in GK 2128, GK mx, phone call, tlks, f-g, //9934 (Lamb NY 12/29)
- 6250 EQUATORIAL GUINEA R Nacional in SP 2140, long tlk, drums, ID, NA\*, g (Lyon MN 12/30)
- 64715v PERU R Luz a Sonido in SP 2314, Latin vcls, ezl instrnls, ID's, p (Kohlbrener PA 12/13)
- 65357 PERU R Huancabamba in SP 0134, OA mx, TC's, ID's, some UTE QRM (D'Angelo PA 12/15)
- 67472 PERU R San Ignacio in SP 2316, TC, ID's, prayer, sermon, ads (D'Angelo PA, Kohlbrener PA)
- 6900 TURKEY Turkish Meteorological R in TK 0520, ME mx, long tlk, ID? 0530 (Rausch NJ 12/31)
- 69506 v/nf INDIA AIR site? in lang 0120-0200\*, tlk, SC mx, not hrd daily, g (Alexander 1/1, Ondrechen MA)
- 70503 PERU LV de Santa Cruz in SP \*2328-0407\*, s/on w/OA flutes, ID, NA, nx, sports rps/wtape re-plays of futbol game goals & crowd (Alexander PA 12/2, Kohlbrener PA, D'Angelo PA 12/14)
- 7115 MONACO TWR in EG 0745, relig tlk, pop relig mx, QTH, ID, promo (Lemke ALT, Lyon MN)
- 7115nf SWEDEN R Sweden in EG 0330, "60 Degrees North", 1995 in review, ID, QTH, mx, cmntry on immigration, co-channel QRM (Lemke ALT 1/2, Hankison KS 1/10, McGuire MD 12/24)
- 7160nf? IRAN VOIRI in CH \*1300 (first time hrd in CH), solemn IS, into Urdu 1330, f (Hill MA 1/1)
- 7170 SENEGAL RTV Senegal in FR 2145-2235\*, IS, ID, Afr folk mx/pops, tribal singing, nx, frequent ment of Dakar, cmntry, abrupt s/off (Alexander PA 12/2, Lyon MN 12/31, Field MI 12/15)
- 7195 BULGARIA R Bulgaria in SP 0248, frequent ment of Bulgaria, ID, mx, f (Hankison KS 1/10)
- 7195 ROMANIA RRI Bucharest in EG 2125, Romania as a tourist destination, ID, f (Hankison 12/10)
- 7205 UKRAINE RUI Kiev in EG 0100, ID, economic rpts & cmntry, Ham QRM, f (Stanley AZ 12/22)
- 7210 MOROCCO VOA relay in CR 0531, "VOA news", EG sound bites, ID's, g (Lamb NY 12/19)
- 7220 SPAIN R Liberty relay in RS 0518, nx re Bosnia & Clinton, ID's, Edith's Piaf song, f-g (Lamb 12/19)
- 7230 RUSSIA R Alpha & Omega in RS 1500, Bach organ IS, ID, sermon, choir (Ryan THAI 12/10)
- 7245 ANGOLA R Nac de Angola in PT 0453, tlks, ID, fqys, nx, Afr pops, //4950, f (Lamb NY 12/18)
- 7280nf JAPAN RJ Tokyo in EG 1700, ID, nx, lang lesson, "Media Roundup" DX nx (Stanley AZ 12/24)
- 7285 POLAND Polish R Warsaw in EG 1800, Chopin piano IS, nx, ID, econ tlks (Ryan THAILAND)

7305 VATICAN STATE VR in EG 0258, interview w/church official, into IT 0316 (Stanley AZ 12/22)

7335 BULGARIA R Bulgaria in EG 2020, "Name Days"-winter festivals, //9700 (Fraser MA 12/10)

7395nfb MONACO TWR Monte Carlo in TK \*2030, IS, fqy repl 7385, new time for TK also (Hill MA 1/1)

7415 BOTSWANA VOA relay in EG 1955, "Prime Time Africa", African pop & rock (Fraser 12/10)

7420 RUSSIA TWR relay via Irkutsk in EG 1530, various relig pgms, ID "Vishavani" (Ryan THAI)

7465 ISRAEL Kol Israel in EG 2000, nx, interview Jordan King(Newbury NE, Fraser MA, McGuire MD)

7480 BULGARIA R Bulgaria in EG 0500, fqys, sked, nx, cmtry, mx (Brewer KS 12/29, Jones SD 12/30)

7530 MONGOLIA R Ulan Bator in EG \*1930-2000\*, IS, ID, sked, nx, lcl events review '95 (Rausch NJ)

9025 SUDAN SNBC in AR 1955, AR mx w/male singers, ID "Huna Ormdurman" 2000 (Fraser MA12/8)

9355 NO MARIANAS KHBI Saipan in EG 1508, ID of CSM radio, faith healing tlk (Hankison KS 12/2)

9400usb COSTA RICA RFPI in EG 0743, UN pgm, ID, QSL info, pledge break (Bueman MO, Brewer KS)

9460 TURKEY VOT in TK 1620, nice TK mx mostly non-stop, TC, ID, //11955, g (Roupe WV 1/4)

9475 GUAM KTWR in EG 1721, ID, relig Christmas songs, repeat ID, more mx, p (Stanley AZ 12/25)

9515 BURKINA FASO R Burkina(p) in FR 0808, Afr & FR pops, tlks in FR, ID?, f (Lamb NY 12/12)

9548nfb BANGLADESH R Bangladesh in EG 1241, mailbag pgm "From Us to You", ID 1247, sked, fqys, mx to 1300 (Montgomery PA 12/15, Kohlbrenner GPDx 12/15)

9555 SINGAPORE RT Eireann via BBC relay in EG 1900, ID, soccer pre-game (Ireland vs Netherlands) tlk, f-p (Famularo JAPAN 12/13)

9560 ASCENSION IS BBC relay in EG 2215, pgm on "English As a World Language"(Fraser MA 12/10)

9560 KAZAKHSTAN R Alma Ata in multi-langs 0629, IS, ID's, EG ancmts, folk mx (Alexander PA 1/1)

9560 ETHIOPIA Voice of Peace in EG/FR \*0429, IS, ID, sked, fqy, f-p (D'Angelo PA 12/17)

9570 NIGERIA R Nigeria Kaduna in EG 0608, nx, PSA's, choral singing, f-p (Famularo JP 12/16)

9575 MOROCCO R Medi Un in FR 1935, nx, ID, short tlk in AR, rock mx (Lyon MN, Bueman MO)

9580 GABON Africa #1 in FR 0506, Afro pop mx, ID, tlks, promo w/lon SFX, "good morning" in EG, f-g (Lamb NY 12/30) in FR 2257, extended political rpt, ID, reggae mx, g (Stanley AZ 12/24)

9580 AUSTRALIA RA in EG 0750-1110, feature, ID, fqys, sked, rag mx (Robertson CA, Pasquale PA)

9625 BOLIVIA R Fides La Paz(p) in SP 0035, Latin Am mx, vcis, ment La Paz, f (Flynn OR 12/8)

9630 SEYCHELLES BBC relay in EG 1930, "Heritage" on exploring ancient Roman ship (Fraser MA)

9630 TURKEY V of Turkey in EG 1350, pgm re Bosphorus & Istanbul, ID 1405, p (Hankison KS 12/10)

96447 COSTA RICA Faro del Caribe in SP 1241, tlk, ID's, QTH, pops, Xmas mx, f-g (Clar NY 1/1)

9645nfb PAKISTAN R Pakistan in Urdu? 0857, tlk, chime, ID 0900, nx?, SC songs (Famularo JP 12/14)

9650 SO KOREA R Korea in EG 1130, ID, "1996 The Year of the Rat", chamber mx (Robinson TN 1/1)

9650 INDIA AIR Bangalore in EG 1803, ID's, wrld nx, cmtry on India's satellite tech (Clar NY 12/30)

9655nfb TURKEY VOT in EG 2300, IS, ID, fqys, nx, press review, mailbag (Fraser MA 12/13, Flynn OR)

9655 SO AFRICA Channel Africa in PT 0439, song in EG, IS, feature, nx, ID, f-g (Lamb NY 12/27)

9670 PHILIPPINES R Veritas Asia in Kachin 1248, tlk, ID in EG, QTH, IS (Clar NY 12/30, Field MI)

9675 BRAZIL R Cancao Nova in PT 0652, relig tlk & mx, IS, fqys, ID, QTH, jingle, //4825, f-g w/QRM (Lamb NY 1/13) in PT 0750, tlk pgm, ID, into mx & relig pgm (Bueman MO 12/20)

9675 PAPUA NEW GUINEA NBC in EG 0910, wx fcst, ID, TC, lite mx, abrupt 0914\*(Famularo JP)

9680 INDONESIA RRI Jakarta in IN 1050-1235, mellow mx, ID of National Program 1059, island mx, IS, nx (Hankison KS 12/19, Kaminsky NJ 12/9)

9700 NEW ZEALAND RNZI in EG 0800-1200, mailbox, Cushen's DX tips, nx of fire on Philippine ferry (Robertson CA 12/14, Lemke ALT 12/28, Newbury NE 12/31)

9700 BULGARIA R Bulgaria in EG 2257, "Time Out for Music", 1995 hits in review (Lemke ALT 1/2)

9710 MALI China R Int relay in EG 0010, nx, lang lesson, nx, fqy (Jones SD 1/3, McGuire MD 12/20)

9720 NETHERLANDS ANTILLES R Netherlands relay in EG 0805, pgm on German-Dutch relations, ID 0824, tlk on being unmarried in the Netherlands (Robertson CA 12/13, Bueman MO 12/20)

9720 SRI LANKA SLBC in EG 1312-1515, regional nx, ID, pop mx, fqy, sked, TP, relig -type thought for the day (Kohlbrenner GPDx 12/15, Montgomery PA 12/15, Clar NY 1/1)

9740 SINGAPORE BBC relay in EG 1752, sports roundup, Newsdesk, g (Stanley AZ 12/25)

97798v YEMEN Rep of Yemen R in AR 1410, lengthy tlk mixed w/ME mx, also hrd on 97803 on 1/5, p (Roupe WV 1/4) in EG 1855, nx re USA storms, piano mx, NA, into AR 1900 (Hankison KS 1/9)

9810 SEYCHELLES FEBA in EG 1459, ID's, "Music for the ears from FEBA" (Montgomery PA 12/15)

9905 FRENCH GUIANA Swiss R Int relay in EG 0100, cmtry on Swiss franc, many Swiss enter 1996 pessimistically, Newsnet (Newbury NE 1/1, Levison PA 12/19, Lemke ALT 12/26)

9915nfb GREECE VOG in GK 1135, exotic ME stringed mx, ID, nx, f-p (Famularo JP 12/14)

9930 HAWAII KWHR Naalehu in EG 0800, site ID, South Bend QTH, "Universal Life" relig pgm, f-p (Lamb NY 1/14) in EG 1455, lots of religion, ID 1459, f-p (Hankison KS 12/10)

9985nfb USA VOFc Taiwan via WYFR in FR/GM 2045, in FR to 2059, site ID, GM nx 2100 (Treibel 1/16)

115701 PAKISTAN R Pakistan in EG \*1400, nx, sports, hi-life mx, ID (Kohlbrenner, Montgomery PA)

11615 FRANCE RFI in EG 1228, "Review of the Paris Papers"-editorials, g, //15530 (Fraser MA 12/11)

11655 MADAGASCAR R Netherlands relay in EG 1932, nx, wx rpt, current affairs (Levison PA 12/26)

11680 UNITED KINGDOM BBC Rampisham in EG 2130, "Calling Falkland Islands", f (Jones SD 12/26)

11705 CANADA R Japan relay in EG 1400, live New Year celebration, ID, nx, ID, fqys, //9535, exc signal (Newbury NE 12/31, Brewer KS 12/21) in FR 2241, cmtry by YL & OM (Humenyk ONT 11/30)

117052 BRAZIL R Visao Nova in PT 1923, energetic sermon, solicitation?, weak & fady (Hill MA 12/26)

11730 SO AFRICA TWR Meyerton in EG \*0600, J Vernon McGee's Bible pgm (Field MI 12/20)

11734nfb TANZANIA R Tanzania Zanzibar in SH 1615-2000\*, tlk in lang, ID's, drums & Afr folk mx, nx, NA 1959 (Alexander PA, D'Angelo PA, Flynn OR, Kohlbrenner GPDx, Famularo JP) 12/22 latest

11735 NEW ZEALAND RNZI in EG 2000, ID, nx, NZ wx rpt, pop mx, f/o 2028 (Stanley AZ 12/24)

11735 URUGUAY R Oriental in SP 0057, live coverage of futbol match, ID 0102 (D'Angelo PA 12/14)

11780 BRAZIL RN da Amazonia in PT \*0741, continuous musical IS, tlk, ads, probably now 24 hours, //6180 (Lamb NY 1/14, Bueneman MO 12/20) in PT 2100, L Am mx, ID's (Stanley AZ 12/24)

11812v BRAZIL R Brasil Central in PT 0600, tlk, BR pops, ads, //4985 (Paszkiwicz WI 12/24, Lamb 1/13)

11815 POLAND Polish R Warsaw in EG 1328, mailbag, future power increase to 2 megs (Montgomery PA)

11830 BRAZIL R Anhanguera Goiania in PT 2332, "Nacional" rpts by 2 OM alternating (Flynn OR 12/27)

11855 INDIA AIR Panaji in HD 0353, OM/YL tlks w/intermittent laughter, songs, f (Famularo JP 12/16)

11855 THAILAND R Thailand in TH \*1800, bells IS, s/on ancmnt in EG, QRM Brazil (Hill MA 12/17)

11880 AUSTRALIA RA in EG 1800, ID, TC, fqys, nx, letters to the editor, f (Stanley AZ 12/24)

11900 SO AFRICA Channel Africa in EG 0505, ID, pgm on family planning, nx (Rausch NJ, Pasquale PA)

11900 NEW ZEALAND RNZI in EG \*0459, IS, ID, nx, 60's mx, poetry (Lamb NY 12/27, Jones SD 1/2)

11905 THAILAND RT in EG 0029, IS, ID, nx, sports, TC's, festivities in Bangkok, f (Clair NY 12/31)

11925 MALTA VO Mediterranean in EG 1423, tlks re future of SW radio, Xmas mx (Montgomery 12/14)

119393 PARAGUAY R Encarnacion in SP 0219-0300\*, pgm of Lat vlcs, several ID's (D'Angelo 12/16)

11940 ROMANIA RRI in EG 1310, Romania's efforts to join Eur Union & NATO, f-p (Pasquale PA 1/1)

11965 RWANDA D Welle relay in EG 1602, nx, ID, German Press Review, f (Hankison KS 12/30)

11970 JORDAN R Jordan in AR 1346, vibraphone & AR pop mx, cmntry (Humenyk ONT, Newbury NE) in EG 1500-1730\*, TP, ID, fanfare, nx, jazz, US pops (Lamb NY, Roupe WV, Pasquale PA 1/1)

12005 ECUADOR HCJB Quito in GM 2300, pgm of Trans World R, QTH Sao Paulo (Field MI 12/21)

12020v VIETNAM V of Vietnam in EG 1231, ID's, fqy, nx, f-p, //9840 even weaker (Clair NY 12/30)

12045 RUSSIA R Rossii via St Petersburg? in RS 1045, tlks, pops, ID, nx, //11720 (Ryan THAI 12/7)

12060 RUSSIA RS Mayak Volgograd? in RS 1030, Mayak pgm, tlks, folk mx (Ryan THAILAND 12/11)

12080 BOTSWANA VOA relay in EG 0520, ID, intl nx, pgm re Elvis Presley's impact (Rausch NJ 1/7)

13580 CZECH REPUBLIC R Prague in EG 1415, lcl econ problems, mailbag, //17485 (Roupe WV 1/5)

13625 FRENCH GUIANA RFI relay in EG 1200, ID, speech by Jacques Chirac, exc (Robinson TN 1/1)

13650 NO KOREA R Pyongyang in EG 2300, ID, IS, NA, nx, propaganda cmntry, g (Stanley AZ 12/19)

13710 BOTSWANA VOA relay in EG 1705, "Talk America", phone-in pgm, g (Fraser MA 12/20)

13750 INDIA AIR relay UN Radio (Sats) in EG 1345, "News Magazine", //11620 (Ryan THAILAND )

13830 CROATIA Croatian R in CR/EG 1300, ID, nx re bridge in northern Bosnia (Robinson TN 12/31)

150499v COSTA RICA RFPi in EG 2345, UN pgm re children's rights & USA's UN debts (Roupe WV 1/4)

15110 MALI China R Int relay in EG 2000, ID, nx re China, sports rpt, folk mx, f (Stanley AZ 12/16)

151197 MALI China R Int relay in SP 2300, IS "East is Red", ID, nx in SP, f (MacDonald WA 12/9)

151673v FRENCH POLYNESIA RFO Tahiti in FR 1620, island mx, ads, vocals, f-g (Roupe WV 1/5)

15200 FRENCH GUIANA RFI relay in PT/IT 2200, opera mx excerpts, cultural tlk, ID (Stanley AZ 12/19)

15220nf AUSTRALIA RA in EG 0033, Correspondents Report- interviews w/Bosnians (Famularo JP 12/17)

15240 SO AFRICA Channel Africa in EG 1611, nx, mx, ID, features, interviews (Jones SD, Bickus VA)

15265 BRAZIL R Nac Brasilia in EG 1800, sambas, nx, ID, "Sunday Special" (Jones SD, Bickus VA)

152917v MOZAMBIQUE Emis Nac Maputo in PT 1310, disco mx, ads?, very low audio (Hill MA 1/1)

15330 UZBEKISTAN Uzbek R in UZ 0515-1200+, nx every 30 min, IS, ID, lcl mx, //15165 (Ryan THAI)

15445 BRAZIL R Nac Brasilia in EG 1200, special Xmas pgm, pop/rock mx, ID (Newbury NE 12/25)

15445 BOTSWANA VOA relay in EG 1800\*, "Music Time in Africa", //15410, g (Bickus VA 12/24)

15460 COSTA RICA AWR in SP 0130, relig pgm, //5030, 6150, 97249, 137498 (Alexander PA 12/26)

15620nf? SLOVAKIA AWR relay in EG 0925-0945, "WaveScan Program", f-g (Alexander PA 12/31)

17605 NETHERLAND ANTILLES R Neder relay in EG 1944, nx re Palestine self-rule (Humenyk ONT)

17795 AUSTRALIA RA in EG 2257, ID, TC, fqys, nx, "Asia Focus", vg, //17860 (Stanley AZ 12/22)

17830 ASCENSION ISLAND BBC relay in EG 1905, pgm re sports in Africa, g (Brewer KS 12/25)

17860 AUSTRALIA RA in EG 2332, "At Your Request" w/Dick Patterson, mx, f (Humenyk ONT)

21660 ASCENSION ISLAND BBC relay in EG 1415, tlk w/frog expert, ID, exc (Bickus VA 12/8)

#### CLANDESTINE STATIONS

61875 IRAQ? V of the People of Kurdistan(p) in AR 1920, tlk by OM, several mentions of America, one minute of YL singing, more tlks, no ID hrd, gone by 1945, f (Berg MA 1/7)

6850usb/v SOMALIA R Mogadishu in lang 1952-2057\*, hanrangu, lcl mx w/ME sound, Koran, anthem, hrd on various fqys 6870 on 12/3, 6880 on 12/27, 6850 1/1 (Hill MA 11/27, 1/1, Alexander PA 12/3)

7090 ANGOLA R Vorgan in PT 2035, nx, mx, s/off 2105 w/ID "Vorgan" (Field MI 12/13)

9755 ANGOLA R Vorgan in PT 0538, Afr mx, ID's, rooster crow SFX, bells, nx, f-g (Lamb NY 1/3)

9942 GUATEMALA LV del Cid in SP 1410, OM tlks barely audible under jammer (Newbury NE 12/17)

Thanks for all the fine reports this time. Again, a reminder to those who mail their loggings directly to me. They should be at my QTH no later than the 15th of the month. That is to allow sufficient time to prepare the column and send it across the continent in time for the publishing deadline. Also, please be sure to provide enough program details to insure a meaningful report. Most contributors do this so this not intended as a blanket criticism. For the few who do not give sufficient detail, I regretfully discard such logging - something I do not like to do but I believe the members will understand the importance of including only useful reports.

By satellite I watched the continuous TV coverage on WNBC New York during the recent record snowstorm in the East. It's a miracle that Bill Oliver & his aides were able to get the Jan bulletin out at all. Congratulations!

# the **CPRV** page

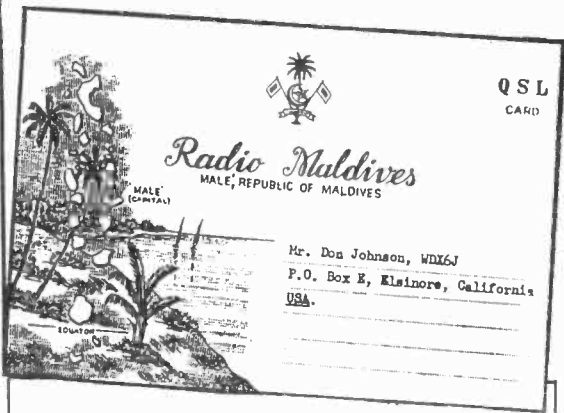
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**VOICE OF MALDIVES**  
 MALE',  
 REPUBLIC OF MALDIVES.

No. L:12/2:57/80 RM



Few shortwave targets have been more sought after than the Maldives, a coral archipelago of nearly 2,000 islands covering an area 475 miles long by 80 miles wide in the Indian Ocean. Radio broadcasting started there in 1964 and continued through the years under various names, i.e. Malé Radio, Malé Cineco Radio, Maldive Is. Broadcasting Service, Radio Maldives, and the Voice of Maldives. The station was on SW for most of those years, and while it offered broad coverage of South Asia via its clear nighttime channel of 4740 kHz. (later 4754), it was a rare catch at more distant locations notwithstanding its use, at one point, of five SW frequencies and a 30 kw. xmtr. Alas, the Maldives left shortwave in the early 80's, and although tests on 7350 kHz. were reported in May 1994, the station now seems back on MW only. [Some of the above from NASWA FRENEX, March 1973] +++ Full details on CPRV are available from yours truly at the address above for a business-size, stamped, self-addressed envelope.

Dear Mr./Mrs./Miss Don Johnson,

We gratefully acknowledge receipt of your QSL containing reception report of our broadcast on Tuesday dated 6th March, '79 and confirm that the material contained therein is substantially accurate/inaccurate. ~~The inaccuracies are based on timing/programme material/frequencies/identification.~~ We give below a schedule of our broadcasts.

Frequency in kHz	Times in G.M.T.	Power output
4740	1500 - 1730	30k watt.

REMARKS: Thank you and good listening, Please find enclosed some leaf-lets and our Programms Schedule. And hope to receive more reports in future. Regret the delay.

*[Signature]*  
 Director  
 (Usar Zahir)

73 --

A Committee of the Association of North American Radio Clubs

**FOR SALE:** Drake R-8 receiver in factory new condition with original carton and manual. Price of \$650.00 or best offer includes shipping. Jerry Klinck, 43 Lein Road, West Seneca, NY 14224. Phone (716) 675-7509 after 9:30 pm.

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**FOR SALE:** ISWL Monitor from October 1977 to September 1981 complete. These are British classics with SWL /ham news and views. \$8.00 postpaid. The ACE from April 1984 to October 1985 complete (others 9/83-1/84). Pirate and clandestine activities in ACE's formative years. \$6.00 postpaid. NRC DX News from October 1983 to September 1985 (Vols. 51 & 52) complete. AM stereo, post-sunset, and Radio Marti arrived. Deregulation and BC band "fights" with Cuba are all covered in this period. Excellent technical and construction articles. \$9.00 postpaid. Review of International Broadcasting from May 1983 to mid-1986 (Issues 76-106). Cold war was hot on SW, Juan Carlos Codina's loggings from Peru, Don Moore of Latin Destinations reported from there. \$9.00 postpaid. All are in excellent shape. No writing, cutouts, etc. Great for radio history enthusiasts. All prices include shipping. Nolan Stephany, 3369 Lake Road, Williamson, NY 14589. Phone (315) 589-8863.



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**9TH  
ANNUAL**

# WINTER SWL FESTIVAL

March 14-16, 1996

Holiday Inn

Sunneytown Pike

Kulpsville, Pennsylvania

We will officially open the Ninth Annual Winter SWL Festival Forums on Friday morning and continue all day Saturday. As usual, there will be door prizes, station freebies, (please bring items to be donated for the silent auction), and a banquet on Saturday night. New this year, bring items for sale or swap for an equipment swap meet on Friday afternoon. Also new, bring your receivers to let others try out!

The Forums will include:

- A scanner in your future?
- The Zenith archives
- ANARC Forum
- Setting up the shack
- Easy listening
- The year in pirate radio
- Care & Feeding of Boat Anchors
- Computers in the Radio Hobby
- The Zen of DXpeditioning

And More To Be Announced...

Registration Options-

FULL	— Includes forums, hospitality room, lunch and banquet	— \$35
PARTIAL	— Includes forums, hospitality room but NO meals	— \$17
SPOUSE	— Includes hospitality room and meals	— \$19

GRAND PRIZE To be announced

**SPECIAL** Register early and win a SW portable! Your registration received by midnight February 11, 1996 will allow you one FREE entry towards this early bird registration door prize.

Please bring items for the Silent Auction. Proceeds are donated to charity.

Checks should be made payable to WINTER SWL FEST. Registration for hotel rooms should be made directly to the Holiday Inn at (215) 368-3800 As soon as possible! Special rates - \$59 single, \$64 double. Our function code with the hotel is WINTER SWL FEST. Please refer to this to get the special room rates. Listen to the ANARC SWL NET on 7.240 LSB at 10 AM Sundays for up to the minute info.

The Holiday Inn is located at EXIT 31 of the PA Turnpike Northeast Extension-Lansdale Interchange. Improved access from the south with the Blue Route—ask for details. Limo service is available from Phila. Intl Airport directly to the Holiday Inn.

Please submit the following form with your registration amount or send for more information to:

Winter SWL Festival  
PO Box 591  
Colmar, PA 18915

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

Circle: FULL PARTIAL SPOUSE (Spouse Name: \_\_\_\_\_)

Banquet - Check: Roast Beef \_\_\_\_\_ Chicken \_\_\_\_\_ Registration Fee Enclosed: \$ \_\_\_\_\_

I wish to purchase \_\_\_\_\_ raffle tickets Tickets Fee Enclosed: \$ \_\_\_\_\_

(\$1 ea/ 6 for \$5/ Special 13 for \$10)

Total check/money order enclosed: \$ \_\_\_\_\_

Registration cancellations after 2/28/96 cannot be refunded, however we will refund raffle ticket money if you have to cancel.

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## Active Receiving Antennas for HF and VHF/UHF

### Dressler ara 40 HF Active Antenna

Dressler's newest HF antenna, designed as a low-cost match for portable receivers (Grundig Satellit 700 & YB400, Sony ICF-2010 & ICF-7600G, etc.) as well as low-end table-top models (Lowe HF-150, Yaesu FRG-100, etc.). Similar design to the ara 60 antenna but with reduced gain (approx. 3 dB) to avoid overloading of sensitive portable receivers. Constructed from anodized aluminum, with a fiberglass whip antenna element. Includes adjustable attenuator (0-20 dB). Install indoors or outdoors. Requires 12VDC power supply (optional)

**Gilfer Price: \$199.95 (+\$10 s&h) Order #D04240**

### Dressler ara 60 HF Active Antenna

Better than ever, the newly redesigned ara 60 offers more gain and better performance than the ara-40, making it the perfect partner for high-end receivers such as the Drake R8A, JRC NRD-535, Watkins-Johnson HF-1000, etc. Featuring superior strong-signal handling capability, +50dBm third-order intercept point. The 95 cm (approx. 3 ft.) fiberglass whip element feeds a low-noise FET transistor followed by a wideband impedance transformer in order to pick up weak signals without excessive loss. An ultralinear final amplifier then amplifies the signal further for a maximum overall gain of 10 dB ( $\pm 0.2$  dB). An adjustable attenuator (0-20 dB) allows reduction of gain in event of overloading. Requires 12VDC power supply (optional)

**Gilfer Price: \$269.95 (+\$10 s&h) Order #D04260**



### Dressler ara 2000 VHF/UHF Active Antenna

The successor to the popular ara 1500 model which was the number one wideband VHF/UHF active antenna, the new ara 2000 utilizes a GaAs-FET amplifier for maximum gain (11-13 dB up to 1.5 GHz) and minimum noise figure (1-2.5 dB), while delivering excellent third-order intercept point performance (+40 dBm below 500 MHz, +43 dBm above 500 MHz). Coverage from 50-2000 MHz, circular polarization, N-type coax connectors. Housed in a UV-resistant cylinder less than 18 inches tall and about 3.5 inches in diameter, the ara-2000 is easily hidden from landlords and neighbors! Includes mounting hardware and 15 meters of RG-58 coax cable. Requires 12VDC power supply (optional). We highly recommend this antenna for use with the Icom IC-R7000/R7100, AOR and Realistic Scanners, and any other wideband receivers.

**Gilfer Price: \$269.95 (+\$10 s&h) Order #D04220**

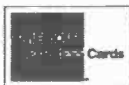


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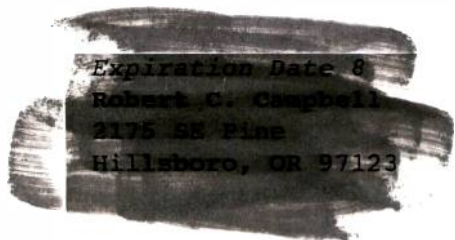
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