

NASA

the JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

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FEBRUARY 1999

**VOZ Y PENSAMIENTO
DE NUESTRO PUEBLO**
C.P. 212
Onda Media

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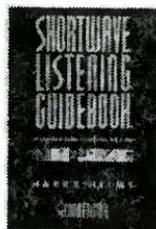
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SHORTWAVE LISTENING GUIDEBOOK

By Harry Helms. This noted author shares understandable information on: selecting and operating a shortwave receiver, antennas, time stations, pirates and much more. With tables and diagrams. Provides the reader with a solid understanding of shortwave radio. ©1993 Second Edition. 323 pages.

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WIND-UP

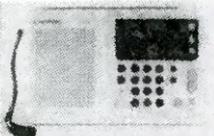


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March will be a busy month for shortwave listeners. First, the 12th annual **Winter SWL Festival** will take place March 11-13 at the Holiday Inn in beautiful Kulpville, PA. See all your favorite friends and not so favorite friends at North America's premier radio gathering. In addition to numerous members being in attendance, you will also find much of the editorial staff and the entire Executive Council present. We look forward to seeing you there! (Note particularly that the dates on the registration form printed last month were incorrect; the correct dates are March 11-13. We apologize for the inconvenience.)

Also, don't forget the North American DX Championships coming up next month. The contest listening period will begin on Friday, 19 March 1999, at 1900 EST (0000 UTC) and end Sunday, 21 March 1999, at 2359 EST (0459 UTC). Our thanks to **Harold Cones** and the crack administrative committee for making the arrangements each year. Check January's, and hopefully this month's, Journal for the full details.

From time-to-time, members have asked questions concerning the use of the club's country list. Country List Committee Chairman **Don Jensen** (5204 70th Street, Kenosha, WI 53142 or dnjkenosha@acronet.net) would be happy to answer any questions you have. Simply send Don a postal letter (with a self-addressed stamped return envelope) or an electronic letter. If you're having a problem with something, then there is a good chance so is another club member. While the list was developed to be "user friendly," sometimes a little help is necessary. Please contact Don with any questions you may have.

ANARC SWL Ham Net

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

Australian member **Bob Padula** advises that the "HIGH FREQUENCY SPECTRUM STUDY #5" is now available from the Electronic DX Press (404 Mont Albert Road, Surrey Hills, Victoria 3127, Australia, Tel/FAX: +61 3 9898 2906, E-mail: bpadula@compuserve.com). The Study is a nine-page A4 booklet, summarizing the results of the 1998-coordinated monitoring project by several Australian DXing hobbyists. The Study was made in June 1998, during the Australian mid-winter period, corresponding to a yearly smoothed sunspot number of 60, during the ascending phase of Sunspot Cycle #23. The purpose of the Study was to monitor and document actual reception of HF broadcasting stations operating in

Our Motto is - "Unity and Friendship"

the frequency range 2300-9999 kHz between 0000 and 0400 UTC, corresponding to local time here in eastern Australia of 10am to 2pm. The Study concentrated on commercial broadcasting stations—amateur and utility broadcasters were excluded.

Each winter, extraordinary midday reception is observed during eastern Australia on frequencies as low as 6 MHz from all continents, over transmission paths of up to 30,000 km! This reception is locally known as the "Antarctic Mode", due to many signal paths crossing the Antarctic region; the precise propagation mechanism is unknown, and has been vigorously debated for some 30 years! The 1998 Midwinter Study resulted in several hundred entries, and shows transmitter country, organization, site, reception time, and language.

The Study includes a discussion on possible propagation mechanisms and general background information, and will be of value to anyone interested in HF propagation over long distances. Hard-copy versions of each study are available for a small charge to cover costs of printing and mailing: to Aus-

tralian addresses: A\$5; elsewhere via economy airmail: US\$5, 5 IRCs, A\$8. Payment please by cash, (Australian or US), IRCs, checks in Australian currency drawn on Australian banks, GIRO, money orders or postal orders. Payments should be for the credit of Robert J. Padula.

Finally, **Dario Monferini** of PlayDX (via Davanzati 8, 20158 Milano, Italy) is offering a new souvenir pennant celebrating 1,000 issues of PlayDX and 23 years of free radio in Italy. It's a multicolored, cloth pennant measuring 20 cm. by 14 cm. You can obtain your own copy of this special pennant by sending him three (3) International Reply Coupons, or US\$5 in cash, to the above address. Also, toss in another IRC or another dollar and Dario will probably send along a sample copy of his weekly PlayDX newsletter. With Fine Tuning retired from the weekly paper DX scene, PlayDX is the only weekly paper publication available addressing short-wave broadcast DXing.

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

Musings

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

David Baird wa9pds@soltec.net, Catlin, Illinois

Christmas Eve 1998 was a bit different in our household. My wife and I spent most of the evening listening to Christmas programs from around the world.

Such stations as Vatican Radio, Voice of Greece, Radio Tirana and Radio Australia were four of several broadcasts we heard. We tuned in to many that were not broadcasting in English. But the classic Christmas carols sung in various languages made it clear what the broadcasts were about.

Although this may be a common practice for more seasoned DX/SWL hobbyists, it was a first for us and one I recommend as a refreshing change. Again, world band radio bridged the miles that separate various cultures geographically. What a wonderful hobby!!

Contribute!

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

Robert E. Montgomery RMonty3@worldnet.att.net, Levittown, PA

If you are one of the growing users of computers in shack, you might want to check out Mark Fine's web site. After several Journal issues with the English schedule listing, I found them of great value but difficult to read due to the print size. So I thought I would try the source and subscribed to the listing. After using for some time now, I noticed several offerings of computer control software for table top receivers. Mostly Drake units. I have a JRC 535Db and the programs were of no use to me. I had been reading about a few of the programs on the internet and decided to send an email and ask if it was possible to use this program on a 535. Turns out, Mark was in the process of producing such a program. I placed my order and waited till the testing was completed. After receiving the program, I managed to have it up and running within 30 min. I was really surprised as it does a little more than I had expected. There are a number of data bases that are part of the package. If you are a ute or a program listener, or just looking for English broadcast stations, they are all listed here. A matter of a couple of key clicks and you have access to the database and your favorite shortwave or medium wave stations. Editing of the files is possible to add your non-English stations. Logging reports can be produced to submit to the Journal and other favorite groups. The program is very professionally done and I still have not discovered all the features of this very computer friendly program.

I think it would be worth having a look at this web site and read about what is available. <http://www.erols.com/fineware/> I had a number of questions and have to say Mark was rather patient with me.

73, Bob

FRENDX: Twenty Five Years Ago....

Charlie Loudenboomer designated February as NASWA Month. Details of the special March 12, 1974 Radio Maldives NASWA courtesy program appeared. Work was underway for a book that would be an introductory reference about SWBC. In Ed Shaw's Shortwave Center, Perry Ferrell wrote about noise blanketers and Charles Foxx wrote about the Vatican Radio. Don Jensen wrote about Radio Euzkadi in Larry Magne's Clandestine Bulletin column. Friendx contained a special clandestine and revolutionary station band survey. Dan Ferguson mentioned that the club will be holding a convention July 19-21 in Columbus, Ohio. There was no Log Report A due to editor Elliott Straus being in the hospital. Also, Log Report B was typed too light for publication. From Larry Yamron in the QSL Report: "Inflation hits Dxers! The price of international reply coupons have risen to 26 cents."

N4166

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

Calendar Of Events

- Feb 19 Meeting. Philadelphia Area NASWA Chapter.** Kulpsville Holiday Inn, Kulpsville, PA at 7:30 PM. For more information contact Dan Cashin at 610-446-7831.
- Feb 19 Meeting. Boston Area NASWA Chapter.** The Lexington Club, Rts. 4 & 225, Lexington, MA at 7:30 PM. The location is 1/4 mile west of Rt. 128, Exit 31. For more information contact Paul Graveline at 978-470-1971 or Internet: 74007.3434@compuserve.com. The URL for the BADX guys is <<http://www.anarc.org/naswa/badx/>>.
- Mar 12 Meeting. The Tidewater SWL's meet** at 6:30 PM. For more information plus meeting location contact Joe Buch at joseph.buch@dol.net
- Mar 12 Meeting. The Cincinnati/Dayton Monitoring Exchange (MONIX) meet** at the Lebanon Citizens National Bank on U.S. Route 42 in Mason at 7:00 PM. For more information contact Mark Meece at 513-743-8089 or e-mail at <mmeece@siscom.net>. For additional information about MONIX, check out their web site at <<http://www.siscom.net/~mmeece/monix.html>>
- Mar'99 Contest. 1999 North American DX Championships.** Further information will be published in the *Journal* or you can send a self-addressed stamped envelope to 1999 NADXC, c/o Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606.
- Mar'99 Convention. The 12th Annual Winter SWL Festival** will be held at the Kulpsville Holiday Inn (Exit 31 on the Northeast Extension of the Pennsylvania Turnpike) on 12-14 March 1999. Organized by the infamous "gang of three" (Messrs. Brown, Cones, and Field) this all wave gathering attracts about 200 hobbyists each year.
- Apr '99 DX Camp.** The Ontario DX Association will be sponsoring a **Spring 1999 DX Camp** at the Lake St. George Conservation Field Centre, located only 30 minutes north of Toronto. There are numerous ways of obtaining additional information: (1) visit <http://www.durhamradio.ca/odxa/> for details, (2) e-mail Harold Sellers at dxontario@compuserve.com, (3) write to ODXA, P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8, and (4) telephone Harold Sellers (905)853-3518.
- Apr'99 Convention/DX Camp.** The Danish Shortwave Club International will hold its **Annual General Meeting and DX Camp** during the weekend of April 30-May 2, 1999 at a scout camp in the dunes of the west coast of Jutland, Denmark. Details to follow.
- Apr'99 Convention.** The **35th Annual International World Wide Continental DX Association (IWWCDXA)** will be held in Tahiti at the Charlie Loudenboomer Estate on April 1, 1998 from noon until midnight. Charlie will lecture continuously during this 12-hour period on a variety of boring subjects some of which may actually pertain to shortwave radio. Registration fee is a modest \$150.00 with an extra \$50.00 charge for the traditional hamburger helper banquet. More information is available from Charlie at <cl@sucker.com>.
- Sep'99 Contest. AWR Contest.** Largest QSL collections, long delays in receiving a QSL, and QSL cards from the old AWR unit in Africa. More details to follow.
- Sep'00 Contest. AWR Contest.** Number of different QSL stamps in the listener's collection. More details to follow.

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

Easy Listening

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

BBC World Service: After the Big Bang

Have you realigned your BBC World Service listening patterns yet? Last month's changes were the most comprehensive since the World Service launched its regional program streams. For example, John Figliozzi reports his *Shortwave Listening Guide* database contains 680 records covering the BBC World Service; 630 of the 680 records had to be amended following the changes.

Interestingly, the BBC live webcast via Broadcast.com now shows two separate program streams: the Americas stream, as before, and now an "all-news" stream. Through January 19th, though, the content was the same on both the all-news stream and the regular Americas stream.

Agenda: A Review

Sundays, 0230: As promised last month, I took a listen to this new program introduced with the BBC's massive January changes. *Agenda* reminds me of a 1960s Sunday afternoon TV show in the USA, outside of NFL football season. Sunday afternoon typically saw a group of serious-looking people discussing some issue that was beyond the interest level of a typical ten-year old. Nowadays, moral and ethical issues are more interesting, and *Agenda* tackles two issues in each program. The January 17th program considered national sovereignty versus human rights, specifically in the context of the Chilean ex-leader Pinochet; the second issue considered the recent journalistic trend of debasing heroes due to character flaws. Treatment of the two topics was uneven, specifically because the only qualifications of the program guest pontificating on Pinochet were that this guest was: a) an Academic,

and b) a Civil Libertarian. This person had no direct link to the current situation, so, at least to me, he had no credibility. He came across just as another talking head, and CNN already has too many of those.

The second part of the program interviewed the author of a recent biography on a well-known Jewish author/philosopher, whose name has since departed my frail memory. The program host focused on the fact that the public interest in the book was greatest in the sections dealing with the character flaws of the book's subject—not his accomplishments. In my opinion, this topic came across much more interesting, as the program guest had *personal knowledge* of the discussion topic.

Bottom line: *Agenda* has potential, but its guests must have more direct relevance to the program topic.

February Highlights Features

Sundays, beginning February 21st, 1405: *This Woman Thing* is a new five-part 55-minute listener-input discussion program hosted by Sheena MacDonald, who has hosted most of the 1400-hour talk shows that have filled this time slot the past several years. Topics, including War and Conflict, National Identity, Money and Economics, and Love and Relationships are examined solely from a female perspective. The goal of the program is to address the issue "Do women think differently than men?" Listener questions ahead of the program are solicited at thiswomanthing@bbc.co.uk and via the usual Bush House contact methods. A 40-minute edited repeat airs Mondays 0715. I had thought *Newstalk* was going to be an ongoing series, based on last month's BBC publicity, but this appears not to be the case.

Tuesdays, beginning February 9th, 0430: *Legal World* is a new seven-part 15-minute series examining principles, practice and pragmatism of legal systems around the world. Despite the increasing convergence of world cultures, legal systems and traditions vary greatly from country to country. The host is Scottish attorney Raj Jandoo. Also to Europe/the Americas Wednesdays 1930.

Wednesdays, beginning February 17th, 0430: *On Clouded Hills* is a new six-part 15-minute travelogue through England, in search of 'visionary poetry in its natural habitat'. The producer plans to head in a counterclockwise pattern from Dover to Cornwall through Shropshire and eventually back to London, exploring regions and the poetry they've spawned over the centuries. First Americas airing Sundays 1045 as of the 14th; also Mondays 1930.

Wednesdays, 0230: *Women Who Dared To Speak* is a six-part 30-minute series concluding this month profiling courageous women in overwhelmingly male-dominated societies who have dared to protest about injustices directed specifically at women. Women from Sierra Leone, Peru, Bosnia, and Bangladesh are profiled this month. First airing Saturdays 2130; also airs Sundays 0530.

Weekdays, 1205 and 2305: As mentioned last month, *Outlook* has been lengthened to 40 minutes daily. Harriet Green, the program's producer, and hosts Fred Dove and Heather Payton all are enthusiastic over the enhancements afforded by the additional time. Expect to see additional feature series—February features one on families around the world—or listener competitions, with a February competition inviting listeners to finish famous speeches differently than their original composers. Also airs Tuesdays-Saturdays 0715.

Arts

Tuesdays-Saturdays 0045, beginning February 16th: *Off The Shelf* features Louis de Bernières' *Captain Corelli's Mandolin*, read by Robert Powell, and abridged by Alison Joseph.

Business and Finance

Sundays, 1205, and Mondays, 0330: *Global Business* airs two weekly editions with interviews, features, and discussions about international business. Expect more detailed discussion than in the shorter-form business segments. Also airs Sundays 2130.

Entertainment

Mondays, beginning March 1st, 0030: *Junction Box* is a four-part 30-minute talk show with an interesting premise: What links and connects us across cultures? Ben Onwukwe will sit down with various Bush House occupants—a "microcosm for the rich pickings of humanity"—to discuss how we feel at the birth of a child, what makes us laugh, and so forth. Ben hopes to elicit responses like "That's funny, that's exactly how I feel", or, "Amazing, my mother does that, too". Repeated Tuesdays 0920.

Drama

Saturdays, 2230: *Play of The Week* entries include:

February 13th and 20th: *Henry IV, Part I* is one of Shakespeare's greatest history plays and explores the themes of honor, betrayal, and kingship.

February 27th: *The House Swap* is Peter Tinniswood's new play concerning a Boston couple who swap their home with a couple of English academics.

Play of The Week also airs Sundays 0630.

Mondays, 0430: If you're hooked on *Westway* but have trouble catching the individual 15-minute episodes, the pair are combined in a single 30-minute block in this 0430 time slot. Relationships take new directions this month at the Health Centre...

Pop and Youth

Thursdays, beginning February 18th, 2230: *The Music Studio* is a new six-part 15-minute series chronicling a group of students possessing raw musical aptitude as the learn the behind-the-scenes ropes of putting together a band, how rock music is composed and structured, and how to put a final mix together. First airing Thursdays 1630.

Sundays, 2305, and Saturdays, 1205: More on *Wright Round The World*: in addition to the emphasis on music and listener contact, Steve Wright offers to connect listeners interested in picking up new penpals.

Sundays 2230: *John Peel* occupies this new time slot with his weekly 30-minute personal choice of the latest sounds in rock and pop. Also to Africa 2230 Saturdays.

Religion

Saturdays, 0430, beginning February 13th: *Your Questions Of Faith* is a new six-part 15-minute series asking questions about various world faiths that you might not dare to ask on your own. Leading religious thinkers from various faiths will approach the thorniest issues confronting all traditions. Repeated the following Friday 1930.

Science and the Environment

Tuesdays, 0230, beginning February 23rd: *Warm World* is a new five-part 30-minute series globally investigating global warming. Each edition travels to a specific place—from Florida to Thailand, Siberia to Zimbabwe. *Warm World* investigates the phenomenon along two fronts: the people affected by global warming, and current research investigating its causes. Also to Europe and the Americas Mondays 1830, and to Africa Sundays 1930.

Program Exchange

Radio Canada International—*Roots & Wings*

We've mentioned a couple "World Music" programs over the past two months; **Radio Canada International** has its own entry in this genre, airing a program called *Roots & Wings* Mondays 0000 on 5960 and 9755 following the CBC news. *Roots & Wings* is a CBC Radio Two program hosted by Philly Markowitz featuring "...roots music from the four corners of our world." Philly, the host, "...delights in bringing you the rare, the beautiful, and the unexpected...and all in the same show." One recent playlist includes these artists: George Dalaras, Triakel, Gayle Tapper, Tufjaat, and Knut Reiersrud.

Web links: *Roots & Wings* is also available in RealAudio via the Radio Two and RCI live feeds, and Philly Markowitz can be E-mailed via a link at the *Roots & Wings* website: <http://www.radio.cbc.ca/programs/roots/>. (RCI Website)

Radio Netherlands—*Europe Unzipped*

Do you remember *Worldbrief*, later named *Seven Days* on the BBC World Service? It was a "week-in-review" program, presented with a more casual 'attitude' as now seems the case in *World Today*. **Radio Netherlands** offers *Europe Unzipped*, which fills the slot normally occupied by *Newsline* in the UTC Sunday releases. of Radio Netherlands. Radio Netherlands' PR characterizes *Europe Unzipped* as "... a zippy compilation of news and views from Europe. 'It's important to give listeners an authoritative news service', says *Newsline*'s James McDonald, 'but it can still be bright and lively!' James will often be one of the presenters on the rotating, two-person team, pulling together a round-up of the past week's news in Europe, including some unusual items that might not have made it into the headlines." I found the program entertaining, and those who miss *Worldbrief/Seven Days* will likely enjoy it. If you don't like your news shallow, then you probably should search elsewhere.

Also, RNW has changed how they do their webcasting—they have withdrawn the archived *Media Network* editions from WRN and are now hosting on-demand and live RealAudio streams on their own web pages. Much like **Radio France International**, all of RN's English broadcasts are now archived for listening for 24 hours. According to Jonathan Marks, additional archived programs will soon be added to the site. (RNW Website)

Shortwave All Night

There's been an interesting thread recently in the USENET *rec.radio.shortwave* discussion group on shortwave alternatives for the insomniac. Here were some of the suggestions offered in follow-up posts:

TRT, Turkey, on 9445 from 0500: Copious Turkish music, in Turkish language

Africa No.1 on 9580 from 0500: French African music, audible until Radio Australia takes over the frequency.

Radio Australia on 9580 from 0800 until the BBC signal interferes

Voice of Nigeria on 7255 with a mix of African news and music (recently swamped by QRM in my apartment setting...)

Radio New Zealand International on 9700 from 0700 to 0815 with its usual extensive variety. (USENET)

Not Exactly Shortwave, but...

WRN from NPR

Warning: Non-shortwave discussion...

Those of us living in the USA have been jealous of our northern neighbors' access to **CBC Overnight**, which is a packaged rebroadcasting of major international English programs on **CBC One**, produced by the London-based aggregator, **World Radio Network**. We Americans no longer need suffer: **National Public Radio (NPR)** now offers anywhere from 5 to 7 hours per night of international broadcasts to its affiliates, from midnight to 5 AM local time on weekday mornings, and midnight to 7 AM on weekends.

Only a few NPR stations appear to have picked up the package so far, but I'm lucky in that the Lehigh Valley's fledgling 3-year-old NPR station, **WDIY / 88.1**, is among them. The general format: NPR news leads off each hour for five minutes, then the aired international program, stripped of its initial news segment, is then broadcast.

Here's a synopsis of the schedule:

Local Time Programs

0000 **Radio Netherlands, Radio Australia, RFI**

0100 **RCI, R. Sweden (Tu-Sat), Polish Radio Warsaw**

0200 **Swiss Radio International, Radio Netherlands (Media Network Sats)**

0300 **R. Austria International (Mon-Sat), R. Budapest (Tu-Sat), YLE Finland**

0400 **Channel Africa, RTE Ireland, Deutsche Welle**

0500 (Sat-Sun only) **Channel Africa, R. Australia, RTE Ireland**

0600 (Sun only) **Carribbean News Agency, R. Australia**

WRN's North American representative for *WRN from NPR* is Susan Schardt, telephone 617-436-9024, Fax 617-288-5262, or E-mail susan@wrn.org. Also, the director of corporate affairs is Simon Spanswick (the same person responsible for the BBC's *Waveguide*, it would seem), telephone +44-171-896-9000, fax +44-171-896-9007, E-mail simons@wrn.org. Stations can also contact NPR at 202-414-2000, extension 2830 for more information. Website: <http://www.wrn.org/wrnfromnpr.html> I believe we SWLs must actively promote *WRN from NPR* and lobby our local NPR stations to pick up the package, as a way of introducing non-SWLs to the quality of international broadcasting. WRN is free to the local broadcaster, which must sign a licensing agreement. (WRN Website)

Next Month: The 'Fest

You still have time to get your Winter SWL Festival reservations in; John Figliozzi and I will once again present an *Easy Listening* forum, tentatively scheduled for Friday morning, as usual. If you have some discussion ideas, or questions you'd like us to answer, please drop me a note at the addresses shown above.

Next month's column will also depart from its usual format, as I'll be summarizing the *Listening Habits* survey we carried out at last year's 'Fest, and I'll be using the survey as a platform for discussion in our session.

Until March, either in the column or in person,

73 DE Richard



Some Thoughts on Reporting Loggings

by Jerry Berg

With the DX season here, perhaps it is a good time to think a bit about "Good Practice" in the reporting of loggings to DX publications. While I believe most long time DXers will be instinctively comfortable with these suggestions, many newer participants in the fast-moving electronic DX world may never have given these issues much thought. I have not seen them addressed anywhere in a long time.

In general, I suggest a conservative approach to the identification of stations and the description of program details and reception quality. If a log is not termed "tentative" or "presumed" or otherwise qualified, the reporter should be satisfied that he has positively IDed the station. In the best of circumstances this would be by formal ID, but occasionally we are all satisfied with something less. If an east coaster hears African programming on 4915 in the late afternoon, he is likely to call it "Ghana" without the addition of "tentative" or "presumed," even if he has not heard an ID, and few DXers would quarrel with that.

However, if we are not fully certain about whom we are listening to, even if we have a pretty good idea, I suggest wider use of "tentative" and "presumed" or other words that signify some uncertainty as to the station's identity. "Presumed" has come to mean that there is something specific about the reception that gives strong, almost conclusive, reason to believe that it is a particular station. "Tentative" implies less certainty—there is

some basis for believing that it is the named station, but fewer specifics to rely on. And, of course, if there are multiple possibilities and you can't even reach the "tentative" threshold, the station is "unidentified."

We should not feel constrained to use only shorthand phrases like "tentative" or "presumed." We should say what we mean: "the music sounds Central Asian, but this needs more work." "This is sunset in Nepal, so it's probably them, but I am not certain." "Sounds like what I have heard before, but no positive ID noted." All of these are good and accurate descriptions. The important point is that, when we aren't absolutely certain of a station's identity, we should say so.

Some other suggestions: —We ought not to be conclusive about the language we are hearing unless we can identify it with certainty from our own personal knowledge. Many of us can identify French, German, Spanish, Portuguese, Russian, Arabic, and a few others when we hear them. However, if we are listening to Burma (Myanmar), or we think we are, and we believe the language we are hearing is Burmese and not because we recognize the Burmese language as such, we shouldn't say "Burma heard in Burmese," with the implication that we know the language is Burmese. I think "presumed Burmese" or "Burmese scheduled at this time" or "Burmese listed" would be better.

—We should also be definitive about musical types only to the extent that we recognize them from our own knowledge. I wouldn't call it "typical Colombian music" unless I

know that it really is typical of Colombia. Don't call it a huayno, a cumbia, or a pasillo unless you know the difference.

These suggestions on language and music become more important if we are less than certain about the identity of the station in the first place. It is important to resist the temptation to bootstrap ourselves into an ID. If I think I have Turkmenistan, but I am not sure, I shouldn't refer to "Turkmen" music, unless I know that it is really Turkmen music. If it could be Turkmen music, but it could also be something else, I should not be more definitive than my knowledge permits, e.g. "music sounds like what I have heard from this one before, but I'm not certain," or "Music" seems to fit."

—If I hear words in a foreign language, and I don't know what they mean, but I want to include them in a log for the benefit of other DXers, I should spell them out phonetically. This tells the reader what sounds I heard without implying that I know the correct spelling or meaning of the words (or that they even are actual words). Instead of including a text in a log, e.g. "an silingan tembat jurapa tura kelopara gelombang," which implies

that these are actual words, spelled correctly, I should probably say "(phonetically) 'ahn SIL-ing-ahn TEM-bat ju-RAH-pah TOO-rah keh-lo-PAH-rah GEH-lom-bang.'" (Capitalize the emphasized syllables.) Likewise, if I hear a new station whose ID sounds like "Radio Cowabonga," but I am not completely sure, I ought to say, "ID sounds like 'Radio kow-ah-BONG-ahh.'"

Finally, I suggest an equally conservative approach to describing reception quality. We are all familiar with the station that is usually heard weakly, but that one day comes in much better than usual. Reception from such a station is probably still only poor to fair by any objective standard. Although they might be "booming in" in comparison with their usual strength, I suggest avoiding overstatements like "powerhouse" or "strong" in favor of more descriptive, albeit less impassioned phrases—"Better than average, but still only fair," or "Seldom heard this well."

In summary, I suggest erring on the side of Caution. It will preserve the accuracy of our logs, and minimize honest mistakes.

DXing Styles

by Jerry A. Lineback

Thanks to numerous contributions received from others, including the Boss, in response to my pleas for material for SWC, you won't have to listen to me all the time. More good material will be appreciated.

We will put off further discussion of Beverage antennas, since I have just, this day, gotten my new array functioning. Thus, some time to gather new information will be appropriate.

Jerry Berg presented some thoughts on proper reporting of loggings in this month's lead article in SWC. I recall similar articles being published many years ago. Let me say that I generally agree with what Jerry said and I believe it is appropriate to use caution in

reporting. Identifying and reporting unfamiliar stations has a high potential for error. However, it often takes much time and effort to extract a positive ID from many stations. Have you ever waited for a Brazilian to ID? Most of us don't have the patience and many DX stations are generally received at such low levels of audio quality that understanding words in a foreign language is almost impossible anyway.

To get the maximum bang for my DX buck, I practice an alternative methodology. I only DX the 60 and 90 meter bands during the morning sunrise period, but I do it every day possible. Thus, I hear the same stations everyday. You get familiar with the formats, languages, music, etc., so that you know the identifying characteristics of each station. Judicious use of "Passport," "Log Report,"

"Listeners Notebook," and other "Lists" provide support for identification of stations.

Some stations consistently broadcast off-frequency: that is an identifying characteristic. SCI just before Jakarta news is still useful in identifying RRI stations. Just a few weeks ago I was hearing a three station mixture on 3385. One was obviously Rabaul with characteristic P/NG music, and the others most likely RRI Kupang and Radio Malaysia from Miri. Hearing SCI just before the hour indicated that Kupang was on the air.

Many days I have heard Chennai switching to English News at 1230 on 4920 (sometimes //4860 Delhi), but it is rare that I hear the words "This is All India Radio" clearly. I have no fear reporting that I heard Chennai anytime I am sure that there is English between 1230 and 1235.

With regards to reception conditions, I use a subjective scale based on my experience. I call reception very poor when audio is not continuous. You hear only snatches of audio, enough to know a station is there and perhaps to differentiate between music and speech. In this case, you have no chance to get an ID. Poor conditions are when audio is continuous and you can easily differentiate speech from music. You may be able to identify the language, but you cannot easily identify words, even if they are in English. Fair reception is the minimum condition that allows

you to identify words and to hear that covered phrase, "this is All India Radio." Good and excellent refer to exceptional conditions when signals are much stronger than usual.

Subcontinental music is sufficiently distinctive to indicate an AIR station, but so much popular music on Malaysian and Indonesian stations is local language versions or imitations of Euro-pop, that it is of little use. Local language indigenous music on the P/NG outlets is distinctive, but they also play English/local language C&W or pops. At one time you could be sure that any Chinese speaker with alternating man and woman was China. Now, programming is more varied with popular music, especially on programs beamed to Taiwan.

My DXing style, scanning a limited band of frequencies day after day, has enabled me to study the seasonal propagation changes and daily effects of local sunrise on propagation as well as to be able to report stations heard with a reasonable degree of accuracy without spending more than a minute or two per day on each. I also can easily spot new stations, missing stations, and any other changes.

How do you DX? What is your "style?" How do you provide for appropriate QA/QC on loggings? Write an article and share it through SWC.

TGNA and Hurricane Mitch

by Marlin A. Field, Hillsdale, MI

TGNA in Guatemala is more than a radio station spreading the Gospel in word; it's also involved in spreading the Gospel in deed, as shown by the disaster that Hurricane Mitch caused in Central America. After TGNA put out an urgent request for food and clothing for the flood victims, the Guatemalan people responded by donating over twenty-five tons of clothing, beans, rice, corn, flour, oil, and medicine. CAM-related churches were responsible for the distribution of the donations. The first two trucks left TGNA on September 16, traveling over treacherous roads and in inclement weather.

CAM International, with headquarters in Dallas, which operates TGNA, was the first non-government agency to get supplies to Honduras. Residents of Panama, led by CAM missionaries in that country, donated hundreds of five-gallon plastic buckets of emergency items like water, food, and medicine. The United States Air Force provided free transportation from Panama to Honduras. Panama and Guatemala were the two Central American countries least damaged by the hurricane. (from information provided by TGNA).

Sending E-mail to the BBC World Service

by Peter Bowen, Toronto, Canada

With the proliferation of Internet-connected computers, it is now almost impossible for people in North America not to have access to this medium. Many people have e-mail accounts at their work, and some at home. In addition, the increasing number of web-based e-mail services (e.g., Hotmail, Yahoo!, etc.) has further increased the availability of this simple, quick, and cheap means of communication.

Because of this, those who wish to write cheaply and quickly to radio stations via e-mail now have the means to do so. In fact, corresponding with international broadcasters has never been easier. For their part, most of the major international broadcasters have at least one e-mail address.

The BBC World Service is no exception in this regard, having a general e-mail address for the Service as a whole, for departments within the Service, and even addresses for individual programs.

In order to facilitate listener correspondence with BBC World Service programs for the purpose of feedback, questions, music requests, etc., I have collected a list of e-mail addresses for various departments and programs.

I make no guarantee that the following list is complete, nor that these addresses are still valid. They have been collected from the World Service website, the BBC's *On Air* magazine, and my own listening.

Departments:

General/Audience Relations:

worldservice.letters@bbc.co.uk

Sports: Sportsworld@bbc.co.uk

Business Programs:

world.business@bbc.co.uk

Science Programs:

worldscience.letters@bbc.co.uk *or*

world.science@bbc.co.uk

Popular Music Programs:

ws.pop@bbc.co.uk

Drama: worldservicedrama@bbc.co.uk

Classical Music Programs:

world.class@bbc.co.uk

Youth Programs: world.youth@bbc.co.uk

African Weekly Programs:

african.weeklies@bbc.co.uk

—*Fast Track*

—*African Perspective*

—*Talk About Africa*

—*Postmark Africa*

—*Art Beat*

—*African Performance*

All other departments:

worldservice.letters@bbc.co.uk

Specific Programs:

Europe Today: europe.today@bbc.co.uk

East Asia Today:

eastasia.today@bbc.co.uk

Focus on Africa: focus@bbc.co.uk

Network Africa: network@bbc.co.uk

Poems by Post: poems.post@bbc.co.uk

Westway: westway@bbc.co.uk

Meridian Live, Feature, and Books:

meridian.programmes@bbc.co.uk

Meridian on Screen:

on.screen@bbc.co.uk

Short Story: short.story@bbc.co.uk

Everywoman: everywoman@bbc.co.uk

Write On: writeon@bbc.co.uk

Outlook: outlook@bbc.co.uk

Global Business: hugh.fraser@bbc.co.uk

On Your Behalf: yourbehalf@bbc.co.uk

Newstalk: newstalk@bbc.co.uk

My Century: my.century@bbc.co.uk

Newshour: newshour@bbc.co.uk

In addition, here is the address for the World Service's monthly programme and frequency magazine:

BBC *On Air*: on.air.magazine@bbc.co.uk

As you can see, there are lots of people at the World Service to send messages to. So get those fingers typing!

The Influence of DXing

A personal note by Marlin A. Field, Hillsdale, MI

Did you ever think that you, as a DXer, might unknowingly have a profound effect on the life of another? Our son, Kenneth, who received his doctorate in linguistics with Mandarin as his language last year from the University of California, Santa Barbara, wrote in the introduction to his dissertation, *A Grammatical Overview of Santa Mongolian*: "I especially wish to thank my dad who got me interested in China by listening to the English broadcasts from Radio Beijing when I was quite young." An article in *Andex International*, in 1975 when I was "DXer of the Month" states that by that time, when he was fourteen, Kenneth had done a little DXing. He obtained a few QSLs, including one from Radio Beijing. Kenneth is also shown with

me with headphones on in the photo that accompanied a 1963 article about DXing in the school paper of Lake Michigan College, where I then taught. He was two years old.

The Santa nationality is one of the fifty-five officially recognized minorities in China. According to a 1992 census, there were 370,000 persons in the group. They live in the south part of Gansu Province, south of Lanzhou, the capital of the province. Kenneth was in China teaching English as a Second Language at Wuhan University with the pro-democracy demonstrations occurred. When he wound up with no students in his classes, he was told that he should leave China for his own safety. After that, he went back to gather information for his dissertation.

CIA Admits Radio Swan Operation

by Ronald D. Rackley, P.E., Sarasota, Florida, via Joe Buch

Those of you as old as I am may remember hearing the mysterious, anti-Castro "Radio Swan" back in the 1960s. There was much speculation in the SWL press at the time about this station...its location and actual ownership were hotly debated. The consensus emerged that it had been built by the CIA to support the Bay of Pigs invasion effort, but they, of course, said nothing. About 20 or 25 years ago, the CIA official who ran the propaganda effort for the Bay of Pigs invasion, David Atlee Phillips, published his memoirs as a book entitled "The Night Watch." He indicated that he had been responsible for Radio Swan and gave many details about its construction and operation.

Having my interest "sparked" by Phillips' book, I began accumulating all of the oral history of Radio Swan that I could find by talking to several radio engineers of my acquaintance who worked for the govern-

ment during this period. I never published any of it, out of respect for the fact that the CIA had never officially acknowledged their involvement. Within the last couple of years, formerly secret government documents detailing the CIA's ownership of Radio Swan have been released under the FOIA. Those interested in reading more about it might like to look at:

<http://www.parascope.com/articles/1296/baydocs.htm>

Now that the CIA's involvement in Radio Swan has been officially acknowledged, I'll pass along what I know. The following is from a posting that I made to the group alt.talk.weather a few months ago when the subject of the radio history of Swan Island came up in the context of hurricane Mitch bearing down on it.

The first people to live on Swan Island, to my knowledge, were radio operators for the United Fruit Company when they had a radio

relay station there early in this century. It was claimed as US territory then. The United Fruit Company needed a relay station halfway between the mainland US and Central America, where they had plantations growing bananas, pineapples, and such, to pass radio messages using the technology of the day, Morse code.

One interesting fact is that the development of triangular cross-section radio towers, such as are used almost exclusively today, followed the work of structural engineers who investigated the failure of the old square towers at the United Fruit Company station after a hurricane hit Swan Island in 1916. Their investigation was the subject of a paper published in the "Proceedings of the Institute of Radio Engineers" in February, 1924. They concluded that triangular towers would have stood up to the winds better than the square towers did, for a given total amount of steel.

I BEGAN ACCUMULATING ALL OF
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OFFICIALLY ACKNOWLEDGED
THEIR INVOLVEMENT.

The United Fruit Company abandoned the island decades ago, but it has been used by others since. The FAA had a weather/communications facility there as late as the 1970s. but I'm not sure whether or not the USA has had anything there recently. The CIA radio station operated there from 1960 until 1968. During that time, there was a dispute over whether Swan Island belonged to the USA or Honduras. Some time after the CIA radio station closed down operations, the US gave up its claim to the island. It now belongs to Honduras.

The CIA radio station is an interesting piece of cold war history for radio buffs. To help shape public opinion in Cuba before the Bay

of Pigs invasion and to provide coded operational communications for the effort, the CIA built the AM station which operated on 1160 kHz with a 50 kilowatt transmitter and a two-tower directional antenna to cut down the signal radiated toward the US station on the same channel, KSL in Salt Lake City, while "beaming" the signal into Cuba. There was also a shortwave transmitter that operated on 6.000 MHz with 7.5 kilowatts.

The station was operated by a company called the Gibraltar Steamship Company...it didn't own a single steamship but was a "front" corporation that was in the CIA's portfolio when they needed to set up the operation. The station was ostensibly a commercial operation and was at different times known as "Radio Swan" and "Radio Americas." It ran mostly Spanish language programming. Its business office was in Miami.

The radio transmitting equipment employed by Radio Swan had an interesting history. It was originally constructed in the early 1950s for Radio Free Europe, which was a CIA operation at the time, and placed in service at a station near the Czechoslovakian border in Cham, Germany. The cold war was just getting underway at that time and so was the practice of broadcast jamming. The CIA learned an early lesson about jamming at Cham. The communists put up a transmitter on the same frequency just across the border from the Cham station and both signals were subject to the same skywave influences so the Radio Free Europe signal was totally jammed by the Soviet jammer. They learned that, when they put transmitters farther away from the "Iron Curtain," they could take advantage of differing skywave propagation for the two signals so that listeners could differentiate between the broadcasts and the jammer noise much of the time.

The Cham station was closed and the equipment was surplus when the need came to construct the Swan Island station, so it was moved there. The radio station was built in a record 30 days. Navy SeaBees had to build a dock there for the ship carrying the equipment from Germany almost overnight. The station was very effective in penetrating Cuba with its broadcasts.



Listener's Library

T. J. "Skip" Arey N2EI
P. O. Box 236
Beverly, NJ 08010
Internet: tjarey@home.com

Well here we go with another year. At least we are moving toward the Millennium with a notable improvement in the sun spot situation. Let's ring in the New Year with what has become an annual tradition.

Passport to Worldband Radio 1999 Edition

Editor in Chief: Lawrence Magne
382 pages + extensive "Blue Pages"
\$19.95

International Broadcast Services, Ltd.
Box 300
Penn's Park, PA 18943
www.passport.com
ISBN 0-914941-48-8

I keep hearing this nasty rumor that Shortwave Radio is dead. Well if this is the case, how come each year Larry and his team come up with this excellent book? Further, if shortwave is dead, could somebody please explain to me why Larry is able to review all these wonderful receivers produced by all these manufacturers? If you're new to the hobby you may not yet know that "Passport" is one of the standard tools necessary to make sense of what you can find out there in the world between about 2300 and 21850 kHz. Passport's "Blue Pages" serve as a guide to listening to the shortwave bands. It remains amazing to me that one book can have so much to offer both the beginner and the experienced shortwave listener. As usual, Larry has pulled together a group of great radio writers to share a series of articles on the shortwave world. (I guess it wouldn't sound right to say the worldband world, would it?). The lead article this year is Hans Johnson's account of Broadcasting in Liberia. This article expresses the never ending dance of politics and international broadcasting most clearly. Henrik Klemetz contributed

his thoughts on Latin American stations while Manosji Guha contributed three articles covering aspects of broadcasting from eastern nations.

This year's Passport features an article showcasing the top ten radio shows in English. I can tell you, we have come a long way from Alister Cooke's "Letter From America". As always, Passport includes an excellent beginner's section designed to get the first time listener up and running in short order. And let us not forget the regular Passport features "What's On Tonight?" and "Addresses Plus".

But many dedicated hobbyists always turn to a new Passport's features on receivers. It seems to me that there is a growing number of portables and "sub" portables of note on the market. Notably missing are the new wave of "black box" computer controlled units but I am sure they will figure in future Magne reviews in Passport and in Monitoring Times. I was really happy to see the attention given to the Ten Tec 1254 kit. I am happy to see that the smell of melted solder has not totally left our hobby.

The 1999 Passport to Worldband Radio is a must have book, but no review would be complete without Skip's annual pick of the pics, so to speak. By Larry's own admission, this year is a toughy. We simply need to be submitting more radio related pictures of women to Passport for consideration folks. Maiké van Pelt on page 56 is a bit on the young side (or is it that I'm just getting too old?), Deutsche Welle's Erica Gingerich on page 70 definitely gets an honorable mention. But this year I must bow toward the East and go with Shoko Fukui of radio Japan on page 75. I can be so otaku at times!!!

Well here is a book that goes a bit beyond our normal fare but it actually came into Listener's Library by way of a request.

Introduction to Radio Frequency Design

by Wes Hayward W7ZO1

383 pages + software disk

\$30

The American Radio relay League

225 Main Street

Newington, CT 06111-1494

www.arrrl.org

ISBN: 0-87259-492-0

When I first approached Joel Kleinman N1BKE at ARRL HQ for a review copy of this book he commented that he didn't think shortwave listener's had an interest in the more in-depth electronics theory. I then related to him how the idea to look into this book came from a discussion at the tables at the Kulpville SWL Winterfest. It would seem more than a few folks want to know there way around the innards of their equipment.

Admittedly, this book is a bit beyond the beginner's texts that often grace this column and my column in Monitoring Times. Introduction to radio Frequency Design assumes that the reader knows a bit more than Ohms Law. It was originally published as a supplemental text for working engineers. Still, a dedicated hobbyist with a solid foundation in basic electronics can muddle through and gain a lot of knowledge about RF concepts.

The text covers, in detail, eight major aspects of radio theory and practice including: Low Frequency Transistor Models, Filter Basics, Coupled Resonator Filters, Transmission Lines. Two Port Networks, Practical Amplifiers and Mixers, Oscillators and Frequency Synthesizers and The receiver: Am RF System. The book makes use of illustrations and extended mathematical analysis to fully examine each concept. "Real world" circuits

are used to demonstrate the applications discussed, many of which can actually be pressed into service should you desire to take up a soldering iron.

The book includes a disk of useful programs to aid the reader with testing the various design concepts discussed in the book including programs covering filter design, feedback amplifiers, RF system dynamic range and phase-locked loops.

If you are ready to design the next great receiver, this book will put you on the right track.

Shortwave Sidelines

Here's a neat little book full of great stories.

Inside Amateur Radio

by Lenore Jensen W6NAZ

93 pages

\$9.00

Worldradio Books

2120 28th Street

Sacramento, CA 95818

Every time a group of hams or any kind of radio people get together, there are often a couple a stories told about how amateur radio saved a life or helped out in some kind of emergency. This brief book is a collection of some of the best amateur radio anecdotes I have ever come across. The book contains five actions packed chapters covering: Disaster and emergencies, phone patches, wartime, medical assistance and personal anecdotes. The book makes for great light reading and you will come up with a story or two that hits close to home. At the very least, you'll have a few new tales to tell next time you gather with your radio buddies. It's a great book to remind everybody that the radio hobby is sometimes more than just a lot of fun.



The Sun And Short-Wave Reception

(Part 9)

There are several ways you can find out the current and predicted solar and geomagnetic conditions. You can use WWV transmissions at 18 minutes past the hour, or you can access one of several internet sites.

The WWV broadcasts consist of three primary sections: The most current information, then a summary of activity for the past 24 hours, and finally a forecast for the next 24 hours.

"Solar-terrestrial indices for (UTC Date) follow: Solar flux (number) and (estimated) Boulder A index (number). Repeat, solar flux (number) and (estimated) Boulder A index (number). The Boulder K index at (UTC time) on (UTC Date) was (number) repeat (number)." Since the final A index is not available until 0000 UTC, the word "estimated" is used for the 1800 and 2100 UTC announcements.

Solar flux is a radio telescope measurement of the intensity of solar radio emissions at a frequency of 2800 MHz. Known also as the 10.7 cm flux (the wavelength of the radio signals at 2800 MHz), this solar radio emission has been shown to be well correlated to the level of the sun's radiated ultraviolet and X-ray emissions which are primarily responsible for causing ionization of the earth's ionosphere. This ionization produces the "layers" that propagate short-wave signals over long distances.

The solar flux number is in solar flux units and is recorded daily at 1700 UTC. Solar flux

readings range from a theoretical minimum of approximately 67 to actually-observed numbers greater than 300. Low solar flux numbers dominate during the lower portions of the 11-year sunspot cycle, rising as the cycle proceeds with the average solar flux a fairly reliable indicator of the cycle's long-term behavior. One solar flux unit equals $10^{-22} \text{ Watts/meter}^2$ per Hz of bandwidth.

The "A" index is an averaged quantitative measure of geomagnetic activity derived from a series of physical measurements. Magnetometers measure differences between the current orientation of the magnetosphere and compare it to what it would be under "quiet" geomagnetic conditions. But there is more to understanding the meaning of the Boulder A index reported in the Geophysical Alert Broadcasts.

The Boulder "A" index in the announcement is the 24 hour "A" index derived from the eight 3-hour K indices recorded at Boulder. The first estimate of the Boulder "a" index is at 1800 UTC. The K index is adjusted for the station's geographical location to produce an "a" index (no typographical error here, it is a small case "a") for that 3-hour period; and finally a collection of "a" indices is averaged to produce an overall "A" index for the time frame or region of interest. This estimate is made using the six observed Boulder K indices available at that time (0000 to 1800 UTC) and the forecaster's best prediction for the remaining two K indices. To make these predictions, forecasters examine present trends and other geomagnetic indicators.

At 2100 UTC, the next observed Boulder K index is measured and the estimated A index is reevaluated and updated as required. At 0000 UTC, the eighth and last Boulder K index is measured and the actual Boulder A index is produced. For the 0000 UTC announcement, and all subsequent announcements up to 1800 UTC, the word "estimated" is dropped and the actual Boulder A index is used. The underlying concept of the A index is to provide a longer-term picture of geomagnetic activity using measurements averaged either over some time frame or from a range of stations over the globe (or both).

"A" and "a" indices range in value from 0 to 400 and are derived from K-indices based on the table shown in Figure 1 in this series published in the July 1998 NASWA Journal. K index measurements are made at sites throughout the globe and each is carefully adjusted for the geomagnetic characteristics of its locality. The K index used on WWV is usually derived from magnetometer measurements made at the Table Mountain Observatory located just north of Boulder, Colorado. It is likely at the same time the K index would be higher for sites located farther from the geomagnetic equator such as Boston, and lower for places closer to the geomagnetic equator such as Miami. The scale used is quasi logarithmic, increasing as the geomagnetic field becomes more disturbed. K indices range in value from 0 to 9.

"Solar-terrestrial conditions for the last 24 hours follow: Solar activity was (Very low, Low, Moderate, High, or Very high), the geomagnetic field was (Quiet, Unsettled, Active, Minor storm, Major storm, Severe storm)."

Solar activity is a measure of energy releases in the solar atmosphere, generally observed by X-ray detectors on earth-orbiting satellites. Somewhat different from longer-term Solar Flux measurements, Solar Activity data provide an overview of X-ray emissions that exceed prevailing levels. The five standard terms listed correspond to the following levels of enhanced X-ray emissions observed or predicted within a 24-hour period: Very Low X-ray events less than C-class. Low C-class X-ray events. Moderate Isolated (1 to 4) M-

class x-ray events. High Several (5 or more) M-class x-ray events, or isolated (1 to 4) M5 or greater x-ray events. Very High Several (5 or more) M5 or greater x-ray events.

The x-ray event classes listed correspond to a standardized method of classification based on the peak flux of the x-ray emissions as measured by detectors. Solar x-rays occupy a wide range of wavelengths with the portion used for flare classification from 0.1 through 0.8 nanometers. The classification scheme ranges in increasing X-ray peak flux from B-class events, through C- and M-class, to X-class events at the high end.

In the Geophysical Alert Broadcasts, solar activity data provides an overview of X-ray emissions which might have effects on the quality of short-wave radio propagation. Large solar X-ray outbursts can produce sudden and extensive ionization in the lower regions of the earth's ionosphere which can rapidly increase short-wave signal absorption. These Sudden Ionospheric Disturbances (SIDs) occur on the sunlit side of the earth and are known as "short-wave fadeouts" or SIDs and can degrade short wave communications from minutes to hours.

SIDs are characterized by the initial disappearance of signals on lower frequencies. Subsequently the fading rises up the frequency spectrum over a short period (usually less than an hour). Daytime HF communication disruptions are more common during the years surrounding the peak of the solar cycle.

So if you experience a sudden drop-out of a signal you have been listening to, you will naturally begin tuning around and to your horror you find that you don't hear anything. No signals and low noise levels. You check the antenna. It is still connected. As you hunt for you warranty information on your radio, you begin to hear signals beginning to stick their heads above the noise level. Congratulations, your radio is OK and you have just experienced your first SID.

This series will continue next month with a look at how to also get this information from the Internet. Until then stay tuned. 

Equipment Reviews

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DC Electronics Kits

DC Electronics, of Scottsdale, AZ has several kits for those who are looking for a construction project to fill those cold winter nights—when not listening to the radio, that is. I would like to share my experiences with a couple of their products that I have assembled in my quest to make my shortwave radios sound better.

For several years, I have been cobbling together various circuits to couple the audio outputs of several receivers to a single amplifier in order to drive a pair of Radio Shack Minimus speakers. I have also been experimenting with various tone control circuits to ameliorate the numerous undesired noises that accompany shortwave signals. Since the enemy of "good" is "better", this has been a continuous evolution of projects. The previous incarnation was a summing amplifier that utilized the speaker level outputs of receivers, routed them through a stereo graphic equalizer and then through a couple of 7 watt amplifiers based on the LM383 amplifier integrated circuit. I decided that the graphic equalizer took up too much room on the equipment desk, so I was pleased to see an article on the TDA1524 control chip in the May 1998 issue of Popular Electronics magazine. This chip provides an easy way to incorporate volume, balance, bass and treble control. From the information presented in the article, it appeared that I would be able to modify the circuit to provide for tone control action at frequencies better suited for shortwave listening rather than the usual high fidelity requirements. I assembled the circuit from parts, but DC Electronics has a kit that makes the process a lot easier.

The products

The kits available from this firm are "barebones"—the parts, a printed circuit board (which is not silk-screened for parts layout) and rudimentary assembly instructions. However, the parts count is low, so assembly is not difficult. The circuit boards are of good quality. The tone control kit is the TVB-1, which sells for \$19.95. I also used two of the M2002 kits, which are mono, 7 watt audio amplifiers utilizing the LM383T/ULN2002 chip. These kits sell for \$9.95 each. I subsequently substituted the TDA2003 chip (actually the NTE substitution NTE1288) which is a pin-for-pin replacement and provides 10 watts of output power. An alternative to the M2002 kits would be the S1554 kit at \$19.95, which uses the TDA1554, a stereo chip providing an output of 22 watts per channel. All of these kits require a power source of 12–15 volts DC, with a current capacity of one amp for the M2002 kit and three amps for the S1554 kit. The PS-A4 power supply kit is available for \$19.95 (\$14.95 when ordered with the S1554 kit).

My amp

I decided to forgo the ability to use speaker level outputs and just use the line level outputs of the two receivers that I consider the best for program listening—anAORAR7030 and a Lowe HF-225 Europa. Since the AR7030 has two line level outputs available, I can use one for the tape recorder and the other for the amplifier. Since the '225E doesn't have a clock/timer, I don't sacrifice anything by using its line out for the amp.

I built the tone control circuit based on the schematics in the manufacturer's application notes and found that the turnover points (the frequency at which the tone control action begins to take effect) were not too effective for the frequency content of SW signals. Adjusting the bass control just boosted the rumble and the treble control just altered the level of the hiss. I ended up substituting .033 uF capacitors for the specified .056 uF capacitors in the bass control circuit and .027 uF instead of the specified .015 uF units in the treble portion of the circuit. This provided useful tone control action, at least to my tastes. Interfacing the tone control circuit to the power amplifiers requiring turning the input level controls on the amplifier modules very low—otherwise there was a great deal of oscillation if the volume control was turned up very loud. There is still some instability in my amp, but it only occurs if I turn the volume level up to an almost painful level. I combined the circuit modules in a Radio Shack enclosure along with a home-brew power supply. During the writing of this article, I added a headphone output using a LM386 audio amplifier chip.

The final product

I am very pleased with my setup. It allows me to sit back and enjoy the program with good sound. The tone controls allow me to tailor the sound to my preference and the volume level is "room-filling". It certainly beats the tinny little speaker mounted in the top of most radios. I enjoy tinkering and the kits from DC Electronics make it easy. They offer a variety of other kits for both higher power audio and RF projects, as well. Their address is P.O. Box 3203, Scottsdale, AZ 85271-3203; (800) 467-7736 or (602) 945-7736. Write or call for a catalog. They have a website at www.dckits.com—one nice feature of their website is links to the semiconductor manufacturers' sites. Most of the manufacturers' sites provide the capability to download data sheets and application notes (usually in .pdf format) on their products. "TDA" parts can be found on the Phillips/Sigmetics website and "LM" prefixed chips are from National Semiconductors. 

Hardware Bits by Alan Johnson

RSM COMMUNICATIONS 108B SHORTWAVE LOOP ANTENNA—Raymond S. Moore, the author of the excellent book on tube-type communication receivers (*Communications Receivers: The Vacuum Tube Era*, now in its fourth edition), has been experimenting with loop antennas for MW reception for many years. He has now announced the availability of a loop antenna for shortwave reception. The 108B is the high frequency loop with tunable coverage from 2.5 to 30 MHz; the 108 covers 0.5 to 2.4 MHz and the 108C covers longwave. The 108B is 23 inches square and is spiral wound. The loop can be rotated to reject local QRM/QRN. Although conventional wisdom has been that loop antennas do not work well above 5 MHz, the 108B's designer states that this new antenna has exceeded all expectations. The 108B is a passive antenna, thus avoiding the problems of overload and intermodulation. Since the antenna is a high-Q device, it serves as a very selective input filter for the receiver, similar to a preselector. A line amplifier is available as an option for weak signal work, although the designer states that the amplifier is required only under the most difficult conditions. RSM Communications tested the loop with a Drake R8, Kenwood R-1000 and a Sony ICF-2010 and states "The inexpensive Sony 2010 will pull in 95% of the signals as well as, or better than the more expensive receivers with the RSM 108B". There is a built-in balun to provide an output impedance of 50 ohms to match the input impedance of most radios. The antenna has a 7 inch long by 5/8 inch mounting rod—the user can provide his own mount or a tripod or desk mount can be obtained as an option from RSM. The price for the 108B is \$240 plus \$15 shipping and handling. The Model 301 amplifier option is \$99 plus \$5 S/H. The Model 200 floor tripod is an additional \$75 plus \$10 S/H. The 35 inch Model 105 loop is also available for MW, with a price of \$285 plus \$25 S/H. RSM Communications can be contacted at P.O. Box 27, La Belle, FL 33975 USA; Telephone (941) 675-2923. 

NASWA Awards

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Howdy and welcome to the February Awards column. Sorry for the very summer-like nature of my column last month; I got it into headquarters much earlier, but it kept getting bumped for other columns and it was the dead of winter before it finally found its space. So for those of you who contacted me and expressed concern for what seemed to be a major senior moment, it wasn't my fault, just an artifact of wanted to get the best and most current into the Journal. Conditions have been great here through December and early January, with Indos and Indians being audible nearly every day. I hope to see an increase in the number of award applications because of the great holiday conditions. And speaking of award applications, here are the latest to display their shortwave prowess on their walls:

David Banner

Antarctic DXer

Rich D'Angelo

Asian Continental DXer

Maple Leaf DXer

Master DX Centurion

Senior Peruvian DXer

Senior Time Station DXer

Terry Hartsell

International DX Listener

Gary Neal

25 endorsement: All American DXer

Master European DXer

Soviet Sphere DXer

Award of the Month: The Twelfth Annual Winter SWL Fest

As has become the custom, I reserve the February awards column for the Winter SWL

Fest. This year is the 12th assembly of the radio faithful at the Holiday Inn in historic and beautiful Kulpsville, PA and it will held be Friday and Saturday 12-13 March (although most folks are there by the Thursday 1600 keg bunging). The program is a mix of general and technical forums and includes the silent auction and Saturday night banquet. The latest news on the fest can be found at: www.trsc.com/Radio/radio.html. Come see us this year!

Please note that the dates on the registration form in last month's Journal are incorrect. The correct dates are March 12-13.

Twelfth(!!!) Annual Winter SWL Fest Program of Events

Friday, 12 March 1999

0730: Registration

0845: Welcome

0900: *Session # 1: Beginner's Forum* (Harold Cones): This is the annual forum for the new or sorta new and will cover the very basics of getting started in the shortwave hobby—old hands at the hobby might learn a bit too.

1000: Break

1030: *Session # 2: Easy Listening* (Richard Cuff and John Figliozzi): We have had an easy listening forum for many years and it continues to be one of our most popular. Two real experts they write the NASWA column - will share the fun of enjoying shortwave programming and what to look out for in the future.

1130: *Break and Lunch* on your own

1300: Session # 3: The Fine Art of QSLing (Skip Arey and his band of merry men): QSLing has always been an art but it is even tougher these days with so much political unrest and financial problem. This forum will cover QSLing techniques for all aspects of the radio hobby as well as information about the NASWA Awards Program.

1400: Break

1430: Session # 4: Finnish DXing And News From The European DX Council (Risto Vahakainu): Risto has his radio eye on all things European. Hear what's new there and about Dxing in Finland, the place where DX grows on the trees.

1530: Break

1600: Session # 5: Home Antennas—New Rights For Landowners And Renters (Tracy Wood): The Government has recently expanded the rights of landowners and renters to erect VHF/UHF over the air antennae and small satellite dishes. Tracy will fill you in on all the latest on this controversial topic.

1700: End of Formal Activities: We were asked by a number of participants to leave some time at the end of this day for group and club meetings and this is it. Dinner on your own; hospitality suite open.

1710: Informal Session: European Pirate Radio Activity (DJ Stevie): This is an informal gathering around DJ Stevie's table in the ballroom. Stevie will answer your questions about European pirates and how Radio 510 makes their voices heard.

1900–2200: Swap Meet/ Equipment Sale — Room 153

Saturday 13 March, 1999

0900: Session # 6: New Equipment Review (Alan Johnson and George Zeller). Back by popular demand from last year, the dynamic duo will discuss newly introduced equipment for the hobby crowd. The editor of NASWA's "Equipment Reviews" column and a guy who has to have every new gadget as soon as it comes out will tell you their experiences with some of the new stuff.

1000: Break

1030: Session # 7: What It Is Really All About Is Audio Recovery (Chuck Rippe): Radio specs don't always tell the whole story and here is the opportunity to learn about a receiver's ability to capture audio. Chuck will also explain a bit about the best methods to store audio programming for future use.

1130: Break

1200: Lunch Ballroom

1330: Session # 8: Scanning The Good Life (The Scanner Scum): They're baaack. What would the fest be without the annual appearance of these guys? [Better not answer that one] These fellas are really big in the hobby and between them know all there is to know about scanning. This year's features: history of public safety monitoring and monitoring the military.

1430: Break

1445: Session # 9: Unlicensed Broadcast DXing (George Zeller and Andy Yoder): Hundreds of unlicensed broadcasters pepper the airwaves every year (some may even have peppered the airwaves of this very hotel). These two veteran pirate DXers will discuss the past, present and future of pirate broadcasting. Trench coats and pulled down hats optional.

1545: The End of Forum Activities

1600: The End of the Silent Auction Room 157

1800: Cash Bar Ballroom

1900: Banquet And Prize Draw—Ballroom.

Demonstrations, Displays and Clubs: all day both days in the Ballroom.

All Forums to meet in the combined Oslo/ Copenhagen Rooms.

Silent Auction will be run Saturday 1000-1600 in Room 153.

THE 1999 NORTH AMERICAN DX CHAMPIONSHIPS (NADXC)
A Shortwave Listening Contest Sponsored by
The Association of North American Radio Clubs (ANARC)

PURPOSE: This contest is designed to promote the shortwave listening hobby and to provide those SWL's and DXer's interested in competing an opportunity to participate in a carefully run, challenging contest.

ELIGIBILITY: The 1999 DX Championship is open to all DXer's residing in North America [as defined by the country list of the North American Shortwave Association (NASWA)]. Members of the NADXC Administrative Committee are excluded from participation.

LISTENING PERIOD, FREQUENCIES, AND TIMES: The contest listening period will begin on Friday, 19 March 1999, at 1900 EST (0000 UTC) and end Sunday, 21 March 1999, at 2359 EST (0459 UTC).

PRIZES: Plaques will be awarded by ANARC to the top three finishers. All entrants will receive a participation certificate indicating that they competed in the 1999 North American DX Championships. The certificates for the top 20 will have their place of finish in the NADXC indicated on the certificate.

SCORING: Contestants are to log as many stations as possible from as many countries as possible within the prescribed listening parameters. The **first station** logged from each country= **1 point**. The **second station** from each country= **3 points**; each **additional station** from that country= **5 points**. To qualify for the contest, each contestant must present logs of five stations from each continent (Africa, Asia, Europe, North America, Oceania and South America) as a minimum—entries without these 30 logs will not be considered. These required countries are to be counted in point totals. **Upon completion of the contest, multiply the point total by the number of countries heard to determine the final score** For contest purposes, all clandestine stations and hobby pirate transmissions will be considered one "country." A station is a shortwave broadcaster whose transmissions are intended for reception by the general public. Each transmitter site of a broadcasting organization will count as a separate station. Different services of the same broadcast organization do not count as separate stations. Transmissions of a single broadcast organization on various frequencies may only be counted once. The use of multiple frequencies does not create as many new stations as frequencies used. For country counting and station counting purposes, the country list of the North American Shortwave Association (45 Wildflower Road, Levittown, Pa 19057) will be the sole criterion.

Each contestant is required to submit a log to include country, station, frequency, time, date, SINPO, and the basis of station identification (i.e., spoken ID, interval signal, language, program, known/frequency checked, etc.). The required five countries from each continent should be placed at the beginning of the log.

Each contestant is required to total his own entry and provide a summary of the number of countries and stations claimed to support the point totals. The receiver(s) used in the contest must also be indicated. Logs will be judged on accuracy, completeness and neatness. If the judges cannot read a log, it will not be counted for scoring purposes. The decision of the judges is final.

FEES: An administrative fee of \$4.00 plus four \$0.32 stamps must be provided for each contest entry. All entries must be postmarked by Wednesday, 1 April 1998, and sent to: **Dr. Harold Cones, Two Whits Court, Newport News, VA 23606 USA**. Checks should be made payable to Dr. Harold Cones, not ANARC or NADXC.

Contestants will be notified of the results in June, and a list of winners will be sent to each of the ANARC member clubs for publication.

Good luck from the 1999 NADXC Administrative Committee - Harold Cones, Kris Field and John Fisher.

Listener's Notebook

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AFGHANISTAN *VO Shari'ah* after their return being off about 2 days early last week is coming through good level 7075v today 17/1 1400 UTC. // MW 1107 barely making it under AIR. 1715 s/off. (Goonetilleke-SRI)

7081.5v *V. of Shari'ah* 0126 Test tone till 0128 followed by a-cappella M chorus with presumed NA. At 0129, at least two iterations of chime IS beginning mi-sol-mi-sol-mi-sol. Three pips at 0130 and talk by M; into Qur'an reading at 0132. Still in Qur'an at 0139, but not much readable thereafter. Drifted down to 7081.1 by 0142, 7079.9 by 0147, 7079.4 by 0206, 7079 by 0227. Also audible the next evening at 0236 on 7079 and the following morning at 1150 on 7076.4. Extremely weak and difficult to copy through almost constant ham QRM--SSTV, SSB, and CW! (21-Dec/Hill-MA)

ANGOLA *Radio VORGAN* (nee *Voz o Resistencia da Galo Negro*), the UNITA (rebel) station, resumed operations on 6 January. Frequency this time around is 5950 (impossible here thanks to WYFR, praise the Lord). Unsure if site is old Jamba site within Angola, or someplace else (SENTECH?). (Hauser-OK)

ARGENTINA 15820.0L *Radio Mitre*, Buenos Aires; 0555-0700 fair, program "De la Noche a la Manana" with talk and variety of pops. Station jingle was played each 30 minutes as "Radio Mitre AM Ochenta (80)." (10-Jan/TIN-JPN/Relampago DX)

BANGLADESH 4879.21, *Bangladesh Betar*, 1155 M with non-stop and fairly excited talk, then just before 1200, replaced by deep-voiced M with more measured tones. Short solo flute tune, 5+1 pips, last one high, then ID consisting of three short sentences, the middle one of which was "Bangladesh Betar." QRM from SSB traffic. AIR Lucknow carrier popped on 4880.00 1210, followed by scheduled *1215, but the two remained separable. (7-Jan/Novello-NC)

BELARUS 11670 Belarussian external service noted in Belarussian w/tlk to C358, OC, then IS at 0400 and "Govorit Minsk, stolitsa respublika Belarus." (29-Dec/Salmaniw-BC/Rev. of International Broadcasting/Hauser-OK) I checked 6165 at 0700 UT and *Belarusskoye Radio* was already on with//6115, 7210, 11670. Also on another new channel 6100. Sites of 6100 and 6165 are unknown. (28-Dec/Pashkevich-RUS/Ludwig-GER)

BHUTAN Sked of *Radio Bhutan*, per a visit there in December:

0400-0800	Dzongkha	6035 Su
0800-0830	Sharchopkha	6035 Su
0830-0900	Lhotsam	6035 Su
0900-1000	English	6035 Su
1000-1215	Dzongkha	5030 Mo-Sa
1215-1245	Sharchopkha	5030 Mo-Sa
1245-1315	Lhotsam	5030 Mo-Sa
	(Nepali)	
1315-1400	English	5030 Mo-Sa

English program sked:

Weekdays

1315	Local and international news
1325	Announcements
1330	Daily feature
	Mon: Education calling teachers
	Tue: Topical evening program
	Wed: Mid-week music for your listening pleasure
	Thu: UN radio program
	Fri: Bhutan this week
	Sat: DJ's choice of music for your listening pleasure Sundays
0900	Local and international news
0910	Announcements
0915	Sunday request show

(Hirahara-JPN/Rev. of International Broadcasting/Hauser-OK) [Note: not sure if Mo-Sa isn't really Mo-Fr; sked said only "weekdays," with an exception for Sundays-AQ]

BOLIVIA 4599.98 *Perla del Acre*, Cobija, 1024, tentative, morning announcer with weak talk, Latin American pop music. Ute QRM. (4-Jan/Mohrmann/DSWCI DX-Window/van den Boogert-TWN)

9717.0 *Radio La Plata*, 1621, Ad string "Cooperativa..." "Todos los papas..." "profesores de gran experiencia..." Canned ID with W choir and then "La Voz de la Capital...Radio La Plata, Sucre, Bolivia, en onda media y corta," followed by apparent New Year's greetings message "portavoz de la provincia de Chuquisaca." (2-Jan/Nigro-URU/DSWCI DX-Window/van den Boogert-TWN)

CHINA *China Radio International* via all sites:

0000-0030	Hakka	15400 12065 12015 11685
		9870 7335 7190

0000-0100	Russian	7110 4815	1430-1500	Sinhala	11980 11780 7120
0000-0100	Spanish	11650 9665 7160	1430-1500	Tagalog/EE	9880 6995
0030-0100	Chaozhou	15400 12065 12015 11685	1430-1530	Lao	7360 6590 6010
		9870 9440 6550 6140	1500-1530	Bengali	11825 6995 5220
0030-0100	Portuguese	11515 7435	1500-1530	Nep	9535 7215
0100-0200	Spanish	11650	1500-1530	Persian	11660 9440
0200-0300	Chinese	15435	1500-1600	Chinese	9457 6550
0200-0300	Spanish	11650	1500-1600	English	9785 7405 7160
0300-0400	English	9690	1500-1600	Hindi	11675 9920 7590
0300-0400	Russian	17755 15435 11755	1500-1600	Pashto	11515 7480
0300-0400	Spanish	9560	1500-1600	Russian	7780 7435 7375 4883 4815
0400-0500	English	9730	1500-1600	Vietnamese	9550
0830-0930	Indonesian	17680 15600 15135 8660	1530-1600	Bengali	11825 7335 6995 5220
		6995	1530-1600	Nepali	9535 7215 6590
0900-1000	Chinese	15440 15180 12015 11945	1600-1630	Turkish	11685 9715 7480 6550
		11685 11515 11500 9945	1600-1700	Arabic	15125 13685 9440 7405
		9890 6955 6590 5250			6955
0900-1100	English	17755 15210	1600-1700	English	9565
0930-1030	Malay	17680 15135 6995	1600-1700	Hakka	11825 9900
0930-1530	Japanese	9855 7190	1600-1700	Hindi	11675 9920 6995
1000-1100	Cantonese	15440 11915	1600-1700	Russian	9965 9860 7780 7375 7350
1000-1100	Chinese	12015 11945 11685 6590	1600-1700	Swahili	11600 9457 5250
		5250	1600-1700	Urdu	7590 7160 5220
1000-1100	Russian	9725 7820 7110 5145	1600-1700	Vietnamese	7360 6590 6010
1030-1130	Cambodian	9870 9440 6550	1700-1730	Swahili	15125 11970 5250
1030-1130	Indonesian	15135 11445 6995	1700-1800	Cantonese	9900 7180
1100-1130	Esperanto	9535 7170 6590	1700-1800	English	9745 9570 7405 7150 5220
1100-1200	Cantonese	15440 11945 11685	1700-1800	Russian	9860 9795 9365 7780 7435
1100-1200	Mongolian	5850 5145			7375 7350 6950 6720
1100-1200	Russian	9725 7820 7110	1730-1800	Hausa	15125 11970 9890 7235
1100-1200	Vietnamese	9550 5250	1730-1830	Chinese	9820 9600 7800 7335 7110
1100-1500	Korean	5965			6885 5250
1130-1200	Bu	9880 6550	1800-1830	Hausa	15125 11970 9890 7405
1130-1200	Tagalog/EE	11700 6995			7235 4960
1130-1230	Thai	7360 6590	1800-1830	Hungarian	9860 8870 7385 6150
1200-1230	Tagalog/EE	12110 11700 6995	1800-1830	Persian	9440 7215 6955
1200-1300	Cambodian	9870 9440 6550	1800-1900	Russian	9795 9535 9365 7780 7435
1200-1300	Chinese	15260 11945 11875 11685			7375 7350
1200-1300	English	11980 11675 11660 9715	1800-2000	German	9920 6950 5220
		9565 7385 6955 6950	1830-1900	Bulgarian	9860 7385
1200-1300	Mongolian	5850 5145 4883 4815	1830-1900	Italian	9965 7405 4960
1200-1300	Vietnamese	9550	1830-1900	Persian	9785 9440 7215 6955
1230-1330	Lao	7360 6590	1830-1930	Arabic	15530 15530 13885 13685
1230-1330	Malay	15135 11445 6995			12035 7315 7200
1300-1330	Esperanto	11840 11600	1830-1930	French	9820 7800 7335 7110 6885
1300-1400	Burmese	11780 9880 6550	1900-1930	Albanian	9965 7385
1300-1400	Chinese	15260 11945 11875 11685	1900-1930	Czech	7375
		9440	1900-1930	Portuguese	9535 7180 7040
1300-1400	English	15180 11980 11715 11675	1900-1930	Romanian	9860 7305
		11660	1900-1930	Turkish	9785 9685 7405
1300-1400	Russian	7820 5850 5145 4883 4815	1900-2000	Cantonese	7780 7255
1300-1500	Vietnamese	9550 5250	1900-2000	English	9600 9440 6955
1330-1430	Indonesian	15135 11445 6995	1900-2000	Russian	9795 9365 7435
1330-1430	Thai	7360 6590	1930-2000	Albanian	9965 7405
1400-1430	Sinhalese	11780 7120	1930-2000	Czech	7375 7305
1400-1430	Turkish	9480 6955	1930-2000	Portuguese	15500 11975 7385
1400-1500	Amoy	11685 11650 7335	1930-2000	Romanian	9860 6150
1400-1500	Cambodian	9440 6550	1930-2030	French	9820 7800 7630 7335 7315
1400-1500	English	15125 11825 9700 9535			7110 6885 5250
		7405	2000-2030	Esperanto	9965 7405
1400-1500	Mongolian	4883 4815	2000-2030	Polish	11975 7375 6150 6020
1400-1500	Tamil	11575 9457	2000-2030	Serbo-Croat	9860 9365 7385

2000-2100	Chinese	9685 9600 7660 7435 7185 6955
2000-2100	English	15500 11975 9920 9440 6950 5220
2000-2100	Russian	11915 9795 7255
2030-2100	Bulgarian	9860 6150
2030-2100	Hungarian	9365 6020
2030-2100	Italian	9965 7385
2030-2100	Polish	7405 7375
2030-2130	French	9820 7800 7335 7215 7110 6885 5250
2100-2130	Albanian	6150
2100-2130	English	15500 11975 9920 6950 5220
2100-2130	Italian	9965 9365
2100-2130	Serbo-Croat	9860 7405
2100-2200	Arabic	9685 9440 7260
2100-2300	Spanish	7360 6020
2130-2200	Hungarian	6150
2130-2230	French	15500 11975 9820 7800 7335 7110
2200-2230	Portuguese	7435 6950
2200-2300	English	7170
2230-2300	Chinese	15550 15500 12065 12015 11975 11685 11650 9535 9440 7335 7190 6550 6140
2230-2300	Esperanto	9860 6950
2300-0000	Russian	7110 4815
2300-0000	Spanish	11650 7160
2300-2330	Cantonese	15400 12065 12015 11685 9870 9440 7335 7190 6140
2330-0000	Cantonese	15400 12065 12015 11685 9870 9440 7335 7190 6550 6140
2330-0000	Chinese	11975

(BBCM) BBC Monitoring's CRI sked does not include English to NAm at 0500-0600 on 9560, which is still there via Canada. (Hauser-OK)

4620 *Nei Menggu PBS*, Hohhot, 2320 Plenty of excited talk, music zingers, long string of ad-like sounds starting around 2326; music bed under M with "Nei Menggu guanbo diantai" ID 2330. Oddly enough, best signal was on the south mini-beverage. Greyline reception coming from the south? (8-Jan/Novello-NC)

5935.05 *Xizang PBS*, Lhasa, 1440-1524, Lang: Mandarin, Light classical music with W presenter. Co/ch station, but no heterodyne. News at 1500. Sounded like they had Tibetan LL at 1515. Thanks to a tip from George Maroti in NY, USA I found //5240 kHz and as 4750 kHz is empty right now I guess that this is a frequency move. (10-Jan/Boogert/DSWCI DX-Window/van den Boogert-TWN)

5950 *Xizang PBS*, Lhasa, 2300-2345, Mandarin, W speaker with presumably nx, the lang was definitely not Tibetan, weak signal (21-Dec/Roth/DXW/BC-DX/Bueschel-GER) Reason I'm so sure about this is: I speak Tibetan. All three major dialects, Lhasa, Kham, Amdo. Been hanging out with Tibetans for years. My last job before returning to Germany was

as an English teacher for Tibetan kids in Kathmandu. So I'm 1000% sure. Even though any Chinese pronunciation of Tibetan is atrocious, I'd still recognize it. I'd be interested to know what happened to the Tibetan sce. (Thomas/DXW/BC-DX/Bueschel-GER)

7540nf *CNR 1 2027* //to 7935 with Chinese mx 2030 ID "Zhongyang renmin guangbodiantai" (27-Dec/Liangs-GRC/BC-DX/Bueschel-GER)

9782.08 *Qinghai PBS*, Xining, 0558-0607, Lang: Mandarin, Instrumental music, pips, ID and heavy promotion then for advertising on Qinghai PBS, because they reach every corner of the country and greater Asia too (at least, that's what they claim). Said freq more than 20 times in 4 minutes. 0606 singing. (7-Jan/Boogert/DSWCI DX-Window/van den Boogert-TWN)

9820 *Guangxi Foreign BC Svc* 2255 Big carrier till *2300, when opened with gentle, seductive Oriental theme on chimes and strings. Followed with ID in Vietnamese, "Day la dai phat-thanh quoc teng" (not sure of that last word), first by W, then by M. Another iteration of theme, then W continued with probable news. Strong and clear; must be running considerable power, though nothing audible on reported // 5050. Tnx Tony Jones tip in NJ. (23-Dec/Hill-MA)

CLANDESTINE—AFRICA Nigerian clandestine *Radio Kudirat* is gone. Although they announced at the close of their transmission on December 31 that the closure will be temporary, the pro-democratic developments within and international support for the current Nigerian government are presumed to be the real factor. Most likely, however, the station simply lost its funding. In most cases sponsors cannot and do not perpetually donate money, therefore, Worldview Rights most likely allowed the contract with South Africa to expire without renewal. (Clandestine Radio Watch/Rev. of International Broadcasting/Hauser-OK)

Radio Rainbow, Voice of Peace and Brotherhood (Amharic: Kestedamena rediyo ye selamena yewendimamach dimtse), transmitted via DTK Juulich, Germany:

0100-0200	Amharic 6155 Sa
1000-1100	Amharic 5910 Su
1600-1700	Amharic 11840 Th

(BBCM)

7000 *Sudan Alliance Forces*, 1640-1705 "Sawt Nedal al-Shab al Sudany" with Arabic. Quite strong signals 1640-1705, but CW QRM. Good ID in the clear at 1704. (9-Jan/Fransson/DSWCI DX-Window/van den Boogert-TWN)

CLANDESTINE—ASIA *Voice of the Tigers* (Tamil: Puligalin Kural) broadcasts in support of the separatist Liberation Tigers of Tamil Eelam (LTTE), hostile to the Sri Lankan government. The radio has broadcast locally on FM only for several years. The

current shortwave transmissions, aimed at a wider audience in Sri Lanka, began in December 1998. According to a report on the TamilNet web site, the radio station is based at Mulliyawalai, in an LTTE-controlled area of north eastern Sri Lanka. Broadcasts in English and Sinhalese are planned.

0030-0230 Tamil 7460v

1400-1515 Tamil 7465v

(BBCM)

CLANDESTINE—MIDEAST *Democratic Voice of Iran* has signed off. Per its website, "the invisible hands of global arrogance and colonialism, the founders and supporters of the evil government of the Islamic Republic of Iran, have finally silenced our independent and patriotic voice with their usual invisible methods and mischief." (BBCM)

Radio Tomorrow's Iran (Persian: Radio-ye Iran-e Farda) was first observed by BBC Monitoring on 7th December 1998 with what was announced as a test transmission. Although it has not yet been heard to announce its affiliation, the radio describes itself as "the voice of all of Iran's national and free thinking forces" and says that it supports "the struggle of clerics and religious forces who wish to see the separation of religion and government." It is believed to broadcast via hired transmission facilities in Central Asia.

1800-1830 Persian 5830

(BBCM)

CONGO 6014.9 *RTV Congolaise*, approx. 1800-1900, mostly vernacular talk with strong French accent, a lot of local melodies; weak and//5985. (13-Jan/Timofeyev-RUS)

Rebel-held *Radio Bunia* 3390.0 in African dialect sounding Swahili and music 1610 onwards past 1700. No ID yet although only listed one. I was hearing 5066 upto about late December usually clobbered by CW Ute ID 9MB19. I don't hear 5066 anymore and this one appears. So most probably Bunia. Very regular sounding broadcasts. Soft talks and lots of music. (17-Jan/Goonetilleke-SRI)

CYPRUS Today I got an e-mail from *Radio Bayrak* from Northern Cyprus stating that their shortwave transmitter will soon be on the air. E-mail address: brt@cc.emu.edu.tr (Constantinides/DSWCI DX-Window/van den Boogert-TWN)

EGYPT On a tip from Erik Koie via Wolfgang Buschel, tuned into *Radio Cairo's* English service tonight at 2115-2245 on 9990. The surprise is the modulation is excellent, can't remember when I last heard them so clearly! (12-Jan/Barraclough-UK/British DX Club/Rev. of International Broadcasting/Hauser-OK)

ETHIOPIA *Voice of Oromo Liberation* is sometimes referred to as "SBO" after its title in the Oromo-language, "Sagalee Bilisumma Oromoo." It supports the Oromo Liberation Front and other

groups opposed to the Ethiopian government.

1700-1800 Oromo/ 11725-Germany Su/Th/Fr Amharic

(BBCM)

FINLAND "Due to listener demand," *YLE Radio Finland* has resumed broadcasts to South America—dropped in the early 90s. Finnish airs daily 1130-1200 on 21670 and 0000-0030 on 9815. (Niinistöe-R. Finland/Rev. of International Broadcasting/Hauser-OK)

FRANCE *RFI* has cancelled its English beam to North America, formerly at 1200 on 15530. You still might find it audible on 9805, 11600, 15155, 15195, 15540 or 17575. This means no more English to North America at any time of the day. (Hanton, Hauser et al/Rev. of International Broadcasting/Hauser-OK) [I say we ask them for our Marshall Plan money back; we'll send them Jerry Lewis in return.-AQ]

GUAM Well, I was right...last month's item on *GUAM* was a mixup. Here's correct info on frequency changes of *AWR/KSDA*, Agat:

0200-0400 NF 21770 in Mandarin (Sat/Sun only)

1100-1200 NF 11660 in Mandarin

1100-1500 NF 15725 in Mandarin

1200-1300 NF 11660 in Korean

1300-1400 NF 11660 in Japanese/EE

1400-1500 NF 9385 in Sinhala/EE

1400-1500 NF 11625 in Burmese

1500-1600 NF 9385 in Telugu/Punjabi

1500-1600 NF 11625 in Hindi/EE

1600-1700 NF 11625 in Vietnamese

1600-1800 NF 9385 plus NF 11550 in Arabic

2000-2100 NF 9370 and NF 9515 in Korean

2300-0200 NF 17715 in Mandarin

Also, station is using the following sked for SoAS and NOT as appeared in their web sites:

1230-1300 English 15225

1300-1330 Bengali 15225

1500-1530 Tamil 9355

1500-1530 Telugu 15225

1530-1600 Kannada 15225

1530-1600 Marathi 9355

1600-1700 English 9355

1730-1800 English 9355

(26-Dec/Dasgupta-IND)

ICELAND 7735 Reykjavik 1855 with presumed news, closing at 1930*. (5-Jan/Liangas-GRC)

INDIA *All India Radio*, Itanagar seems to be QSL'ing at the moment. A prepared and stamped f/d card was returned to me rubber stamped and signed by Assistant Station Engineer, K. Morang. Today I received another similar card from AIR Itanagar that I had sent along with a third followup report to them back in June for that same 1997 reception. This one was signed by Station Director, J.J. Jrido (sp?). All of my reports and followups were sent directly to

Itanagar. (30-Dec/Tilbury/DXW/BC-DX/Bueschel-GER)

INDONESIA 3157.2v Unidentified. Dangdut music at 1955. Talk by M at 1958. Very poor. Some non-RRI station operates around 3.1MHz and 3.5MHz due to Ramadan season. Very exciting! (29-Dec/Yamada-JPN/Jembatan DX)

3159v Unidentified. Signed on at 2101 then like reading of Holy Koran. Local pops at 2117. Maybe same station which I picked up on 3163.9kHz on Dec 28. Poor. (29-Dec/Yamada-JPN/Jembatan DX)

3163.9 Unidentified. Reading of Holy Koran at 2057. Islamic music at 2110. Poor. RDK Serang?? (28-Dec/Yamada-JPN/Jembatan DX)

3264.6 **RRI Gorontalo** Signed on at 1815 then IS. Opening music with opening announcement by M at 1819 then reading of Holy Koran. Fair. This is special local early morning broadcast in Ramadan. (29-Dec/Yamada-JPN/Jembatan DX)

3507.4 Unidentified. Dangdut music and M talk at 2007. Islamic religious program was heard at 2049. The signal faded at 2113. Poor. (27-Dec/Yamada-JPN/Jembatan DX)

3534.3 Unidentified. Dangdut music at 2013. short talk by M at 2028. Faded out at 2031. Moved from 3507.4kHz. Poor. (28-Dec/Yamada-JPN/Jembatan DX)

15150.1 **RRI Jakarta**, Cimanggis. "Warta Berita" including national anthem "Indonesia Raya" at 1212 then speech by President Habibie and "Indonesia Raya" again at 1227. Good. (31-Dec/Yamada-JPN/Jembatan DX)

IRAN Voice of the Islamic Republic of Iran (VOIRI) is the external service of the Voice and Vision of the Islamic Republic of Iran (VVIRI), which is also known as Islamic Republic of Iran Broadcasting (IRIB). This schedule is based solely on monitoring observations. Only shortwave frequencies have been confirmed. Frequencies are liable to change, especially on the Arabic service.

0000-0130	Arabic	6145 6120 5995
0030-0130	Bengali	9515 [also rep. on 7285-AQ]
0030-0130	English	9685 9022 6060
0030-0130	Spanish	9650 6175 6010
0130-0230	Arabic	5995
0130-0230	Spanish	9650 6175 6060 6010
0130-0230	Urdu	7130 6190 6005
0230-0330	Pashto	6190 6005
0230-0330	Spanish	6175 6065v
0230-0430	Arabic	9565 7190 7130 5995
0330-0430	Swahili	15610 13605 11750 9650 7260
0430-0530	Arabic	9565 7190 7130
0430-0530	Turkish	7160
0530-0630	Bosnian	15230 13615 9525
0530-0630	Spanish	15260 11790
0530-0930	Arabic	17540 15585 15355 15125 9880 9535

0545-0630	Hausa	21810
0630-0730	French	21810 21770 15260
0630-0730	Italian	17605 15230 15084 9022
0730-0830	German	21770 15084v
0930-1000	Armenia	15260 11705 9615 n
0930-1130	Arabic	15585 15355 15125 13605
1000-1100	Swahili	17570 15560
1100-1230	English	17560 15255v 13605 11875v 11830
1130-1230	Arabic	17540 15585 15355 15125 11745
1200-1300	Italian	15115 15084 13600
1230-1330	Arabic	17570 15585 15355 11745
1230-1330	Malay	17705 15200 13760
1230-1330	Pashto	11875-v 9585 7180
1230-1330	Urdu	11830 11775 9585 9525 7115
1330-1430	Arabic	15355 11995
1330-1430	Chinese	15375 15200 11885v 9625
1400-1500	Russian	11960 11930 9735 9575
1430-1530	Bengali	11875 6185 5995
1430-1530	Urdu	11775v 9525 7150
1430-1700	Arabic	11995 7190
1500-1530	Kazakh	11885 11745 9830 7170
1530-1600	Russian	11745 9880 9740 9585 9575 9525 9022 7260 7230
1530-1630	English	13605 11775v 9780
1530-1730	Urdu	11830
1530-1730	Urdu-z	7340
1600-1730	Turkish	9022 7260 7110
1630-1730	Armenia	7235 6005 n
1630-1830	Azeri	7170
1700-1830	Arabic	9695 7190 6025
1730-1830	Bosnian	11660 9610 7340 7295 6020
1730-1830	German	9022 7260 7215 6160 716
1730-1830	Russian	7300 7200 7115 6035
1730-1830	Swahili	11750 9650
1830-1930	Albanian	11660 9610 7340 7295
1830-1930	French	11900 9535 9022 7260 7215 6160
1930-2000	Italian	11660 7340 7295
1930-2030	English	9022 7260 7215
1930-2030	Russian	9740 7305 7175 6045
1945-2030	Hausa	11715 9605
2030-2130	Arabic	9695 6145
2030-2130	Spanish	9022 7260
2130-2230	Bosnian	7285 7180 6135
2130-2230	English	9725 6165
2130-2330	Arabic	9022 7260 6145 6025 5995
2330-0000	Arabic	9605 6145 6120 6025 5995
2330-0030	Chinese	9670 7215 7130
2330-0030	French	9022 7260 6030

(BBCM)

IRAQ Republic of Iraq Radio main domestic service in Arabic at 0255-2400 is observed on 5935 0255-1500, 3900 1500-2400, 9715 0700-1200; and irregularly on 11785. (BBCM)

ISRAEL New English via *Reshet Bet* scheduled 0030-0035 on 7495 and possibly also 9395 (the lat-

ter a test frequency). (30-Dec/Rosenzweig/Rev. of International Broadcasting/Hauser-OK)

KIRIBATI This morning between 0720-0740z I heard an extremely faint signal on 9810u with program in English language and music which sounded like a Polynesian church choir. From 0730 on the signal mixed with CNR2 (Mandarin service). When I switched from USB to LSB, CNR was still on but the other station was gone. Could that other station have been *Radio Kiribati*? They did have problems with their transmitter last year, but the problem was supposed to have been resolved by the end of the year. Any similar receptions? (date?/Gehrig/DSWCI DX-Window/van den Boogert-TWN)

MALAWI 5993.2 *MBC Radio One*, January 13, 1655-1816*, mostly in Chichewa, many ID's as "MBC Radio One" and "...International Service," 1800 English news and weather—poor to fair past 1640 (again on this freq after some months of silence). (13-Jan/Timofeyev-RUS)

MAURITANIA 4840.4v, *R. Mauritanie*, 2145 possibly the one drifting as high as 4840.8 and as low as 4839.97 over two days' listening (Jan 7 and 8). Programming was heavy on the Qur'an, talks with a live audience, mentions of "muslim" and "Ramadan." Occasional bits of Saharan-style acoustic guitar. Not // Mali on 4783v. On past 0015 or so both nights. (7-Jan/Novello-NC)

MOLDOVA Fax from *R. Moldova International* asks for listener support against increasing government moves toward closing down the station. To help keep RMI on the air so that world public opinion will not be deprived of first-hand news about Moldova, please write to:

Mr. Petru Lucinschi
President of the Republic of Moldova
Ave. Stefan Cel mare,
154 Chisinau, Republic of Moldova
Ministry of External Affairs
31 of August St.,
80 Chisinau, Republic of Moldova

To contact RMI itself:

Radio Moldova Internacional
Str. Miorita 1
277028 Chisinau, Republic of Moldova
Tel.: 3732 723379 / 723385 Fax.: 3732 723307; Tel-
ex: 163210 (Moraru-RMI/Margenet-ARG/Rev. of International Broadcasting/Hauser-OK)

[Heh. Thank god this info was faxed, because you'd never have understood it had they simply aired it on one of their totally-unintelligible shortwave frequencies. Considering how ineffective this station has been, I can't think of a convincing reason the Moldovan government SHOULD keep it going.—AQ]

MONGOLIA According to letter received from stn *Radio Khekh Tangar* (Radio Blue Sky) operates 0100-0700, 0900-1500 on 4850 and 100.9 FM. This

stn is the 2nd channel of Radio Mongolia. Address is the same as Mongolian Radio and TV. Mainly carries musical and entertaining progrs. (30-Dec/Miroshnikov-RUS/BC-DX/Bueschel-GER)

MYANMAR 5986.0, *Myanmar TV & R Dept.*, Yangon, 1340-1453, Bamar talk and folk songs with xylophone-like music, 1430 English ID and oldies. After 30 years of searching for this, I finally managed to hear their English service and hope they will QSL. Until recently the frequency has been covered by international broadcasters, and R Tirana lived up to this by carrier sign on at 1453 for broadcast at 1500 on 5985. (1-Jan/Petersen/DSWCI DX-Window/van den Boogert-TWN)

NEPAL *Radio Nepal* is back on its winter freq of 3229.8 kHz like previous years for the winter. This has been on not more than a week now. It would be interesting to know when winter starts in Nepal! 7165 is now missing. Yet to check whether the daytime broadcast is still on 7165. 5005 the all season freq still prevails. This winter freq of 3229.8 is weak and appears to be from the 5kW standby transmitter in Jawalakhel rather than Kumaltar which is listed for 100kW. Going by strength it can't be anywhere near 100 kW. Need to check this with the station. (16-Jan/Goonetilleke-SRI)

NICARAGUA Per verie letter from *Radio Miskut*-5770, station director Evaristo Mercado Perez says that sometime after the first of the year they'll be getting their new Henry 3 kW transmitter on the air on this frequency, with (he hopes) better reception as the result. (No specific on air date, but he hopes sometime in January). (Stewart-MO/Rev. of International Broadcasting/Hauser-OK)

NORTHERN MARIANA ISLANDS New IRB site on Tinian is on the air per sked:

0800-1000	11995 (VOA EE), 13650 (VOA EE)
1000-1100	11995 (VOA CC), 13650 (VOA CC)
1100-1200	9860 (RFA Lao), 13790 (RFA Lao)
1200-1300	11825 (VOA CC), 13790 (RFA Khmer)
1300-1400	11825 (VOA CC), 15250 (VOA CC)
1400-1500	15260 (RFA Cantonese), 15470 (RFA VT)
1500-1600	13735 (RFA Mandarin), 15215 (RFA Burmese)
1600-1800	11850 (RFA Mandarin)
1600-1900	13735 (RFA Mandarin)
1800-2000	11790 (RFA Mandarin)
1900-2000	11740 (RFA Mandarin)

Plant sports 3x500kW transmitters and curtains aimed at Asia. Note that the station will not be operating 2000-0800 while construction work continues. (4-Jan/Ferguson-VOA/Rev. of International Broadcasting/Hauser-OK)

NORWAY Change to *Radio Norway International* and *Radio Denmark* from Jan 1st: 0800-1000 13800 changed to 15735. (28-Dec/Grimdalen-R. Norway/BC-DX/Bueschel-GER)

PAKISTAN Monitoring updates of *R. Pakistan* morning service: Hindi 9740 0100-0130 (another 41mb channel is announced), Bengali 0130-0200 & English 0200-0230 11930 15455 (heard 6th Urdu at 0200 instead of English—noted English again on 7th,8th). (Dasgupta-IND)

PERU 4499.74 *Radio Moderna*, 2325-0040, Andean station with vocals mixed with Acadian-sounding fiddling, 2358 comunicado program, persistent QRM from SSB net on 4500. Still on, but disappearing into the noise, when I abandoned ship at 0040. (30-Dec/Novello-NC)

4534.14 *Radio Horizonte*, Chiclayo, 0055-0127*, Andean harmony flutes and percussion, comunicados, shouted canned ID 0127 and off. First time in a while for this one. (4-Jan/Novello-NC)

5018.59 *R. Horizonte*, Chachapoyas, 1120-1145 beautiful Andean guitar mx and station slogan, UTC-5 TCs, and greetings to provincial audience. fair signal. (15-Jan/TIN- JPN/Relampago DX)

5637.2 *Radio Peru*, San Ignacio, 0054-0136, religious program, then music and comunicados, time checks, and ID "en Radio Peru...toda la musica" (6-Jan/Eramo/DSWCI DX-Window/van den Boogert-TWN)

6188.04 *Radio Oriente*, Yurimaguas, 1055-1112 tentative, Spanish announcer, Latin and American dance music, ads, time checks, program named "El Ritmo de la Manana," mentions of Yurimaguas, but no ID's. (11-Jan/Mohrmann/DSWCI DX-Window/van den Boogert-TWN)

7003.4 *La Voz de las Huarinjas*, 2338-2356, music, comments, time checks "cinco minutos para las siete de la noche" and ID "Radio La Voz de las Huarinjas con su bonito programa..." (2-Jan/Eramo/DSWCI DX-Window/van den Boogert-TWN)

I have checked that Peru is UTC-5, so correct sked for 6617.8 *R. Super Sensacion*, is 1000-1400 and 2200-0200. (15-Jan/Nigro-URU)

ROMANIA *Radio Romania International* B98 schedule:

0000-0100	Spanish	9665 11810 11830 15250
0000-0200	Romanian	9510 11940
0100-0200	Portuguese	9510 11830 11940 15250
0200-0300	English	7195 9510 9570 9690
		11830 11940
0300-0400	Spanish	9570 11830
0400-0500	English	5990 9570 15335 17735
0500-0530	Bulgarian	5955
0500-0600	French	5965 9590
0500-0600	Romanian	15335 17805
0530-0600	Ukrainian	6085
0600-0615	Romanian	7105 9510 9625 11775
0600-0630	Hungarian	6055
0600-0700	English	6095 9530
0615-0628	French	7105 9510 9625 17775
0628-0641	German	7105 9510 9625 11775
0641-0655	English	7105 9510 9625 11775

0700-0800	Arabic	15250 15380 17735
		17775 17790
0700-0800	English	17790 21480
0900-1000	Romanian	15380 17735 17745
		17790 21480 Su
1000-1100	Romanian	15250 15380 17735
		17745 17790 Su
1100-1200	French	15250 17745 17790
		21480
1100-1200	Romanian	9665 15390 17775
1200-1300	German	15250 17745 (announced 17775!)
1200-1300	Romanian	9665 15390 17775
		17790 21470
1300-1400	English	15335 15390 17745
		17805
1300-1400	Russian	9570 11735 11775
1400-1430	Italian	11810
1400-1500	Arabic	15380 17735 17745
		17790
1430-1500	Persian	17780 21480
1500-1530	Italian	11810
1500-1600	French	15390 17790 17805
		21480
1500-1600	Russian	7105 9570
1530-1600	Turkish	7175
1600-1630	Ukrainian	5955
1600-1700	German	6175 7195 9690
1600-1700	Romanian	11740 15250
1630-1700	Bulgarian	5955
1700-1730	Serbo-Croat	6175
1700-1800	English	9625 9690 11740 15365
1700-1900	Romanian	6135 7195
1730-1800	Greek	6175
1800-1900	Spanish	9625 11810 15390
1830-1900	Turkish	5955
1900-1930	Serbo-Croat	6090
1900-2000	German	5955 6040 7145 7195
1900-2000	Russian	5965 6085
1930-2000	Greek	6140
2000-2030	Italian	7245
2000-2030	Persian	9570 11740
2000-2100	French	5990 7195 9690
2030-2100	Hungarian	5955 6030
2100-2200	English	5955 5990 7195 7215
2100-2200	Romanian	7175 9665
2200-2300	Portuguese	9570 9665 11790 11830
2200-2300	Spanish	11940 15365
2300-0000	English	9570 11830
2300-0000	Romanian	11910 15365

(4-Dec/Visser-BEL + Pankov-BUL/BC-DX/Bueschel-GER)

RUSSIA 7330, 7310, and 9470 continue to carry *R. Mayak* programs. Also noted on 6035 and 7330 at 1530. Arkhangelsk and Kovytkino continues with their usual business (Arkhangelsk two transmitters 0300-0600 5950, 0300-1600 7330, 0630-1500 7310, 1530-1800 5990, 1630-2300 15215; Kovytkino one transmitter 0300-0500 5900, 0530-1300 9470, 1330-2200 6035). These transmitters could stay on air just because their heat is needed for the build-

ings of the respective stations. (4-Jan/Ludwig-GER/Rev. of International Broadcasting/Hauser-OK)4032 Mayak, 1525 cinema news, music, latest news at 1530. Probably this transmitter somewhere in Siberia or Far East because it heard nearly the whole day here in Irkutsk. (2-Jan/Miroshnikov-RUS/DSWCI DX-Window/van den Boogert-TWN)

RWANDA New 21785 Kigali-RRW *Deutsche Welle* in English 1100-1150, and French at 1200-1250, seemingly replacing 15370 [where RL Lampetheim in Russian appears now],//12015 Sines-POR, 15410 Kigali, 17780 Wertachtal, 17800 Kigali. Remarkable time delay on 15410 17800 and 21785 against remaining outlets. (26-Dec/Bueschel/BC-DX/Bueschel-GER)

SAUDI ARABIA Broadcasting Service of the Kingdom of Saudi Arabia (BSKSA) foreign language sked, compiled entirely from monitoring observations:

0400-0500	Somali	15165
0400-0600	Turkish	15275
0500-0600	Swahili	17660
0800-1000	French	15335
1000-1200	Indonesian	21670
1200-1400	Urdu	15345
1400-1500	Bengali	15345
1400-1600	French	15170
1400-1600	Persian	11745
1500-1600	Turkmen	9730
1600-1700	Bambara	17760

(BBCM)

SUDAN 5500nf *Radio Omdurman* (p) 1705 -1805 M and W on news and commentaries in Sudanese/Arabic from 1705 till 1730 with local music intervals. At 1733 program "Anadi Kehen" (an interview), 1745 music, 1800 news. Many ments Sudan. (13-Jan/Liangas-GRC)

UKRAINE I checked *Radio Ukraine International* Sunday 10/1, European service in English 2200-2300 was on 4820 5905 6020 7205 and 7420. At the start of the DX Club program at 2245 it was announced that the high power Mykolayiv transmitter was off the air though no reason was given. (12-Jan/Barraclough-UK/Rev. of International Broadcasting/Hauser-OK)

UNITED KINGDOM BBC plans to cut World Service broadcasts, newspaper reports

By DAVID LJUNGGREN LONDON (January 16, 1999)

The British Broadcasting Corporation plans next month to announce large cuts in its World Service, including closing its German and Czech operations, the Sunday newspaper the *Observer* said.

It said the cuts were part of a three-year plan to slash 21 million pounds (\$35 million) from its budget. Broadcasts in Hungarian, Russian, Arabic and Thai are also be slashed and 100 jobs will go.

The newspaper said it had obtained secret BBC documents detailing proposals drawn up by World Service chief executive Mark Byford to cover a shortfall in funding from the Foreign Office, which finances the service.

Although the BBC has successfully fought off previous government attempts to trim the World Service, this is the first time the BBC has itself suggested budget cuts. (Reuters)

USA WGTG now using 3270U from 0300-0700. (Hauser-OK)[and Namibia just got 50% harder to hear. Thanks, Dave Frantz!-AQ]

WWBS, 11900, Macon at closing 0200* Sun Jan 3 had Joanne Josey identifying herself as hostess for the evening, and admitting they "had some problems with interference in the neighborhood." When resolved they hope to expand to more nights than just Saturday and Sunday. (Hauser-OK)

World Harvest Radio:

Angel 1 <i>WHRI</i> South Bend, Indiana		
0000-1000	English/Spanish	7315
1000-1300	English/Spanish	9495
1300-1800	English/Spanish	15105
1800-0000	English/Spanish	9495
Angel 2 <i>WHRI</i> South Bend, Indiana		
0000-0400	English	5745
0400-1000	English	5755
1000-1600	English	6040
1600-2100	English	13760
2100-0000	English	5755
Angel 3 <i>KWHR</i> Hawaii		
0000-0400	English	17510
0400-0800	English	17780
0800-2000	English	9930
2000-2200	English	15405
2200-0000	English	17510
Angel 4 <i>KWHR</i> Hawaii		
0700-1600	English	11565
Angel 5 <i>WHRA</i> Greenbush, Maine		
0000-0200	English	7395
0200-0500	English	7385
0500-0800	English	7435
1800-2000	English	17655
2000-2200	English	15460
2200-0000	English	13760

(BBCM)

Adventist World Radio complete sked from all relays:

0000-0300	Chin	17645a
0000-0200	Chinese	17715a
0000-0400	Spanish	9725c
0030-0100	Karen	17645a
0200-0400	Chinese	21770a Sa/Su
0200-0230	Punjabi	7235r
0230-0300	French	3215t
0230-0300	Hindi	7235r
0300-0330	Malagasy	3215t
0300-0330	Urdu	9645r
0330-0400	Persian	9645r

0330-0400	Somali	9835m	1600-1630	Urdu	9420r
0400-0500	Bulgarian	5840j	1600-1700	Vietnamese	11625a
0500-0700	Arabic	11610r	1630-1700	Kazakh	9475j Su/We
0500-0530	English	6100m 5960m	1630-1700	Kyrgyz	9475j Mo/Th
0500-0530	Turkish	5890j	1630-1700	Uzbek	9475j Tu/Fr
0630-0700	French	7260f	1630-1700	Russian	9475j Sa
0700-0800	Arabic	12080j 7260f	1630-1700	Persian	9420r
0800-0900	Arabic	12080j	1630-1700	Somali	15620m
0800-0900	Italian	7230j/f	1700-1800	Bulgarian	5890j
0900-0930	French	12080j	1700-1730	French	3215t
0900-0930	German	7230f	1700-1730	Persian	9355a
0930-1000	English	7230f	1700-1730	Swahili	12130m
1000-1200	Spanish	13750c 7375c 6150c 5030c Sa/Su	1700-1800	Tagalog	11550a
1000-1100	Arabic	17610f	1730-1800	English	12130m 9355a
1000-1030	Cantonese	11980a	1800-1900	Armenian	9475j Su/Tu/Th
1000-1100	Chinese	13720a	1800-2000	Arabic	9445r
1000-1030	English	11660a	1800-1830	English	6100m 5960m
1000-1030	Russian	11795a	1800-1900	Romanian	5840j
1000-1300	Spanish	9725c	2000-2030	French	9640j 9475m
1030-1100	English	11795a 11660a	2000-2100	Korean	9515a 9370a
1030-1100	Uighur	11980a Sa/Su	2030-2100	English	9745m 9640j
1030-1100	Cantonese	11980a	2100-2300	Arabic	5890j
1030-1200	Hakka	11980a	2100-2200	Chinese	9370a
1100-1200	Chinese	15725a 11660a	2100-2130	Japanese	15610a
1100-1130	Indonesian	13720a	2100-2130	Turkish	9470j
1100-1200	Italian	7230f	2130-2200	Dyula	9640j
1100-1130	Minnan	11980a	2130-2200	English	15610a
1130-1200	Javanese	13720a	2130-2200	Turkish	7105f
1200-1500	Chinese	15725a	2200-2300	Chinese	15610a 11785a
1200-1230	German	7230f	2200-2230	Indonesian	15225a
1200-1300	Korean	11660a	2200-2300	Vietnamese	11775a
1200-1230	Tagalog	15225a	2230-2300	Javanese	15225a
1200-1300	Vietnamese	11980a	2300-0000	Chinese	15610a 11785a
1230-1300	English	15225a 7230f	2300-2330	Chinese	17645a
1300-1600	Spanish	9725c Su	2300-2330	French	5890j
1300-1330	Bengali	15225a	2330-0000	Cantonese	17645am-oFr
1300-1400	Chinese	11980a	2330-0000	Uighur	17645a Sa/Su
1300-1330	French	11700f	a=Agat (Guam)		
1300-1330	Japanese	11660a	c=Cahuita (Costa Rica)		
1330-1430	Arabic	11700f	f=Forli (Italy)		
1330-1400	English	11660a	g=Guatemala City (Guatemala)		
1400-1500	Burmese	11625a	j=Jülich (Germany)		
1400-1500	Chinese	15225a	m=Meyerton (RSA)		
1400-1430	Sinhalese	11980a	r=Rimavska Sobota (Slovakia)		
1430-1500	English	11980a	t=Talatay/Volondry (Madagascar)		
1430-1500	Persian	1314y	tb=Tbilisi (Georgia)		
1500-1600	Arabic	1314y	y=Yerevan (Armenia)		
1500-1530	Hindi	11625a	(AWR/BBCM)		
1500-1530	Malayalam	13720a	VIETNAM <i>Voice of Vietnam</i> reported new freq		
1500-1530	Punjabi	13670r	7145 seems to replace all on ex-12020. Heard in		
1500-1530	Tamil	15225a	French at 1300, 1830, 1930 and 2100. (21-Dec/ Aubier-FRA/BC-DX/Bueschel-GER) Observed on new		
1500-1530	Telegu	11980a	15110 *0900-1127*. 0900 Chinese, 0930 Malay,		
1530-1600	English	11625a	1000 English, 1030 Indonesian, 1100 Spanish, all //		
1530-1600	Hindi	13670r	12020. From 1130 they use 9840 and 12020; from		
1530-1600	Kannada	15225a	1300, 7145 and 9840. (2-Jan/Miroshnikov-RUS/Rev.		
1530-1600	Malagasy	3215t	of International Broadcasting/Hauser-OK)		
1530-1600	Marathi	15225a	YEMEN 6135 R. <i>Yemen</i> , approx. 1800-1900, Ara- bic; good (English on 9780 only at this time). (13- Jan/Timofeyev-RUS)		
1530-1600	Punjabi	13720a			
1600-1800	Arabic	9385a			
1600-1700	English	11980a			

Pirate Radio Report

Chris Lobdell
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Stoneham, MA 02180-0146
Internet: clobdell@mediaone.net

Welcome to the February 1999 edition of **THE PIRATE RADIO REPORT**. This month we have a first hand report of a visit by the FCC from Tommy Pickles of *Radio Halloween* plus some more of your logs.

My FCC Visit by Tommy Pickles

In case you don't know who I am, I'm Tommy Pickles, the owner/operator of short-wave pirate station *Radio Hallowe'en*. I've been active the past few Halloweens, playing scary sound effects, stories about haunted houses, etc. The usual Halloween stuff.

As a pirate, one always has to come to grips with the fact, that "the knock" could happen, but as one who likes to practice the art of denial I would always think to myself, "na, it won't happen to me. It'll be some other poor pirate op who gets it".

This year, all was going according to plan. The show was recorded, edited, and put on tape.

In order to test the long dormant transmitter, I played the show a couple of days before Halloween. This was probably a fatal mistake as it allowed the FCC to use their long distance monitoring equipment to get a fix on my location.

Then on the Friday before Halloween, the show was aired. Everything went well. The equipment was powered down, the pizza man came with the extra cheese and pepperoni. About 20 minutes later my son said there were a few men at the door. "Probably some local political candidates looking for support" I thought to myself.

I came to the door and one gentlemen handed me his business card and as he did he exclaimed:

"We enjoyed your Radio Halloween show". I looked at him dumbfounded then checked his card. It was an electronics engineer from the local field office of the FCC. Radio

Halloween had been busted! He asked if I was a ham and I said no and asked to inspect the equipment which I refused since they had no search warrant. He gave me a warning notice of violation which was followed by a formal one received by registered mail. Fortunately no fines assessed. To the best of our knowledge, we were NOT interfering with any other legal transmissions. Anyway, after telling us what we were doing was illegal, they left.

Radio Hallowe'en is no more. The transmitter has been sold and the studio dismantled.

[Thanks Tommy for the interesting story.]

Loggings...Keep 'Em Coming!

RADIO COCHIGUEZ, a pirate originating in South America was logged on January 2nd at 2300 UTC on 6949.5 kHz USB mode by Fred Kohlbrenner in PA. They were playing Latin American music with station IDs in English and Spanish. [Kohlbrenner-PA]

RBCN/RADIO BOB'S COMMUNICATIONS NETWORK, a Georgian pirate returned to the air after a few year's absence. Bill Wilkins of MO heard them at 0046 sign on January 4th with parodies and mx from the Simpsons TV show. Their maildrop is Box 24, Lula, GA 30554. [Wilkins-CO]

WACK RADIO was heard by Rich D'Angelo in PA. They were logged at 2155 on January 2nd. Many IDs were given as well as parody Ads for the "Destitute Ken Doll". You can leave reports at a toll free # 1-800-959-8177. [D'Angelo-PA]

That's it for this month! Don't forget to make your plans to attend *Winterfest '99* in Kulpsville, PA in March now! There's always a bunch of pirate fans attending! See the info on the last page of this Journal. Your editor plans to be there.

Happy Pirate DX!



QSL Report

Sam Barto
47 Prospect Place
Bristol, CT 06010



ALASKA: KNLS 7365 f/d "Alaska Wildlife" cd. w/ newsltr. in 7 wks. for ms.(Loudell).

ALBANIA: Trans World Radio 11635 via Cerrick f/d cd. w/ site in 15 ds. for an E-mail rpt. (Rigas-IL). 7385 via Shijak f/d cd. w/ site in 15 ds. for an E-mail rpt. (Rigas-IL).

ANTIGUA: BBC 17840 f/d ltr. on Merlin ltr. head in 2 wks. for 2 IRCs. v/s Hild Myklebust, Scheduling and Frequency Management Team.(Wilkins-MO).

ARGENTINA (Pirates): Radio Blandenque 6980 * via Radio Cochiquaz f/d cd. in 1 yr. for an E-mail rpt. 100 watts. Original reports were never rcvd. due to theft at the P.O. Maildrop has been changed to Chile. v/s * Raul Gonzalez.(Maroti-NY). Radio Marabu 6980 via Radio Cochiquaz cd. w/ bulletin and station info. in 105 ds. for 2 IRCs. Addr: P.O. Box 1166, D-49187 Belm, Germany.(Eramo-ARG). Radio Titanic International 6980 via Radio Cochiquaz cd. w/ stickers, magazine, postcards and station info. in 40 ds. for 2 IRCs. v/s Mark Tim. I sent along a taped rpt. w/ 2 IRCs. Addr: Postfach 220342, D-42373 Wuppertal, Germany. (Eramo). Star Club Radio 6980 via Radio Cochiquaz cd. w/ station info.,

ltr. and postcards in 145 ds. for 2 IRCs. Addr

- * as above.(Eramo). FLARS Free Latin American Radio Station 6979.9 via Radio Cochiquaz cd. in 332 ds. for 2 IRCs. after several f/up rpts.
- * (Eramo). Dark Pampa Radio 6980 via Radio Cochiquaz cd. in 39 ds. for 2 IRCs. v/s Damin Funes Torres. Addr: Casilla de Correo 5251, 1000

ANNIVERSARY NOTE: PLAY-DX is celebrating "23 Years of Free Radio in Italy" along with the "1000 Issue of PLAY-DX". A copy of the bulleting and the pennant can be obtained by writing to Dario Monferini, Via Davanzati 8, 20158 Milano, Italy. Please enclose 3 IRCs or US \$3.00....Sam.

Buenos Aires, Argentina.(Eramo-ARG).

ARMENIA: Voice of Armenia 9965 f/d cd. w/ ltr and schedule in 315 ds.(Eramo). f/d light green cd. in 158 ds. w/ personal ltr. and schedule.(Humenyk-ONT). Radio Free Asia 11510 via Kamo p/d ltr. in 3 mo. for 97 reception.(Barto) 17535 p/d ltr. in 3 mo. (Barto).

ASIATIC RUSSIA: Trans World

Radio 12035 via Irkutsk f/d cd. in 7 wks. (Barto-CT).

AUSTRALIA: Radio Australia 6020 via Branndon f/d "Studio" cd. w/ sticker and sked. in 7 wks.(Loudell-DE).



21725, 17750, 17715, 15510 and 15240 f/d
"ABC Southbank Centre" cd. w/ calendar &
schedule in 2 mo. (Barto-CT).

AUSTRIA: Radio Austria Inter-
national 9655 f/d ltr. w/
schedule in 15 ds. for
\$1.00. (Clapper-NY).

BELARUS: Radio Minsk 11670 f/d cd.
w/ personal ltr. and stickers in 46 ds.
(Neal-TX). 11960 f/d "Independence Square"
cd. w/ personal ltr., sticker and schedule
in 59 ds. v/s Irina Polozhentseva. (Delmage).

Belorussian Radio One 7210 f/d "Castle" cd.
in 2 mo. w/ XMAS cd. and stickers. (Barto-CT).

BOLIVIA: Radio Santa Cruz 6135 f/d ltr. w/ a beau-
tiful station pennant in 54 ds. for a SP rpt.,
tape and \$1.00. v/s Maria Yolanda Marco, Secre-
taria. (Stewart-MO).

BONAIRE: Deutsche Welle 11750 f/d "Osterloog 1953 -
* Nauen 1998 Antennae" cd. in 1 mo. (Loudell-DE). **Radio**
Vlaanderen International 13670 f/d cd. w/ site in 12
ds. for an E-mail rpt. (Delmage).



VERIFICATION SIGNERS: Radio
Santa Cruz 6135 Addr: Mario
Flores esquina Saucedo Sevilla.
Santa Cruz de la Sierra, Depto.
de Santa Cruz, Bolivia. **Zambia**
National Broadcasting Service
6265 Patrick Nkula. Addr: P.O. Box
50015, Lusaka. **Radio Difusora Nac-**
ional de Colombia 4955 Athala Morris,
Directora. **Polish Radio** 5840 via **Deu-**
tech Welle (Julich) Rafal Kiepuszew-
ski, Editor. Addr: P.O. Box 46, PL-00-
977 Warsaw, Poland. **Super Radio Alvor-**
ada 2460 Addr: Avenida Ceara 2150, Rio
Branco, 69900-460 Acre...via PLAY DX.

BRASIL: Radio Nacional do Brasil 15445 f/d
cd. w/ decal in 79 ds. v/s Gary Einstoss.
(Borokowski-NY). **Radio Difusora de Lon-**
drina 4815 p/d "Londrina Aerial View"
cd. in 1 mo. for a PT rpt. and \$1.00.
(Loudell-DE)

CANADA: Radio Can-
ada International
11865 and 9755 f/d "125th Anniversary RCMP"

NOTES: Al Loudell wishes everyone the best in
the New Year. Thanks for the address...Sam.
Jim Fedor checks in from Wells, NV. He says
that in order to get QSLs you have to send
out reports. Good logic Jim. He says that if
anyone is in the area to stop in. There are
no museums in town but they have 2 legal cat
houses. I would also like to thank the dozen
or so members who sent along Christmas cards
and holiday greetings...Sam.

cd. in 16 ds. w/ sticker and pennant. (Brou-
illette-IL). **CKZU** 6160 p/d blue "CRC Cen-
tre" cd. in 7 ds. for a FAXed rpt. (Neal-TX)
CHILE: Radio Voz Cristiana 21550 f/d cd. in 21
ds. Addr: A.P. 2889, Miami, FL 33144. (Eramo)
same in 2 wks. (Delmage). f/d green cd. (Fedor).
21549.9 f/d cd. in 7 mo. after 2 f/up rpts. (Palm-
ersheim-WA). 15375 f/d "Logo" cd. in 7 wks. (Loudell).



via Andrea 24mid

50
Aniversario

radio
cadena
habana

La frecuencia popular



15374.9 f/d cd. in 2 mo. (Barto). 11690 f/d cd. in 2½ mo. (Barto).

CHINA, PEOPLES REP. OF: China Radio International 15500 and 11975 f/d "Tiger" cd. w/ stickers and schedule in 7 wks. (Barto). 11675 f/d "Terra Cotta Warriors" cd. w/ literature and stickers in 3 wks. (Loudell). 11515, 9440 and 9685 f/d "Tiger" cd. in 2 mo. w/ schedule. (Barto). 9965 and 7385 f/d "Huangguoshu Waterfall at Guizhou" cd. in 9 wks. (Barto). 11600 and 11840 f/d cd. in 6 wks. (Barto). **CPBS** 12040, 11800, 9290, 7504, 7330 and 6840 f/d "Tiger" cd. w/ schedule in 2 mo. (Barto). **Radio Exterior de Espana** 11910 via Xian p/d ltr. in 2 mo. v/s Pilar Salvador M., Relaciones con la Audiencia RFE. (Barto). **Yunnan Minority Language PBS Station** 6937 f/d "Tiger" cd. w/ sticker in 3 wks. (Loudell-DE).

COSTA RICA: Radio For Peace International 6980 cd. in 3 mo. (Barto). **United Nations Radio** 6980 via **RFPI**

f/d "UNR" cd. in 1½ mo. (Barto). **Radio**

Exterior de Espana 9630 and 11815

p/d ltr. in 2 mo. (Barto). **AWR**

Adventist World Radio

6975 via **RFPI** f/d cd.

for a rpt. of the

"Wavescan Program" in

25 ds. for 2 ms. Also

rcvd. OSL stamp, stickers,

VERIFICATION SIGNERS: Radio Car-

oline 15200 via **Merlin Network**

One John Knight. Addr: 148 Gra-

nge Road, Ramsgate, Kent CT11 9PR,

England. **Merlin Network One** 9645

Addr: P.O. Box 1, London WC2A 2ES,

England. **Radio Belarus Hrodna** 7140

Addr: Ul. Krasnaja 4, BLR-220807 Minsk.

Radio Itatiaia 5970 Claudio Carriero.

Radio Cultura Sao Paulo 17815 Valvenio Mar-

tins. **Radio Copocabana** 5015 Aildo Rodrigues

Ferreira. **Radio Educacao Rural** 3385 Tomas Sch-

wamborn. Addr: Praca Santa Teresa 283, Tefe, AM.

Radio Clube Paranaense 6045.5 Vicente Mickosz,

Superintendente....via **PLAY DX**.....Sam.

postcards and newsltr. (Wilkins-MO).

CUBA: Radio Habana Cuba 9820 f/d "Club DX" cd. in 85

ds. w/ personal ltr. (Humenyk-ONT).

CYPRUS: Cyprus Broadcasting Corporation 9760 f/d "Broad-

casting Compound" cd. in 221 ds. for 2 IRCs. This was

71 ds. after a f/up rpt. (Brouillette-IL). **BBC** 21470

f/d ltr. via London in 2 wks. for \$1.00. (Myers-WA).

CZECH REPUBLIC: Radio Praha 6200 via **Lytomysl** f/d "Aero 50

car 1936 Circula" cd. in 62 ds. w/ schedule and stickers.

(Humenyk-ONT). 17845 f/d cd. in 18 ds. Also rcvd. schedule,

sticker and bookmark. (Klinck-NY).

ECUADOR: HCJB 9745, 12015 and 17785 f/d cd. w/ sticker and

schedule in 41 ds. v/s John Beck. (Humenyk). 9745 f/d cd. in

21 ds. for \$1.00. (Clapper-NY). f/d "Green Honeycreeper Bird"

cd. w/ schedule in 2 mo. for US ms. (Loudell). 12015 same cd.

in 56 ds. for 2 IRCs. Sticker and schedule rcvd. (Brouillette).

ENGLAND: Sunrise Radio 5850 f/d ltr. in 18 ds. for \$1.00. v/s

* Somaira Sadeghi. Addr: Sunrise Radio Limited, Sunrise House,

Sunrise Road, Southall, Middlesex, UB2 4AU, England. (Bartlett-PA)

via Herkimer

via John Herkimer

Orders del Caribe

840 Kcs. 97 Mcs.

Primer Concurso

Santa Maria Colombia

Cond. 31

Radio Carline

VOICE OF INDONESIA
VERIFICATION CARD

Dear **MASAO HOSoya**

This is to verify your reported date **24-1-1999**

on our **JAPANESE** language broadcast
on a frequency of **9525** kHz.

Thanks for listening

LANGUAGE	GMT/UTC	W.T.	FREQUENCY (kHz)
ENGLISH I	01:00-02:00	08:00-09:00	9525 -
ENGLISH II	08:00-09:00	15:00-16:00	9525 - 11785
ENGLISH III	20:00-21:00	03:00-04:00	9525 - 15150
INDONESIAN I	02:00-03:00	09:00-10:00	9525 - 11785
INDONESIAN II	12:00-13:00	19:00-20:00	9525 - 11785
A R A B I C	03:00-04:00	10:00-11:00	9525 - 11785
MALAYSIAN	09:00-10:00	16:00-17:00	9525 - 11785
MANDARIN	10:00-11:00	17:00-18:00	9525 - 11785
THAI	11:00-11:30	18:00-18:30	9525 - 11785
JAPANESE	11:30-12:00	18:30-19:00	9525 - 11785
SPANISH I	17:30-18:00	00:30-01:00	9525 - 15150
SPANISH II	00:30-01:00	07:30-08:00	9525 -
GERMAN	18:00-19:00	01:00-02:00	9525 - 15150
FRENCH	19:00-20:00	02:00-03:00	9525 - 15150

* **Radio Free Iraq** 9540 via **Woofferton** f/d form ltr. in 27 ds. w/ **RFE/RL** schedule. v/s David Walcutt. (Palmersheim-WA).

ERITREA: Voice of the Broad Masses of Eritrea 7175 f/d cd. in 36 ds. for \$1.00. v/s Mehreteab Tesfagiorgis. (Raymond-NH). f/d cd. in 38 ds. for a taped rpt. and \$1.00. (Stewart-MO). f/d cd. w/ schedule and a personal note in 6 wks. for 1 IRC. (Tilbury). f/d cd. in 1 mo. for \$1.00. (Myers-VA). f/d white cd. w/ official seal in 1 mo. for \$1.00. (Loudell-DE).

EUROPEAN PIRATE: Radio Waves International 6965 via **Andino Relay Service**

cd. in 2 mo. for 2 IRCs. Addr: B.P. 130, 92504 Rueil CEDEX, France. v/s Philippe Bertrand. This was after a f/up rpt. (Eramo-ARG)...Latin relay?

FRENCH GUIANA: China Radio International 9730 f/d cd. in 22 ds. for 1 IRC. (Raymond).

GABON: Radio Japan 9515 via **Moyabi** f/d "Early Winter at Mount Fuji" cd. w/ calendar and schedule in 1 mo. v/s Y. Fushimi. (Humenyk).

GERMANY: Radio Canada International 7200 via **Wertachtal** f/d "RCMP" cd. w/ pennant and

VERIFICATION SIGNERS: Hrvatska Radio 9520 Z. Mazuranic. Addr: Stjepana Radica 3, HR-1000 Zagreb. **Radio El Buen Pastor** 4815 Juana Guaman, Secretaria. **Radio Luz y Vida** 4851 Hermana Maria Jimenez. **Radio Slovakia International** 9440 Jana Raslavska. Addr: P.O. Box 55, SLO-81005 Bratislava 15. **Radio Transmundial** 4775 L. Lauro Poulos. Addr: P.O. Box 64, Manzini, Swaziland. **WR International** 12256 Dave Jones. Addr: SRS, Otra Porten 29, SE-44254 Ytterby, Sweden. **FEBA Radio** 9810 D. Reigathe... via PLAY DX.

* sticker in 24 ds. for 1 IRC. **Sudvestrundfunk** 7265 n/d E-mail in 2 ds. for an E-mail rpt. I am awaiting formal QSL reply. (Neal-TX). **Voice of Hope** 15715 via **Julich** f/d pink cd. in 2 mo. w/ schedule. (Barto-CT).

"UNA VOZ LIBRE EN AMERICA"



LA VOZ DE NICARAGUA

VOZ OFICIAL DEL GOBIERNO DE RECONSTRUCCION NACIONAL

620 khz. ONDA MEDIA
5.985 khz. ONDA CORTA
BANDA DE 49 mts.

via Field
**SANDINO AYER
SANDINO HOY
SANDINO SIEMPRE**

GREECE: Radio Free

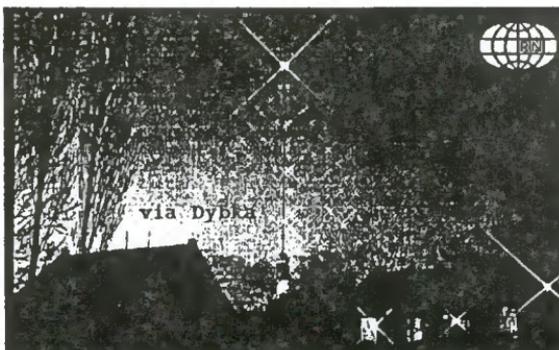
* **Iraq** 7110 via **Kavala** f/d ltr. in 3 ds. for an E-mail rpt. (Neal-TX).

GUATEMALA: TGVC Radio K'ekchi 4845 f/d cd. w/ station pennant, ltr., business cd. and reception report cd. in 3 mo. for a SP rpt. and \$1.00. v/s Ancelmo Cuc Chub, Gerente. (Myers-VA).

INDIA: All India Radio 4990 via **It-**

* **anagar** f/d prepared and stamped cd. in 6 wks. after 4 f/up rpts. v/s K. Morang, Assistant Station Engineer. (Tilbury). f/d prepared and stamped cd. and signed by J. J. Jrido, Station Director in 6 mos. after the 3rd f/up rpt. for the same 97 reception as above. (Tilbury). 4920 via **Chennai** f/d prepared and stamped cd. in 10 wks. after 4 f/up rpts. for 97





reception. v/s K.S. Ramakrishnan, Superintendent Engineer. (Tilbury).
 * 5040 via Jeyppore f/d prepared and stamped cd. signed by D.C. Hembram, Assistant Station Engineer. Also rcvd. a short personal ltr. in 12 wks. This was on my first try! (Tilbury).

IRAN: VOIRI 7260 and 9022 p/d "Khaju Bridge" cd. w/ schedule and magazines in 3 mo. (Barto). 7190 and 9695 p/d cd. in 9 wks. (Barto-CT).

ISRAEL: Kol Israel 15650 f/d blue "Logo" cd. in 114 ds. w/ schedule and report forms. (Humenyk-ONT).
ITALY: RAI f/d "Golden Winged Horse" cd. in 1 mo. w/ schedule. (Humenyk). Freq?...Sam. Italian Radio Relay Service 7120 f/d E-mail in 1 day for an E-mail rpt. (Neal-TX).

NOTES: Mark Alexander Humenyk in Ontario sends along his greetings to everyone. I'm glad you enjoyed the selection of stamps that you ordered. I've got a million more if you require them...Sam. John Sgrulletta says its been a long time between QSLs. Both of his Indian regionals from last month arrived on the same day. It makes it all worth the wait. A big thank you goes out to Jim Moats for sending me the very detailed listing and schedule for Radio Free Asia. Again, thank you very much. I've put it to good use....Sam.

JAPAN: Radio Japan 11715 via Yamata f/d "Autumn at the Asagari Highlands" cd. w/ sticker, pennant and schedule in 3 wks. (Loudell-DE).
 * NHK Sapporo 6005 cd. w/ bulletin, pin and postcards in 65 ds. for 2 IRCs. Addr: NHK Sapporo, 7 Oddori Nishi, Chuo Ku, Sapporo, 060-8703, Japan. (Eramo-ARG).

KALININGRAD: Radio Nederland 5835 f/d cd. in 23 ds. for \$1.00. (Ray-

KOREA, REPUBLIC OF: Radio Canada International 7260 via Kimje f/d "RCMP" cd. w/ sticker and a personal note in 11 ds. (Loudell-DE). Radio Korea International 15575 rcvd. schedule stickers and brochure in 44 ds. for 1 IRC but no QSL! (Brouillette-IL).

LIBYA: Radio Jamahiriya 15435 f/d "Rainbow" cd. in 38 ds. (Humenyk).

MEXICO: XEOI Radio Mil 6010 f/d beautiful multi-colored cd. w/ personal note and sticker in 3 wks. for a SP rpt. and \$1.00. (Loudell-DE).

NEPAL: Radio Nepal 3230 f/d "Pokhara" cd. in 8 wks. after a f/up rpt. w/ 1 IRC for an 88 reception. v/s R.S. Karki. (Tilbury).

NEW BRITAIN: Radio East New Britain 3385 p/d form ltr. in 2 mo. after a f/up rpt. w/ \$2.00. v/s Demas Kumaina, Provincial Programme Manager. (Maroti-NY).

NEW GUINEA: Radio Madang 3260 p/d ltr. in 6 wks. for \$2.00

Enclosed cd. and mailing label were not used. v/s Geo Gedabing, Provincial Programme Manager. (Maroti).

NICARAGUA: Radio Miskit 5770 f/d ltr. in 5 mo. for a SP rpt. sent via registered mail and \$2.00. v/s Sr. Evaristo Mercado Perez. (Maroti-NY). f/d personal ltr. in 10½ mo. for a SP rpt., tape and \$1.00. (Stewart-MO).

NORWAY: Radio Norway International 18950 f/d cd. w/ schedule in 2 mo. v/s Grethe Breie. (Palmerheim-WA). f/d "XMAS-Elfs" cd. w/ personal note schedule and sticker (Barto-CT). f/d "Cat w/ Trolls" cd. in 64 ds. for 3 IRCs. This was for their last English transmission. (Wilkins)

OMAN: BBC 11760 via **Mashira Island** f/d ltr. in 1 mo. v/s David Plater who says

RADIO PRAHA

ČESKÝ ROZHLAS 7

VERIFICATION SIGNERS: Radio Maria 9905 O. Jacek Cydzik. Addr: Ul. Zwirki i Wigury 80, 89-100 Torun, Poland.

Radio France International new Addr: TDF Ondes Decametriques, 10 Rue D'Ouradeur Surglane, FR-75015 Paris. **Radio Vitoria** 6018 Marta Flores Ushinahua, Secretaria. **Malawi BC** 3380 S.W. Mbale. **Namibia Broadcasting Corporation** 3270 P. Schachtschneider, Transmitter Manager. **Radio Quillabamba** 5025 Padre Francisco Panera. Addr: A.P. 76, Quillabamba. **Radio Cora del Peru** 4914.6 Juan Ramirez Lazo. Addr: Centro Civico Oficina 5, Lima 1.

Radio Luz y Sonido 3235 Pedro Martinez Tineo. **Voice of South Dublin** 6980 via **Radio Cochiquaz** Pat Kiernan. Addr: 333 Glenview Park, Dublin 24, Ireland. **Radio Cochiquaz**

6926 Cachito Mamani. Addr: Casilla 2571, Buenos Aires 1000.

Andino Relay Service 6973 same as Cochiquaz...via PLAY DX..Sam

ROYAUME DU MAROC
Ministère de l'Information

Radiodiffusion Télévision
Marocaine



وزارة الإعلام
مملكة المغرب

الإذاعة والتلفزيون
المغربية

نشكركم على تقرير إستماعكم ونتمنى أن تقضوا أوقاتنا ممتعة مع برامجنا

We thank you for your reception report and hope that you enjoy our programs

Nous vous remercions pour votre rapport et espérons que nos programmes vous satisfont

NAME: Jeff A. Molander

FRREQ (MHz): 11920

TIME (UTC): 00:54

QSL

"HF transmitters are reaching the end of their useful life. They will be replaced with a new site on the Omani mainland. (Fedor-NV).

PAKISTAN: Radio Pakistan 17835.2 and 15530 f/d "Rakapushi Mtns" cd. in 2 mo. w/ f/d ltr. and a sticker. (Barto). 11975 and 9785 f/d cd. w/ ltr. in 2½ mo. w/ sticker, new pennant and schedule. (Barto-CT).

PERU: OAZ4G Radio La Oroya 4904.8 p/d E-mail in 2 ds. after 2 f/up rpts v/s Jacinto Figueroa Yauri, Prop. This was my first e-mail QSL! (Palmerheim-WA). **Radio Virgen del Carmen** 4886.7 f/d ltr. w/ beautiful postcards, schedule and a personal ltr. in 5 wks. for a SP rpt. v/s

R.P. Samuel Moran Cardenas, Administrator. Addr: Jr. Virrey Toledo No. 466, Huancavelica. (Barto-CT).

PHILIPPINES: FEBC Radio International 15095 f/d cd. w/ calendar and schedule in 5 wks. (Barto). 12005 f/d "Engineering Staff" cd. in 1½ mo. (Barto-CT).

PORTUGAL: Radio Portugal International 11840, 13640 and 13700 f/d cd. w/ sked. in 41 ds. (Humenyk-ONT).



RADIO REBELDE

La Habana, Cuba

via Molander

¡Al Ritmo de la Vida!

QSL





NEWS
MUSIC

YOUR QSL CARD FROM

THE AFRICAN SERVICE
OF via Molander
RADIO JAMAHIRIYA

BROADCASTING DAILY IN ENGLISH ON 15415 KHZ/15M.
SHORT WAVE FROM 18.00 - 19.00 HRS. G.M.T.

COMMENTS AND SUGGESTIONS ON HOW TO IMPROVE THIS
BROADCAST ARE WELCOME. WRITE TO:

THE AFRICAN SERVICE
RADIO JAMAHIRIYA
P.O. BOX 17
HAMRUN - MALTA

INFORMATION
CULTURE

RHODES: VOA 9865
f/d "National Archives" cd.
w/ VOA Guide and sticker
in 56 ds. for a taped rpt.
(Delmage).

ROMANIA: Radio Romania International 9570
f/d "Churches" cd. w/ sked.
and XMAS cd. in 2 mo. (Loudell). 6155 & 7195 f/d cd. of "National Military Center

ter" in 39 ds. w/ schedule, XMAS cd. and pocket calendar. (Humenyk).

RUSSIA: Voice of Vietnam 7250 f/d "TNVN" cd. w/o site, which was requested, in 52 ds. Station pennant was rcvd. (Delmage).

RWANDA: Deutsche Welle 21560 via Rigali f/d "Cathedral on the Rhine River" cd. in 50 ds. (Humenyk-ONT).

SAO TOME: VOA f/d cd. in 13 ds. (Klinck-NY).

SERBIA: Radio Yugoslavia 11870 f/d "Globe" cd. in 90 ds. w/ sticker. (Borowski-NY). 11870 and 9580 f/d "Listeners Club" cd. w/ postcards several stickers, pin and a XMAS cd. in 2 mo. (Barto).

SPAIN: China Radio International 9690 via Noblejas f/d "Yaluzang-bujiang River in Tibet" cd. in 15 ds. w/ calendar. (Humenyk).

Radio Exterior de Espana 7275 f/d "Mikes and Head-phones in Studio" cd. in 140 ds. w/ schedule. (Humenyk). 11945, 9620, 9540 and 6125 p/d 1tr. in 2 mo. (Barto). 12035, 17715, 21570 and 15110 p/d 1tr. w/ sked. in 2½ mo. (Barto). 6055 f/d cd. in 66 ds. w/ schedule. (Borokowski-NY).

VERIFICATION SIGNERS: Radio Bandeirantes

9645 Samir Razuk, Director General. Addr: Rua Radiantes 13, Morumbi, SP-05699-900, Sao Paulo, Brasil. Radio Luz y Vida 3250 C. Fleck. Addr: A.P. 303, San Pedro de Sula, Honduras. Radio Republik Indonesia 3935 via Semarang Anif Maghfiroh. Addr: Jalan A. Yani 144-146, Semarang 50116. Radio Nederland 6120 via Kranji (Singapore) Asbari N. Krisna. Farmers From Holland 6300@ BP 108, NL-7720 AC Dalfsen, Netherlands.....via PLAY DX.....Sam.

SUMATRA: Radio Republik Indonesia 3905 via Banda Aceh p/d personal 1tr. in 1 mo. for an IN rpt. and \$1.00

TAIWAN: Voice of Free China

15125 and 11885 f/d "Butterfly" cd. w/ schedule and stickers in 6 wks. for a 97 reception. (Barto). 7130, 9610 and 11745 p/d "ROC National Day" cd. in 6 wks. w/ stickers. (Barto). 11915, 7445 and 7285 f/d cd. in 2 mo. w/ pennant and stickers for a 97 reception. (Barto).

TAJIKISTAN: Radio Free Asia

7520 via Dushanbe p/d 1tr. in 3 mo. (Barto). 15660 p/d 1tr. in 2½ mo. (Barto-CT).

THE AFRICAN SERVICE

RADIO JAMAHIRIYA

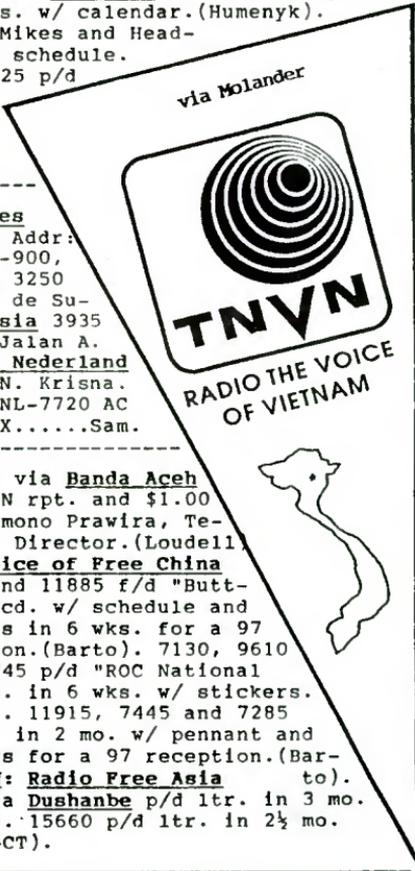
- Voice of the Socialist People's Libyan Arab Jamahiriya

via Molander

Dear Listener,

Thank you for your reception report of our transmission 18 May 1981 at 1532.4 on frequency 15415 KHZ and which we have carefully noted.

We are glad to verify your report and wish you many happy hours of DX'ing on Radio Jamahiriya.



ELWA, P.O. Box 192, Monrovia, Liberia

... about 7.5 miles (12 km) about 18 degrees north of the equator. ELWA radio waves are of the Super High Frequency (SHF) band, 30 to 300 GHz, and are used for satellite communication.



TIBET: Xizang Peoples Broadcasting Station

6200 via **Lhaga** f/d red "Tiger" cd. w/ site noted in 3 wks. from **CRI**.(Fedor).

TURKEY: Voice of Turkey 15350, 13660 and 11955 f/d "Costume-Dress" cd. in 6 wk. w/ schedule and stickers.(Barto-CT).

USA: AFRTS 6458 and 12689 f/d ltr. in 64 ds. v/s Wayne E. Eternica, Broadcast Operations Specialist.(Humenyk). same w/ personal ltr. in 1 mo.(Barto). in 3 wks. for another reception.(Barto). p/d ltr. in 3 mo.(Myers-VA). p/d ltr. in 88 ds.(Neal-TX). p/d ltr. stating "The signals I reported on originate from the Naval Computer and Telecommunications Area Master Station, **Key West**, FL and from **Puerto Rico**. No other details were given as to which location

and frequency. Addr: Naval Media Center, 2701 S. Capitol Street, S.W., Washington DC 20373-5819. (Rigas-IL). **Radio New York International** 7415 via **WBCO** f/d cd. in 5 wks.(Barto). **WBCO** 7415 f/d cd. in 1 mo. for **SASE**.(Rigas). same in 12 ds. for ms.(Loudell). **WYFR** 6065 f/d "Globe" cd. in 73 ds. w/ sked. (Humenyk). **Radio Taipei International** 17750 via **WYFR** f/d "Mountain and Plains" cd. w/ schedule and stickers in 42 ds.(Humenyk). **WRNO** 7355 and 7395 f/d "Logo" cd. in 269 ds. w/ schedule and stickers. (Humenyk). **Advertisist World Radio**

Mr. **Herbry** **Wrisborn**
Mrs. _____
It is our pleasure to certify your reception report
DATE: **11/9/78** ON **11/10/78** MHz
12.57 U.T.C. WOTB is dedicated to the glory of God, Transmitter(s) _____
to/rev **50 W** **AM** **100W** **70**
Antenna(s) Rhombic TAGI
Your Reception Report is Of Great Value To Us. We Look Forward Receiving Additional Reports and Your Continued Support.
Roseanne Francis Program Director David L. Francis Chief Engineer
WITH GLORY TO GOD
TNX FOR REPORT BEST 73\$ SRR YA TNX

Thank you for your report on the reception of our transmission from Rio
Hofnung Shortwave Station (100kW)
DATE **05/11/78**
TIME **0500-0520** GMT
FREQUENCY **3690** KHz

nbo Radio
Box 321, Windhoek, Namibia

Kind regards
T. Silembane

3210 via **WVCR**

f/d "Magic Eye Flower" cd. for a rpt. on the Wavescan Program in 25 ds. for 2 ms. QSL stamp * rcvd. (Wilkins-MO). 7415 via **WBCO** f/d cd. w/ site in 13 ds. for a rpt. on the special Wavescan over Hauser's World of Radio. (Rigas-IL).

USA (Pirates): Rock-it-Radio 6965 via **Andino Relay Service** cd. w/ ltr. in 61 ds. for 2 IRCs. Addr: P.O. Box 5617, Ventura, CA (Eramo-ARG). **Free Hope Experience** 6955 f/d cd. in 6 mo. for ms. (Palmer-shelm). **Mystery Radio** 6955 f/d "R. Mysterioso" cd. in 4 mo. (Palmer-shelm). **Jerry Rigged Radio** 6955 f/d "21st Century Pirate Hunter" sheet in 5 wks. for 3 ms. (Wilkins-MO). **Partial India Radio** 6955 p/d "Indian Troops clash with Pakistan" sheet in 63 ds. for 3 ms. (Wilkins-MO).

UZBEKISTAN: Radio Tashkent 9715 f/d cd. in 3 mo. for \$1.00. (Fedor-NV) 15165 and 15200 f/d cd. in 3 mo. w/ green station pennant - the same type as utilized in the old days. (Barto-CT).

VIETNAM: Lao Cai Broadcasting Station 6696.2 f/d ltr. w/ station pennant in 2 mo. (Barto-CT).

We have concluded yet another successful QSL Column. I really enjoyed typing this particular Column. Verie interesting QSLs.

Ram

RADIO AFRICA
P.O. BOX 851
MALABO
EQUATORIAL GUINEA



QSL

Mr. Herman Constanti

Net Notes

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

Finally, a replacement for the ICOM IC-R71/R-72 receiver has been shown in Japan. It covers 30 kHz to 60 MHz. The page is in Japanese, but you can see a picture and figure out most of the specifications.¹

No doubt you've heard Paul Ormandy's Pacific DX news on HCJB, AWR, RNZI and ZLXA. Now you won't necessarily have to find a pencil and paper or a blank tape. Paul has put up a new Web site titled "South Pacific DX Resource."²

Software note: Many radio-type pages are on the "free" Web sites at Geocities, Tripod and elsewhere. On these hosts, small browser windows with advertising are opened upon visit-



ing each page, and I have to close or move the advertising to see the desired Web page. Now KillAd for Windows

95/98/NT takes care of disposing of the pop-up windows. You'll hear the sound of breaking glass if you have a sound card. **KillAd** is free... and for us, it works very well!³

Watch this space. The World Radio TV Handbook has a domain and a static page in place, with an active site promised for the near future. Actually, there are several variants, but dot-com will do for now.⁴

Bob Arnold of RA Labs, hosting the Cumbre DX pages, has changed out the Web receiver. You've read about the Ten-Tec RX-320 PC receiver in the Journal, and now you can listen to one if you have Real Audio installed on your PC.⁵

In the listings below, "http://" is implied.

We'll see you all in Kulpsville in a few weeks!

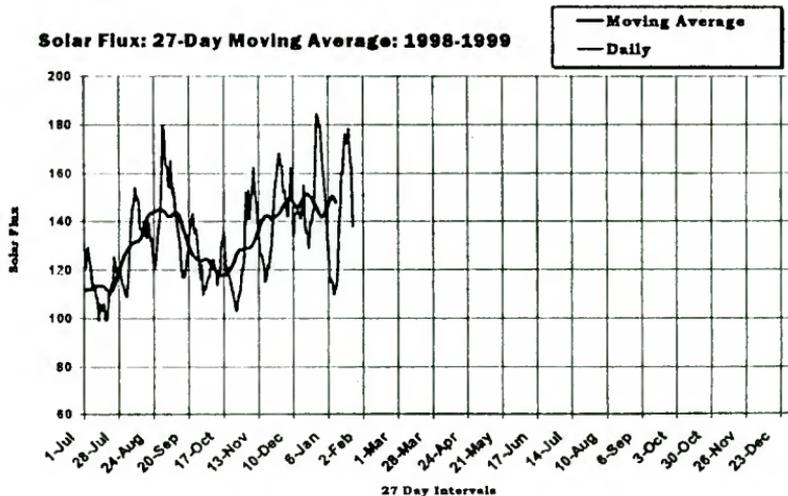
¹. www.icom.co.jp/receiver/new_products/IC-R75

². www.geocities.com/CapeCanaverall/Galaxy/3216

³. wwwwin.wplus.net/pp/fsc

⁴. www.wrth.com

⁵. www.ralabs.com/swl440/



Contributors' Page

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

DEADLINE FOR CONTRIBUTIONS IS THE 10th OF THE MONTH

The following members sent in contributions:

Brian ALEXANDER, Mechanicsburg, PA	R8B AOR AR-7030 100' LW
Gabriel Ivan BARRERA, Buenos Aires, ARG	NRD-525 32m dipole
Ralph BRANDI, Tinton Falls, NJ	R8 70' LW
Peter COSTELLO, Matawan, NJ	AR3030 DX-390 YB400 70' LW Tun-4A
Nicolas ERAMO, Buenos Aires, ARGENTINA	Sony 2010 ICF-7600 7600G LW's
Bob FRASER, Cohasset, MA	Sony ICF-2003 ICF-SW100S 2m LW
Bob HILL, Littleton, MA	Sony 2010 120' dipole at 35'
Mark HUMENYK, Weston ONTARIO	Magnavox D-2935 AN-60 DX-SWL sloper
Jerry KLINCK, Wales, NY	R8 HQ-180AX 80' LW 60m dipole
Fred KOHLBRENNER, Philadelphia, PA	R8 NRD-525 Datong FL-3 ANC-4 AD Sloper
David KRAUSE, Eastlake, OH	Kenwood R600
Harold LEVISON, Philadelphia, PA	R8 R70 YB400
Brian LIMBACH, Pittsburgh, PA	Sony ICF-7600A
Jerry LINEBACK, Scranton, KS	Icom 746 beverage antennas
William McGUIRE, Cheverly, MD	DX-380
Jim MOATS, Ravenna, OH	DX-390 24' indoor antenna
Bob MONTGOMERY, Levittown, PA	R388 DX Pro active antenna
Gary NEAL, Sugarland, TX	Grundig YB-400
Ed NEWBURY, Kimball, NE	WJ-1000 R8 60'Sloper 20' loop
Jay NOVELLO, Wake Forrest, NC	R8A LW's
Takayuki Inoue NOZAKI, Tokyo, JAPAN	NRD515 NRD535 FRG7000
Denis PASQUALE, New Brighton, PA	Sony 2010 beverage antennas
Bob RAYMOND, Nashua, NH	DX-398 20m 5/8 wave vertical
Christos RIGAS, Wood Dale, IL	R-2000 Sony 2010 AD Sloper LW
Chuck RIPPEL, Cornland, VA	WJ-HF1000A R8B R390A/SE-3 51S-1 LW's
Betsy ROBINSON, Clinton, TN	Sony 2010 Indoor antenna
David ROSS, Hamilton, ONT	R8B R8A+Sherwood SE-3 50' inverted L
Giovanni SERRA, Rome, ITALY	NRD-525 AD Sloper
John SGRULETTA, Mahopac, NY	NRD-515 AD Sloper Moseley trap dipole
Bill SMITH, Mineola, TX	R8B R70 51J4 Beverage
Randy STEWART, Springfield, MO	FRG-100 w/Collins filters
Rick TURNER, Dartmouth, MA	DX-398
Mark VELDHIUS, NETHERLANDS	
Gerald WITHAM, Keauau, HI	R8 ANC-4 135' LW
Terry WOLF, Bellville, OH	Sony 2010 LW
Dan ZIOLKOWSKI, Hanburg, NY	R8 Sloper SPS NRF-7 SEM QRM Eliminator

Loggings from Gabriel Ivan Barrera were made while on a DXpedition to a country farm at Coronel Vidal, located about 340 kilometers south of Buenos Aires. My logs marked FCDX were made while on a DXpedition to French Creek State Park in PA.

Dario Monferini, editor of *Play-DX*, has just published the 1000th edition of his DX newsletter and has issued a special commemorative cloth pennant. It is available for 3 IRC's or 3 US\$ from Dario at the following address: Dario Monferini, via Davanzati 8, 20158 Milano, Italy. 

Tropical Band Loggings

Sheryl Paszkiewicz
314 Riverview Drive, Apt 16
Manitowoc, WI 54220
spaszkie@msn.com

- 2310 AUSTRALIA ABC 12/14 1236 ABC nx, magazine pgm (Kohl-PA)
 *2380 BRAZIL R Educadora 12/26 0204 Voz do Brasil pgm, rel mx, tk (Eram-ARG)
 2410 NEW GUINEA R Enga 12/19 1226 tk, pop mx (Smit-TX)
 3205 NEW GUINEA R Sandaun 12/25 1200 Xmas mx, greetings (Line-KS)
 3210 COSTA RICA RÊE Relay 12/15 0100 TP, ID, tlks (Smit-TX)
 3215 USA WWCW 12/15 0105 tk abt Clinton scandal (Smit-TX)
 3220 ECUADOR HCJB 1/4 1128 ID, flute mx (Line-KS)
 3250 HONDURAS Luz y Vida 12/15 0109 EZL mx, good (Smit-TX) 12/11 1130 ID, Amazing Grace (Robi-TN)
 3250.8 PERU R Comas 12/26 0332 OA mx, ID, ads (Barr-ARG)
 3269.9 NAMIBIA NBC 12/14 2315 vcls, p-f (Smit-TX)
 3280 CHINA Vo Pujiang 12/19 1333 CH pops, good (Smit-TX)
 3280 ECUADOR LV del Napo 12/3 1130 lang ID, kids singing (Robi-TN)
 3289.8 ECUADOR R Centro 1/4 1120 ads for Ambato businesses (Line-KS)
 3289.8 GUYANA GBC 1/4 0053 EG ID, anmts as Vo Guyana (Line-KS)
 3290 NAMIBIA NBC 11/29 2238 EG cmtry (Hume-ON)
 3300 GUATEMALA R Cultural 12/15 0111 class vocals (Smit-TX)
 3315t INDIA AIR Bhopal 12/21 1252 lang tk by W (Line-KS)
 3324.8 GUATEMALA R Maya 12/3 1215 SP ID, anmts, tk (Klin-NY)
 3325 BRAZIL R Tupi 1/3 0358, mx, anmts, ID (Eram-ARG)
 3325 SUMATRA RRI Palangkaraya 12/27 1400 nx abt Palangkaraya (Line) 12/15 2155 instl, anmt, SCI, TP, ID, nx, choir (Kohl-PA)
 3330.5 PERU Ondas del Huallaga 12/16 1018 Andean mx, ID, addr (Kohl)
 3335 TAIWAN CBS 12/27 1355 CH tk, poor (Line-KS)
 3339.9 PERU R Altura 1/6 0226 preaching, ID (Eram-ARG)
 3344.8 MOLUCCAS RRI Ternate 12/27 1355 Indo pops, good (Line-KS)
 3350 N KOREA PBS 12/30 1325 KR classic vocals (Line-KS)
 3360 GUATEMALA LV de Nahuala 12/3 1100 birthday greet (Robi-TN)
 3365 INDIA AIR Delhi 1/1 1310 lang nx //4860 (Line-KS)
 3366 GHANA Radio 2 12/14 2236 EZL mx, weak audio (Smit-TX) 1/4 0001* EG anmts, NA (Line-KS)
 3370 GUATEMALA R Tezulutlan 12/11 1030 Xmas mx, marimba (Robi-TN)
 3380 GUATEMALA R Chortis 12/15 0121 group vcl, beautiful mx, good (Smit-TX) 12/13 1100 tk, clear IDs (Klin-NY) Welcome back!
 3385 SUNDAS RRI Kupang 12/27 1354 IN political tk (Line-KS)
 3900.2v IRAQ Rep of Iraq R 12/27 2200 AR tk, ME mx, some hum, tnx DX Window (Hill-MA)
 3905 IRIAN JAYA RRI Merauke 1/10 1300 SCI, nx (Ripp-VA)
 3925 JAPAN R Tampa 12/14 1328 M/F discussion, good (Smit-TX)
 3976.1 KALIMANTAN RRI Pontianak 12/14 1334 EZL mx, ham QRM (Smit-TX)
 3985U ITALY IRRS 1/3 0729* EG anmts, pops, ID addr, rel pgm (Alex-PA)
 3995 GERMANY DW 12/12 2206 GM cmtry, mx //6100, etc (Hume-ON)

- 4499.7 **PERU R Moderna** 12/30 2325 Andean & Acadian sounding mx, comunicado pgm (Nove-NC)
- 4534.1 **PERU R Horizonte** 1/4 0055 Andean mx, comunicados, ID (Nove-NC)
- 4551v **PERU R Uno** 12/16 0930 Andean mx, lds, drifting (Kohl-PA)
- 4620 **CHINA Nei Menggu** 1/8 2320 tlk, ads, mx under ID (Nove-NC)
- 4648.4 **BOLIVIA R Santa Ana** 12/10 0024 Recuerdos Musicales pgm, ID, TCs (Eram-ARG)
- 4748.2 **PERU R Huanta 2000** 1/7 0054 nx, TC, NA, ID (Eram-ARG) 1/16 2345 comunicados, Andean harp & vox, ID (Nove-NC)
- 4753.3 **SULAWESI RRI U-P** 12/27 2150 SCI hrd (Bran-NJ) 12/2 1135 mx, tlk, IDs (Klin-NY)
- 4760t **KASHMIR AIR Leh** 12/24 1230 EG nx //Delhi, Leh's lcl sunset (Line-KS)
- 4770 **ECUADOR Centinela del Sur** 12/26 1130 Andean mx, anmts (Line-KS)
- 4770 **NIGERIA Kaduna** 12/14 2200 ID, EG pops (Smit-TX) 12/27 2248 EG anmts, ID, Nigerian pops (Line-KS) 12/9 0620 EG nx, lds, sports pgm (Wolf-OH) 1/16 2355 tlk abt Ramadan (Nove-NC) 12/4 2200 EG tlk abt Nigeria's future (Klin-NY)
- 4774.9 **PERU R Tarma** 12/7 1033 tlk, vcls, ID (Ziol-NY) 1/6 0154 anmts, rel cmts La Voz de la Liberacion pgm, huaynos (Eram-ARG)
- 4775 **INDIA AIR Imphal** 12/7 1225 tlk, 1230 //4850, weak (Ziol-NY)
- 4775 **SWAZILAND TWR** 1/9 0428 lang tlk, IS (Bran-NJ)
- 4780 **GUATEMALA R Coatan** 12/2 1200 ID, Jingle Bells (Robi-TN)
- 4781.8 **ECUADOR R Oriental** 1/12 1140 nx credited to var sources, ads Tcs, professional sound (Nove-NC)
- 4789 **IRIAN JAYA RRI Fak-Fak** 12/28 1210 RRI nx //sev others (Line-KS)
- 4790 **INDIA AIR Chennai** 12/30 0040 Tamil tlk, film songs, hrd past 0140, was trying for Azad Kashmir R (Nove-NC)
- 4800.8 **MEXICO XERTA** 1/5 1144 EG ID & anmts, het (Line-KS)
- 4815 **BRAZIL Rdf Londrina** 1/10 0150 anmts, rel pgm, ID (Eram-ARG)
- 4819.2 **HONDURAS HRVC** 12/29 1015 LA mx, ID, poor but clear (Ziol-NY)
- 4820 **BOTSWANA RB** 1/3 2155 lang mx, anmts, ID to 2201* (Klin-NY)
- 4828 **ZIMBABWE ZBC** 12/13 2130 EG mx, ID (Klin-NY)
- 4830 **CHINA Huayi BC** 1/9 1350 CH tlk, mx (Line-KS)
- 4840 **MANCHURIA Heilongjiang PBS** 12/26 1345 EG nx, poor (Line-KS) ID?
- 4840.4v **MAURITANIA ORTM** 1/7 2145 poss, drifting, Koran, guitar (Nove)
- 4850 **CAMEROON CRTV** 12/13 2145 FR/EG ID (Klin-NY)
- 4850 **CHINA CNR** 12/14 1400 CH tlks //9064 (Smit-TX) 1/25 2302 CH tlk, diff pgm from 5030 (Line-KS)
- 4855.5 **PERU R La Hora** 12/12 2355 sports interviews, ID (Eram-ARG)
- 4860 **INDIA AIR Delhi** 12/16 0027 SC mx, TP, Hindi nx (Kohl-PA)
- 4870 **BENIN ORTB** 12/15 2248 EZL mx, f-g (Smit-TX) 1/3 2145 FR EZL mx, ID (Klin-NY)
- 4874.5 **IRIAN JAYA RRI Sorong** 12/19 2059 mx, anmt, nx, orch (Hill-MA)
- 4879.2 **BANGLADESH Bang. Betar** 1/7 1155 tlk, flute, TP, ID (Nove-NC) 12/15 1205 SC mx, tlk, poor (Kohl-PA)
- 4880 **INDIA AIR Lucknow** 12/26 1341 SC mx, poor (Line-KS)
- 4890 **PAPUA NBC** 12/15 1235 tlk abt drunk drivers, ID, chorus (Kohl) 11/30 1311 EG mx, DJ tlk (Hume-ON)
- 4895 **SARAWAK RTM Kuching** 12/14 1325 prayers, vcls, great sig (Smit) 12/27 1421 Islamic chants (Line-KS)
- 4910 **INDIA AIR Jaipur** 12/26 1335 lang tlk, vp (Line-KS)
- 4914.4 **PERU R Cora** 12/18 1027 ID, ads, tlk (Ziol-NY) 1/3 0444 ID, Andean mx (Eram-ARG)

- 4915 **GHANA GBC** 12/14 2200 TP, ID (Smit-TX) 12/23 2159 TP, ID, EG nx (Bran-NJ) 1/3 2135 lang tlk, ID (Klin-NY)
- 4925.6 **BOLIVIA R San Miguel** 12/26 0151 anmts, ID, addr, NA (Eram-ARG)
- 4930.6 **HONDURAS R Int'l** 12/15 2251 mx pgm, good (Smit-TX)
- 4945 **BOLIVIA R Illimani** 12/23 2255 ID, chimes, ID (Nove-NC)
- 4950.4 **ECUADOR R Bahai** 1/5 1140 Andean vcls, TC, ID (Nove-NC)
- 4955 **COLOMBIA R Nacional** 12/10 0230 romantic ballads, harp (Robi-TN)
- 4960 **VANUATU RV** 12/27 0845 IS, island mx, lang anmts (Line-KS)
- 4964.7v **PERU R San Miguel** 1/9 2353 mx, Ids, TC (Eram-ARG)
- 4965 **ZAMBIA Christian Vo** 12/23 2135 EG vcls, ID, nice sig (Nove-NC)
- 4975 **PERU Pacifico R** 12/21 0001, ads, ID p-f (Eram-ARG)
- 4980 **VENEZUELA Ecos del Torbes** 11/27 0333 guitar, discuss (Hume-ON)
- 4990 **INDIA AIR Itanagar** 12/21 0041 SC vcls, tlk lang (Hill-MA)
- 4995.4 **PERU R Andina** 12/11 0112 anmts, esoteric mx pgm (Eram-ARG) 12/13 2328 tlk, huaynos (Kohl-PA) 12/31 1018 tlk, mx, ID (Klin)
- 5005p **SARAWAK SibU** 12/19 1320 bassy muddy audio, tlk, mx bridge (Smit Islamic chants //4895 (Line-KS)
- 5010 **CHINA Guangxi** 12/25 2257 CH mx, anmts, ads (Line-KS) 12/21 2258 CH tlk, mx bridge (Riga-IL)
- 5011.7 **DOM REP R Cristal** 1/1 0705* anmts, Ids, ballads (Alex-PA)
- 5018.7 **PERU Horizonte** 12/15 1144 ads, anmts, ID (Line-KS) 12/15 1108 Andean mx, ads, ment Chachapoyas (Kohl-PA) 12/27 0042 mx, ID, TC, comunicado (Eram-ARG)
- 5024.9 **SOL ISL SIBC** 12/31 1324* EG tlk, GSTQ (Line-KS)
- 5025 **PERU R Quillabamba** 1/10 0136 anmts, Tropicalisima pgm (Eram)
- 5030 **CHINA CPBS** 12/25 2255 CH tlks also hrd in morn to 1530 (Line)
- 5030 **COSTA RICA AWR** 12/14 1323 vcls & EZL, exc sig (Smit-TX) 12/26 1200* anmts, Xmas mx, ID (Line-KS)
- 5030 **SARAWAK RTM** 12/9 1205 lang tlk, local & West mx, ID (Klin-NY)
- 5047 **TOGO Lome** 12/15 2254 tlk, good (Smit-TX)
- 5050 **TANZANIA RT** 11/24 2042 lang discuss (Hume-ON)
- 5054.5 **COSTA RICA Faro del Caribe** 12/26 1211 anmts, pops (Line-KS) 12/19 1148 Cruza da pgm by Luis Palau, Xmas msg (TIN-JP)
- 5055U **ICELAND ISBS** 12/24 2028 YL sermon like tlk //9275 11402 (Hill)
- 5076.6 **COLOMBIA Caracol** 1/10 0400 nx, ID (Eram-ARG)
- 5100 **LIBERIA RL** 11/29 2128 EG cmtry (Hume-ON)
- 5385.9 **PERU R Huarmaca** 12/26 0214 Paraisos Musicales pgm, ID (Barr)
- 5500 **ETHIOPIA Vo Tigray Rev** 1/1 0358 IS, nx, tnx Novello (Bran-NJ)
- 5637.3 **PERU R Peru** 12/16 1006 Andean vox, roosters, dogs, ID (Kohl) 1/6 0054 rel pgm, comunicados, mx, TC, ID (Eram-ARG)
- 5678 **PERU R Ilucan** 12/15 2320 LA pops, anmts, ID, TC (Kohl-PA) 1/3 0109 anmts, ads, TC, ID (Eram-ARG)
- 5699.9 **PERU R Frec San Ignacio** 1/6 0042 mx pgm, comunicados (Eram)
- 5770 **NICARAGUA R Miskut** 2245-0003* nonstop mx, off mid-song (Kohl) 1/1 0615* on late for New Year echo ID, NA (Alex-PA)
- 5835 **KALININGRAD R Ned** Relay 11/29 2107 DD cmtry (Hume-ON)
- 5850 **BULGARIA RB** 12/6 2048 EG tlk, IDs (Krau-OH)
- 5850 **GERMANY Sunrise R** 12/13 0745 EG rel, ID, ads, nx (Alex-PA)
- 5895 **GERMANY Croatian R** Relay 11/29 2046 lang w/mx (Hume-ON)

Welcome back JERRY KLINCK. Thanks to all contributors. Please try to include some program detail other than "music, talk" unless it's rare. 

International Band Loggings

Wallace C. Treibel
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- 5905 UKRAINE *RUI* in EG 0100, nx re economic reform, mx, "Ukraine Today", g (Robinson TN 12/8)
 5935 LATVIA *RLI* Riga in LT(p) 2120, tlk, pop instrumtl, EG ID, sked, nx, p (Kohlbrener PA 12/14)
 5975 UZBEKISTAN *R Tashkent* in EG 1200-1227*, nx, cmntry, ID, local mx, f, weaker on //s 6025, 9715 (Alexander PA 12/5, Robinson TN 12/1)
- 5975 ANTIGUA *BBC* relay in EG 2358, Big Ben tolls, New Year's greetings (Newbury NE 12/31)
 5981 GUATEMALA *AWR/Union R* in SP 1205, relig mx, "la Voz de la Esperanza" ID (Novello NC 12/23)
 5990 ROMANIA *RRI Bucharest* in EG 0414, pgm re Romania's postwar development (Limbach PA 12/15)
 6000 CUBA *RIIC* in EG 0359, ID, rpt on 40th anniversary of Cuban revolution, int'l nx (Turner MA 1/1)
 6005 GERMANY *Deutschland R Berlin* in GM 2240, discussion, ID 2300, nx, wx rpt, vg (Brandi NJ 1/8)
 6010nf TURKEY *V of Turkey* in EG 0357, IS, TP, ID, sked, pgm preview, nx, press review (Moats OH 1/6)
 6030 GERMANY *Sudwestrundfunk* in GM 2159, ID, nx, wx rpt, rap mx, f-p. //7265 (Brandi NJ 1/9)
 6030 PHILIPPINES *VOA* relay in KR 1335, pop mx, tlks, "Yankee Doodle" IS 1400* (Brandi NJ 12/27)
 6055 SLOVAKIA *R Slovakia Int* in EG 1940, nx re Slovak club for the Unjustly Bald, g (Pasquale MA 12.31)
 6085 GERMANY *Bayerische Rundfunk* in GM 0658-0723, "Funf Aktuell" (nx?), exc (Brandi NJ 1/3)
 6115 PERU *R Union* Lima in SP 0417, L Am & US pop mx, ID 0423, f-g (Eramo ARGENTINA 12/27)
 6115 ALBANIA *R Tirana* in EG 0300*, ID after rpt on plight of Albanians in Kosovo, f (McGuire MD 1/7)
 6130nf YEMEN *Republic of Yemen R* in AR 2003, nx w/several mentions of Yemen, ID in AR ending with Sann'a at 2015, ME vcl, bad QRM from Finland & BBC, repl 5950?, faint //97803 (Hill MA 12/30)
- 6150 BRAZIL *R Record* in PT 0820, Braz pop vocals, frequent TC's, ID 0832, f (Kohlbrener PA 1/5)
 6150 ALASKA *KNLS* in RS 1145, Muzak, tlks in RS, ID & QTH also in RS, f (Brandi NJ 1/10)
 6150 SINGAPORE *R Singapore Int* in EG 1107, regular & financial nx, ID 1110, p (Kohlbrener PA 12/16)
 6155nf GERMANY *Good News World R* relay Julich in EG 0127, Sunday only best of relig pgm, QTH in Ft Worth, TX aned, strong signal rptd by both listeners (Humenyk ONT 12/13, Krause OH 12/27)
- 6160 CANADA *CKZN* St Johns, Halifax in EG 2205, "World at Six", promo for pgm from Labrador 2230 "As It Happens", everything wiped out at 2238 by R Nederland relay s/on on 6165 (Brandi NJ 12/23)
 6195 ANTIGUA *BBC* relay in EG 1115, "Caribbean Magazine", P Rico rejects statehood (Fraser MA 12/14)
 6200 CZECH REPUBLIC *R Prague* in EG 0108, economic nx, Euro vs Deutschemark (Newbury NE 1/6)
 6265 ZAMBIA *ZBC* in Vernacular 0418, ID in EG, cmntry, mx, g (Eramo ARGENTINA 1/9)
 64797 PERU *R Altura* in SP 0710, anemts, rustic OA vocals, ID, expected to hear R Los Andes which was on this exact fqy in Nov (Alexander PA 1/1) in SP 0021, huaynos, TC's, ID, f-p (Eramo ARGEN 1/3)
 66758 PERU *Ondas Rio Maranon* in SP 2335-0013*, rustic vcls, TC's, ID, NA, f (D'Angelo PA 12/15)
 6676v PERU *R Paraton* Huarmarca in SP 2315, bouncy flute-led mx, group vocals w/violins & guitars, fast talking DJ with ID's between selections, persistent buzzing QRM, NA at 0012* (Novello NC 12/22)
 6676nf? PERU *R Tarapoto* in SP 2354, Andean mx, huaynos, comunicados, TC, ID, NA 0035*, poor signal (Eramo ARGEN 12/19) ED: I don't know how all these Peruvians co-exist on the same fqy. All three loggings are reported just as they were received. The heterodynes must be something to behold!
- 67977 PERU *Ondad del Rio Mayo* in SP 0003, musical pgm, cumbias, folk mx, comunicados, TC's, ID (Eramo 1/3, GIB 12/27 both from ARGENTINA) in SP 0959, rooster crow 1001, great mx, ID, nice listening (Ziolkowski NY 12/22) in SP 1128, aned SW fqy as 5045?, local ads (Nozaki JAPAN 12/19)
- 68953 PERU *R San Miguel de El Faique* 0115, folk mx, salutations, ID, cumbias, f (GIB ARGEN 12/27)
 6940 ETHIOPIA *R Fana* in lang 0348-0357, caught ID while checking //6210, g (D'Angelo PA 12/15)
 6975 COSTA RICA *RFPI* in EG 0535, nx from UN Radio, cmntry on Mexican meetings (Limbach PA 12/8)
 70034 PERU *LV de las Huarinjas* in SP 2338, musical pgm, TC's, ID, cmntry, f (Eramo ARGEN 1/2)
 70815v AFGHANISTAN *V of Shari'ah* in lang 0126, test tone to 0128, male chorus with NA?, two iterations of chimes IS, 3 vips 0130, tlk, into Qur'an reading 0132, fqy drifted down, ham QRM (Hill MA 12/21)
- 7085 ERITREA *V of the Broad Masses of Eritrea* in lang 1822, typical Horn of Africa instrml soon joined by male vocalist, off at 1830 with //7100 going off 20 secs later, severe ham QRM (Hill MA 12/24)
 7105 BELARUS *R Minsk* in EG 2138-2158, Christmas tlk and mx, f-p (Raymond NH 1/5)
 7125 GUINEA *RTV Guineene* Conarky in FR 2250, African vocals, ID 2301, g (Rigas IL 12/26)

- 7170 MALI *China R Int* relay in CH 2322, several announcers talking, exc, //11975 (Costello NJ 1/14)
- 7205 UKRAINE *R Ukraine* Kiev in EG 0130, mailbag, Ukraine Christmas traditions, g (Pasquale PA 12/26)
- 7280 RWANDA *Deut Welle* relay in EG 0412, GM political nx, tks w/Islamic leaders (Newbury NE 12/24)
- 7285 POLAND *Polish R Warsaw* in EG 2040, mainly regional nx, ID, lcl mx, bad QRM (McGuire MD 1/2)
- 7295 MALAYSIA *RTVM Radio 4* in EG 1050, pop vcls, pips 1100, ID, TC, nx, stock market rpt, oldies and Xmas mx, p (Kohlbrener PA 12/14) in EG 2158, oldies, "Good Morning Malaysia" (Hill MA 12/26)
- 7375 BULGARIA *R Bulgaria* Sofia in EG 0000, IS, ID, fqy, sked, national nx, g (McGuire MD 12/15)
- 7465 NORWAY *RNI* in NO 0200, nx re James Hoffa Jr, song abt Bethlehem, exc (Robinson TN 12/6) in NO 0220, Norwegian folk mx, g, //7545, 9945 (Witham AK 12/21)
- 7495 ISRAEL *Reshet Bet* in HB 0200, IS, ID, national nx, mx, g-exc (Robinson TN, McGuire MD 1/8)
- 9260nf ICELAND *Ríkisutvarpið* Reykjavik in IC 2215-2300+, extended Xmas sked, //9275, 11402, 13680, all USB, not usually hrd on 4 fqys at once, classical & relig mx, Mass (Alexander PA 12/24)
- 93352 NO KOREA *R Pyongyang* in EG *2100, IS, ID's, nx, martial mx, p, //6575 (Kohlbrener PA 12/15)
- 93455 NO KOREA *R Pyongyang* in KR *1200, IS, ID, NA, tks, mx, weak but clear (Ziolkowski NY 12/5)
- 9380 CHINA *CPBS* Taiwan Service in CH 1213, tks, fluttery signal, //7260 weaker (Ziolkowski NY 12/5)
- 9385nf USA *WEWN* Birmingham in EG 0030-0156*, new fqy for "Global Catholic Radio", all relig pgming, request for donations prior to s/off, req retuning to 5825 for continuation of pgmg (Treibel WA 1/17)
- 9475 EGYPT *R Cairo* in EG 0200, new excavation to be opened in 1999, mx (Pasquale PA, Newbury NE)
- 9505 JAPAN *R Japan Tokyo* in EG 1500, pips, "Beginning of a New Year", g (Newbury NE 12/31)
- 9525 INDONESIA *V of Indonesia* in IN 1130, tks w/local mx bks, ID (Klinck NY 12/5)
- 9525 SO AFRICA *Channel Africa* in EG 0320, ID, rpt on immigrants in So Africa (McGuire MD 12/21)
- 9535 THAILAND *R Thailand* in EG/Thai 1945-2053, "News Perspective", local nx, gong IS, ID's, jingle, features, interview, tourism item (Serri ITALY 12/17, Witham AK 12/25, Kohlbrener PA 1/9)
- 9570 ROMANIA *RRI Bucharest* in EG 0405, ID, world nx, rpt on unemployment, f (McGuire MD 1/8)
- 9620nf INDIA *AIR External Service* in Sindh *1230, IS, subcont vocal, weak & choppy signal, //11585 with strong but echoy/fluttery signal and 6165 with weak signal (Hill MA 12/23)
- 9645 VATICAN STATE *Vatican Radio* in FR/EG 1715, nx, reports, ID, p, //15585 (Witham AK 12/5)
- 9660 VATICAN STATE *Vatican Radio* in EG 0310, IS, ID, Afr Service, rpt on Xmas (McGuire MD 12/15)
- 9665 ARMENIA *V of Armenia* in EG 2130, ID's, cmntry on self-determination rights (Robinson TN 12/1)
- 9700nf CANADA *Deut Welle* relay Sackville in EG 0100, ID, nx, "Foreigners in Germany", tks to emigres to Germany, //6040, g-p (Moats OH 1/2) in EG 0300, IS, ID, "Newslink", g (McGuire MD 12/16)
- 9700 NEW ZEALAND *RNZI* in EG 1045, extended New Years Eve best, ID (Costello NJ, Newbury NE)
- 97042 ETHIOPIA *R Ethiopia* in lang 0410, local folk mx, tk, g, //5990, 7110 (Alexander PA 12/26)
- 97099 LITHUANIA *Lithuanian R* in EG/GM 1300, ID in EG, into R Universal Life pgm in GM to 1357, into EG at 1400 with pgms of the original Christians in Universal Lieben (Novello NC 1/10)
- 97172 BOLIVIA *R La Plata* in SP 1409, cmntry re Xmas in So Amer cities, folk mx, nx readings from local newspaper, ID, political and historical features, weak signal (GIB ARGENTINA 12/25)
- 9730 SRI LANKA *SLBC* Colombo in EG 1420, pop & country mx, 6 pips, ID, nx, p (Kohlbrener PA 1/7)
- 9760 JAPAN *R Tampa JOZ, 2nd Net* in JP 2346, interview, ruined by DW s/on 2358 (Hill MA 12/21)
- 9810 THAILAND *R Thailand* in EG 1250, annual fish festival to be held nationwide, f (Pasquale PA 12/12)
- 9820nf? CHINA *Guangxi Foreign BC Svc* in VT *2300, opened w/gentle, seductive Oriental theme on chimes & strings, ID in VT, nx(p), strong & clear signal suggesting considerable xmtr power (Hill MA 12/23)
- 9840 VIETNAM *V of Vietnam* Hanoi in EG 1257*, nx, lcl mx, ID, fair sig in the clear, //120195 weaker, back at 1300 in FR?, after 1300 recept'n stronger on 12 mhz but weaker on 9 mhz (Alexander PA 12/5)
- 9845nf? ALBANIA *AWR* relay in PL 0615-0630*, inspirational mx, IS at s/off, f (Witham AK 12/26)
- 9910 INDIA *AIR Aligarh* in EG 2115, subcontinental mx, ID 2120, feature, BBC QRM (Sgrulletta NY 1/10)
- 9940 BELGIUM *R Vlaanderen* in EG 0830, ID, fqy, QTH, nx, wx rpt, current affairs (Krause OH 12/29)
- 11335 NO KOREA *R Pyongyang* in EG 2300, many ID's, prgm view, NA?, nx (Krause OH 12/27)
- 11550nf INDIA *AIR* testing? in EG 1448, Hindi mx, p, //11620, 13710, Tnx to Pritam Saini (Brandt NJ 1/10)
- 11585 INDIA *AIR Bangalore* in lang 1350, lovely Indian mx & songs, ID (Rigas IL 12/22)
- 11595 GREECE *RS Makedonias* Thessaloniki in GK 1400, nx, magazine pgm, p (Rigas IL 12/30)
- 11620 INDIA *AIR* Bangalore in EG 1920, mx, ID, prgm sked, cmntry, mx (Klinck NY, Levison PA 12/27)
- 11620 TAJIKISTAN *R Tajikistan* Dushanbe in EG 0345-0400*, 15 min pgm in EG, IS, ID, sked, fqy data, nx, local mx, sign off ID "Radio Tajikistan International Service" (Kohlbrener PA 12/14)
- 11625nf? GUAM *KSDA* AWR relay in VT 1700*, IS, ID in EG, sked, QTH, f-p, repl 9370? (Brandt NJ 12/31)
- 11635 PHILIPPINES *FBC* in EG 1031, Asian nx, ID, sermon on drug abuse, f (Kohlbrener PA 12/14)
- 11675 NEW ZEALAND *RNZI* in EG/Maori 1820, nx, ID, pop song, TC, cmntry, p (Serri ITALY 12/11)
- 11690 CHILE *La Voz Cristiana* in SP 0203, local mx, tks, ID, Florida QTH on 1/2 hr (Klinck NY 12/27)

- 11705 **CANADA R Japan** relay in JP 1500, bong on Buddhist bell, New Years eve pgm (Newbury NE 12/31)
- 11705nf **CUBA RHC** in EG 0100-0335+, ex-13605, IS, nx, cmntry, mx, //6000, 9820 (Alexander PA 12/25)
- 11710 **ARGENTINA RAE** Buenos Aires in EG 0200, tangos, sports review, ID's, sked, QTH, nx w/mx bks, E-mail address (Robinson TN 12/10, Wolf OH 12/2, Kohlbrenner PA 12/15, Newbury NE 12/29)
- 11710 **NO KOREA R Pyongyang** in KR 1750, nationalistic mx, het from BSKSA 11708 (Witham AK 12/24)
- 117341 **TANZANIA RT Zanzibar** in SH 1845, pgm w/AR mx, tlk, drums, ID's, 1900, nx, variety mx, many ments Dar es Salaam, g (Klinck NY 12/13, GIB ARGENTINA 12/26)
- 11735nf? **SOUTH AFRICA TWR** relay in EG 0630, "Your prayer for today & everyday", IS (Witham AK 12/26)
- 11740 **INDIA AIR Panaji** Goa in EG *1526-1545*, 4 pips, ID, nx, sports, //9700, g (Kohlbrenner PA 12/14)
- 117446 **CHILE R Voz Cristiana** in SP 0120, anmts, ID, relig mx, //6070, 11690, 15375 (Alexander PA 12/25) in SP 0417, gospel mx, relig tlks, QTH in Miami, FL, g (Eramo ARGENTINA 12/20)
- 11750 **QATAR QBS** in AR 1648-1703*, radio drama, pips, ID, nx, abrupt s/off, g (Brandi NJ 1/9)
- 11765 **ASCENSION IS BBC** relay in EG 0357, "Network Africa", contest details, pips, "The World Today" w/ rpts on Clinton trial, Wall St records, press review, f (Moats OH 1/7)
- 11885nf **SEYCHELLES FEBA** in Somali 1732*, ID, IS, f w/co-channel QRM, //9810 better (Hill MA 12/18)
- 11910nf **GERMANY Swiss R Int** relay Julich in EG 2001, nx, "World Radio Switzerland", ads, //13700, f (Moats OH 1/2) in EG 2010, major news stories in this year in Switzerland, ID (Krause OH 12/31)
- 119404 **CAMBODIA Nat VO Cambodia** in EG/lang 0006, SEA vccls, p/adj chan QRM (Kohlbrenner PA 12/16)
- 11975 **MALI China R Int** relay in EG 2000, IS, ID, world nx, feature, //15500 (Fraser MA, McGuire MD)
- 11990 **KUWAIT R Kuwait** in EG 1800, tlk on Islam, drama, pop mx, ID, fgy, addr (Klinck NY, Pasquale PA)
- 11995nf? **PAKISTAN R Pakistan** in Hindi? 1140, sub-cont mx, ID 1200 "Radio Pakistani", nx?, signal poor but in the clear & fluttery, listed //s 9510 & 13580 not audible (Ziolkowski NY 12/21)
- 12010 **SINGAPORE Swiss R Int** relay in EG/GM 1450, EG to 1500, ID, into GM 1500, p (Rigas IL 12/30)
- 12130nf **SOUTH AFRICA AWR** relay Meyerton in EG 1744, relig tlk and mx, ID, QTH, f (Krause OH 12/26)
- 13630 **JAPAN R Japan Tokyo** in EG/JP 2145, tlk, ID, sked, pips, into JP 2200, f-p (Ziolkowski NY 12/26)
- 13670 **NETHERLAND ANTILLES R Vlaanderen** relay in EG 2230, IS, ID, wx rpt, g (McGuire MD 12/24)
- 13695 **THAILAND RT** in EG 0030, world, financial, & cultural nx, sports rpt (Pasquale PA, Raymond NH)
- 15120 **NIGERIA RN** in EG 1505, nx, ID's, TC, fgy, "Musical Heritage" (Brandi NJ 12/23, Klinck NY 1/1)
- 151298 **NO KOREA R Pyongyang** in EG 2300, IS, ID, propaganda, mention Great Leader (McGuire MD 1/2) in SP 0035, bouncy female vcl, ID & tlk in SP, p (Ziolkowski NY 12/15)
- 15160 **ALGERIA R Algiers Int** in EG 1600, nx, press review, ID's, pop mx, //117152 (Alexander PA 12/12)
- 15170 **SAUDI ARABIA R Riyadh** in FR/EG 1545-1601*, tune-in to FR pgmg, at 1600 went into EG with ID and fgy but s/off abruptly at 1601 mistakenly running past their 1600 s/off (Alexander PA 12/12)
- 15170 **SOCIETY IS R Tahiti** in FR 0346, "Happy Days" theme, nx, into TT 0437, exc (Sgrulletta NY 1/5)
- 15200 **INDIA AIR** New Delhi in EG 1752, Hindu mx, ID 1800, f, //150759 (GIB ARGENTINA 12/27)
- 15210 **CHINA CRI** in CH 0947, EG lesson, sked, QTH, ID, into EG 1000, p, //17755 (Ziolkowski NY 12/15)
- 15230nf **IRAN VOIRI** Teheran in IT 0645, mx, ID 0700, p, //17605 (Witham AK 12/26)
- 15315 **NETHERLAND ANTILLES RN** relay in EG 1830, IS, ID, QTH, fgy, sked, nx, g (McGuire MD 1/6)
- 15360 **SINGAPORE BBC** relay in EG 2357, IS, Big Ben ringing in 1999, ID, "Newsdesk" including financial nx, sports nx including rpt on NBA lockout in USA (Moats OH 12/31, McGuire MD 12/20)
- 15395 **UNITED ARAB EMIRATES R Dubai** in EG 1630, world & local nx, wx rpt (Limbach PA 12/16)
- 15435 **LIBYA V of Africa** in AR 2056, African mx, ID 2100, tlks, g, //15415, 11815 (GIB ARGEN 12/25)
- 15450 **PHILIPPINES FEBC** in EG 0050, relig mx, ID, QTH, tlk on adoptions, f (Kohlbrenner PA 12/15)
- 15465 **PAKISTAN R Pakistan** in HD 1350, pips 1400, ID, into EG nx, f, //115701 (Kohlbrenner PA 12/14)
- 15550nf **MALI China R Int** relay in EG 2000, IS, ID, political & economic nx, p (McGuire MD 1/2)
- 15590 **JAPAN R Japan** Tokyo in EG *0100, IS, ID, very weak signal, //15570, 17835 (Ziolkowski NY 12/15)
- 15700nf **BULGARIA RB** Sofia in EG 1220, rpt on school drop outs in Bulgaria, ID (Krause OH 12/11)
- 15715nf **GERMANY RTBF** (Belgium) relay Julich in FR 1700, test xmsn, ID's in FR & EG 1730, discussions, This station is expected to return back to shortwave after several yrs absence (Rigas IL 12/22)
- 15820lsb **ARGENTINA Feeling FM** relay Buenos Aires in SP 0600, tangos, pips, nx, ID (Nozaki JAPAN 12/14)
- 17630 **UNITED KINGDOM R Napa** relay via Merlin Net One in EG 1100, special Christmas pgm, ID "This is Radio Napa in Cyprus" at 1120, QTH for rpts, vg (GIB ARGENTINA 12/25)
- 17840 **ANTIGUA BBC** relay in EG 1510, live svc from Kings College, lessons & carols (Newbury NE 12/24)
- 17870nf **SOUTH AFRICA Channel One** in EG 1800, "Newswatch", African topical nx, sports nx, ID's, drum sound break (Pasquale PA 12/5, Krause OH 12/13, Serra ITALY 12/17)
- 21510 **BELGIUM R Vlaanderen** in DT 1526, two men with phone interviews, //9925 (Humenyk ONT 12/13)
- 21740 **AUSTRALIA RA** in EG 2129, stock mkt rpt, features, ID, fgy (Moats OH, Levison PA, Limbach PA)

Clandestine, Tentatives, Presumed, or Unknown

- 59110 UNIDENTIFIED Brother Stair Overcomer Ministry pgm 0301-0358*, ID at s/off but no indication of xmtr site, exc (Turner MA 1/6) ED: Could be via the Julich xmtrs in Germany. LN (pg 23 of Novem issue) lists Overcomer ending at 0359 on 11660. Might be a parallel or replacement fgy.
- 59410 RUSSIA V of Russia in EG 2003, nx, "Music & Musicians", f, xmtr site unidentified (Moats OH 1/30) V of Russia* 0300, ID, nx following s/off of Vietnam Armavir relay. VOR probably using same site?
- 6165 CHAD(p) Radiodif Nationale in FR 2040, Afro pop mx, ID? 2048, p with QRM (Ziolkowski 12/26)
- 62398 CLANDESTINE LV de la Resistencia (Colombia) in SP 1058-1128, ID, fanfare, marching band mx, continuous vocals, fair signal but intermittent UTE QRM and fading to tune out (D'Angelo PA 12/14)
- 6315 CLANDESTINE V of the Tigrey Revolution (Ethiopia) in lang *0355, string instrument IS, into pgmg at 0400 with tlk, local mx, weak signal under rty station. Much better on //5500 (Alexander PA 1/1)
- 65201 PERU R Impacto(p) in SP 0002*, ancmt, NA, then "Viva el Peru", no ID heard (GIB ARGENTINA)
- 6575 NO KOREA R Pyongyang(p) in RS? 0954, vocal mx, weak but clear, no ID (Ziolkowski NY 12/21)
- 6665lsb UNIDENTIFIED Greek sounding pop mx 0415 interrupted by GK-sounding fishing-boat hollering. good audio. Pirates celebrating New Year? (Novello NC 1/1, Brandi NJ 1/1)
- 69001 TURKEY(p) Turkish Meteorological R? in TK 0525, ID?, wx rpts?, ment Ankara, mx (Brandi NJ 1/3)
- 71697 UNIDENTIFIED pgm of Oriental mx 0000/1200 but no readable speech. Possibly Xizang PBS China but ID almost impossible due to constant QRM from stations on 7170 most of the day (Hill MA)
- 7170 SINGAPORE RCS Olikkalanjiam Tamil Network (p) in Tamil 0007, subcont mx, ads (Hill MA 12/20)
- 7295 NO MARIANAS R Free Asia Tinian? 0930, new age mx, hi power test //15115 (Costello NJ 1/5)
- 8725usb UNIDENTIFIED "Ode to Joy" music box theme (38 sec loop), tlk in Asain lang (Novello NC 12/21)
- 9080 CHINA(p) CPBS I? in CH 1116, tlk, weak but clear, //6125 fair (Ziolkowski NY 12/5) 99.9% sure?
- 9165 AZERBAIJAN(p) R Dada Gorgud? in lang 1230, tlk, IS?, mentioned Azerbaijan, vg (Alexander PA)
- 9540 CLANDESTINE R Free Iraq in AR/EG 1650, discussion w/ment of Iraq, //11915 (Witham AK 12/21)
- 9665 BRAZIL(p) R Marumby? in PT 2005, futbol coverage, excited ancrs, sirens, ID? (Kohlbrener PA 1/9)
- 9900 CENTRAL AFRICAN REPUBLIC(p) R Minurca? back after several weeks absence at 2300, variety of pop mx plus Xmas songs, no tlk for 1 & 1/2 hrs!, dead air between songs, f-g (Alexander PA 12/4)
- 11540 CLANDESTINE R Kudirat relay via So Africa in EG 1910, political cmntry, f (Alexander PA 12/26)
- 11650 NO MARIANAS(p) KFBS Saipan? in RS? 1336, group of children singing (Costello NJ 12/31)
- 11725nf CLANDESTINE V of Oromo Liberation (Ethiopia) in Oromo or Amharic 1742, impassioned rhetoric, Wild Horn of Africa, vocals, uncreadable echo ancmt, off at 1758, fair w/muffled audio (Hill MA 12/2) ED: Bob reports also that this xmtn is sent out over rented airtime from Julich, Germany
- 12040 INDIA? AIR Panaji Goa(p) in lang 1645, subcont mx, long tlk, off 1730, no ID (Sugrelletta NY 12/19)
- 152556 IRAN(p) VOIRI Teheran(p) in EG 1224, tlk re UN Security Council, mx bks, into AR 1224, ID?, back to EG and sign off at 1226, weak sig and severe QRM, better using USB (Ziolkowski NY 12/27) 

Welcome to the following new NASWA members

- | | |
|--------------------------------------|------------------------------------|
| Rich Bisignano, Chester, NJ | Leonard Koleski, Toledo, OH |
| Jesse Bruner, Raleigh, NC | David G. Munoz, St. Louis, MO |
| William L. Burton Jr., Lynchburg, VA | Dr. Karen Murphy, Newport, RI |
| Larry Carroll, Tallapoosa, GA | Charles Nord, Lompoc, CA |
| Yoshinori Chiba, Osaka, JAPAN | Jack T. Pickering, Madison, NJ |
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| Garfield Clarke, Brooklyn, NY | John Sawyer, New Orleans, LA |
| Mr. Stephen N. Coci, Florence, SC | Richard L. Shelby, Danville, KY |
| Mr. W. D. Compton, Aberdeen, SD | Dennis Tackett, Indianapolis, IN |
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| David J. Hines, Lynn, MA | Jennifer Weinbrum, Denver, CO |
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March 11-13, 1999

Holiday Inn
Sumneytown Pike
Kulpsville, Pennsylvania



Last Test Before The Millennium!



Get there any way you can!

Plan to attend your favorite forums Friday and Saturday. Enjoy meeting with your friends in the Hospitality Room. Bring radio related items for the swap meet or to donate for the Silent Auction. Check out your friends receivers, bring one of your own for others to try!



No frills, just shortwave, longwave, mediumwave, pirates, and scanning. Once again you will enjoy the camaraderie of your hobby friends. Registration options include:

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Winter SWL Festival

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Colmar, PA 18915



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Address _____

City _____ E-Mail: _____

Circle FULL PARTIAL SPOUSE (Spouse Name _____)

Banquet Check: Roast Beef _____ Chicken _____ Registration Fee Enclosed: \$ _____

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(\$1 ea./6 for 55/ Special 13 for \$10) Total check/money order enclosed: \$ _____

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