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NASWA

The
Journal
of the
North
American
Shortwave
Association

Volume XXX, Number 1
January, 1990

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From The Executive Director

Chuck Rippel
1272 Parkside Place
Virginia Beach, VA 23454
CompuServe 72571,1046



January 1, 1990 marks NASWA's 30th year as a radio hobby club. Of those 30, the past 25 years have been devoted to dedicating our resources toward serving the Shortwave Broadcast listening enthusiast.

As I considered the content of this month's column, I reflected on some of the names of the many hobby leaders who have contributed their time and talents to our organization's growth, longevity and stability. Some of our newer members might not recognize everyone, but NASWA's success is the result of hobby leaders like Bill Eddings, founder of the club. Ed Shaw, Dan Ferguson, Don Jensen, Mac Leonhardt, Glenn Hauser and John Herkimer have all been at the forefront and donated their respective skills to both this club and to the hobby in general. Throughout all of our years, we shouldn't lose sight of the fact that it has been the membership which has sustained the organization, making its Unity and Friendship motto a true reality by sharing contributions and experiences through the *FRENDX* publication.

After the death of Mac Leonhardt, it was Bill Oliver who stepped in and kept the affairs of NASWA in order. As Executive Director and Publisher, Bill did it all, running the club, printing, mailing and recruiting editors. Today, we have 3 people bearing the almost impossible work load Bill did so well over the years. How Bill did it all, I have no idea. What I am certain of is that NASWA and the hobby owe Bill a debt of thanks for all his past and continuing efforts.

Our New Name

With this issue of the NASWA bulletin, its name will change to *The Journal of the North American Shortwave Association*. Webster defines a Journal as: an account of events, a record of proceedings, a periodical. Indeed, those interested in the listening

hobby may rely on NASWA in the future as in the past to define, present and record those events and articles pertinent to the hobby. Hence, a new name which also defines purpose.

Survey Says..

Recently, we conducted our first membership survey. Almost all members indicated wanting more and better services from the club. We first considered the content of the bulletin and how needs, as expressed by those members responding to the survey, could be addressed. In response, our Editor-in-Chief, Dr. Harold Cones, has added several new columns and in doing so, assembled what is certainly the most powerful editing staff in the hobby today. The experience and qualifications of the editors whose material you will be reading in this first issue of *The Journal* I believe to be unmatched in any hobby listening publication available today, be it commercial or club.

Not only did we add several columns for which members expressed a desire; the page count of the existing columns was increased or re-allocated as needed. The *NASWA Journal* is now budgeted for nearly 70 pages when editors need the space.

With its increased editorial quality, *The Journal* required a new look. You may remember that we sponsored a continent wide logo competition earlier in the year. The winner of the competition was Guy Atkins. Using the logo as a starting point, the graphics presentation of *The Journal* underwent a thorough facelift. This time-consuming task was undertaken largely by Kevin Atkins, assisted by Guy Atkins and John Bryant. *The Journal* is not only going to read better, it will also look better.

A surprising number of members asked for a reappearance of Charlie Louden-boomer. For those of you who may not

know the Loudenboomer story, here is a brief account. The Loudenboomer Report was a regular feature in *FRENDX* from the early 1970's till the early 1980's. CL, as he became to be known, took a sometimes severe satirical look at various hobby issues at hand. No one really knows who Charlie Loudenboomer is. The story goes that his true identity is known by a single monk who sees him now and again on occasions when Charlie comes down from his mountain top retreat. By popular request, I am happy to say that this month's Journal contains a genuine Loudenboomer Report done by Charlie's own hand (typewriter.) Perhaps the Loudenboomer report will again become a regular feature, only CL knows for sure.

With all new things come growing pains. Not appearing on our new back cover are some of the members of the Executive Council. Bill Oliver, Bob Brown and Glenn Hauser do not appear. We will grow past some of these small oversights in the next few months.

NASWA For The Nineties

The new look, name change and increased content are but a few examples of the enhancements which fall under the theme which begins with this, the January, 1990 issue: *NASWA For The Nineties*.

We look forward to the upcoming decade where *NASWA's* goal will be to increase its role as a foundation organization in North America supporting Short Wave Broadcast Listening. By Charter, *NASWA* focuses on only that hobby segment and will continue to represent its unique interests. Our Country List and Awards Program are already recognized as a hobby standard. We also look forward to increasing our interaction with other clubs and organizations for the betterment of the hobby.

Over the years, *NASWA* members have broken new ground in many hobby pursuits. Many of the breakthroughs and new experiences within the hobby were discovered and explored by our members. These experiences were shared through the monthly *FRENDX* publication. Don Moore has assembled over one hundred of the best

articles from the sizeable archives of *NASWA*. These will be made available through The Company Store for a reasonable cost.

The Store is the outlet for *NASWA* memorabilia and reprints and will be under the proprietorship of Rich D'Angelo. We hope owning these enhances your membership. Know also that the small "profit" we make helps offset operating costs.

Rich is also chairman of the Task Force looking into the feasibility of taped verifications. Please send your comments directly to him rather than to me or headquarters. I have forwarded what mail I have received to date to Rich. You can find his address along with the *NASWA* store announcement. Look for a page or two about the store further in this issue.

Finances

NASWA's history and future also demand a special responsibility along fiscal lines. In the survey, we asked our members if they would support a dues increase in return for increased services. Again, a resounding yes!

Because much of the developmental work over the past year has been done on a voluntary basis, generously donated by the Executive Council, Editorial Committee, Graphics Task Force and many individuals, we were able to hold expenses down and frankly, give members a real bargain. We now find it necessary to increase the yearly membership for *NASWA* from \$18 to \$23. This is effective for new members and renewals starting with the January 1990 issue of *The Journal*. The yearly increase is a little more than the cost of one lunch at a fast food restaurant.

The North American Shortwave Association looks forward to continuing its long standing tradition of service to members and the hobby. I hope you will find the new additions and improvements in the Journal to your liking. The staff of the North American Shortwave Association would like to welcome you to:

NASWA For The Nineties!

NASWA

NORTH AMERICAN SHORT WAVE ASSOCIATION

DR. HAROLD CONES
Editor in Chief
2 Whits Court
Newport News, VA 23606

I bet you have noticed a few changes in this issue of *FRENDX*! Since the changes are so many and varied, I think you might profit by knowing how and why they were made.

When I assumed the newly created position of Editor in Chief in November 1987, I did so in the midst of a major restructuring in NASWA. The Executive Board, sensing that a new look was needed for our publication, and desiring to relieve the time demands on the Publisher, charged the Editor in Chief with the task of upgrading the publication.

My first order of business was to appoint an editorial committee from among the people who had previously volunteered their services to NASWA. Bob Brown from Pennsylvania, Rowland Archer from North Carolina and John Bryant from Oklahoma agreed to serve on this committee. We began an extensive and comprehensive study of the publication, in both its traditional and historical forms. This in itself was an interesting project, since we were able to observe not only temporal changes in the publication, but also the hobby. This review led us to three basic needs for the new club publication: more emphasis on hobby education, a greater feeling of "club," and a clean, updated look.

The initial steps toward these goals were accomplished in various ways. A new column, Tom McElvy's *FRENDX Profiles*, was started to personalize the club and *From the Executive Director* was added to more directly involve the members with club leadership. A logo competition was launched, which resulted in the logo you see on the front cover. Guy Atkins, a graphics professional from Washington state and the winner of the competition, agreed to serve on the newly formed Graphics Committee. This committee, consisting of Guy, John Bryant, an architect, and Kevin Atkins, a graphics professional from Alabama (all very active in shortwave), was charged with pulling the publication together graphically.

During this period, the editorial committee published the first "Editor's Manual" in NASWA history. Thus, for the first time, the many editors producing the diverse columns were united by a common set of editorial guidelines. Also during this time, a real emphasis was placed on print quality, and, as many of you have observed, *FRENDX* began to look better.

This evolution led to NASWA FOR THE NINETIES and *The Journal of the North American Shortwave Association*. Why not the old historical name *FRENDX*? No one seemed to know where the name "FRENDX" came from and what it meant, and many people did not like it. As part of our new look, we changed the name, and it is our hope that our publication will become known as *The Journal*.

To enhance the educational value of *The Journal*, we have added several new columns, modified several others and increased the overall page count. *Destinations* is a new feature column designed to provide a more in-depth understanding of countries and cultures. The column will rotate quarterly between Mitch Sams discussing Asia, Don Moore discussing Latin America, and Bob Brown discussing Africa. *Destinations* will be kicked off this month by Mitch Sams. Mitch is the managing editor of *Fine Tuning* and is one of the most well known authorities on Asian shortwave and propagation. Next month, Don Moore will provide insight into Latin America. Don has traveled widely in Latin America and was a former Peace Corps member; he writes frequently for the hobby press. Bob Brown, NASWA Assistant to the Executive Director, former *Log Report A* editor, and NET director for the ANARC NET, has specialized in African shortwave for several

years and will round out the *Destinations* column with his considerable writing talent. *Listener's Library*, conducted by John Byrant, is a resource forum, devoted to highlighting books, maps, video tapes, magazine articles and general information of interest to the listener. Because of John's role as director of *Fine Tuning's* Special Publications, he has become familiar with the broad range of resources available to the shortwave hobbyist. John is also a top notch propagation expert and an authority on the beverage antenna. *Listener's Classroom*, conducted by Harold Cones (and you already know about him!), will answer questions sent in by members. A wide variety of well known personalities in the hobby will be called upon to answer submitted questions. Kap's *NASWA Awards Program* has expanded by a page so that Kap may provide not only award recipients, but also country lists and information on new awards. An additional change, made because of comments received on the survey forms, is the combining of the old four section *Log Reports* into two sections, *Tropical Band Loggings*, edited by well-known tropical band specialist Sheryl Paszkiewicz, and *International Band Loggings*, edited by Wallace Treibel, a long-time *NASWA Log Report* editor. The usual columns with which you are familiar remain basically unchanged, except for a new emphasis on education.

Another new column/service is *The Company Store* being run by Rich D'Angelo and Don Moore. *The Company Store* will offer such NSAWA memorabilia as sweat shirts, tee-shirts, hats and jackets. The survey forms told us that members wanted these items, and with the help of the hobby merchandising inroads made by *Fine Tuning*, Rich and Don were able to bring them to you quickly. I have already introduced you to Don, so a few words about Rich. Rich is on the Board of *SPEEDX* and is one of the most active log and QSL reporters in the hobby. He is chairman of the joint NU/FT Special Transmission Committee, a group exploring the possibilities of reactivation of old shortwave stations and tests transmissions from current non-shortwave broadcasters. *The Company Store* will also offer something unique to the shortwave hobby--a reprint service. *NASWA* has served the communications hobby for 30 years and the shortwave hobby for nearly 25 years. This rich heritage has been gleaned to provide over 100 reprints of past *FRENDX* articles which will be offered by *The Company Store* for a small fee.

I want to thank all those who have given so much of their time to make *The Journal* possible. At the risk of leaving someone off the list, these folks include: Chuck Rippel, Don Jensen, Jerry Berg, John Herkimer, Gerry Dexter, Bill Oliver, Bob Brown, John Bryant, Kevin Atkins, Guy Atkins, Rowland Archer, John Kapinos, Sheryl Paszkiewicz, Jerry Ervine, Wallace Treibel, Tom Sundstrom, Kris Field, Sam Barto, Bruce MacGibbon, Ted Bensen, Rich D'Angelo, Don Moore, Mitch Sams, Alex Batman, Dan Ferguson, Rich Arland, all those who entered the logo competition, and those who returned their membership surveys.

There are many changes, and I am sure many of you will not agree with them all. Before you form opinions, however, give *The Journal* a few months to "grow on you." These changes were implemented after a lot of study and the careful analysis of the member survey forms; the Editorial Committee feels confident that the desires of many members are reflected in *The Journal*. Enjoy!

Ameli

DXer's Forum

Rowland Archer
5524 Hawthorne Park
Raleigh, NC 27613
Compuserve 70075.117



Welcome to DX'ers Forum for the Nineties! I hope you all had a fantastic holiday and are enjoying the best mid-winter DX here in North America. Along with the other NASWA editors, I'm very excited about the changes in the Journal, and welcome the new columnists, several of whom have been significant contributors to DX'ers Forum in the past. I'll try not to forget and call our publication FRENDX, although that will be a hard habit to kick after 20-plus years.

Gerry Bishop has volunteered to keep track of airmail postage rates from the rest of the world to North America, and submit the tabulated results to DX'ers Forum for publication. Like many QSL'ers, Gerry often used dollar bills for return postage, and his goal is to understand how much return postage \$1 US buys. He will include a current exchange rate with the tabulation he submits to DX'ers Forum so you can make the same conversion yourself.

Anyone having valid information on international postal rates to North America can send that information to Gerry; sending it on a postal card would be fine.

If you are uncertain what the postage rate on an envelope is, you can send a clear copy of the envelope. If you send the original envelopes and want it returned, enclose a SASE. Please support Gerry in this worthwhile effort. It deserves your help. Send your information to:

Gerry Bishop
126 Dyer St.
Niceville, FL 32578

This month we have just enough room to present the conclusion of the two part DX'ers Forum Panel Session on QSL'ing. Thanks for the nice comments some of you have made on part I...and yes, we do plan to continue the Panel Session concept in the future.

QSL'ing Your Way to the Top: Part II

A DX'ers Forum Panel Session

With Gerry Bishop, Marlin Field, and Ed Kusalik

Forum: *Beyond writing a polite and factual report, many DX'ers have resorted to a variety of special techniques to succeed with stations which seem to answer only sporadically at best. These techniques have included registered mail, telexes, third party intermediaries, enclosures to distinguish your report, even phone calls. Do you find any of these measures to work well in ex-*

treme cases, or do you use another approach, such as regular follow-ups?

Bishop: I've never gotten a QSL for a report sent via registered mail, so I don't spend any money for that. Regular follow-ups do work — I have a QSL from Gambia to demonstrate that.

For that especially difficult to verify station which is part of a government net-

work, such as several of the local AIR outlets, a report to the principal offices has resulted in a QSL. I go this route after the follow-up delivers nothing.

Field: My main technique has been follow-up reports. I include a calendar, which has a beautiful scene on the other side with a Bible verse, a postcard from Michigan, and mint stamps with each follow-up. Don Moore some years ago carried some reports for me when he and his bride made a trip through South America, but even that method did not produce a report from Radio Cuenca in Ecuador.

Kusalik: I have found that the above methods do work, especially techniques to distinguish your report. Registered mail does indeed help if previous reports have gone unanswered or there is difficulty in getting mail to the area where your report is going. Then again, regular follow-ups to a station indicate your keen interest in that station's programming and the willingness to answer their correspondence.

Forum: *What reference material do you use in preparing reception reports?*

Bishop: I use three: the WRTVH, FRENDX's QSL column (Sam is doing an excellent job here) and Fine Tuning. I've got a stack of report forms and language guides to help translate my thoughts to the appropriate print.

Field: For non-English reports I started out with an article in *How to Listen to the World*, by Johansen, on how to write reports in Spanish, Portuguese, and French. Later I added word lists in Spanish and Portuguese published in FRENDX as well as an Indonesian form letter and word list found there also. (Members of NASWA didn't have to pay extra for such helps then as they do now.) During the summer of 1967 I took a one-year course in Spanish at the University of Colorado in Boulder. Since then I've been writing my own letters in Spanish; like President Carter, I do my daily devotions in Spanish (*El Aposento Alto*, 1908 Grand Ave., P.O. Box 189, Nashville, TN

37202-9929—\$4.50 per year) and do some reading in Spanish to keep the language fresh. On occasion I need to consult my Spanish-English dictionary when writing reports. Names of stations and names of persons to whom I write my reports come from the WRTVH, with additional names being taken from Sam Barto's QSL Reports.

Kusalik: The reference material for station addresses is WRTVH since getting my first edition in 1968. For current information about what's happening with particular stations I consult various DX programs or DX bulletins such as *Fine Tuning*. In writing reception reports I use various ways instead of one particular form as I feel that each station may require a different approach. I find too that various QSL reports of different organizations help to find if the station is verifying. An excellent source for writing different language reception reports is the *Language Lab* series put out by Tiare Publications. Then too, I use my own phrases as well as a good dictionary for Indonesian, French, Spanish, and Portuguese reports. I also consult with third party organizations if I need a particular language for a certain station.

Forum: *How do you handle record keeping related to reception reports, QSL's, and NASWA awards? Do you use a computer, and if so, which software?*

Bishop: Everything's on paper, somewhere. I update the master lists about twice a year. As I've not yet met a computer that doesn't emit RF, I won't have one here in the shack.

Field: I use 4" by 6" notebooks from the dime store to record information such as the date the report was sent, the name of the station, frequency, the number of the report—whether it's #1 or #3 to the station—and the number of the station (the number represents the number of stations I have heard on shortwave)—all in columnar form; there is also a column for entering dates when a QSL is received. (I have a similar notebook for medium wave.) I do not maintain a log on stations. As soon

as I have verified a station, I destroy my notes; notes on stations reported to FRENEX, with the exception of those that have not confirmed my reports, are also destroyed.

I record the stations that I have verified and those that have sent pennants in a similar notebook. Periodically I type the stations that have verified, along with the frequency and location, in a 8 1/2" by 11" looseleaf notebook. Stations are listed by country, the countries being listed alphabetically. Stations that have sent pennants are marked. Thus it is easy for me to tell which stations have verified and how many have verified from each country. (The most is 110 from Brazil.) I also keep a running total of how many shortwave and medium wave stations I have verified in each Latin American country and how many pennants I have from each country. At a glance, for example, I can tell that I have verified 55 shortwave stations and 40 medium wave stations in Colombia and have 47 pennants from that country.

Kusalik: Presently I do not use a computer for my reference storage. Instead, I use an old reliable method of a logbook, going back to 1969, in which I keep a diary of the stations/countries heard, particular details, and QSL returns. In addition to this I use a 3" by 5" index card holder, listing area and country verified. Example: Pacific Tonga - 5030 kHz. There is also a scoresheet of what stations have been heard and verified, and a separate sheet for date report sent out, station, and date report/QSL received. Particular countries and their reports are kept in a filing cabinet and kept updated. And if that is not enough, binders on particular countries which include reference material and profiles. This holds as well for keeping track of awards programs and the current status of countries/stations heard and verified.

Forum: *Most successful QSL'ers seem to use follow-up reports. Please describe your approach to follow-ups: do you use them, and if so, how often, how do you prepare them, what reminds you to send them? Do*

you always send to the same person at the station, and if not, how do you choose?

Bishop: Generally when I'm updating the list I get the little nag that it's time to send a follow-up, if I want a QSL. I will try for a fresh reception before I send a follow-up to an older report, and I use the most current v/s I have listed. If the name I have is more than a year old, I send the report to the station without naming any specific person.

I find writing follow-ups one of the least satisfying--but necessary--aspects of receiving QSL's

Field: I use follow-ups. If possible I include new details of reception, along with details of the previous report, with each report I send. I do not have a set rule as to when to send another report but usually not before three or four months. The 29 I sent to La Voz del Tigre, Venezuela, 3255 kHz, for example, were sent over a short period of time, compared to the 23 I sent to Radio Amazonas, Peru, 5060 kHz, which was one of the first stations I heard back in 1960, when the first report was sent, and the last one sent in 1989, when I verified the station. Having the time—or taking the time—has been the biggest consideration in deciding when follow-ups go out. I say “taking the time” as I find writing follow-ups to be one of the least satisfying—but necessary— aspects of receiving QSL's. I sent reports to persons listed in WRTVH and those in FRENEX, primarily in Barto's column, although some in the past were found in Glenn Hauser's section. By looking back at my records it is easy to tell how long it's been since I wrote to each station and whether or not it has verified (procedure explained earlier).

Kusalik: My approach to follow-ups varies with each station that I am writing to. After no reply from a station, say within six to eight months, from the date that I first sent the report, I initiate steps

for a follow-up. First I check if the station is still active on the radio bands. Then going back through QSL Reports, see if the station has been verifying reports. If so, then check if the address is correct for the initial report that I sent. If there is a verie signer I may use it, but generally I direct it to the title of the verie signer. Example: Mr. John Doe, Senior Engineering Department .. I would send to the Senior Engineering Department Staff..as personnel do change. I explain why I am writing to his/her station, asking if it's possible for a confirmation, even if my report may be out of date. I ask if my previous correspondence had reached them. I have found that on the average it takes about four to five follow-up letters for some of the difficult stations..with more difficult stations as much as a dozen reports. I try to make my follow-up reports as interesting as possible.

Forum: *OK, it's time for some QSL bragging and war stories. What are your favorite two or three QSL's, and why? What was your hardest to obtain QSL? How did you get it?*

Bishop: Bhutan is my best, but it took only one shot with a tentative report. (A more positive reception later did not get a QSL. This is another of life's little ironies.) Hearing this one from the Philippines was nearly as difficult as from NAM. The QRM was terrible.

Gambia and **FIBS** were both the result of good follow-up reporting. In the case of FIBS, it took five years of regular, carefully prepared letters and reports. All were nearly identical, and I don't know why one, and only one, got a reply; or why that took five years.

Radio Gambia cost me ten years of airmail postage before I got that precious answer. The station was so nice, and generous, in the reply that I really believe they never did get any other reports, as they claimed.

After all that, though, my favorite is still **Radio Nederland** for 6165, Bonaire. It was my first.

Field: My best QSL is from the Mt. Kenya Regional Station at Nyeri, Kenya, broadcasting on 6170 kHz. It is special for several reasons. For one thing, the station was heard on my first shortwave receiver, a Roland AM/SW portable radio from the Alden's Mail Order House in Chicago (at \$65). The antenna was an old piece of television antenna running out the window of the dining room and tied to a tree limb outside the house; I tied the antenna to the limb using a step ladder. Also, the station confirmed that it was using 250 watts.

I made no special effort to hear the Kenya station; it was an accident; DXing was new and I was trying to see what I could hear, especially in English, which this broadcast was in. (I heard the station two evenings straight around 0400 UTC.) In contrast I made a special effort to hear the next two stations. I probably made my biggest effort in country chasing when I verified Radio Kiribati. When I first heard about the station it was broadcasting around 16,655 kHz (not sure of the exact frequency now.) This I do recall; my receiver, not having the appropriate crystal, would not pick up the station. The next step was to order a crystal from the Drake Co. in Ohio. Even with the new crystal I could not hear the station. Then it moved to 14,802 kHz. Again I had to order a crystal. After many attempts I finally heard the station, and after three reports received my QSL card.

When we first moved to Hillsdale, we lived in a mobile home. The antenna for my radio, a long wire, was suspended a few feet above the trailer on poles used in making television antennas; the antenna was 50 feet long, the length of the mobile home. During this time AFAN, McMurdo, Antarctica, started broadcasting on 6012 kHz, but I was unable to hear it. I bought two more poles, either five or ten feet long I don't recall which, and raised my antenna by that much. Then I could hear AFAN. A few days after that, fearing that the wind might blow the antenna down, I lowered it to its original height; that was my great year for Papua New Guinea; it was on the lowered antenna that I heard and verified all the stations

that were broadcasting from those DX countries at that time.

Kusalik: My favorite QSL's...well, they're all special to me...but the ones that come to mind are: **KGEL**, in California...why, well it was my first QSL card that I received. For this one I sent a three-hour reception report of a telecast football game. It was my first attempt at writing a reception report and I didn't know quite what to write in my report to them. But anyway, I got that first QSL card in three weeks from them. That happened back in December of 1965.

My first DX QSL card came from **Radio Clube de Cabo Verde**, CR4AA, 3883 kHz. This was in the Spring of 1970. I heard the station, sent an English report with no return postage, on a two page foolscap. Reply came in about one month. Another from Africa...**Radio CORDAC**, Bujumbura, Burundi, 4900 kHz, received their QSL card five days before the station closed down for good in 1977.

The hardest QSL to obtain to date would be the following two: **Radio Zanzibar**...and **Radio Pyongyang**. **Radio Zanzibar** was first heard way back in February of 1975 on 3339 kHz. I sent a report with return postage and a postcard, knowing that my first attempt may not pan out. After that I sent follow-ups, and more follow-ups, with fresh reports, registered, double registered reports and still no replies. It wasn't till April of 1987, that I finally received a verification letter from the Chief Engineer for my report. A total of 12 years of trying. The other station...**Radio Pyongyang**...took a total of 22 years of follow-ups, fresh reports, some in English, an attempt in Spanish, and I even wrote in Czechoslovakian! I wrote to the Embassy...at one point I thought of changing my name thinking that I was on their "black list". But then, I read that reports, some of them, were being verified via England...so I wrote to Mr. Arthur Ward, in the United Kingdom. Through his help I was able to get a verification from **Radio Pyongyang** in two months time, after all those years of trying! To date this is the longest I've tried for a verification from a

station. Persistence does pay off in the end.

There are others, all with their own interesting stories...the **Cambodian Caper**...the Nigerian "who do I send the verification to" and the Ghana "love letters."

Forum: Thanks for your time and ideas! Any other tips you'd like to describe, or closing comments?

Bishop: One part we've not addressed here is the "thank you" for the QSL. I always send a card, via surface mail, to any station which QSLs a reception. There's no telling how many stations trashed this, or the number which took it to heart. I am certain it benefits in the long run. It's quite possible that some stations keep track of who sends thanks, and will QSL again as a result. Your thanks for a QSL could ensure mine in the future. My thanks to a broadcaster may have prompted your verification already.

Despite the numbers, I'll still prefer listening to the message over having the moment of that message. I'm convinced it's much more important to spread the news that a station is on the air, and audible in NAm, than to wave a QSL as a result of that brief reception. I realize that not everyone shares this view, but I sincerely hope the number of those who would keep the good news a secret continues to diminish.

Thank you, Rowland, for this opportunity to discuss QSLing and some of its aspects. I trust this won't be the end of the sharing within the DX community of all the information we have available throughout the hobby.

Field: The kind of hobby DXing is depends on how much time and money one is willing and able to invest. It certainly takes less investment on one's part if all he/she does is to listen to shortwave radio, hears different stations, but does nothing about verifying them. One is much more involved in the hobby if he/she attempts to verify each station heard. I did the one before 1960, the other since then, and I can say from personal ex-

perience how collecting QSL's and pennants has affected my life. For one thing, I learned about missionary radio stations and their financial needs and as a result have contributed financially to a number of them for many years. Also, I have met individuals that I would not have met had it not been for my collecting QSL's. I have met some by attending meetings of clubs, such as NASWA, UNO, ANARC, and the Michigan DXers' organization. When I was teaching at Lake Michigan College in Benton Harbor, Michigan, the program director of HRVC, Tegucigalpa, Honduras, came by where I worked. He gave me a large pennant, ordinarily reserved for churches that supported the station, and two pieces of wood Aztec art, not originals but deeply appreciated. They hang on the wall of my study. Ron Youngs made a special effort to see me. It was a hot day in August. He had his family with him in a car which was not air conditioned and which was pulling a U-Haul trailer with their belongings. They were headed for Iowa, where they would live for a year before returning to HRVC.

My wife and I have had the opportunity to entertain in our home persons that we would not have known had it not been for my hobby. Last year we entertained missionaries from HCJB-FM in Guayaquil, Ecuador. We were the first persons they contacted after arriving at her mother's in North Adams, Michigan. They wanted to present a slide program about their work in Ecuador at our church. We invited them to dinner and as a result we saw the slide presentation. They wanted our reaction as no one else had seen it before. It was a program they had put together with their small children as narrators of the program. It was great! The year before we hosted Jorge and Denise Zambrano and their children from Quito. In addition to working for HCJB-TV, Jorge produces the program, "Musica del Ecuador," on HCJB shortwave, a voluntary effort on his part, to make sure that the music presented is Ecuadorian. Some years ago, when the pretuned radio was an important part of the ministry of HCJB, we had a visit from the person in Ecuador responsible for the project. For

several years we had visits from a representative of SIM International, which operates ELWA in Liberia. Last year a representative of the Latin American Mission, which has ties with TIFC in San Jose, Costa Rica, stopped by. As a result of an article in our local newspaper about my hobby, I've been able to explain DXing to some of my acquaintances and to help one person get more involved in the hobby. Another person, upon seeing my name and address in his first copy of FRENDEX, came to visit, since he only lived thirty-five miles away, to find out more about collecting QSL's and pennants.

Yes, DXing is more than "country chasing," it has to be if it's going to be more than a "passing fancy," of interest today but not tomorrow; otherwise I would not be celebrating thirty years of DXing in 1990.

Kusalik: Closing comments..I'm still learning about QSL'ing..there is no set way for me to write to each different station. After all this time there are all kinds of approaches..use the best one you find that helps you. In QSL'ing, in particular the difficult stations, remember that you are trying to present yourself to the station, just like a job interview. Your credentials are the reception details that you heard from the station. Make them interesting and you will find that in most cases, a reply will come, but be patient. Good Luck!

* * *

On behalf of the NASWA membership I'd like to extend my warm thanks to Gerry Bishop, Marlin Field, and Ed Kusalik for sharing their personal approaches to QSL'ing and the shortwave hobby with us. The resources of NASWA ... our senior members for their years of experience, our junior members with a powerful thirst for learning about the hobby ... this is what makes NASWA great, and I look forward to bringing the resources of NASWA together in DXers Forum through NASWA for the Nineties! See you next month.

Easy Listening

Alex Batman
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Boone, NC 28607

First let me start the new year out right by apologizing for a couple of recent inaccuracies in the column, both concerning BBC programming. Both "Health Matters" (which I listed on Tuesday night at 0215) and "Talking from..." (which was listed on Thursdays at 0145) were cancelled and replaced by other series a week after I sent the column off to FRENDEX (some radio stations like to make life difficult for an editor, it seems). Since I do the column a month in advance, this January column is done at the end of November rather than at the end of December, sometimes shows are cancelled after it's too late to make any corrections. Please accept my apologies for the inaccuracies that may creep into the column from time to time.

SUNDAY

1120-1125 China Anthology (Radio Beijing). A five minute program featuring selected incidents from Chinese history. Recently the show has been running a series on famous Chinese military campaigns of the past. (17.855. Repeated at 1220 on the same frequency, at 0020 on 17.855/17.715/15.130 and at 0320 on 9.690).

MONDAY

2205-2225 Around Lithuania (Radio Vilnius). The effects of Glasnost are evident in this program that every other week features a town or village in Lithuania, its history, main industry, folkways, etc. Program is sometimes critical of the bureaucracy, the train system, or other aspects of Soviet life (7.400). Every other week.

0045-0100 This is America (V.O.A.). A special English program devoted to life in the United States. Past programs have featured a two-part series on West Side Story, a tour of the Rocky Mountains, a tribute to Irving Berlin (shortly after his death), and even a program devoted to the 20th anniversary of Special English programs on the VOA (5.995). Not on 6.130/9.455 which carry different VOA programming.

TUESDAY

1140-1155 Listeners' Letterbox (Radio Beijing). A mailbox program which answers listeners' questions about life in China. Past programs have featured points of interest in Beijing, historical landmarks in China, the Chinese diet, and how safe is to visit China now. (17.855. Repeated at 1240 on the same frequency, at 0040 on 17.855/17.715/15.130 and at 0340 on 9.690). A repeat of an earlier broadcast on Sunday at the same times and frequencies.

1345v-1350 Sports (B.R.T.). Usually begins with a run-down of events and standings in the Belgian soccer league, Division I & Division II, with a description and analysis of one or two key games. Also includes other sports which either take place in Belgium or involve Belgian participants: tennis, cycling, motor racing, golf, etc.

WEDNESDAY

- 1200-1210 Sports Fare (Radio Finland). Discussion of sports taking place in Finland or of international events in which Finns are participating. An example is the round the world yacht race currently underway. Quite naturally, cross-country skiing is a big item, but so is soccer, tennis, rowing, etc. (21.550/15.400. Repeated at 1315 on the same frequencies).
- 1330a-1355 Latitude (Radio Canada International). Radio Canada's program devoted to culture in the north country, usually two or three segments per program. Past programs have featured an author's convention in Toronto, an interview with a Quebec film-maker who is called the French Walt Disney, an interview with an oboist for the St. John's Symphony Orchestra, exhibitions of native Canadian art by women, etc. Quite a good program if you're interested in general cultural concerns. (17.820/11.855/9.635).

THURSDAY

- 0130-0145 Jazz Scene U.K. (BBC). Feature on the state of jazz in the UK, featuring music by the best known British jazz artists, usually three or four songs per program, always good selections. (5.975/9.915).
- 0220-0225 Socialism in Construction (Radio Bucharest). This is your meat if you like run down of meaningless industrial statistics, such as tons of steel produces in 1985 compared to 1989. Get the picture? (11.940/11.830/9.570/9.510/6.155/5.990. Repeated at 0420 on the same frequencies).

FRIDAY

- 0130-0135 Economic Report (Radio Prague). Even before the recent events in Czechoslovakia, this program was discussing restructuring in the economic forum in Czechoslovakia, including limited free-market enterprises and joint ventures with western countries. Some programs also feature a particular industry, such as metallurgy or the chemical industry. (5.930/7.345/9.540/11.990. Repeated at 0330 on the same frequencies). Every other week.
- 0240-0255 Listeners' Letterbox (Radio Bucharest). Although this program has the same title as Radio Beijing's mailbag program, it does not have the regularity of appearance. It is sometimes aired on Fridays and sometimes not. You're guess is as good as mine when it comes to guessing when this one is going to appear. Reads listeners' comments and answers to their questions.

SATURDAY

- 1135-1155 Music from China (Radio Beijing). Features traditional Chinese music and folk songs, the program usually organized around a single singer or folks songs played on a particular instrument or from a particular region. Good traditional Chinese music. (17.855. Repeated at 1235 on the same frequency, at 0035 on 17.855/17.715/15.130 and at 0335 on 9.690).

ASIAN Destinations

Mitch Sams
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Welcome to **DESTINATIONS**, a new column which each month explores a particular location on the globe from a shortwave listener's slant. My name is Mitch Sams and I will be in the editor's chair every third month when the topic will be *Asia*. This column is also shared by two other editors: Don Moore and Bob Brown. Don will take us through Latin America while Bob is tour guide for the continent of Africa.

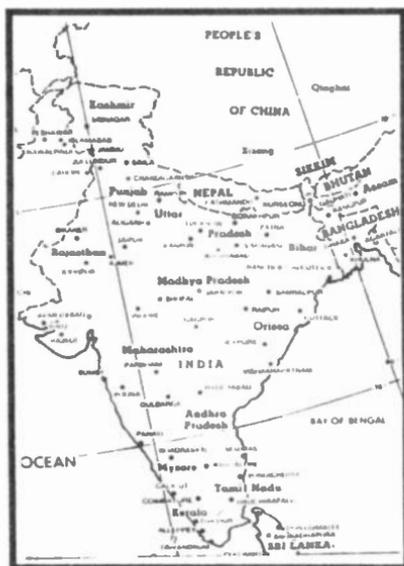
It is our hope that this column will provide a forum for discussion concerning specific locations on the globe and their radio networks.

INDIA

All aboard, our destination is India, one of the most exotic places on earth to visit or hear on the radio. From the other side of the globe India's radio voice can be heard on the international bands as well as the tropical bands (60,90,75 meters). The programming is distinctive and intriguing. The traditional Indian music, sometimes referred to as "subcontinental" music, rates in my book as some of the most beautiful I've ever heard. And, from the first time you hear the interval signal for the government's shortwave voice, All India Radio, you'll never forget it and will always recognize it the next time you happen upon it.

English is the second language of India, going back to her roots in the British empire. English is heard quite often over external and regional transmitters. Hindi (in the Devanagiri script) is the official language of India, but there are at least 15 other languages which are recognized and strongly used in various regions of the country.

Radio plays an important role in India. She has the 2nd highest population of any country in the world and is the 7th largest in land area. Television is relatively underdeveloped, and with a high illiteracy rate that exists in the rural areas, radio becomes one of the most



efficient methods of communication. The results of long-planned upgrades to the All India Radio network are just now beginning to be fulfilled. Recently new transmitters have come on line with more planned in the near future. It only means good things for shortwave listeners as India bristles with renewed shortwave activity.

All India Radio's international service is audible in North America on a fairly regu-

lar basis throughout the year. For me the most consistant reception of AIR's General Overseas Service in english has been the 1330 UTC transmission on 11810, 9565 or sometimes 15335 kHz. This service opens a few minutes before 1330 UTC with the flute interval signal and follows with a news bulliten. 9565 kHz is currently the best outlet to hear this broadcast on. 11810 kHz has lately been inaudible (this frequency has been in use since at least 1972 when I first heard it).

Other times and frequencies to watch for English on the International bands would be around 1845 to 2200 UTC on 11620 and 7412 kHz. 11620 is heard quite often at other times as well in different languages. Or, the 1000 to 1100 UTC broadcast to the Pacific on 15155, 11925 or 11860 kHz. And another possibility is the 0000 to 0115 UTC transmission on 15110, not often heard.

During periods of high sunspot activity one can often hear the 0100 to 0400 UTC non-English transmissions in the 15 and 17 MHz bands.

Tropical band DX from India has many possibilities, but definately is seasonal in North America. Peak reception time is now (December through February) heard best just after local sunrise. One can watch the dominant 90 and 60 meter crew change from Papua New Guineans in September to Indonesians in October and November as the favored propagation path swings west. The first occurance of deep sub-continental propagation may be marked by a sudden absence of Indonesians one morning on 90 and 60 meters. The listener may notice stations on frequencies which are not normally occupied and may hear that distinct Indian music on frequencies usually carrying gamelan or



or Chinese opera. Reception usually peaks just a few minutes after sunrise and may stay in as much as 30 minutes longer.

I've noticed over the years that my loggings of Indian regional stations on 60 and 90 meters were more numerous in those years right around the solar peak.

Right now DXers in North America are hearing regional outlets in our local evenings on 60 meters (4860 and 4990 kHz). Check between 0000 and 0030 UTC.

QSLing All India Radio is not as easy as one might expect. Response time is often several months for reports of their external services, and longer yet or even not at all for reports of their regional outlets. Most reports are answered from Delhi with the standard AIR QSL card, even for regional reports mailed direct to the transmitter site. Those reports are often forwarded to Delhi. However there is one bit of good news on the QSL front, most stations have personel who speak English, so reports to AIR in Hindi are not required.

One last thing, see the November *Listener's Notebook* for an excellent listing of transmissions from All India Radio.

73zz and good hunting!

Mitch Sams
Mitch Sams

The challenge: DXing Indian regionals on 90meters.

The following is a list of regional stations. An * indicates it was logged in N. Am in the last three years: 3205 10 kw AIR Lucknow*, 3295 10 kw AIR Delhi*, 3223 2.5 kw AIR Simla, 3305 2 kw AIR Ranchi, 3235 10 kw AIR Gauhati*, 3315 10 kw AIR Bhopal*, 3255 50 kw? AIR Shillong*, 3345 2 kw AIR Jammu, 3268 2 kw AIR Kohima, 3355 10 kw AIR Kurseong*, 3277 7.5 kw AIR Srinagar, 3365 10 kw AIR Delhi*, 3375 50 kw AIR Gauhati*.

Listener's Classroom

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Welcome to the first session of *Listener's Classroom*. Each of you will serve as an instructor in this classroom, since it will be your questions that are answered each month by the most active people in the hobby.

The question this month comes from no particular reader, but is rather a topic of discussion at virtually all the shortwave gatherings I have ever attended: "Where are all the young listeners in the hobby?" Indeed, data gathered by ANARC (the Association of North American Radio Clubs), as well as NASWA, suggest that the average age of the shortwave listener is increasing each year, and only a few, a very small few, teenagers join our ranks annually. Many a beer (and root beer) has been consumed pondering why this situation exists. The usual answer offered up is that young folks today are hooked on the instant gratification of computer games and simulations--bright lights, fast action and friendly competition. The discussion always gets around to the fact that shortwave is a loner hobby and perhaps young folks are too social to indulge in such things. "Most peers," someone will say, "understand the significance of scoring eleven zillion points in a NINTENDO game, but very few understand the thrill of receiving a QSL from Mauritius, especially when they have no idea where Mauritius is". Peer pressure?

Other reasons surface. Modern shortwave receivers are like instant TVs--turn them on, and BINGO, instant gratification. No skill involved, save that of knowing how to push a button. Remember when you had to wait for a receiver to warm up before you could listen to it? And once it was warm, there were a myriad of controls to set "just so." Often you had spent many hours in building the receiver from a kit and erecting the antenna. Hearing a station on one of the old "tubers" meant you had to have operator skill, and there was a real sense of pride in using your own gear to hear the low-powered stations that existed in the "old days". Perhaps, for the fast-moving teenager of today, there is "no big whoop" involved in the technological black boxes that are called "state of the art" receivers, especially when they are receiving million-watt stations on built-in whip antennas. Wonder what would happen if shortwave were introduced to today's teen via the challenge of a Hallicrafters S-38 or a Knight Space Spanner?

My youngest daughter recently become interested in photography. To encourage her, I set out in search of *Popular Photography*, the larger of the two photography magazines I remembered from years back. When I finally found one, it was a very thin version of its former self and was combined with another photography magazine to boot. When I was younger, photography (and shortwave listening, for that matter) was a major hobby, especially among teens and college students--now I find the two major photography magazines combined into one, obviously because there was not enough interest to support two. Where, I wonder, are all the hobbyists in photography? Could it be that the ads for "miracle cameras" scared them away--just as shortwave receivers have become computers that also receive broadcast stations, modern cameras are computers that also take pictures. Perhaps knowing that a good picture resulted from your ability to measure light, set f-stops and calculate exposure once provided the thrill in the hobby. On the old technology cameras, a good picture was a measure of your skill, rather than a measure of the freshness of your batteries.

As the father of two teenagers, I often see school work sat aside as teens and college students take part-time jobs to support cars, girls, and clothing stores. The latest data says that a whopping 90% of high school students hold part-time jobs--90%! This high work rate is uniquely American--the figure is 40% for Canada and only 2% for Japan. Could it be that modern American teenagers do not have time for a

hobby? Has shortwave listening waned for the young, just as photography has, because of a lack of time to devote to a hobby that provides no sense of thrill and accomplishment? Although certainly not a Gallop poll, I asked 550 Introductory Biology students at an urban 4-year college, "Do you have a hobby?" Only 8% answered yes. I don't know if I should be sad, sympathetic, or mad. At least it is something to ponder. I think I will lend my Hallicrafters S-120 to the young man up the street who has expressed a minor interest in the hobby. If I can just bring back some of the thrill, excitement and romance for him-----.

Next month I would like to feature your question in *Listener's Classroom*. Remember, I will be asking others to answer your questions, so it may take awhile for your answer to appear. I will look forward to hearing from you.

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SWL - (a PC to Kenwood R-5000 control Program) controls a R-5000 Communications Receiver from an IBM PC XT or AT or compatible personal computer. It shows, in real time as you turn the dial, full information on memory channels including name of station, mode, function, when last heard, SINPO, and comments as well as frequency and local and UTC time. SWL computerizes logging of stations and printing of log report. It backups memory to disk for archive and even allows for quick changes of multiple groups of 100 memories. This program has been tested by Kenwood Communications and is on their software list. This program supports color and mono monitors and both serial ports and has full documentation.

SWL is available with a money back satisfaction guarantee for \$49.95. Send a check or money order to: Timothy R. Hickman; 1342 Brook Road; Baltimore, MD 21228

BELATED THANKS

Before I begin this month's column, I think a few thanks are in order. First, I would like to thank all of you who expressed concern when no December Technical Topics Column appeared. No, I didn't finally succumb to the earthquake. Instead, the U.S. Postal Service apparently laid some "QRM" on my column. Second, I would like to thank all of you who wrote with your offers of help, concern, and best wishes after our October earthquake. In particular, I would like to thank NASWA member Bob Rydzewski and his gracious wife Jan. These folks live right in the middle of the epicenter area. Even so, when they found that I had sent my wife and kids to a safer area, and that I was temporarily alone through the holidays, the Rydzewskis "adopted" me. They treated me to a wonderful weekend of home cooking and radio talk. I have a suspicion, though, that Bob also wanted the opportunity to show off his new NRD-525! Anyway, this has shown me that although NASWA is a nationwide organization, we are still a friendly and even personal group. Well done, NASWA!

NOISE

With the coming of winter, much of the QRN, or natural noise, has retreated until the return of summer. Static crashes, atmospheric noise, and sudden changes in propagation are at a seasonal low. Unfortunately, QRM, or man made noise, is always with us. There are some things that can be done about QRM - if you know the causes, and how to eliminate them.

Light dimmers, especially the older ones, can generate the most obnoxious buzz almost everywhere in the shortwave spectrum. Similar noise can be heard from "rapid-start" fluorescent lights. Finding the noise source involves classical direction finding techniques. A portable receiver with external antenna input is ideal. Fashion a wire loop, or obtain a UHF TV "rabbit ear" loop, and connect it to the receiver. The loop will be very directional, with a peak being in the plane of the loop. Because the loop is rather insensitive, you will be able to "sniff" out the noise source by going room to room. Don't forget outside lighting fixtures, including the mercury and sodium lights you can buy for your yard. Once you have found the offending item, how do you silence it? If the item plugs into the wall, you can obtain an effective noise suppressor that plugs-in between the wall and the noise source. If it is a hard-wired item, you can obtain noise suppressor that can be wired across the source itself - these are available from electronic supply houses. For the ambitious, the *Amateur Radio Handbook*, published by the American Radio Relay League, has many excellent circuits you can build yourself for noise suppression. Their *QRM Handbook* is also an excellent source of information about noise detection and suppression.

INTERFERENCE

The term interference can cover a wide range of problems. The most common complaint of shortwave listeners is really front-end receiver overload. This problem is usually observed as phantom stations appearing where they don't belong, or re-appearing at frequent intervals along the shortwave spectrum.

Two things can happen when front-end overload occurs. The most common "phantom signal" problem occurs when a strong signal, on a frequency other than the one the receiver is tuned to, sneaks into the receiver, and mixes with the receiver's I.F. signal, generating a new signal. The new signal is "received" by the radio as though it were a legitimate signal.

The other symptom of front-end overload is the "dead radio" syndrome. The radio appears totally numb, even though an antenna is connected to it. It may occur on only a few frequencies, or all across the spectrum. This symptom occurs because the amplifier in the receiver saturates with too much signal.

In either cause of front-end overload, the cures are the same. First, turn-down the RF Gain control on your receiver, if it has one, or insert an attenuator in-between the antenna and the receiver. Again, the *Amateur Radio Handbook* has the plans for building an attenuator, or you can buy one at Radio Shack. You simply switch or dial in sufficient attenuation to solve the problem, but not so much that you eliminate the signal you want to hear.

For stubborn cases, like those encountered when living near AM broadcast towers, a tuneable filter may be required. Plans are available from the aforementioned handbook, or from previous FRENDD columns.

SCRATCHES

If you are like me, seeing the cat skid across the top of your new receiver is enough to drive you insane. I am still waiting for chemists to develop a plastic that won't develop thousands of scratches when you rub it with a *clean* cloth. In the mean time, there is a way to hide scratches when they rear their ugly heads. Find a very clean cloth (I use thick bath towels when my wife isn't looking) and apply a liberal amount of furniture polish - be sure it's the type labeled safe for acrylic finishes. Let the polish soak in for a few minutes, then wipe it off vigorously with a dry part of the cloth. You may have to repeat this a couple of times to do the trick, but when finished it will look good, and will actually extend the life of the plastic.

ALL STRUNG OUT?

Older receivers, as well as some of the newer models, use dial cord to move a pointer in an analog display. With age, this cord can become slippery, or even break. It is easier than most people think to re-string a dial cord. Most electronic supply houses stock small spools of dial cord. It is special material with a strong inner core of nylon, and a rough, woven outer skin to grip dial wheels. If your cord is still in place, examine it carefully before replacing it. Note the direction of the windings, and how many turns go over each wheel or shaft. It's best to write these things down before removing the old cord. If the cord is already broken, try three or four turns around each shaft or wheel for good traction. The effort to re-string a wheel is well-rewarded when you regain the smooth tuning your receiver had when it was new.

SOUNDS GOOD TO ME...

It has always amazed me how many expensive shortwave receivers are manufactured with tiny, bad sounding speakers. The ultimate purpose of a shortwave receiver is to supply a desired signal to your ears. It doesn't matter how good the receiver's internals are if the signal you *hear* is not a faithful reproduction of what the broadcaster spent a lot of time and money to send you. You can do a lot for the sound of your receiver by choosing the right external speaker. Much of the audio interference on shortwave is in the high frequency range, like the ringing or squealing of two stations close together. A large speaker is more efficient at converting electrical energy to sound energy than a small one, and has the added benefit of enhancing lower frequencies. Select at least a 6" speaker, and look for one designed for mid or low range frequencies (a "woofer"). The speaker can be placed in a wooden box (which further emphasizes low frequency reproduction) or it can be built-into a wall or console. After only a short time you will notice how rested your ears will feel, even after long hours of listening.

YULE LOGS

A log isn't necessarily what you burn in the fireplace at the end of the year. Now is a good time to look over your log from the year gone by. Are there stations you haven't sent reception reports to? These days many international and utility stations take a long time to QSL, so sending a report a month or two after the logging won't be noticed. After you have cleaned-out your 1989 log, how about thinking of a new, more efficient format for your log. Look over what you have accumulated this year. What would have made it easier to use? Would you be better off to change, delete, or add categories to be filled in?

Just as important as your record keeping is your reception report. Do you use a prepared card, or do you write letters for each report? With increasing postage costs you might want to consider switching to postcards. They can still be typed on for a neater appearance, and most shops that advertise for ham radio QSL card printing can do a fine job on SWL cards as well. By reducing the things you report in a letter to fill-in sections of a card, you cut the time it takes to complete a report, and this makes it more likely that you will actually *send* the report, instead of letting it pile up with the others in your log.

MORSE CODE

During this season we are indoors a great deal of the time. What better occasion to learn something new, like Morse Code, for instance. There are Morse Code, or "CW" signals available all across the shortwave spectrum. They can be from ships at sea, amateur radio operators, or military in origin. It's much more enjoyable if you can understand what they are saying. I once made friends in a crowded movie theater while watching a spy movie. In a particular scene, the spy was receiving instructions from his shortwave radio. Except that what was being sent in Morse Code said: "If you can understand this message you are copying 10 words per minute..."! Several of us broke out laughing in an otherwise serious scene, and after the movie we introduced ourselves to each other. You can likewise amaze your friends and devastate your enemies by learning the code. You have a choice of many excellent cassette tape courses, as well as some courses designed to run on your computer. Either way, it's fun, you aren't under any pressure, and you have lots of time indoors to devote.

Well, that's about it for this year. I hope you have enjoyed reading Technical Topics as much as I have enjoyed bringing it to you. I look forward to another year with FRIENDX, and would like to renew my invitation for suggestions, criticisms, and especially for guest articles. Become famous! Write an article for Technical Topics. Happy Hanukkah, Merry Christmas, and may you all have a great new year.

Listener's Library

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Compuserve 74730,2145



Greetings from the Library and Happy New Year! Since this is your first visit to the Library (and mine, too!!) we will spend a little time wandering around the shelves this month to discover how to use this new Library to benefit each of us as we pursue the hobby of shortwave radio.

First, why a NASWA Listeners' Library? It is an attempt to develop a tool that we can each use to try to access the tons of information relevant to our individual hobby interests. Over the years, when I have accidentally happened on a receiving antenna article in QST or a good propagation article in a Canadian ham magazine, I'd say to myself, "Why doesn't NASWA have a column to tell me about listener-related info available from the amateur community?" Every time I'd see an announcement of a new atlas or travel book in the "civilian" press I'd say, "Wonder what a radio man would think of this? I wish NASWA...etc." Well, I asked the Editor in Chief of the Journal those questions and one thing lead to another... I'm really excited about it! WITH YOUR HELP, we can make these two pages very helpful to us all—no longer will we each have to try to skim everything in sight. With help from enough contributors, we ought to know about everything that's available of interest. We will also be building an information data base from month to month (your mother called it a bibliography!) that you can compile yourself or order annually from the new NASWA Company Store.

A few words about what is NOT going to be covered in Listeners' Library: Due to space limitations, we will not cover "hard-core" SWBC material. We will not review *WRTH*, *Passport*, *PopComm*, *Monitoring Times* or the excellent new version of *Popular Electronics*. Most of us take or regularly gain access to copies of these basic references and magazines. We also will not be able to review the several basic introductory

texts available in the hobby (such as the excellent *Shortwave Listening Handbook* by NASWA Harry L. Helms). The above, plus the absolutely unparalleled "*DXing with the Experts*" edited by NASWA Board member Gerry Dexter are really the basic informational floor of the hobby. If you don't have them, try your local library. If they don't have them, use the Inter-Library Loan service at your local library to take a peak before you buy.

So what do we have in the Listeners' Library? EVERYTHING ELSE that's radio related in every media including books, magazines, audio and video tapes and computer software! More about the structure of the Library later...let's wander around the shelves.

Around The World The Hard Way

When I recently discovered *Danziger's Travels: Beyond Forbidden Frontiers*, by Nick Danziger, I shivered all over...here is a man who actually took the trans-Asian trip that I described in my "factional" articles in *FRENDX* last year. The miracle is that he lived to tell about it! Nick is a young Englishman who received a Churchill Fellowship in 1984 to follow The Great Silk Road from Damascus to Beijing, right through both the Iran-Iraq War and the Afghan War. He got across Afghanistan with help from the rebels and should not have lived through the experience. He hitchhiked into China from Pakistan, becoming the first foreigner to ever travel the secret strategic road connecting northern Pakistan and Kashgar, Xinjiang! Nick is a superb writer with a real gift for showing us the normal people and scenes of some of the most fabled and inaccessible areas of the world. This is the first book I've read in years that I literally could not lay down! It is a five star special. (Contributed by Don

Jensen and John Bryant)

Kevin Atkins of Alabama checked in to Library with several super recommendations. One of the most intriguing was *Gandhi's Children* by Trevor Fishlock. Mr. Fishlock is a British correspondent who lived in India for several years. His book is an examination of contemporary India. One of the most revealing aspects of the book deals with how many Indians use the Hindu faith to reconcile the sometimes harsh conditions of life on the Subcontinent. Several pages are devoted to Indian media, including newspapers, films and All-India Radio. Kevin said that for the first time ever, he felt that he understood a good deal about India. A great find Kevin. Thanks!

Antennas—A Different View

If you are an antenna buff or wish to become one, a look at *HF Antennas for All Locations* is highly recommended. The author is British engineer and radio amateur Mr. L.A. Moxon, G6XN. This book is intended for radio amateurs. However, there are many features which can be very helpful to us SWL types. I am not sure whether it is because there is a slightly separate technical tradition in Great Britain or whether Mr. Moxon is simply a creative genius, but this book has a good deal to offer us that is distinctly different from US amateur radio. Moxon thoroughly discusses antenna location and the effect of the immediate surroundings on antenna gain. I found this section very helpful when picking DXpedition locations. He is also one of the only authors I've found who discussed the phenomenal seaside coastal effect. Finally, this book illustrates many wire-based directional antennas that look very interesting. Buy this

one, or at least use Inter Library Loan to take a look at it. (Contributed by Bryant)

One Of The Best Three Articles I've Ever Read...

If you want to really improve your DXing, use Inter Library Loan and request a photocopy of an article with a daunting title: "Influence of the Ground near Transmitting and Receiving Aerials on the Strength of Medium Frequency Skywaves." This article is the best and one of the only studies of the "coastal effect" that I've run across. The article describes studies by BBC engineers which indicate that it is possible to boost the strength of received signals by up to ten times by getting very close to the sea coast. Even though the tests were done at medium wave frequencies, the same effect is also very noticeable at tropical band frequencies. Apparently, you need a fairly large body of water to get much of this almost magical effect. However, if I lived around one of the Great Lakes, I'd use Beverage Onna Bush techniques (FT's Proceedings 1989) and check it out. How 'bout it, you Canadian Latin buffs? (Nick Hall-Patch, John Bryant)

Give The Old Librarian A Hand!

I'm willing to wager that every NASWAN has favorite books and articles that many of the rest of us would like to hear about. Drop me a line here at the Library, or upload some E-Mail to me on Compuserv as noted on the masthead. Libraries are only as good as their patrons, or something like that. There is a lovely young lady who needs help finding the 364 stacks, so I must go... See ya in 30.

BIBLIOGRAPHY

Danziger, Nicholas *Danziger's Travels: Across Forbiden Frontiers* (New York: Vintage Books Div. of Random House, 1987) Currently available in paperback for \$8.95

Fishlock, Trevor *Gandhi's Children* (New York: Universe Books, 1983)

Moxon, L.A. *HF Antennas for All Locations* (London: Radio Society of Great Britain, 1987) Currently Available from Universal Shortwave for about \$15.00

Knight P. and Thoday, R.D.C. "Influence of the Ground Near Transmitting and Receiving Aerials on the Strength of Medium-Frequency Sky Waves" in IEE (Great Britain) *Proceedings* Vol. 116, No. 6, June 1969, 911-919 (London: IIE, 1969)

NASWA Portraits

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Norfolk, VA 23505-0645
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Welcome to the first issue of a new decade! 1990 is sure to bring in more than anyone had dreamed, and the looks of the Journal is just one of those things! With the skillful help of Dr. Cones, Bob Brown and all those who make up the new Graphics Committee, you are going to see a Journal that will surprise you! So, keep your eyes peeled!

This month, we hear from another editor for NASWA, Alex Bateman, from North Carolina. Alex writes...

"I started DXing when I was a high school student back in 1963. I originally started out to be a ham operator, and I purchased a Lafayette receiver and a Heathkit transmitter. By the time I had put the transmitter together, I had become seduced by the international broadcasts I could pick up on shortwave and wound up a confirmed SWL rather than a ham (I eventually let my novice license expire). I spent an awful lot of time with that Lafayette receiver over the next three years and my proudest catch at that time was Sudan (I still have the QSL letter stored in a box...somewhere...).

"When I went away to college in 1966, I left the radio at home, feeling that for the next few years I wouldn't have the time for it, fearing it would interfere with my studies. When I came home, I half-heartedly tried the old receiver again but the years of non-use had left it non functional and I had developed other interests by that time, so for a long period, I did nothing whatsoever with shortwave listening.

In January 1985 when I was teaching at LSU in Baton Rouge, I acted on a spur of the moment impulse and went into a Radio Shack to purchase a DX-360. While I was there, the clerk mentioned another model with digital input; three days later I went back and purchased the DX-400 portable, which I am still using today (I am planning in the future to upgrade to a better model). At the time I really had not meant to get

back into radio as seriously as I did, but hearing Kol Israel, the BBC, Radio Moscow and all the other stations, I remembered from my high school days and quickly turned shortwave radio into just as big an obsession as it once was. By the end of February, I had logged 50 countries and was whetting my appetite for more.

"Somewhere in April, I received a sample copy of *FRENDX* following an inquiry, and read an ad, searching for an editor for a new column. I responded to Bill Oliver, and have been writing "Easy Listening" ever since May of that year. In the past couple of years, I have also been writing for Larry Magne's *Passport To Worldband Radio*, and plan to continue doing both as long as they will have me.

"...I hadn't meant to get back in as seriously as I did, but hearing...and all the other stations I remembered my high school days...quickly turned shortwave radio into just as big an obsession as it once was..."

--- Alex Bateman

"For a vocation, I teach English, previously at LSU, now at Appalachian State University in Boone, North Carolina. One of the advantages this profession gives me is that so much of my time is unstructured, I have plenty of time to listen in both the morning and evening hours

when most English broadcasts are beamed to North America. As a matter of fact, I can think of nothing I do during the day that I enjoy more than the time I spend reviewing programs for the *Easy Listening* column. I still do some DXing from time to time, but I rarely write for QSL cards. I now find I get almost the same thrill out of finding a new station whose programs I can use (liek Voice of the United Arab Emirates or R. Yugoslavia) as I once did. I suspect now that I will be listening to shortwave radio the rest of my life."

Many thanks, Alex, and hope you continue your fine work for NASWA!

Best of 73 to you all, and hope to see your biography soon!

Tom

Company Store

Richard A. D'Angelo
2216 Burkey Drive
Wyoornissing, PA 19610



Welcome to the grand opening of the NASWA Company Store.

A number of months ago, Chuck Rippal and Harold Cones asked me if I would be interested in helping the club establish a Company Store to give members an opportunity to purchase hobby related "goodies". One three letter answer later - yes - and the NASWA Company Store was born. My thanks to Chuck, Harold, Bill Oliver and the Executive Council for giving Don Moore and I an opportunity to do something special for the membership. I'd like to add a special thank you to John Bryant for all his advise, assistance, and above all, his friendship. Without John's "godfather advise" things wouldn't have jelled as rapidly as they have.

As Chuck mentioned in last month's From The Executive Editor, the NASWA Company Store will be handling sweatshirts, T shirts and other clothing items featuring the club's new logo. In addition, Don Moore has been searching the NASWA archives for interesting articles printed in the bulletin over the years for our Reprint Service. It is our hope that the NASWA Reprint Service will become a valuable addition to the hobby by providing a research outlet for today's shortwava hobbyist.

Now, what does the NASWA Company Store have to offer today????????????????????

To get things rolling in the clothing end of the business, we are offering sweatshirts and T shirts in NASWA Royal Blue. The new NASWA logo, in white lettering, will appear over the heart. The sweatshirt is made by Russell Athletic; the T shirt is a Hanes Beefy T. Both are excellent additions to any DXers wardrobe!!! They are available in Small (S), Medium (M), Large (L), and Extra Large (XL) sizes.

Long Sleeve Sweatshirt	US\$20.00
Short Sleeve T-shirt	US\$11.00

The price includes shipping via UPS direct to U.S.A. based customers from our supplier. Shipping costs to Canada will require another US\$3.50 for Canadians living in "major metropolitan areas". Unfortunately, we are unable to ship to "rural" addresses in Canada. If you live overseas and you are interested in purchasing a sweatshirt or T shirt write to me and we will try to "work out an arrangement". There will be an extra US\$2.00 charge for Extra, Extra Large (XXL) sized sweatshirts and a US\$1.00 extra charge for XXL sized T shirts. Orders for all clothing items go to me at the address in the masthead. Be the best dressed DXer in your shack!

A brief word on how orders will be handled. Each month I will send a list of all orders to be processed to our supplier. All shipments will be made by our supplier direct to you. I will not be handling the merchandise you are ordering. As a general rule, I will not be maintaining an inventory. Therefore, it could take between 4 to 6 weeks for you to receive your order. The first order will be placed on or about February 1st.

The NASWA Company Store will be represented at the Third Annual Winter SWL Festival in Kulpville, PA on 23 - 25 February 1990. I will have a small supply of sweatshirts, T shirts and Reprint Service Catalogues available for purchase at the FEST. I hope to see you there.

Remember, the best dressed DXers wear the NASWA Royal Blue! Check out page 2 to see the first DXer to wear the club's smart looking sweatshirt. Watch for additions to our clothing line as we head into summer.

Reprint Service

Reprints of significant articles appearing in the pages of the bulletin over the years will be offered through our Reprint Service Catalogue. Our premier catalogue, Edition #1, is scheduled to be available in mid-January. It will contain approximately 100 reprints divided into the following subject areas:

Receivers
General DXing/SWling
Antennas
Other Equipment and Miscellaneous
 Technical Information
Latin America
Computers
Propagation
History
Humor
Miscellaneous

For just US\$1.00, you can order a copy of the Reprint Service Catalogue from the NASWA Company Store.

Pricing for reprints will be on a per page basis with a US\$2.00 minimum order. If a desired reprint is 4 pages, then multiple the number of pages by the following rates:

NASWA Members Price

US\$0.15 per page in the United States and Canada;
US\$0.16 per page worldwide via surface rate;
US\$0.20 per page worldwide via airmail;

Non-Members Price

US\$0.20 per page in the United States and Canada;
US\$0.21 per page worldwide via surface mail;
US\$0.25 per page worldwide via airmail;

When placing orders please remember that this service is manned by volunteers and filling your order could take several weeks - thank you.

All additions to the Reprint Service Catalogue will be announced as they happen. Watch these pages for subsequent updates.

Until next month, stay warm (and a NASWA sweatshirt will help you stay warm!!!) and good DX.

73 - RAD

To the right is your editor and NASWA Company Store Manager wearing the club's new official sweatshirt.



The NASWA Company Store

the **CPRV** page

COMMITTEE TO PRESERVE RADIO VERIFICATIONS

JERRY BERG, Chairperson • 38 Eastern Ave. • Lexington, MA 02173 • (617) 861-8481

Hey, what are these "contemporary" veries doing on The Page?! Heck, I'm old enough to actually remember a couple of these stations. +++ The card from Radio Salas is a reminder that Cuba used to have a goodly number of private shortwave stations, many of them, like Salas, operating in the 9000-9500 kHz. "out of 31 meter" band. This card is from 1941, but they were still on the air in 1959 when I heard 'em. They remained active until "you know who" took over. +++ Sharp eyed old timers may recognize the call letters on this 1947 card from La Voz del Yuna--HI2T and HI3T. Correct! Those were two of the calls used by La Voz Dominicana, the main 50's Dominican Republic shortwave broadcaster into which Yuna apparently metamorphosized. La Voz's card even looked a little like this one. This verif shows Yuna on 7275 kHz., a strange frequency for a Latin even back then. Station lists from those days confirm that as their frequency, however. The main channels for La Voz were 5970 and 9735. +++ Ah yes, Radio Caribe, also late of the Dominican Republic. This one came on the air from Ciudad Trujillo around 1960 using 6090 and 9505 kHz. Although they professed to be a private station, they served as the voice of the Trujillos until they were driven from power. I still have a newspaper clipping showing faithful listeners stoning the Radio Caribe building during the regime's last days. +++ Interested in stickers expressing the wish that your QSL's be donated to CPRV when the time comes? Send a SASE to CPRV Registered Collections Coordinator John Herkimer, P.O. Box 54, Caledonia, NY 14423, for full details. +++ Till next time--



A Committee of the Association of North American Radio Clubs

LOUDENBOOMER

LOUDENBOOMER

HIGH ATOP A MOUNTAIN
SOMEWHERE IN TIB ET

MR. FERGUSON

THE OLD MON K HAS JUST RETURN ED FROM HIS ANNUAL TRIP
TO THE LOWLANDS TO BRING BACK THE SUPPL Y OF YAK CURDS
THAT WILL LAST US T HROUGH THE WINTER. AT THAT T IME HE
PICKED UP YOUR LETTER AND RETURN E D IT TO ME JUST ~~80~~
TODAY.

IT HAS BEEN A LONG TIM E SINCE YOU HEARD FROM ME. AS YOU
KNOW I CAME HERE MANY YEARS AGO, TO MEDITATE ON THE MEANING
OF LIF E, SHORTLY AFTER MY ENFORCED RETIREM ENT AS A
FRENDX COLUMNIST. I HAVE DON E NO WRITING SINCE THEN AND
IN FAC T YOU CAN SEE THAT MY OLD TYPEWR ITER HAS SUFFER ED FROM
THE LONG INACTIVITY.

WHILE I MUCH APP RECIA TE MR RIPPEL'S OFFER AND WHILE I HOPE
SOMEDAY TO MAKE A COMEBACK, NOW IS NOT THE RIGHT TIME FO R ME
TO DO SO.

I DOUBT THA T MY BUSY MEDITAT ION SCH EDUL E WILL EVER ALLOW
A REGULAR COL UMN IN PRINT. BUT MAYB E I CAN PROVID E MR
RIPPEL WITH SOME OF OL° CL'S WOND ERFUL ~~WIT~~???

~~WIT~~ WIT AND WISDOM NOW AND AGAIN.

TO M Y OLD FR IENDS, FEAR NOT. CHARLIE LIVES. MAYBE IT WILL
BE POSSIBLE LATER IF I GET SO ME TYPER OIL TO L I M BER UP
THIS CURSED MACHINE. UNTIL SOME FUTURE TIME, MR. F
CHOW!

YE SCRIBE, CH ARL IE LOUDEN BO OMER..... ..

Listener's Notebook

Bruce MacGibbon
2295 Juniper Avenue
Gresham, OR 97030



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ANTARCTICA - Radio Nacional - LRA 36 is back on 15476 with a much better signal than when last heard in January. Now USB and Full Carrier. Heard from 2150 to an early closing of 2334. (Ernie Behr, Kenora, Ontario via Glenn Hauser on 'RCI's SWLD 12/9)

ARGENTINA - Changes to RAE broadcasts. Monitoring research 17-20 Nov 89. Monitoring observations and announcements on RAE's English service from 17th-20th November indicated changes to weekend broadcasts. English programmes would be suspended on Saturdays and Sundays due to a change of premises. No mention was made of when they would return to normal. English transmissions are now as follows: 1630-1730 (Mon-Fri) to Eur & Afr 15345; 21-22 (Mon, Wed, Fri) Eur & Afr 15345; 01-02 (Mon-Fri) to the Americas on 11710; 03-04 (Mon-Fri) to the Americas on 11710. On Tuesdays and Thursdays the 2100 gmt broadcast is in German and on Saturday 18th and Sunday 19th November a programme in Spanish was observed. (WBI 11/24) On 11/22 RAE EE Pgm on 11710, the 01 broadcast. The announcer said RAE in new building and that micro-programs are out for now, but that some would be reinstated such as Mailbag, DXers Special. Mailing address has not changed. Programming for now will consist of news and music. RAE, Buenos Aires heard on two frequencies again 9690 & 11710 in EE at 01. (Ernie Behr, Kenora, Ontario via Glenn Hauser on 'RCI's SWLD 12/9) & I'm (bmm) noting them same but not announcing 9690 on 12/16 & still just 'News & Music', but Nick Terrence, NY heard them on 11709.9 at 0120 in EE w/news then mailing address Box 555, 1000 Buenos Aires then music till 0135 followed by "DX Show". Weak signal w/splatter from VOFC start-up on 11715 on 12/14.

Radio Belgrano Reactivated: Gabriel Ivan Barrera, Argentina hears Radio Belgrano LYR2 on 11781.2 reactivated after 12 years.. from *12-20* in SS only 1 KW w/strong het from Radio Nacional de Amazonia Test transmission on 11/20 & regular programming on 11/26 & 11/28. Requesting reception reports to: Mr. Noberto Cisilli, Chief of Programs. (Ed Janusz, NJ via letter from Gabriel Ivan Barrera) 15780 USB, 2310-2320, R. Rivadavia, Buenos Aires (per PWBR90), non stop tango music. Weak but readable & mixing w/Iceland on 11/20 (Flynn) See Iceland! 15780.1 USB, 2143-2155*, Radio El Mundo, SS, E2L music program presented by "Bardal". ID as "LRL Radio El Mundo." Suddenly s/off at 2155. (Takeshi Sejimo in NTDXC Tune No. 70)

AUSTRALIA - Radio Australia tells me on 12/11 that the "RA Program" Guide just came out last Friday. Also a new calendar will be available around December 18th. (bmm)

Radio Australia to undergo "dramatic changes" from 3rd December; audience research officer appointed. Radio Australia, Melbourne, in English 1230 gmt 19 Nov 89. Excerpt from "Communicator" report.

Radio Australia's English service is about to experience some dramatic changes. The implementation date for our regional approach to programming will be Sunday 3rd December. From that day, we will be placing an emphasis on morning and evening broadcasts to the southwest Pacific and Asia. The morning will offer a mix of news, current affairs, short information segments and music, while at the other end of the day you will be able to hear a wide selection of feature programmes. These changes are based on an increasing volume of data

broadcasting into thin air. A lot of what we do is guesswork, so your reaction to what you hear is essential if we are to provide an even better service. Audience research is a complicated and expensive business and is unfortunately only available to the more well off broadcasters.

Radio Australia acquired its own audience research officer only recently. His name is (Mark Calvert). (WBI 11/24)

Further details of new external schedule: Radio Australia, Melbourne, in English 1230 gmt 26 Nov 89. Excerpt of report: Exactly seven days from now (on 3rd December) Radio Australia's English service will undergo something of a transformation. Apart from introducing a number of new programmes, we will be turning our attention solely to the south west Pacific and Asia. We will be offering a morning and evening service to both regions. The morning programme, between 17-04 UTC, will combine news, current affairs, short items and reports - and of course music. The evening broadcasts, which fall roughly between 04-17 hours UTC, will reflect a more relaxed style and include longer features accentuating information about Asia and the Pacific and Australia's interaction with the two regions. Current programmes which will be with us after next Sunday will have new broadcast times. I'm happy to report that "Communicator" will still be here next week, so do please make of a note of these broadcast times. Our evening broadcast to listeners in Asia will be on Friday at 1030 and Sunday at 1430 UTC, while Pacific listeners can hear us on Monday at 0730 UTC... (WBI 12/1)

Via "Peter Bunn's, 'OZ DX' Edition No. 51, Dec 89 is this article that appeared in the Melbourne 'Age' 7 November 1989, "Comment" by Michael Barnard - Just What is Going on at Radio Australia? "Radio Australia, the highly regarded shortwave ambassador which, for 50 years, has been projecting Australia around the world, in later years with daily audiences in the tens of millions, is facing a crisis of identity and staff morale.

Changes to be crystallised next month, following a top-level ABC review and executive restructuring, including early retirements, will significantly constrict the target area of this once expansive world service to the Asia-Pacific region. New programming philosophies and emphases, open to varying interpretations, are being introduced.

Most of the changes are expected to be in place before the new general manager of Radio Australia, career diplomat Richard Broinowski, presently ambassador to South Korea, takes over in January. Staff critics claim the new philosophy is being "bulldozed" through. They want the agenda put on hold until the new head arrives - even though, ironically, one concern arising from the new programming philosophy is that it might be seen to be over-deferential to the sensitivities of regional nations - in other words, a tool of Foreign Affairs.

One directive put out by the head of English Language Programs (in one sense the flagship of Radio Australia, and now at the heart of the dispute) specifically cautions against "a confrontationist style of interviewing" and says producers "must avoid seeming to be voyeurs on regional life". Another ELP document, "Programs and Scheduling Philosophy", issued in September, emphasises that "we do share many of the same concerns in the areas of regional stability, economics and business, social and political development. It is around these similarities of interest, in the context of national differences, that our programming must be centered".

A clearer concern, however, is the changing priorities in the picture of Australia to be presented to the Asia-Pacific region when the "world service" effectively takes a dive in December. Even terms such as "social engineering" are being applied to the revamping of Australian content. As evidence, critics cite the dropping of popular and established Australian character packages such as "Window on Australia", "Along the Mighty Murray" and "You asked for it", a program which has drawn thousands of letters from listeners inquiring about facets of Australian life.

From December the new emphasis is to be on 'Woman of the Asia/Pacific region', 'Aborigines of Australia', the environment, education, law and so forth, the true test of which will rest on the

philosophical (or ideological) agenda from which they are ultimately shown to have been drawn. Precedents from SBS Radio, in which the left has aggressively monopolised some ethnic programs, are not encouraging.

Another issue contributing to staff unease is a mooted move by Radio Australia from Burwood East to the planned new ABC centre at Southbank in the city. Many staffers at various levels resent this, wishing to remain as autonomous as possible from the home service. Unease has reached such a pitch that, according to highly placed informants, heads of departments attending a meeting last week with Radio Australia's acting general manager, Geoff Heriot, were required individually to signal their support for the management line through what has been described to me as an "oath of allegiance".

General dissatisfaction is expected to take a new turn this week with the likely submission to the Public Service Union of a long memorandum of concern from announcers and readers in the English language section. This is expected to include strong criticism of the outcome of the inquiry into Radio Australia by an ABC committee of review consisting of Messrs Stuart Revill (convenor), David Hill and Malcolm Long, whose report was published in August.

"Many staff members now feel that the review simply provided another opportunity for a group of would-be social reformers to tinker with Radio Australia's programs", one RA "dissident" told me. "A study of available submissions to the inquiry shows they offer little justification for the change of direction in ELP program philosophy."

Not only the English Language section is caught up in the struggle, however. Strikingly, another pending victim, despite the new regional emphasis, is Radio Australia's Japanese section. The review panel recommended cessation of shortwave (Japanese language) transmissions to Japan and a search for "new roles and outlets" for the service. Yet, the protesters say, none of the more than 80 submissions to the inquiry suggested closure.

A resolution on the Japanese service by RA staffers at a meeting on 24 October rejected the criteria on which the proposed closure is based and noted "If the Japanese service were to cease it would severely restrict the information about Australia available to the Japanese population."

Against this, one of the more general concerns reflected in ELP unrest is that under the new regional concentration many listeners in "outside" areas, such as the United States and Europe, will effectively get the cold shoulder. Traditionally, more than 70 percent of ELP mail came from listeners outside the newly designated target zone. Now this linkage in goodwill is at risk. In the words of one critic: "Unless we respond personally, such listeners will be lucky to get even a pro forma reply".

The new order may be gauged by a 1 November ELP staff memo on RA's 50 anniversary commemorative stamp. "The 350 (first day cover) giveaways are for listeners in the PACIFIC and ASIA regions only! Please DO NOT actually say on air that other listeners are excluded - simply stress the two eligible regions."

In various directives the new priorities are set out thus: Southwest and Central Pacific; South East Asia, North Asia; South Asia... "any priorities below these first four are regarded as outside our resource capacity". "Our (target) audiences are, again in order of priority, decision makers and opinion leaders; interested indigenous others; expatriates... all programming philosophy and our attitude to scheduling and frequency allocation flows from the above."

Yet, despite the high priority focus on the Pacific there appears to be no plan to broadcasts in Pacific languages, as will be a feature of Radio New Zealand's new regional shortwave service, due to open in January. Radio NZ has not minced words in spelling out its own philosophy to present both sides of any issue and to make "a proud and confident statement about New Zealand".

Meanwhile, Radio Australia's bewildered professionals are being marched into workshops with such objectives in mind as "to provide role models and training in fresh ways of presenting information", "to explore alternative ways of identifying what is relevant to report on", "to develop a more sophisticated sense of 'balance' and editorial

priorities", "to develop a sense of process rather than (of) event", and so on (staff memo from Head, ELP, 19/10). It all sounds most impressive, no doubt, but for public interest professionals who have spent years in the craft of communication and who have, whatever the occasional lapses, helped build Radio Australia into an impressive and enviable global ambassador, what does it all really mean? Stay tuned. They're revamping the music, too."

BANGLADESH - 4880, 1515, Radio Bangladesh, Bengali, Subcont. music W talk mentioning Bangladesh. Also Dhaka. Noisy conditions on 12/8 (bmm)

BHUTAN - Via Kuensel (Bhutan newspaper) 10/28/89 - Radio Bhutan's EE Sked is Mon-Sat 1415 & 09 on Sunday. EG Pgms are: Sat: About Town: Takes a look at some of the new commercial developments in Thimphu. Sun: Listeners' (Sic) Choice: Send in your requests to the weekly music request show. Mon: Country & Western: If you're a country music fan, this is the programme to tune into. Tues: Topical Evening: This week focuses on technical assistance in Bhutan. Wed: Music Moves: The mid-week music programme bringing you a selection of Australian music. Thur: UN Calling Asia: Is night work detrimental to health? And does it disturb social & family life? Find out this week. Fri: For Your Listening Pleasure: Some relaxing music to bring in the weekend. (Eric Bopp, CA) 5023, 1415, Thimphu. Commencing English news 1415 on 11/27 with news of the Indian elections, Pakistan, Sri Lanka etc, but hampered by ute QRM nearby, and did not get ID initially. Further checks revealed this as a Monday to Saturday operation, heard as early as 1130 in local languages. They also seem to have a short English segment at about 1347. On 11/27 they had US country style songs from 1430, with brief closing announcement by feminine at 1459, short musical piece and carrier cut out at about 1501. The frequency seems quite stable on 5023, though they announce it as 5025 kHz. 11/27 and since Peter Bunn, Victoria; on 11/30 Dave Onley, Victoria; on 12/2 Geoff Cosier, Victoria in 'OZ DX' Edition No. 51, December 1989)

CHAD - 4904v, 1614, Radiodif Nationale(t), FF, M talk, Group singing at 1636 then M talk. Fades out right after 1636. First heard on 12/9 at 1618 with M in FF & African vocal at 1629. Very weak by 1635. On 12/14 heard around 1615 language didn't sound like FF. (bmm)

CHILE - 15139.6v, *0917-, R. Nacional de Chile, SS, S/on w/opening ID "Iniciamos la transmision de Radio Nacional de Chile. Afiliada a la Asociacion de Radiodifusores de Chile y por su intermedio a la Asociacion Interamericana de Radiodifusion, AIR. Nuestro estudio de Radio Nacional Chile estan situado en San Antonio 220, 2do piso, Casilla de Correo 244v, Santiago de Chile. Director General y Representante Legal es el Sr. Manual...con el mismo domicilio. Desde este instante transmite Radio Nacional de Chile, CB114 en 1140kcs en amplitud modulada y por su ondas cortas en 19 y 31 metros. Buenos dias Chile, buenos dias America.", then music. Fair on 11/11 (Takeshi Sejimo in NTDXC Tune No. 70)

CHINA - Central People's Broadcasting sent me a nice Holiday Greeting Card. They now have this address: CPBS, PO Box 4501, Beijing, China.

Since I have received a Stereo Cassette of 'Patriotic Songs' of China from Radio Beijing and my friend has listened to them, I now correct the name of the song that I have been hearing before the "National Hookup News" on CPBS and also at signoff on Guangxi PBS. The title is "Sing of Our Motherland". (Thanks to Kevin Yang, Portland, OR)

Radio Beijing via Canada at 05 now clear on 11840 since Radio Norway has moved to 11845. (See Norway) 3940, 1010, Hubei PBS, W CC weak on 12/3. (bmm) 4915, 1009, Guangxi PBS, Nanning w/CC music. Fair on 12/15 (bmm) 6040NF, 1619, CPBS-1//7516, 6125. The 6040NF over CBS Taipei on 11/29 (bmm)

Highlights of Radio Beijing's Features for Jan 1990.

Culture in China: Chinese Music is a distinctive part of the country's culture thanks to a treasure of colorful instruments. Culture in China on Jan 4th will take you to a musical instrument

exhibition, in which both foreign and Chinese traditional instruments are on display, all made by Chinese. You'll also meet some of the masters there.

Listeners' Letterbox: Daoism which originated in China one thousand seven hundred years ago is now one of the active religions in the country. On 7th January 1990, we'll talk about this special religion of China on our regular program Listeners' Letterbox. Film making was introduced in China in 1913. From the first silent film to the great varieties available today, China's film industry has undergone a long process of development. The film industry has been run by the State since the founding of the People's Republic of China in 1949. You can find out what China's present film industry is like on 14th January 1990 on Listeners' Letterbox.

China Anthology: China is the home of many world-famous philosophers. Beginning January 21st, we will rebroadcast the six-part series on ancient Chinese philosophers in our regular program China Anthology.

Music from China: The Khazak people in China's Xinjiang Uygur Autonomous Region are famed for their beautiful singing and dancing. In the first week of January 1990, we'll present a music feature on Khazak songs and dances. Join us on Radio Beijing's Music from China.

Music Album: Traditional Chinese instruments may sound exotic to you. But have you ever heard western music played on Chinese instruments? Tune in to Radio Beijing's Music Album in January for a four-part series featuring this interesting combination; Chinese instruments playing foreign music. (Lifang, Audience Relations, Radio Beijing)

COTE D'IVOIRE - 7214v, @111, RTV Ivoirienne, FF, M talk t/@113 then Pop Song followed by Latin Song. M mentioning 'Cote D'Ivoire at @122 then at @124 Afropop. At @130 FEBA signed on, on 7215 QRMing them until @2* & Cote D'Ivoire in the clear for NA at @201-@202*. On late due to Independence Day on 12/7 (bmm)

DJIBOUTI - RFI to install HF and VHF transmitters in Jibuti - Radio France International, Paris, in French 1800 gmt 21 Nov 89. Text of report.

We finish with some news about our station. It is of particular interest to our listeners because RFI will be better received as from the end of the year in the Middle East and East Africa thanks to the building of three 500 kW relay transmitters in Jibuti. Our chairman and director general Henri Teznas du Montcel in Jibuti..

(du Montcel) The position of Jibuti is important from the point of view of the presence of French influence and from the point of view of the coverage of the Arabic-speaking zone. The coverage zone is about 5,000km around Jibuti - that is it extends from Abidjan to Algeria, Egypt, the Caucasus, Iran, Pakistan, Madagascar and all of the eastern coast of Africa. This agreement will involve a great deal of training in associating Jibutians and Jibutian companies with the building of the transmitter centre. On the other hand we have also received, in principle, authorisation to install FM transmitters in Jibuti. Consequently, the French community there will have remarkably easy listening. As for the question of it being operational, well, the shortwave work will certainly last 18 months. As for FM, things could be quicker as soon as Canal France International is set up, that is during the second half of 1990. (WBI 12/1) 4779.9v, RTVD, @308-@329 fade. M singing in AA, then M w/talk in another language, pres. Somali @@311. Tough in CW QRM. First time heard since 1983. (Don Hosmer, MI on DXpedition to Brighton, MI in 'Fine Tuning' #537 11/16)

ECUADOR -5030, @133, Radio Catolica, SS, W talk brief XMAS music then W talk. At @138 W in talk mentioned 'La Biblis' then brief music. At @138 M w/Radio Catolica ID then children reciting the rosary on 12/14 (bmm) Note: With R.Impacto on 6140. The freq 5030 should be an interesting one to monitor and don't forget Tonga.

GERMAN DEMOCRATIC REPUBLIC - Radio Berlin Int'l Pub Sked w/program changes from 1/1/90: In your letters, which reach us day by day, you

ask questions about life in this country, comment on our broadcasts and make suggestions regarding our programming. As from 1st January 1990, we shall be introducing a number of programme changes and some of them will reflect your suggestions. One of our new programmes is Viewpoint, in which we shall be talking to people from all walks of life about their everyday experiences, problems and achievements. You are welcome to send in any questions you would like us to put to the GDR man or woman in the street in this new series. Berlin in Focus is another new feature which will be broadcast on Fridays. This will provide information on life and events in the GDR's capital. On alternate Fridays, we will be reporting on this country's multilateral activities in economics, science, culture and sport. In our Thursday feature Out and About we invite you to join us on visits to a whole host of interesting villages, towns and cities up and down the country. Of course we shall keep those programmes which have established their popularity. Monday for example remains the day for DX-ers, and the sports fans will still be able to enjoy Spotlight on Sport on Mondays and Midweek Sports Report on Thursdays. Commentary, current affairs and a bulletin of news will continue to be daily programme components. Your comments, questions and suggestions will feature most prominently on Wednesdays and at the weekends. For details see page two. We look forward to your company over the air waves. Your friendly station, Radio Berlin International.

English Programme Schedule for Europe and North America: Daily - a bulletin of news, plus commentary and current affairs items. Mon - Provides a look back at the weekend's sport, both national and international, in Spotlight on Sport, and caters for DX listeners with our alternating RBI DX-Club meetings and DX-tra(Europe only) Tue - Features an in-depth focus on the economy, science and culture in People in Profile, plus Stamp Album and Faces & Places on alternate weeks. Wed - Sees Viewpoint and Sounds Around featuring all kinds of music from pop to jazz and from rock to folk. Thu - Takes you to all corners of the GDR in Out and About, and With the week half over there's Midweek Sports Report. Fri - You can join us for Berlin in Focus featuring life and events in the capital which alternates with GDR-teries on international relations. Sat - Is given over to Give Peace a Chance our weekly look at the issue of peace and disarmament and to Yours for the Asking providing brief answers to listeners' questions. Sun - We wind up the week by dipping into our Mailbag to Thank you for Writing. Viewpoint - This is the title of a new series going out every Wednesday. Time and again we receive questions from listeners concerning such matters as health care, public transport, housing, education, and the introduction of computers and robots in industry. You want to know about the set-up and the running of these aspects of society, but first and foremost it is people and their views you are interested in. Take the GDR's public health service for instance. What is the service like both from the patients' and the medical staff's point of view? Like the health service public transport in our country is state-run. Do low prices for fares mean that the public get a bad service? What do passengers think? People over here pay no more than 3 to 5 per cent of their family income for rents. How do they assess the government's emphasis on making the necessities of life affordable for every one? Does state-controlled education mean an end to the promotion of individual talents? Or does it mean that regardless of your social background, sex, religion and political belief you have equal opportunities in education? Many listeners are concerned about the advance of new technology. Are robots and computers job-killers in this country, and what is the role of the trade unions? These are just some of the questions we'll be taking up in Viewpoint on Wednesdays for which we invite your comments and enquiries. RBI Pub EE Sked from Nov 89 to Apr 90: Europe: 06 5965, 6115; 0845 6040, 6115, 7185, 9730; 1045 6115; 12 6115, 9665, 17780; 14 6115; 1445 9730; 1645 7295, 9730; 1815 7260, 7295, 9730; 2045 6115; 2245 5965. Far East 0845 21465; 10 17880, 21465; Africa: 06 13610 EAFr, 15440 WAFr; 1645 15350 WAFr, 17700 Wfr; 1830 9665 CAfr, 13610 EAFr, 15145 EAFr, 15350 CAfr; 2015 9665 CAfr, 13610 CAfr, 15350 CAfr; Asia: 0615 11970, 15240; 1230 & 1345 11970, 15440, 17880, 21465; 1545 11970, 17880; ME 06 9760, 13690; 12 13690; 1315 11705, 15240; 1830

17755. Latin America: 0330 9730, 13610, 15240; USA/Canada 0045 & 02 6080, 11890, 13690; 0245 6080, 11785, 11890, 15125; 04 11785, 13690, 15125; 0445 11785, 15125; 0845 15240; 10 11890, 15240; 22 9730; 2245 9730, 13690. (John Carson, OK)

GHANA - Ghana Broadcasting Corporation - GBC Radio 1. Educational Programs may, on occasions, be carried between transmissions. Multilingual 0526-0905 on 4915, 3350 (irregular) including 06-0610 News (home) (EE); 07-0715 News & press review (EE) 09-0905 (Mon-Fri) & News summary (EE); 0905-1159 (Sat&Sun) 4915 Multilingual including 11-1115 News (World & press review (EE); 1159-2305 4915 including 13-1315 News & press review (EE), 1315-1330 "Ghana newsreel" (EE), 14-1410 News (EE), 18-1815 News, commentary, press review (EE); 20-2015 News (home) (EE); 2015-2030 "Ghana newsreel" (EE), 2245-2252 News review (EE). (WBI 11/17) GBC Radio 2 - 0525-0905 EE 3366; 0905-1225 (Sat&Sun) EE on 7295; 0905-1110 (Mon-Fri) EE on 7295; 1225-1705 on 7295 & at 1706 Frequency change to 3366 t/2305. (WBI 11/17) Also Thanks to Jerry Klinck, NY for Published Sked which says: "Please address all reception reports to: The Propagation Engineer, GBC Monitoring Station, P.O. Box 1613, Accra, Ghana."

GREECE - Voice of Greece Sked: 0000-0150 w/EE News 0130-0140 Am 9420, 9395, 7340; 02-0350 w/EE News 0330-0345 Am 9420, 9395, 7430; 04-0450 GK ME 9425, 9395, 7430; 05-0615 Eur, ME GK (for Cyprus, Turkey) w/News in Turkish 06-0610 9425, 9395, 7430; 0630-0730 Eur GK w/News in IT 0715-0725 9425, 9395, 7430; 08-0850 Au GK w/News in EE 0840-0850 Au 17550, 15625; 09-0950 GK 15630, 11645; 10-1050 Asia GK w/News in EE 1040-1050 Mon-Sat 11645, 15630; 11-1120 Turkish Eur 11645, 9815; 1130-1150 ME AA 11645, 9815; 12-1250 GK Am w/News in EE 1235-1245 17550, 15630, 11645; 13-1350 GK Af 15630, 12105, 11645; 14-1450 GK ME w/News in AA 1435-1450 12105, 9425; 15-1550 GK Eur, Am w/News in EE 1520-1540 & news in Swedish 1540-1550 17535, 15630-xTu, 11645; 16-17 Balkan Service Eur w/news in Albanian 1603-1615 9425, 9395, 7430, Serbo-Croat 1615-1630, 1630-1645 Bulgarian, 1645-17 Romanian; 1710-1750 GK (for USSR) Eur w/news in RR 1725-1740 & Polish 1740-1750 11645-xTu, 9425, 9395; 18-1850 GK Af w/News in EE 1840-1845 15630-xTu, 12105, 11645-xTu; 19-1920 GK Eur 9395, 7430; 1920-1930 EE Eur 9395, 7430; 1930-1940 FF Eur 9395, 7430; 1940-1950 GG Eur 9395, 7430; 20-2050 Balkan Service w/News in Albanian 2003-2015, 2015-2025 Serbo-Croat, 2025-2035 Bulgarian, 2035-2050 Romanian; 21-2150 GK Au 9425, 9395, 7430; 22-2250 GK Au 9425; 22-2350 Am w/News in PP 2305-2315, 2320-2330 SS, 2335-2345 EE 11645, 9395; 23-2350 GK (for the Panama Canal Zone) w/News in SS 2330-2340 9425. (WBI 12/8)

GUAM - KTWR Pub Sked Effective 11/5: Africa: EE 16-17 11910. Australia: EE 0930-11 11805; China: Cantonese 1345-15 11830; 2145-23 11650; Hakka (Mon-Wed), Swatow (Thu-Sun) 1330-1345 11830; 2130-2145 11650; Mandarin: 09-16 11665; 09-12 15485; 0930-1030 11710; 12-1330 9590; 12-15 9870; 15-16 9820; 22-24 11665; 23-2345 15265; 23-2345 15485; Far East: EE 08-0930 15210; India: 11910 at 1330 Boro (Mon-Fri), Hindi (Sat-Sun); 1345 Soura (Mon-Wed), Kurukh (Thu-Sun); 14 Tibetan (Mon-Wed), Nepali (Thu-Sun); 1415 Dogri (Mon-Tue), Hindi (Wed-Thu), Gamit (Fri-Sun); 1430 Assamese; 1445 Santali; 15 Tamil; 1545 Malayalam; EE 15-1705 11650. Indonesia: Indonesian 1030-12 15240; 22-2330 15420. Japan: Japanese 12-1330 9785; 21-22 15485. Russia: Russian 0830-09 11665; 11-12 11805. (Carson)

Adventist World Radio Asia will have a 'Limited Edition QSL Card' available after the 1st of January. Address is: AWR Asia, PO Box 7500, Agat, Guam 96928 or PO Box 310, Hong Kong. (as announced on 12/16)

GUINEA - National radio observed on 4900 kHz. Monitoring research 26 Nov 89. Guinean National Radio, Conakry, was observed on 4900 kHz with a programme in French and vernacular languages from tune-in 2000 gmt on 26th November. At 2100 gmt a parallel broadcast was also traced on 1295 kHz, which apparently replaces 1404 kHz. (WBI 12/1)

INDIA The 2 X 500kW HF transmitters installed near Bangalore are testing

with full power from 1330-1430 on 15295 and 17850 using music from Indian films with announcements, on a beam azimuth of 315 degrees to Europe and the Middle East. (Manosij Guha, Delhi) & via "Play DX" (Thanks to John Tuchscherer, WI) for letting me know about this) Planning to run both transmitters in parallel on one frequency to get 1000 kW power. Reports from Europe welcome to: R.K. Taneja, Deputy Director of Engineering, SW Installation, AIR, Bangalore 560001, Karnataka, India.

The graphic presentations of the Internal & External D89 All India Radio Schedules updated 11/27 are now available from Robert R. Palmer, E. 2707 - 15th Ave. Spokane, WA 99223-5101 & Manosij Guha, 101 S.R.K. Hostel, Jamia Nagar, New Delhi - 110 025. For USA & Canada to Robert R. Palmer send \$2.00 each sked. Listeners in the rest of the world to Mr. Guha send \$3.00 cash or 3 IRCs. All orders are promptly processed. Note: Listen to Radio Nederland's "Media Network" for regular updates on the broadcasting scene in India.

A list of all AIR stations' detailed addresses with possible verie signers, telephone and telex numbers, and telegraphic addresses is available now from Mr. Guha at the above address.

All India Radio Testing on 11810 - Observations:

11810, 2058, All India Radio, Hindi (presumed), Indian music. At 2201 M "This is the Broadcasting Service of ?". At 2230 M brief talk 2230-2331 into vocal and 2231* on 12/4. Not EE as heard from 1945 W w/EE ID to 2230 on 12/5 (bmm) & Bob Palmer, WA heard them from about 1610 on 12/5 in probably Hindi sometimes on top of, sometimes under, a whole lot of other stuff -- an Arab (Ed Note. Radio Jordan), Vatican Radio and even DW. Heard an EE ID at 1945. Said they were broadcasting to W & NW Africa and gave some frequencies to E. Africa as well. Leads me to believe they're using the big ones at Delhi or Aligarh for this transmission. It's new too. Not in the latest schedule updates from Mansoij Guha (in Delhi). Apparently they have made 11810 one of their major frequencies for D-89 (without telling anyone, which is their modus operandum). Most of the stuff I heard today probably Gujerati, Hindi & God knows what if it was not beamed to Africa. (Ed note: On 12/4 when I first heard them I called Pete Patel, Portland. He told me later that Jay Patel in Eugene, OR heard them in Gujarati mentioning Rajkot, Gujarat (Pete's Home State) but didn't give time. On 12/6 Indian music at 1721 mixing w/Vatican Radio I/S at 1725 (they just signed off)//15280 AIR Bombay (weak) & on 12/11 I (bmm) heard them from 1857 in English w/Indian music & EE news & Commentary from 1900 to 1910. Then noise level picked up & at 1945 could barely hear W w/ID & at 1957 Deutsche Welle w/IS, but real good from 2100 EE news & at 2110 W w/program information saying "DXers Corner" at 2130. On 12/14 heard AIR w/this useage on 11810: *1752-1829* Hindi; *1847-1929* FF; *1947-2045 t/Afr & from 2045-W.Eur, Australia to ? EE, *2145-2230 CC on 12/14. Sounds like still in the testing stages. (bmm) 15345 another new high-powered Indian outlet coming on the air at 2230 and closing at 0115. Programming appears to be a relay or rebroadcast, of a domestic service, and signal strength both here in Melbourne and in Perth, (advises Craig Tyson) has been superb. It completely overrides co-channel RAE, Buenos Aires and VOFC. This may be another outlet for Bangalore which was using 17875 for a time during late November in the period 19-21 and 06-12. (via 'Shortwave Station News' compiled by Bob Padula and Mick Ogrizek in 'The Australian DX News' Dec 89) 15395, AIR-Bangalore. Testing new high-powered transmitter, w/EE announcements, selections of Indian vocals 0820-0830, asking for reports to be sent to the Bangalore address of AIR. No doubt the new facility at Dodballapur on 11/6 (Bob Padula, Surrey Hills, Victoria, Australia)

INDONESIA - 4607, 0911, RRI Serui, ME type music, M announcer. Weak but better by 0922 when heard Christmas Carols "Jingle Bells" & Santa Claus is Coming to Town on 12/3 (bmm) 9614.5, 0820-0914*, RRI Samarinda, Indo, Indo pops & advertisements. At 0858 Rayuan Pulau Kelapa, then news. ID at 0913 as "Inilah Radio Republik Indonesia, Samarinda...gelombang..." then s/off. 1st noted in early Nov. TNX Mr. Ishii via Nishikawa for advice. (Sano in 'NTDXC Tune No. 70') 15155, 2335-2358*, Voice of Indonesia, Jakarta, Indo, W DJ w/rock music. VOI

interval signal twice & close at 2358. S7 in clear on 11/20 (Bill Flynn, CA) 15155, 2245, Voice of Indonesia, Indo, Sounded like Exercise Pgm w/M then just the music at 2250. At 2254 M back into Exercise Pgm? At 2258 W talk mentioning Jakarta then gave time & SCI at 2259. At 2300 W news but extreme QRM from Radio Pyongyang in SS on 11/30 (bmm)

ITALY - Italian Radio Relay Service has added a DX Program by Dario Monferini of the Play DX Group. The program is also called Play DX and includes 25 minutes of DX news in Italian, followed by five minutes in English. The schedule is the 2nd Sundays at 1230-13 on 9860. (Media Network in Fred Waterer's "Listening In" Column in 'Ontario DX' Magazine 12/89)

JAPAN - 3970USB, 0951, NHK, Nagoya (listed), JJ, W announcer talk then M. Time pips at 09 followed by M "NHK No....." Broadcast was weak on 12/15 (bmm)

JORDAN - 9560, 2045, Radio Jordan, EE, US Pop songs. At 21 M w/news & weather. At 2105 live album one side of 'Jethro Tull'. Announcer said dedications last half hour of show don't miss it! Signed off at 2154* on 11/30 (bmm)

LEBANON - Pro-Awn radio station observed on 5977 kHz. Monitoring research 13 Nov 89. A radio station broadcasting material in support of Gen Michel Awn was observed on 13th November from 1520 gmt tune-in on 5977.5 kHz. The radio identified itself as "Lebanese Radio" (al-Idha'ah al-Lubnaniyah) and announced (FM freqs) as well as on shortwave 5976 kHz or 50.17 metres. In a programme preview at 1530 gmt the radio indicated that it would continue broadcasting until 2400 local time (2200 gmt). Programmes included news bulletins at 16,18 and 20 gmt and a political commentary within a programme called "the voice of liberation" at 1630 gmt. Other programmes consisted mainly of Arabic and Western songs and music. (WBI 11/17) 6280.3, 1930-2004, King of Hope, Ukrainian, Swedish, EE, 1930 M ID w/time check"...program you've heard on King of Hope. The address, your letter to: King of Hope, P.O. Box 6575...You're listening to King of Hope, the studios...South Lebanon. King of Hope broadcasts in the 49 meter band at 6.280 MHz. Our time is 1930UTC.", then Ukrainian program. 1946 M ID "This High Adventure...King of Hope." then Swedish program. 2000 EE program. Poor on 10/29 (Junichi Nishikawa, Tokyo, Japan in NTDXC Tune No. 70)

LESOTHO - 4800, 1637, Radio Lesotho, Sesotho, M w/talk. At 1639 Choir singing African song & then M talk into music. At 1645 an EE ad for Christmas Shopping. At 1648 African song. Noise picked up. At 1700 M w/News t/1708. Faded out at 1718 on 12/11 (bmm)

LIBERIA - 4760, 0558-06, ELWA, IS, & at 06 lost to noise on 12/13 (bmm)

MALAYSIA - Voice of Malaysia Pub Sked: Indo: 22-24 6175, 6100 & 09-16 9750, 6175; EE: 0555-0825 15295 Australia, New Zealand, Indonesia, 9750 Indonesia, 6175 Indonesia; Mandarin: 1030-1230 15295 Indonesia, Australia, New Zealand & 11885 China, Japan, Hong Kong, Taiwan. Thai: 13-1430 6100; AA: 1530-17 15295 W.Asia, N.Afr; Burmese: 1430-1530 6100 Burma; Bahasa Malaysia (Malay): 0830-1030 15295 Australia, New Zealand & 9750 Indonesia; Tagalog (Filipino): 1030-13 1475 Philippines. VOM Programs: 0555 Mon-Sun Opening & Pgm Summary; 06 News; 0610 This is The Voice of Malaysia w/News, Views, Interviews, Reports, Music; 07 Mon - Malaysian Speaks, Tue - World Affairs, Wed - Malaysia Today, Thu - Talk on Islam, Fri - Extracts from the Periodicals, Sat - Malaysia in History, Sun - Visitors' Book. 0715 - This is the Voice of Malaysia. 08 - News, 0810 - Mon-Fri News Commentary, 0815 - This is the Voice of Malaysia, 0825 - Closes Down. Address: The Voice of Malaysia, PO Box 11272, 5074 Kuala Lumpur, Malaysia. (Jerry Klinck)

MONACO - Trans World Radio Pub Broadcast Sked to Eur, N.Afr, ME 9/24-3/24: 0740-0925 (Sat & Sun 0955 & Sun 1015) Daily EE 9485; 08-0820

Daily Norwegian 9650; 0830-0905 (Sun) & Monday (only 12/25 & 1/1/90)
GG 9795/7160; 0905-0920 Daily GG 9795/7160; 0930-0945
Czech(Sun,Thu,Sat) & Slovak (Mon,Tue,Wed,Fri) 9495; 0945-10 Daily
Hungarian 9495; 10-1015 Polish (Sun,Mon,Tue,Sat) 9495; 1105-1120 GG
(Mon-Sat) 9795, 7160; 1130-1145 to 12 on Sat (Sat&Sun) 9495; 1145-12
Czech(Sun) & 12-1215(Sat&Sun) 9495; 13-1315 Catalan(Mon) & SS(Sun,Tue)
11660; 1330-1345 Croatian(Sun) 7290; 1415-15 GG Daily 9795/7160; 1515-
1530 Kazakh(Thu,Fri), Kirghiz(Sat,Sun), Korean(Wed), Uzbek(Tue) 12020;
1515-1545 Daily & to 16 on Sun,Tue,Wed,Thu,Fri & to 1615 on
Sun,Tue,Wed RR 11635,9485; 1530-1545 Farsi(Mon-Fri) & 1545-16 Daily
12020; 1545-16 Belorussian(Mon) 9485; 16-1615 Daily Kurdish & 1615-
1630 Daily but 1640 on Sat Turkish 12020; 1630-1730 Daily but to 1745
on Sun,Mon,Tue,Wed,Fri,Sat RR 11635; 1645-17 Czech(Mon-Fri); 17-1715
to 1730 on Mon-Sat Hungarian 9495; 17-1730 Daily Polish 9795; 1730-
1745 Bulgarian(Thu-Sun) 9495; 1730-1745 Croatian(Mon-Wed & Fri-Sat) &
1745-18 Mon-Fri & 18-1815 Sun-Fri 7290; 1730-1745 Serbian(Thu), 1730-
18 Macedonian(Sun) 7290; 1745-18 Daily Armenian 9495; 1745-18
Slovenian(Sat) 7290; 1805-1905 Daily except to 1920
on Mon,Wed,Thu,Fri,Sat 9495; 1845-19 Ukrainian (Daily except Mon & Wed);
19-1915 Latvian(Daily except Tue & Wed) 7325; 19-1915 Daily except to
1930 on Sun,Tue,Thu-Sat Romanian 7355; 1915-1930 Daily except Tue,Wed
Estonian & Lithuanian Tue,Wed 7325; 20-2030 RR 7355; 2030-21 Slovak
(Fri-Sun) 6230. (Carson) 9650, 0756, TWR, Monaco, Norwegian, W at 08
then relig hymn at 0801 on 12/1 (bmm)

MOZAMBIQUE - 9618, 1703, R. Mocambique(t), PP, Highlife music. M talk
in PP at 1705 back into highlife then a latin-type song to 1709 then M
brief into African song on 12/13 (bmm)

NEW ZEALAND - Radio New Zealand International - Amended Schedule D89
Final from 2/7-5/3/90: New Zealand is 13 hours ahead of UTC.
Polynesian and Eastern Pacific Region: 17-19 & 0330-06 17730 &
alternative Freq 17.680 or 15485. Melanesian and Western Pacific
Region: 1905-21 & 0630-0930 17730. Alternative Freq 17680 or 15485.

These amendments follow the introduction of Radio New Zealand's new
100 kW transmitter now under construction at Rangitaiki in New
Zealand's North Island 380K north of Wellington.

This transmitter will open the new service at 0400 on Wed 1/24/90.

Correspondence requiring acknowledgement should contain three
International Reply Coupons. Recorded reports are acceptable but we
regret we are not able to return cassettes.

All reception reports are carefully considered and a QSL Card
issued following confirmation.

All enquiries please to, Ian Johnstone, Manager Radio New Zealand
International, PO Box 2092, Wellington, New Zealand.

Special Schedule for Commonwealth Games Coverage and Waitangi Day
Celebration - 1/24 to 2/6/90.

1/24: 04-10 17680. Opening of new service and Commonwealth Games
coverage. 1/25-2/6: 21-24 17680. Commonwealth Games & 03-09 17680
Waitangi Day Celebration.

Listeners are advised that in the event of adverse conditions,
several alternative frequencies are available and these are: 15485,
17730, 9850.

Current sked before amendment above takes precedent is in Dec LN.
This includes news in Maori, Cook Islands, Tongan and Samoan languages
at 06-0630 from Mon Fri. Tokelaun news can be heard on Tue & Thu.
Current Affairs: 'Checkpoint' Mon-Fri at 0430. Pacific Affairs: Each
Sat 0430. Sports: Events of a national or international interest are
scheduled as appropriate. Weekend sporting events are continuous.
(John Carson, OK - said received direct from Rudi Hill of RNZ Int'l)

NORWAY - Radio Norway at 05 on 11845NF ex 11840 on 12/12 (bmm)

PAKISTAN - 11570, 0155, Radio Pakistan, Urdu, M talk into vocal at
0158(Had checked at 0131 and nothing there) then M w/ID at 02 & TP's.
Went off at 0215 & returned at 0230 w/EE Slow-Speed News//21490, 17660
on 12/10. Latest Sked shows them 0045-0230 in Urdu then EE to 0245
but 11570 is not listed at these times. (bmm)

PHILIPPINES - FEBC Radio Int'l Sked: 0000-0230 (News at 01 & 02) EE 15480; 0115-0130 Burmese (Tribal languages) 15450; 0130-0145 Kuki 15450; 0145-02 Metei 15450; 02-0230 Sat&Sun Indian (Tribal languages) 15450; 03-09 CC-Std 12025; 0830-1030 Indo 11995; 09-11 EE Asia/Australia 11850; 09-16 CC-Std 11850-(from 14) 9845, 9800-(to 11); 11-1130 Hmong 11850; 1115-12 VV (Tribal languages 15100-(to 1145) 9670; 1130-12 Laotian 11850; 1145-1230 Burmese (Tribal languages) 15100; 12-13 Cambodian 11850; 12-13 VV 9670; 1230-14 Burmese 15100; 13-1330 VV (Tribal languages) 9670; 13-16 EE (News at 1330, 1430, 1530) 11850; 1330-1345 Tamil 9670; 14-1430 Burmese (Tribal languages) 15100; 16-1830 RR Eur 9845; 1830-1845 Tue, Wed, Fri Ukrainian Eur 9845; 1830-19 Sun, Mon, Tue, Sat GG Eur 9845; 1845-19 Tue Ukrainian Eur 9845; 1845-19 Wed, Fri GG 9845; 22-23 Tagalog 6030; 22-24 CC-Std 9830; 2225-2325 Indo 9780; 2230-23 Laotian 9875; 23-2330 Hmong 9875; 2315-2330 Lahu 11650; 2330-2345 Shan 11650; 2330-24 Cambodian 9875; 2330-0115 Burmese 15450; 2345-24 WA 11650. (WBI 12/8)

Craig Edwards, Australia, will be writing and voicing a 'DX Report' Saturday UTC between 01 & 02 for 5 minutes & a 'DX Update' Wednesday UTC at 1445 for 5 minutes on 11850 on "FEBC, Manila". (via 'OZ DX Edition No. 51, Dec 89) 9618.0, 0900, 0900, DZFM, since first noted on 10.24. EE, Philippine pops. ID as a "DZFM"..." only. Very weak signal. Heard on 9618.6 recently. Drifted from 9578777. Note: DZFM is now operated on 738kHz by Bureau of Broadcasting Service. (Yoshinori Sano in NDTXC Tune No. 70) 17790, 0304, Radio Veritas Asia, Hindi (not listed for this freq in ILG nor PWBR 90, but in WRTH 89), subcont vocal, W announcer. At 0307 M brief talk then W & then into music. At 0318 ID. At 0329 W w/ID & gave address. At 0330 M w/EE ID and ran through RVA Sked t/0331 then IS & off on 12/11 (bmm)

SEYCHELLES - FEBA Pub Sked from 11/5-3/90 w/noted change by Rolan Kunkel & I that from 0000-02 they are using 7215 ex 7275: 0000-0030 Bengali, 0030-01(0045 Tu) Hindi, 0045-01(Tu) Marathi 7215; 0057-0115 (Su-Tue, Fri, Sat) Urdu 9565; 01-0130(0115 Tue-Thu) Telugu 7215; 0115-0130(Su-Tu, Fri, Sat) Punjabi 9565; 0130-02 Tamil 7215; 0131-0158 (Su, Thu-Sat) Urdu 11845; 0159-0215(0230 Su, Mo) Urdu 11845 & 9565(from 12/3); 0215-0230(Thu-Sat) Sindhi 11845 & 9565(from 12/3); 0227-0245(Sun, Mo, Tu, We) Pushto 11845, 15175; 0230-0253(Th-Sa) Dari 11845, 15175; 0257-0330 Farsi 15325 (note this under Radio Japan co-channel); 0310-0358 Swahili 11810; 0328-04(Su, Mo, Sa) Amharic 15250; 0328-04(Thu, Fri) & 04-0430 (Sun, Sat) Oromo 15250; 0342-0430(0445 Sun, 0500 Fri) AA 15325; 0432-0505(Sat) EE (S.Asia) 15325; 0432-0505 (Mo) EE (S.Asia) 15325, 17820; 0912-0930, 0930-0945(Thu) & 0945-1001(Sun, Sat) FF 15430; 1001-1016(Sat) Malagasy 15430; 1057-1130(1145 Mo-Sat) AA 15415; 1224-1242 Nepali, 1242-1258(Fri) Bhojpuri, 1242-1258(Mo, Tu, We), 1242-1258(Thu) Nagpuria 15325; 1257-1330 Malayalam 11865; 1258-1345 Tamil 15275; 1330-1359 Kannada 11865; 1357-1458 Hindi 11865, 15325; 1412-1430(1445 Sun) Sinhala 9590; 1458-1555(1540 Su, Sat) EE (S.Asia); 1458-16 EE(Alternative) 15330, 9590; 1612-1659 Swahili 11820; 1626-1659 Malaygasy 11930; 1629-1701(Sun, We, Thu, Fri, Sat) Amharic 11860; 1659-1731 Oromo 11860; 1659-1731 Somali 9770, 11820; 1731-1801 Amharic 11860; 1731-1804 EE(E.Africa) 11820; 1801-1831 Tigrinya 11860; 1827-19 PP 6065; 1833-1851(1906 Sun, Mo, Fri, Sat) FF 9565; 19-1948 AA 11915. (Rolan Kunkel, CA) Rolan also received the following nice & informative letter from Roger Foyle, who is the Audience Relations Counselor and he's the one who usually gives the English ID and Frequencies at FEBA! "We have two sites, the "studio" in the hills above the capital, Victoria, and the "Transmitter Station" on the north east coast two miles north of Victoria. At the studio, where some English and Hindi programmes are made, we have two studio/control room suites, each using AKG microphones, Neve mixers, Revox tapes and Sony Cassette recorders, Technic turntables and Spandol and Kef loudspeakers. Our newsroom receives news primarily from FEB International's neo News Unit in Manila but also as a backup from Reuters via Fredericks Remodulators and other voice news sources via RACAL and Dymek receivers. At the TS, we have three transmitters: One "Harris", upgraded in March 1989 from 72kW to 100kW, another 100kW Harris, installed in March 1989, and one "Continental" 100kW. The

aerial system is built on a coral reef one kilometer off shore from the TS, comprising of seven masts supporting eleven stacked dipole curtain arrays. These aerial arrangements can be configured to give different beam directions and widths by computer-controlled RF switches. The computer also controls RF synthesized drives and audio sorting from a tokenized transmission schedule held in memory."

SUDAN - 9540, 1525, R. Omdurman, AA, M talk into EE at 1525 w/ID. At 1532 News. At retune 1558 US Pop Song & at 16 M with ending announcements back into same US Pop Song "Wake Me Up Before You Go-Go". At 1601 brief instrumental then W in FF at 1602 & at 1603 off air on 12/7 (bmm)

THAILAND - 9655, 2353-0015, Radio Thailand (11905 is covered by BCC, Taipei, Taiwan), EE features by W & music. M gave ID at 0000 but not readable. News by M from 0001 onwards. No ID heard & very weak but clear on 12/8,9 (Bill Flynn, CA)

TONGA - 5030, 0623, R. Tonga, Tongan, W talk then M at 0627. At 0631 brief "Surfin USA" song. Almost gone by 0643 but rechecked at 07 and heard drums and M said in EE "Radio Tonga News" & W said "National & International News. Rechecked at 0728 and heard e2l music and signal had picked up a little as before this it was weak with only a few words understandable. Tuned out at 0802 w/M talking in Tongan. Poor on 11/24 & actually a little bit better w/less noise on my "DX440" w/long-wire antenna & even heard with just telescopic antenna & haven't heard it that good since. (bmm)

TURKEY - New Shortwave transmitters for Voice of Turkey - Anatolia news agency, Ankara, in French 1751 gmt 24 Nov 89. Text of report. Emin Baser, director general of the PTT(Post, Telegraph and Telephone Administration), and Dr Wolfgang Schminke, president of the firm ABB(Asea Brown Boveri) signed a deal in Ankara on Friday (24th November) for the construction of the most powerful shortwave transmitter complex in the world. With this project, which will be completed in 31 months and will cost 180 billion Turkish lira, the Voice of Turkey will have better reception all over the world. (Editorial note: the project is believed to consist of five 500-kw transmitters) (WBI 12/1) 15267 Ankara, NF, indeed this "split" channel for TK service, good level around 0820. As predicted, bad het to/from stations on 15265 and 15270-the former occupied by a Radio Moscow service. Dunno why they chose this outlet, which is contrary to ITU agreements(i.e. DSB facilities should be in multiples of 5 kHz) on 11/6 (Bob Padula, Surrey Hills) & odd choice of frequency, but obviously intended to be here as per D89 schedule. TK service listed *0500-0900* & noted at 0810 on 11/5 (Craig Seager, Goulburn, NSW) & at 0610 on 11/5 (Frank Agius, Niddrie, Victoria) Note: I'm, hearing them from *06 on 15267//11925. (bmm)

UNITED KINGDOM - BBC World Service Sked: 0000-0030 India 5965E; 0000-01 SA m 6005A; 0000-0145 Asia 9580E; 0000-0330 SEAS 15360F; 0030-0045 SEAS 6195F; 0030-0145 India, ME 5965C, SAs 7135C; 0030-0230 NAM/CAM 9590K; 01-03* China 15280H, Japan 21715H; 0145-02* India 11955E, ME 5965C, SAs 7135C, SAs 9580E; 0145-02+ India 11955E, SAs 7135C, 9580E, 15380F; 02-0215 CAM/SAM 6110A, SAM 15390A; 02-0230+ India 11955E, SAs 15380F, SAs 7135C, SAs 9580E; 02-0330 ME 6050C, SAM 6005A; 02-05 E.Eur/WAS 12095UK; 0230-0330 SAs 7135C; 0230-0430 ME/SAs 11955C; 03-0330 Eaf 11845C, 15220C, 15420Sey, 17705C, SAF 3255L, 6005A, 6190L, 9600A, SAs 15380F, Eaf 11730L; 03-0430 Pakistan 9670C; 03-0630 Scandanavia; 03-0730 Scandanavia 6195; 03-0815 Pakistan 11760E, SAs/SEAS 15310E; 03-09 Japan 21715H; 03-0915 Eur/URS 9410; 03-0930 China 15280H; 0330-04 SAF 3255L; 0330-04+ Eaf 11845C, SAF 6005A, 6190L, 9600A; 04-0430 Caf 7105A, Eaf 15420Sey, Saf 17851Sey, 3255L, 6005A, 6190L, 9600A; 04-0730 Eur/Scandanavia 6180C, Pakistan 15245C; 04-2115 EEur/ME 15070; 0430-05 SAF 6190L; 0430-05+ Caf 15400A, SAF 04-2115 EEur/ME 15070; 0430-05 SAF 6190L; 0430-05+ Caf 15400A, SAF 9600A, SAF 11940L, SAF 15420Sey, 6005A; 0430-0730 Cam 5975W; 05-0545 Caf 6005A, SAF 9600A; 05-0630 Caf 15400A, Eaf 15420Sey, 17885Sey, SAF

11940L, 6190L; 05-0730 EAF 21470C, EEur 12095, EEur/ME 6195, Eur 3955, Eur/NAF 6195, Scandanavia/Eur 9580C, Scandanavia/URS 7120, SEur/NAF 7230, SWEur/NAF 3955; 05-0815 Cam 9640W; 05-23 Eur/AF 12095; 0545-0630 CAF 9600A; 0545-0815 Pac 9640W; 06-0630 CAF/SAF 17740A, 06-0815 Pac 7150, SEAs 17790E; 06-0915 Australia 11955F, 17710F, SEAs 15360F; 06-0945 URS 117640; 06-1830 Scandanavia/URS 15070; 0630-07+ CAF 9600A, 15400A, CAF/SAF 17740A, SAF 6190L, SAF 11940L; 0630-0730* EAF 15420C, 17885C; 0630-09* EAF 15420Sey, 17885Sey; 07-0730 CAF 9600A; 07-0815 CAF 15400A, CAF/SAF 17740A, SAF 11940L, 21660A, 6190L; 07-1830 EEur/ME 17640; 07-23 Eur/NAF 17325; 0730-08+ CAF 15105A, 9600A, WAF 11860A; 0730-09* EAF 21470C, Eur/Scandanavia 6180C, Pakistan 15245C; 0730-1515 Eur/NAF 5975; 08-0815 CAF 9600A, 11860A; 08-09* Scandanavia/Eur 9660C; 08-1615 NAF/CAF 17705; 08-2030 NAF/WAF 15070; 0815-0845* CAF 15400A, WAF 11860A; 0815-0845* CAF 15400A, WAF 11860A; 0815-09* SAF 11940L, 21660A, 6190L; 0845-1130 CAF/SAF 15400A; 09-0915 WAF 11860A; 09-0945 SEAs 17790E; 09-1030 Malaysia 9740F, Pakistan 15245C, SEAs 21715F; 09-11 Sam 15180A; 09-1115 SEAs 11750F, SEAs 6195F, 9740F; 09-1130 EAF 15420Sey, Eur/Scandanavia 6180C; 09-1330 Pakistan 11760E; 09-14 EAF 17885Sey; 09-1515 CAF 17790A, Eur 6045, Scandanavia/Eur 9660C; 09-1615 EAF 21470C, Eur/NAF/ME 9750, SAF 11940L, 6190L, SAs/SEAs 15310E, WEur/WAF 9760; 09-1745 CAs 17640, NWAf 21710, SAF 21660A; 0915-1115 SEAs/Pac 15360F; 1030-1115 EAs/Pac 9740F; 11-1330 Cam/SAM 11775W; NAM 9515S; 11-1615 AF 25750, ME/As/Australia 25750; 1115-1130* SEAs 11750F, SEAs 6195F, SEAs/Pac 15360F, SEAs/Pac 9740F; 1115-1130*+ SEAs 11750F, 6195F, SEAs/Pac 15360F, 9740F; 1130-1215* EAF 15420Sey; 1130-1515 SEAs/Pac 9740F; 1130-1615 SEAs 11750F, 6195F; 1145-12* EAs 7180H, Japan 15280H; 1145-12*+ EAs 7180H, Japan 15280H; 1245-13* EAF 15420Sey; 13-1330 CAF 15105A; 13-1345* Cam 6195W, Cam/SAM 11775W; 13-1345*+ Cam/SAM 11775W; 13-14 EAF 15420Sey; 13-1430 China 5995H, EAs 7180H; 1330-1345* CAF 15105A, NAM 9515S; 14-1615 CAF 17880A; 15-1530+ CAF 17740C, 21490A, EAF 15420Sey; 15-16* NAM 15260S, 9515S; 15-1615 CAF/SAF 15400A, China 5995H, EAs 7180H; 15-17 EEur/ME 6195; 15-1745 SEAs 3915F; 1515-1615 Malaysia 9740F; 1515-17 CAF 17860K; 1515-1830 SAs 9740F; 16-1745 NAM 9515S, 15260S; 16-1830 As 5975F; 16-2115 ME 6180C; 1615-1645* CAF 17880A, CAF/SAF 15400A, EAF 15240Sey, EAF 9595Sey, SAF 11940L; 1615-1645*+ CAF 17880A, CAF/SAF 15400A, EAF 15240Sey, EAF 9595Sey, SAF 11940L, 6190L; 1615-1745 CAF 21470A, NAF/CAF 17695; 1615-1830 SAs 15310E; 1645-17 CAF 17880A, EAF 15240Sey; 1645-17 EAF 9595Sey, SAF 11940L, 6190L; 1645-1830 Pakistan 7160E; 17-1715 SEAs 11750F; 17-1745* EAF 15240Sey; 17-1745+ CAF 17880A, CAF/SAF 15400A, EAF 9595Sey, SAF 6190L, SAF 11940L; 17-2115 Eur/Scandanavia 6180C; 17-23 EEur/ME 6195; 1745-1830 CAF 17880A, CAF/SAF 15400A, SAF 3255L, 6190L; 18-2115 URS 7325; 18-22 Australia 11750F; 18-23 Eur 3955; 1815-19* CAF 17880A, CAF/SAF 15400A, EAF 6005Sey, 9630Sey, SAF 3255L, 6190L; 1830-19*+ CAF 17880A, CAF/SAF 15400A, EAF 6005Sey, 9630Sey, SAF 3255L, 6190L; 19-20* SEAs/Australia 15140; 19-2030 EAF 9630Sey, Pakistan 7160E, SAF 3255L, 6190L; 19-21 CAF/SAF 15400A; 19-2115 CAF 17880A; 19-23 EAF 6005Sey, SEur/NAF 6195; 20-2115 Cam 5975W, Cam/SAM 17760W; 20-2130 EAs 7180H, 11715H; 20-23 SEAs/Australia 15140, SWEur/NAF 3955; 21-0030 SEAs 6195F; 21-2115 Caribbean 17715G; 21-22* CAF/SAF 15400A; 21-22*+ CAF/SAF 15400A; 2115-2130* Cam 5975W, Caribbean 17715G; 2115-2130*+ Caribbean 17715G; 21-23 SAF 9595Sey; 2130-0430 Cam 5975W; 2130-22* Falklands 9915; 22-0030 EAs/Pac 11955F, NAM 9590S; 22-0330 NAM/CAM 7325, SAM 9915, 11750A; 22-0430 NAM 6175S, NAM/CAM 9915; 22-23 CAF/SAF 15400A, SEAs 11955F; 22-2315 SEAs 3915F; 22-24 Australia 9570F; 23-0030 China 11945H, Indonesia 7145F, Japan 17875H. * = Non-daily transmission; + = Alternative Africa/Alternate Asia. Sites: A = Ascension Island; C = Cyprus; E = Masirah Island, Oman; F = Singapore; G = Greenville, NC H = Hong Kong; L = Lesotho; S = Sackville; W = Antigua; Sey = Indian Ocean Relay Station Seychelles. (WRTH Downlink Nov 89)

UNITED STATES - WLOW-2720Khz at 1210. AM MW type format. Alternating country & rock music. Significant fading and weak covered by heavy static by 1215. Unable to determine QTH. (Nick Terrence, NY) 15690, 0155 tune in, World Wide Christian Radio, CC, M w/ID at 0158 & M in EE at 0159 saying WOCR ceases operation on 15690 & tune to 7520. Note: WOCR uses 7520 till 06*. (bmm)

U.S.S.R. - Radio Moscow EE Freq Usage: 21890 02-09 & 23-24; 21725 07-16 (fm 1/1); 21690 0000-10 & 23-24; 21680 04-15; 21660 09-14; 21655 0000-04; 21635 02-10; 21555 02-04 & 05-06; 21450 05-06 & 08-10; 17890 0000-12; 17860 12-15; 17855 04-09; 17840 07-18; 17825 02-08; 17820 10-11 & 12-14; 17810 07-17; 17815 14-15; 17795 04-05; 17775 0000-10 & 23-24; 17765 09-11; 17735 05-14 & 15-16; 17725 05-06; 17700 05-15; 17695 14-15; 17675 02-10; 17665 05-16; 17655 0000-06, 07-10 & 22-24; 17645 09-14; 17635 06-10; 17625 04-11 & 12-15; 17620 08-09; 17610 0000-11 & 23-24; 17605 08-13; 17600 04-10; 17590 02-08 & 09-12; 17580 08-10; 17570 0000-08; 17565 10-13; 17560 08-09; 15595 09-10; 15590 10-11; 15580 09-10; 15560 07-08 & 09-16; 15530 08-13; 15520 09-13; 15500 06-13; 15490 09-13; 15480 05-08; 15475 06-18; 15465 06-13; 15460 09-12; 15455 04-08 & 09-10; 15435 06-13; 15420 0000-09 & 23-24; 15405 09-11 & 17-21; 15345 08-10; 15320 05-15; 15295 0000-10 & 23-24; 15260 08-13; 15280 04-13; 15170 0000-04 & 06-09; 15160 08-09; 15150 06-14; 15140 0000-12 & 23-24; 15130 02-03 & 21-24; 13765 05-06; 13715 03-04 & 06-09; 13650 06-07; 12060 19-20; 12055 04-13; 12050 17-23; 12045 0000-03 & 23-24; 12010 07-10; 12005 0000-01; 11995 03-08; 11895 15-16; 11840-Cuba 13-22; 11850 15-16 & 17-23; 11805 15-16; 11800 0000-11 & 23-24; 11785 05-06; 11765 03-19; 11745 08-09 & 12-16; 11730 17-18; 11710 03-04; 11705 08-15; 11685 20-22; 11625 08-09; 9895 14-17 & 17-21; 9885 16-18; 9875 10-14 & 17-21; 9870 21-23; 9860 18-23; 9830 15-17 & 18-20; 9820 19-22; 9815 0000-04; 9685 18-23; 9800 21-22; 9795 04-09 & 13-14 & 15-16 & 17-22 from 2/1; 9790 0000-02 & 21-24; 9780 09-13 & 21-22; 9765 04-07 & 12-14; 9755 15-22; 9740 21-23; 9730 21-22; 9705 10-18; 9575 19-20; 9565 15-16 & 17-19; 9515 06-08; 9510 0000-01, 16-18 & 23-24; 9450 06-10; 8125USB 16-20; 7925USB 15-20; 7390 04-05; 7370 0000-03, 13-17 & 23-24; 7345 15-18; 7315 15-19; 7310 04-09; 7305 09-10 & 11-15; 7300 10-11; 7265 18-19; 7175 07-08; 7220 15-19; 7170 17-20; 7150 05-06; 7135 0000-02 & 03-09; 7130 05-14; 7105 16-20; 6175 04-05 & 06-07; 6165 16-18; 6145 16-20; 6030 16-18, 19-20 & 21-23; 6000-Cuba 13-14 & 15-16; 4810 13-14 & 15-16. Also EE/Zulu 19-20 (including segment in Afrikaans every Friday at 1915 approx.) 12030, 11775, 9800, 9730, 9515. (via WBI 11/24)

VENEZUELA - 3275, 0815-0830, "Ritmos" music, Time check's & ID by M as "RM 900" (MW outlet). Weak but the most consistent (& usually the only one!) Latin American station audible on 90 meters. Must have antenna that favors WCNA! usually runs all-night, e.g. 4 Dec (Bill Flynn, CA)

VIETNAM - Currently active Vietnamese regional stations are: Bac Thai 6615, Cao Bang 6575, Hoang Lien Son 6712, Son La 6323. All frequencies are slightly variable. (Isao Uyusa, via Geoff Cosier in 'OZ DX' Edition No. 51, December 1989.)

CLANDESTINES - La Voz del la Resistencia Chilena in SS, *02-0230* on 15125 by Nobuyoshi Aoi of Tokyo. Radio Algeria ID also heard on this transmission. Program material is hostile for Communist cadres & sympathizers in Chile. (Radio Japan DX Corner, 12/4 via Mike Fern, CA)

La Voz de la Sahara Libre. - Sign-on 2200 w/drums, then ID starting 'Aquí La Voz...' then SS talks, informativos, talk of Polisario, regional music on 11/24. This transmits via Algerian facilities (Geoff Cosier, Victoria, Australia in 'OZ DX' Edition No. 51, Dec 89.)

Voice of the National Army of Democratic Kampuchea - New Evening schedule announced. Voice of the National Army of Democratic Kampuchea in Cambodian 2315 gmt 1 Dec 89. Text of announcement: As of Monday, 4th December 1989, Voice of the National Army of Democratic Kampuchea will change its evening broadcast times as follows: 10-13 Cambodian programme; 13-14 Vietnamese programme; 14-15 Back to Cambodian programme. The morning and afternoon programs remain the same. Compatriots and comrades-in-arms are invited to listen to these programmes. (WBI 12/6) Note: See Dec LN, Page 221 (bmm)

Voice of Democratic Kampuchea - Now back to regularly scheduled freqs at *2330-0025* as monitored on 11/23: 9440, 8345(ute QRM) & 7350. (bmm). Also heard by Mike Fern, CA on 11/23, 24, 12/3/4, 10 & 11.

Hope everyone had a safe Holiday! See you next month! 73's, Bruce

QSL Reports

Sam Barto
47 Prospect Place
Bristol, CT 06010

- ABU DHABI:** Voice of the United Arab Emirates 13605 f/d "Map" ltr. in 20 ds. for \$1.00. v/s Ahmed A. Shouly. (Goering-KS).
- ARGENTINA:** Radiodiffusion Argentina al Exterior 11710 f/d "Actualidad DX" cd. in 58 ds. for \$1.00. v/s Gabriel Ivan Barrera. (Blight-MD). f/d cd. in 10 wks. for 2 IRCs. (Klinck). LOL p/d folder cd. in 1 mo. for a SP rpt, cassette tape, ms. and SASE. (Huniwell-NJ).
- ARMENIA:** Radio Magallanes 9470 via Yerevan f/d cd. in 64 ds. (Wilkins-CO). Radio Yerevan 11675 f/d cd. in 65 ds. w/ schedule. (Connor-PA). Radio Moscow 15585 via Yerevan f/d cd. in 7 wks. (Kohlbrenner-PA).
- ASIATIC RUSSIA:** Radio Moscow 21470 and 17840 via Petropavlovsk-Kamchatsky f/d cd. in 2 mo. (Rigas-IL). 15405 and 12050 via Khabarovsk f/d cd. w/ schedule in 60 ds. (Rigas-IL). 9655 via Komsomolsk-on-Amur f/d "Friendship" cd. in 2 mo. (Cox-OR).
- AUSTRALIA:** Radio Australia 6020 via Brandon f/d "Koala Bear" cd. in 14 ds. after a f/up rpt. v/s Michael Taft. (Wilkins-CO). 6045, 6060, 5995, 9710, 9770, 11800, 6035, 6080, 7205, 9580 and 11790 p/d "Kookaburra" cd. in 7 wks. (Barto-CT). VLM15 15425 via Perth f/d cd. in 5 mo. (Kohlbrenner-PA). VNG f/d "Antenna" folder cd. in 2 mo. for \$2.00 and a taped rpt. (Huniwell).
- AUSTRIA:** Radio Austria International 11780 f/d "Traditional well". Citizen's Costume, Klagenfurt cd. w/ schedule in 57 ds. (Pecke-IA).
- BELGIUM:** BRT 9925 f/d "Four Scenes" cd. w/ schedule in 38 ds. for 2 IRCs. (Brouillette-IL). Radio Four Internationale 25645 f/d "Grand Square, Brussels" cd. in 32 ds. for a FR rpt. Sticker, pennant and schedule were rcvd. (Landau-NJ).
- BOLIVIA:** Radio Fides 4845 n/d attractive cd. in 2½ mo. after a f/up rpt. in SP w/ \$1.00. (Allen-OK). n/d "Map" cd. w/ prepared cd. in 66 ds. for a SP rpt. and \$1.00. This after a f/up rpt. (Wilkins-CO). Radio Cosmos 6095 prepared cd. w/ p/d ltr., 15th anniversary station pennant and a few small stickers in 33 ds. for a SP rpt. and \$1.00. v/s Gaby Garcia, Administradora. (Wilkins-CO).

- BONAIRE:** Radio Nederland 6165, 9590 and 15315 f/d "Space Photo" cd. in 31 ds. (Hart-FL).
- BORNEO (Kalimantan):** RRI Banjarmasin 3249.7 f/d cd. in 3 wks. for an IN rpt. and ms. v/s Tehnik Soedarsono. (Hosmer-MI).
- BOUGANVILLE ISLAND:** Radio North Solomons 3325 p/d personal ltr. in 47 ds. for \$1.00. v/s A.L. Rumina, Station Manager... who use to be at Radio East New Britain. (D'Angelo).
- BRASIL:** RadioBras 11745 f/d "Copacabana" cd. in 89 ds. for \$1.00. v/s Claudia Cainero. (Kacir-MI). Radio Cancao Nova 4825 f/d EG cd. in 41 ds. for a PT rpt. and ms. Sticker also rcvd. (Hosmer-MI). Radio Alvorado 4965 f/d cd. in 1 mo. after a f/up rpt. in PT. v/s Malmunda Ribetro da Silva. (Field-MI). ZYD39 Radio Copacabana 4975 p/d ltr. w/ stickers and schedule in 3 mo. for a PT rpt. on a 1973 reception. (Barto-CT).



LA VOZ DE YOPAL

YOPAL - GABARQUE
TAMBO 6000

Yopal, Agosto 23 de 1993

Señor

SEÑOR A. D'ANGELO
E.U.

Apreciado señor(a):

Se muy grato para nosotros el haber recibido de usted, la carta con el informe de recepción de nuestra emisora la voz de Yopal, y por ello es que le presento confirmado que se recibió la emisión, nosotros le daremos el correspondiente por favormente con los datos por favor.

Para su información y conocimiento, llamamos el otro día como el número de 1400 a las 9:00 p.m. hora colombiana, estamos ubicados al oriente de Colombia en la Gobernación de Guayana recibiendo momento la hora, en fibra y luego conectados por conductores de cerrojos, áreas y amarillitos y se le puede recomendar, si faltar de una telefonía o al jorjico.

Nuestro personal de planta un amable de 6 locutores, dos señoras diez, señoras, técnicos electricistas y garotas, como personas de la radio en todo caso del país.

Separame que con de un completo agrado esta información y me agradecería que diera a conocer más de su propia profesión sobre, sus actividades y actividades de más como yo que se realizó como es - internacional y me interesa sobre el respecto por medio de nuestros datos telefónicos.

Quisiera agradecerle los datos de nosotros.

cordialmente,

con amor y respeto

Manuela Lilia D'Angelo S.
Manuela Lilia D'Angelo S.

Manuela Lilia D'Angelo S.
Manuela Lilia D'Angelo S.



LA VOZ DE YOPAL - TAMBO 6000

RECEBIDA EN LA OFICINA DE YOPAL

KIRIBATI

QSL CARD

Absorbance Ink - the Hottest Secret Camp Photo P. Deaver

Dear

This is to verify your reception report of Radio Kiribati (Station T3E1) from 0529...007 on 08.2.0...007, on 12 May...1987 on our regular frequency 40.9177

9/10/89

Engineer-in-Charge Radio Kiribati

Published by the Broadcasting and Publications Authority, P.O. Box 78, Suva, Fiji



BULGARIA: Radio Sofia 15290 f/d "Nessebar" cd. w/ personal ltr. in 33 ds. (Humenyk-ONT). 9665 and 7115 p/d "Soviet Army Monument" cd. in 2 mo. (Barto-CT). 11660 f/d cd. w/ schedule in 39 ds. (Levison).

BURKINA FASO: Radiodiffusion Burkina 4815 f/d form ltr. in 13 mo. on my second try for a FR rpt. (Field-MI). same in 5 mo. for a FR rpt. and \$1.00. (Hart).

BYELORUSSIAN SSR: Radio Moscow 15455 via Orsha f/d "Lenin Mausoleum" cd. in 40 ds. w/ schedule. (Hart-FL).

CANADA: CBC Northern Quebec Service 9625 via RCI f/d ltr. in

37 ds. w/ schedule and door hangers (!) v/s Nathalie Chamberland. (Peake-IA). CFRX 6070 f/d "Airplane" cd. in 5 mo. for ms. v/s Ron Hopkins, ODXA. (Wallace-MA). CFCX 6005 f/d cd. w/ ltr. in 10 ds. for 1 IRC. v/s John Stubbs, VP Operations. (Turnick-PA).

CELEBES: RRI Manado 3214.9 n/d ltr. in 33 ds. for an IN rpt. and ms. v/s Daniel Narande... who use to be at Fak-Fak. (Hosmer-MI).

CHILE: CBV Time Signal Station 8677 f/d "Map" cd. * in 4 mo. for \$1.00. and a SP rpt. v/s Jose L. Andaur Carrero, Capitan de Fragata Lt. (Wallace-MA).

CHINA, PEOPLES REP. OF: Radio Beijing 11855 via * Jinhua two f/d cds. w/ cloth ornament, clay sculpture and transmitter site in 27 ds. (Kusalik-ALB). 17855 via Shujiachuang f/d cd. w/ site and a cloth ornament in 17 ds. (Kusalik). 15440 via Kunming f/d cd. in 3 wks. (Butcher-MA). BPM 5000 f/d cd. in 48 ds. after 2 f/up rpts. v/s Qi Guanyong, Chief, Section of Science and Technique. This is my 18th time signal station verified. (Kusalik). 10000 f/d cd. in 5 mo. on my second try. (Field-MI). f/d cd. w/ info. sheet in 49 ds. after a f/up rpt. (Archer-NC).

CLANDESTINE: La Voz del CID 9942 f/d "Certificado de Sintonia" in 49 ds. for a SP rpt. and \$1.00 (Landau-NJ). 9941.7 f/d cd. in 3 mo. for a SP rpt. (Barto-CT). Voice of the Revolutionary Council 15450 and 15235 via Radio Jamahiriya facilities in 5 mo. for a rpt. to the Malta address. This is a pro Palestine outlet. (Field-MI). Iran's Flag of Freedom Radio 9045 and 15555 n/d personal ltr. in 2 mo. on my second try. v/s Dr. Manoudehr Ganji, Secretary General. (Field-MI). Radio Venceremos 6620 ltr. in 47 ds. for an EG rpt. to the NYC address. v/s Anita Ocampo. (Kusalik).



* Voice of the Communist Party of Iran 3878 and 4432 f/d prepared cds. w/ f/d ltr., signed and stamped in 97 ds. after my second f/up rpt. v/s A. Hedayat, CPI International Relations. (Kusalik-ALB).

COLOMBIA: La Voz del Llano 6116 f/d cd. w/ post-cards and a business cd. in 66 ds. after a f/up rpt. in SP. v/s Gloria Rodriguez R., Administradora. (Archer-NC).

LA CARTA DE VERIFICACION

via Roland Archer

ONCE de OCTUBRE de 19 89

RADIO LA VOZ DEL LLANO

Confirmamos su reporte de recepcion sobre nuestra emision en la frecuencia de 6115.0 kHz, el dia 25-05-88, entre las 5:05 y 5:36 horas de Colombia.

Firma, La Voz

Signature of Administrator

COLOMBIA: La Voz del Cinaruco 4865 p/d form ltr. w/ personal ltr. in 20 ds. for a SP rpt. and \$1.00. v/s Alvaro Perez Garcia. (Barhydt-OR).

COSTA RICA: TIPC 5055 f/d "Lighthouse on the Caribbean" cd. w/ personal ltr. in 6 wks. for an EG/SP rpt. and 1 IRC. Rcvd. 40th anniversary pennant, sticker and schedule. v/s Juan Jacinto Ochoa F. Manager. (Butcher-MA). Radio Impacto 5030 n/d ltr. in 5 mo. after several rpts. in SP. Pennant rcvd. v/s Hector Requena C. (Field-MI).

CUBA: Radio Moscow 9720 via Habana f/d cd. in 41 ds. v/s Mrs. Eugenia Stepanova. (Butcher-MA). same in 60 ds. (Rigas-IL).

Radio Habana Cuba 11820, 9655 and 5965 f/d "Torre Yznaga" cd. in 7 mo. (Peake).

CZECHOSLOVAKIA: Radio Praha 7345 f/d "Opocno Chateau" cd. in 3 wks. (Cox-OR).

DENMARK: Radio Denmark 11740 n/d personal note in 17 ds. for a taped rpt. and 1 IRC. (Connor-PA).

DOMINICAN REP: Radio Amanecer 6025 f/d cd. w/ ltr. in 42 ds. for a SP rpt. and \$1.00. v/s Socrates Dominguez. (Goering-KS).

DOBAI: Dubai Radio 15400 f/d "Great Circle Map" cd. w/ pennant in 1 mo. v/s K.F. Fenner. (Butcher-MA).

ECUADOR: HCRP7 Radio Pastaza 3316 f/d prepared cd. w/ n/d ltr. in 6½ mo. for a SP rpt. after 5 tries. Sticker and banknote rcvd. v/s Armando Valverde M., S. Economia. (Palmerheim-MN). 3315 n/d ltr. in 2 mo. on my 3rd try for a SP rpt. Pennant rcvd. (Field-MI). Radio Rio Amazonas 4870 n/d ltr. w/ pennant in 580 ds. for a SP rpt. and cassette tape along w/ ms. v/s Prof. Marco G. Diaz D., Gerente. (Wilkins-CO). f/d ltr. in 90 ds. for a SP rpt. and \$1.00. Pennant rcvd. (Kusalik-ALB).

La Voz del Napo 3280 p/d cd. in 6 mo. for a SP rpt. and ms. v/s Ramiro Cabrera. (Allred-ECU). same w/ pennant and decal in 596 ds. for a SP rpt. and ms. (Archer-NC). Radio Popular Independiente 4800 f/d personal

ltr. in 3 mo. after I personally visited the station. When I saw the office I realized how my first ltr. had been misplaced. It took the secretary about 5 minutes to find some station letterhead. v/s Manena de Villavicencio. (Allred-ECU). HCJB 11775, 15155 and 9745 f/d "50th Anniversary" cd. w/ sticker and calendar in 35 ds. v/s Glen Volkhardt, Director of Broadcasting. (Peake-IA).

Radio Nacional Espejo 4680 p/d personal ltr. in 2½ wks. for a SP rpt. and ms. v/s Marco Caicedo, Manager. (Allred-ECU). Radio Jesus del Gran Poder 5050 p/d cd. in 4 mo. after a f/up rpt. in SP w/ ms. (Wallace-MA).

EGYPT: Voice of the Arabs 9770 via Abis and 11795 via Abu Zaabal p/d cd. w/ personal note via Radio Cairo in 3 mo. for this 83 reception. (Barto-CT). Radio Cairo 15220 and 11720 via Abis p/d cd. w/ schedule in 4 mo. (Barto-CT).

EUROPEAN RUSSIA: Radio Moscow 15175 via Armavir f/d "Lenin Mausoleum" cd. in 9 wks. (Barto). 11980 f/d cd. in 7 wks. (Kohlbrenner-PA). 7150 and 9865 f/d cds. in 60 ds. (Rigas-IL).

FRANCE: Radio France International 21770 "House of Radio" cd. w/ schedule in 47 ds. (Peake). 7135, 6045, 6175 and 15300 f/d cd. in 3 mo. (Barto-CT).

FRENCH GUIANA: Radio Beijing 11685 via Montsinery f/d cd. w/ schedule in 27 ds. (Kusalik-ALB). Radio France International 9800 and 9790 f/d cd. in 4 mo. (Barto).





**ADVENTIST
WORLD
RADIO
AWR**



GABON: Radio France International 7160 via Moyabi cd. in 3 1/2 mo.
GERMAN DEMOCRATIC REP: Radio Berlin Internat- (Barto).
ional 11785 f/d cd. in 2 1/2 mo.(Cox-OR). f/d "Potsdam"
 cd. in 33 ds. w/ FDCs and stamps.(Peake-IA). f/d cd.
 in 15 ds. w/ large banner, postcards and H-100 RBI
 Diploma.(Peake).

GERMANY, FEDERAL REP. OF: Radio Liberty 11875 via Lamp-
ertheim p/d "Map" cd. in 10 ds. for ms.(Hart-FL).
 * 17760 same cd. in 10 ds.(Wilkins-CO). Radio Free Afgh-
anistan 15370 via Radio Liberty in Holzkirchen p/d cd.
 in 10 ds. for ms. via NYC address.(Wilkins-CO). Sudwest-
funk 7265 p/d "Globe" cd. in 40 ds. for 1 IRC.(Connor-PA).
 cd. in 8 1/2 mo. for \$1.00.(Goering-KS). Radio Liberty 15290
 "Map" cd. in 8 ds. via NYC address.(Goering-KS).

GHANA: Ghana Broadcasting System 4915 f/d "Golden Jubilee" cd.
 w/ schedule in 48 ds. for 1 IRC.(Connor-PA). f/d cd. in 50
 ds.(Turnick-PA). f/d cd. almost identical to one rcvd. in 63
 for 2 IRCs.(Klinck).

GREECE: Radiophonikos Stathmos Macedonias 11595 via Thessaloniki
 f/d "Blue of the Aegean Sea" cd. w/ schedule in 43 ds. for
 \$1.00. v/s A. Grannakuras.(Landau-NJ). Voice of Greece 7430 n/d
 cd. in 6 wks. v/s Fanie
 Pamphilou.(Cox-OR).

GUAM: AWR-ASIA 15225 f/d
 "sticker" cd. in 45 ds.
 w/ pennant for \$1.00.(Hart
 FL). KTWR 11650 f/d cd. w/
 personal ltr. in 22 ds. for
 1 IRC.(Cox-OR).

GUATEMALA: Radio Buenas Nuevas
 4800 f/d cd. in 35 ds. for a
 SP rpt. and 2 IRCs(returned).
 v/s Israel Rodas M., Gerente.
 (Landau-NJ). Radio Tezulutlan
 4835 f/d cd. w/ ltr. in 26 ds.
 for a SP rpt. and \$1.00. v/s
 Antonio Jacobs, Director.(Brou-
 illette-IL).

HAWAII: WVWH 10000 f/d cd. in 19 ds. Station requested my receiving antenna
 details. Unusual.(Peake-IA).

HOLLAND: Radio Nederland 17605 and 15220 via Lopik p/d cd. in 3 mo.(Barto).
 6020 f/d "Space Photo" cd. in 31 ds.(Hart-FL).

HONDURAS: Sani Radio 4755 n/d form ltr. in 70 ds. after a f/up rpt. in SP
 for ms. and SAE. v/s Jacinto Molina G., Director.(Archer-NC).(Palmerheim)

HONG KONG: BBC East Asia Relay Station 17875 f/d prepared cd. in 16 ds.

HUNGARY: Radio Budapest 9520 via Jaszbereny f/d cd. in 45 ds.(Kacir-MI). in
 31 ds. w/ costume postcards and schedule.(Kacir-MI).

INDIA: All India Radio 11620 and 9910 f/d "Pinjore Gardens" cd. in 56 ds.
 (Hart-FL). 11620 same cd. in 42 ds. w/ schedule.(Landau-NJ). 17386.9
 same cd. in 3 mo.(Barto-CT). 15335 via Aliqarh f/d "Taj Mahal" cd. in
 66 ds. w/ schedule for \$1.00.(Hoffman-PA).

ISRAEL: IBA 17575 f/d cd. in 26 ds. w/ schedule.(Peake-IA).

ITALY: AWR - Forli 7125 f/d "Coverage Map" cd. in 28 ds. w/ schedule for 1
 IRC.(Connor-PA). Italian
 Radio Relay Service 9860
 f/d cd. in 1 1/2 mo. for 2
 IRCs.(Wallace-MA).

JAPAN: Radio Tanpa 6055, 3925
 and 9595 f/d cd. in 28 ds.
 for 2 IRCs.(Barhydt-OR).

* NHK-Nabeta 6005 f/d prepared
 cd., signed and stamped,
 in 1 mo. after 3rd f/up rpt.
 Postcards rcvd.(Kusalik).

JAVA: RRI Bandung 3204.4 f/d
 prepared cd. in 1 mo. for
 an IN rpt. and ms. v/s Eem
 Suhaemi.(Palmerheim-MN).

<p style="text-align: center;">QSL</p> <p>Asesores recibidos de su amable respuesta de respuesta de su amable respuesta de Radio CONTINENTAL en la frecuencia de 4.980 MHz el día de 30 de 1981. En su respuesta recibida de 29.05.81, me de Viena. Variaciones de los datos de canal, se informo en respuesta CORRECTO Deseo recibir más copias gratis de "Radio Continental" Asimismo Buenos Aires, 27 de 03 de 1981.</p> <p style="text-align: center;">RADIO CONTINENTAL TV 4320 MHz 10 kW TV 6940 MHz 1 kW Avenida Marqués del Pombal Edificio Buenos Aires, 1500 Ciudad de Buenos VIÑEZUELA</p>	<p style="text-align: right;">ANO MARZO - 1981</p>  <p style="text-align: right;">VIÑEZUELA</p> <hr/> <p style="text-align: center;">RICHARD A. D'ANGELO 221 BURET DRIVE MYCHESING, PA 19610.</p> <hr/> <p style="text-align: center;">EE.UU. DE A. (U.S.A.)</p>
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<p>Gescheft Hoop Gouda 41. 2801 LB Gouda Holland Tel. 01820-77000</p>		<p>Hoofdafvoer 1 Church Street Amsterdam 7 2973 LB Den Haag Holland Tel. 070 62529</p>	
<p>Bestelling Emplengbericht</p>		<p>Confirmation Reception Report</p>	
<p>Datum Date</p>	<p>Zon GMT Time</p>	<p>Frequentie MHz</p>	<p>Signa l</p>
<p>4/16/81</p>	<p>20 35 2:00</p>	<p>62.5</p>	<p>3385</p>
<p>Emplenger / Antenna Song 200 100 LD Receiver / Antenna Telegrafica Bemerkungen Remarks</p>			

QSL
 Karte/Carta

Den Haag/The Hague

Hörer/Listener

Gordon Darling
 Boroko
 Papua New Guinea.

Notes: Bill Peake in Buffalo Center, IA (I love that name) writes in to say that he is very pleased with the bulletin and the QSL Column. To answer your question, the R.P. on the report form stands for Return Postage. Hope this helps you out a bit...Sam. Larry Goering in Hutchinson, KS says that he recently received a letter from the FIBS for a very detailed March 1988 reception report. He received AM/FM schedule, station stickers and a statement that they do not have any plans to resume shortwave transmissions due to a damaged transmitter....but no QSL was received....Keep trying. You may hit them on a good day...Sam.



JAVA: RRI Yogyakarta 5046.2 f/d cd. in 28 ds. for an IN rpt. and ms. (Palm-JORDAN: Radio Jordan 9560 f/d cd. in 10 mo. after 5 f/up ersheim-MN). rpts. (Gaharan-LA). same in 304 ds. (Levison-PA). f/d cd. in 90 ds. after 4 f/up rpts. and \$1.00. (Wilkins-CO). f/d cd. w/ schedule in 321 ds. (Cox-OR). cd. in 5 mo. for ms. (Wallace-MA). 9560 and 11920 f/d cd. w/ schedule in 9 mo. (Barto-CT).

KIRGHIZ SSR: Radio Moscow 17675 via Frunze f/d cd. in 40 ds. (Hart-FL). f/d "Lenin Mausoleum" cd. in 9 wks. (Barto-CT).

KOREA, PEOPLES DEMOCRATIC REP: KCBS 3959.8 via Kanggye p/d "Lilly" cd. w/ schedule in 4 mo. (Barto-CT). Radio Pyongyang 9325, 9345 and 9555 p/d ltr. in 2 mo. (Barto-CT)...Also rcvd. another envelope from KCBS. QSL? No...just a Season's Greetings card...Drat...Sam.

KOREA, REPUBLIC OF: Radio Korea HLK31 6015 p/d cd. in 3 mo. for 87 reception. (Barto). 15575 f/d "Parade of Chosun Dynasty Costumes" cd. in 28 ds. (Landau).

LATVIA: Radio Riga 5935 f/d "Dwelling House" cd. in 52 ds. for \$1.00 (Goering-KS).

LIBERIA: VOA 9525 f/d cd. in 8 ds. (Turnick-PA).

MALAYSIA: Voice of Malaysia 15295 p/d ltr. w/ schedule in 3 mo. for a taped rpt. and 2 IRCs. (Klinck). Radio Television Malaysia 4950 f/d "Broadcasting House" cd. in 73 ds. for 1 IRC. (Barhydt-OR).

MALAGASY REP: Radio Nederland 15570 f/d cd. in 24 ds. (Klinck). 17575 f/d cd. w/ schedule in 36 ds. (Landau-NJ).

MALI: Radio Beijing 15130 f/d cd. w/ site in 15 ds. (Hart-FL).

MALTA: Voice of the Mediterranean 9765 f/d "Gozo and Comino" cd. in 40 ds. for \$1.00. (Goering).

MANCHURIA: Jilin PBS 3310 f/d cd. in 3 wks. via Beijing. (Palmer'sheim). * f/d cd. in 3 wks. via Beijing. (Palmer'sheim).

MOROCCO: RTVM 17595 f/d cd. in 4 mo. for ms. (not used) for an EG/FR rpt. (Hosmer-MI).

NAMIBIA: SWABC 4965 f/d "Hoodia Vainzil" cd. in 6 mo. (Cox-OR).

NEW ZEALAND: Radio New Zealand International 17705 f/d "Bird" cd. in 17 ds. for 3 IRCs.

NIGER: La Voix du Sahel 5020 f/d "Map" cd. in 47 ds. after 3 tries for an EG/FR rpt. for \$1.00. (Goering-KS).



NORWAY: Radio Norway International 21730, 11850 and 17840 p/d cd. in 9 wks. (Barto-CT). 11850 and 15175 p/d cd. in 4 mo. (Barto).

PAPUA NEW GUINEA: Radio Madang 3260 f/d ltr. in 41 ds. for \$1.00. v/s Simon P. Tiori, Assistant Station Manager. (Hart-FL). Radio Eastern Highlands 3395 f/d ltr. in 25 ds. for ms. v/s Kiri Nige, Senior Technician. (Hosmer-MI).

PARAGUAY: Radio Nacional 9735 p/d form ltr. in 35 ds. for a SP rpt. and \$1.00. v/s Carlos Montaner. (Barhydt-OR).

PERU: Radio Tropical 4935 p/d ltr. w/ tourist brochure in 1 mo. for a SP rpt. and ms. v/s Luis F. Mori Reategui, Gerente. station no longer has pennants. (Allred-ECU). Radio Onda Azul 4800 ltr. rcvd. after a f/up rpt. in SP w/ ms. (Archer-NC).

PHILIPPINES: VOA 15290 f/d cd. in 7 ds. (Landau-NJ). PEBC 11850 f/d "Sail-ing Vinta" cd. in 9 wks. for \$1.00. v/s Mrs. Chris Stover, QSL Secretary. (Butcher-MA).



Q S L
Radio "La Voz del Napo" H C V N 7
Tena - Napo - Ecuador
TARJETA DE VERIFICACION
via Brent Allred

Señor *Brent*
Estimado agente:

Con la presente accusamos recibo de su carta en la que nos informa que necesitó nuestra estación: Radiodifusora Cultural "La Voz del Napo" H C V N 7 que transmite desde Tena, Napo, Region Pastazura Ecuatoriana Su recepción fue el día *4 de Mayo, 1989* a las *20h 13* hora ecuatoriana.

G M T

PORTUGAL: Radio Free Europe 17895 via Gloria p/d "Map" cd. in 13 ds. via NYC address. (Wilkins). 11815 same cd. in 8 ds. for a Romanian rpt. (Turnick-PA). Radio Canada International 15315 via Radio Portugal ltr. promising future QSL cds. in 17 ds. (Klinck).

QATAR: QBS 17770 f/d "Map" cd. in 9 mo. on my 3rd try for \$1.00. v/s Jassim Mohammad Al-Qattan. (Goering-KS).

RIO MUNI: Radio Africa 7189 p/d cd. via CA address in 20 ds. for ms. (Goering-KS).

ROMANIA: Radio Bucharest 9510, 11940 and 11830 f/d "Brasov Emblem" cd. in 107 ds. w/ schedule. (Levison-PA). 15380 f/d "Bihor Emblem" cd. in 126 ds. w/ schedule. (Levison-PA).

SARAWAK: RTV Malaysia 3385 via Miri f/d cd. in 36 ds. w/ schedule. v/s Mohd. Nasir B. Mohammed. (Kusalik-ALB).

SAUDI ARABIA: BSKSA 9720 n/d ltr. w/ schedule in 50 ds. v/s Suliman A. Al-Samnan. (Connor-PA).

SCOTLAND: Weekend Music Radio 15043.5 f/d ltr. in 19 ds. for \$1.00. v/s Jack Russel. (Wilkins-CO). 6239.6 f/d cd. in 5 wks. for \$1.00. Also rcvd. banners and ltr. (Kohlbreenn-

SEYCHELLES: BBC 15420 f/d er-PA). prepared cd. in 30 ds. for \$1.00. v/s Peter J. Loveday, Senior Transmitter Engineer. (Hoffman-PA).

SOUTH AFRICA: Radio 5 4880 f/d cd. w/ sticker in 24 ds. for 2 IRCs. (Turnick-PA). Radio RSA 9615 n/d cd. in 17 ds. v/s Minnie Visser. (Kacir-MI). f/d "Johannesburg" cd. in 54 ds. (Kacir-MI).

SPAIN: Radio Exterior de Espana 9630 f/d "1992 Special Events" cd. w/ ltr. in 90 ds. (Hart-FL). 15280 same f/d cd. in 3½ mo. (Allred).

SRI LANKA: Deutsche Welle 17825 via Trincomalee n/d cd. in 92 ds. for 1 IRC. (Butcher-MA).

SUDAN: Sudan Broadcasting Service - Radio Omdurman 9435 p/d hand written personal ltr. in 41 ds.

— RADIO POPULAR INDEPENDIENTE —
LA VOZ DEL APOYO
MÁS QUEJES — MÁS SERVICIO

Quito, 12 de noviembre/1989

Señor *BRENT ALLRED*
Castilla 691
Q7190

Apreciado Radiogente:

Atusamos recibo de su carta del 11 de agosto del presente en la que nos informa su infome de recepción de una audición de nuestro programa el día 11 de Agosto desde las 20h37 hasta las 21h00 hora 1989.

Agradecemos su reportaje y la confirmación, y esperamos siga sistemáticamente.

My Attestment.
F. J. GARCIA
COMISION DE VERIFICACION
Garante

sin
de 11/89.

HCMV6

...10 Onda Largo
1800 Onda Corta

Estación
Av. Lago 1 085
La Cumbre
Tel. 610 124

Oficina
Presidencia Co-Ases
11-12
General Torres
Tel. 628 817

Respaldo Tecnológico
...10 Opción
Sub de Egreso

Dir. Carlos Gabriel
...10
Comer - Baner

from the following address: SBS, Dept. of Public and International Relations, P.O. Box 572, Omdurman. (D'Angelo-PA).

SULAWESI: RRI Gorontalo 3265 f/d ltr. in 44 ds. for \$1.00. v/s Saleh S. Thalib. (Paszkwicz).

SUMATERA: RRI Padang 4002.7 f/d ltr. w/ photo in 24 ds. for an IN rpt. and ms. v/s M. Nur Darwis. (Palmerheim-MN).

SWEDEN: Radio Sweden International 15240 via **Horby** and 21700 via **Karlsborg** p/d cd. in 7 mo. (Barto-CT).

SWITZERLAND: Swiss Radio International 6135 f/d cd. in 23 ds. (Gaharan-LA). 21705 via SSB to Africa on the **Schwarzenburg** transmitter. f/d cd. w/ site in 16 ds. (Kusalik-ALB).

SYRIA: Radio Damascus 9950 f/d "Globe/Logo" cd. * in 314 ds. for lotsa bribes and goodies! Also rcvd. stickers and schedule. (Blight-MD).

TAIWAN: BSP 15000 f/d cd. in 24 ds. for \$1.00.

TANGIER: RTVM 15360 via **Tangier** f/d (Goering). cd. in 89 ds. for a FR rpt. and 1 IRC. (Butcher-MA).

TOGO: Radiodiffusion Togolaise 5047 f/d cd. in 1 mo. for a taped rpt., FR rpt. and 2 IRCs. (Klinck).

TONGA: Tonga Broadcasting Commission 5030 **A3Z** p/d "Logo" cd. in 28 ds. for \$1.00. v/s M. Indiran. (Palmerheim-MN).

UKRAINIAN SSR: Radio Kiev 12000 f/d cd. w/ schedule in 98 ds. (Levison).

USA: Voice of Free China 5950 via **WYPR** f/d cd. w/ sticker in 41 ds. (Levison). **KJES** 15140 prepared cd. in 28 ds. for ms. v/s James Bush. (Wilkins-CO). **WINB** 15185 f/d cd. in 49 ds. (Peake-IA).

USA (Pirate): Voice of the Purple Pumpkin 15036 f/d cd. in 25 ds. for 3 ms. (Paszkwicz). 7450 f/d cd. in 25 ds. for ms. (Turnick-PA). **East Coast Pirate Radio** 7415 f/d form ltr. in 3 wks. for ms. (Allen-OK). **KNBS** 7415 f/d "Cannabis 41" cd. in 3 wks. w/ pennant. (Allen-OK).

Radio Angeline 7433 f/d "Hanging Dolls" cd. in 4 mo. for ms. on an 84 reception. v/s Jojo Kotew. (Palmerheim-MN). **Voice of Monotony** 7415.8 f/d "Sailor at Microphone" cd. w/ personal ltr. in 27 ds. (Zeller-OH).

USSR: Radio Moscow 18195 f/d "Moscow State University" cd. in 2 mo. w/ * ltr. explaining that the transmitter location cannot be revealed (Hart).

UZBEK: Radio Tashkent 15470 f/d cd. w/ schedule in 65 ds. (Butcher-MA).

VATICAN: Radio Vatican 9645 f/d "Palazio Pio" cd. in 65 ds. (Cox-OR).

VENEZUELA: Radio Juventud 4900 f/d cd. in 1 mo. for a SP rpt. and \$1.00. This was for an 84 reception. (Wilkins-CO).



VIETNAM: Voice of Vietnam 15010 f/d cd. w/ New Years cd. in 8 mo. for 1 IRC. (Klinck).

WEST IRIAN: RRI Wamena 4871 f/d form ltr. in 1 mo. for an IN rpt. Personal ltr. rcvd. v/s Yoswa Kumursawak. (Field-MI).

YEMEN, PEOPLES DEMOCRATIC REP:

DYBS 7190 p/d pink "Antenna" cd. on my 3rd try in 5 mo. v/s Abdulla N. Yeslam. (Goering).

ZANZIBAR: Radio Tanzania Zanzibar

* 11734.2 prepared cd. w/ f/d ltr. in 1 mo. on my 5th try for \$1.00 v/s Nassor M. Suleiman. (Wilkins). 11734 f/d personal ltr. in 53 ds. for ms. Station requested recordings of local radio stations and of my favorite music. (D'Angelo-PA).

I guess that's it for another month. I'm presently getting a photo taken for the heading so you can look at my ugly mug...Sam.

Till next time...best of QSLing!



Contributors' Page

Kris Field
431 Babylon Road
Ambler, PA 19002-2302

LOGGINGS CONTRIBUTORS - JANUARY 1990 - DEADLINE 12th of MONTH

The following members submitted loggings this month:

Frank ADEN, Jr., Boise, Idaho	HQ180, Uniden CR2021, FRG7
Brian ALEXANDER, Mechanicsburg, PA	
Kirk ALLEN, Ponca City, OK	NRD 515
Norman BOBB, Minneapolis, MN	Grundig Satellit 500
Robert CARLSEN, Vincent, OH	
John CARSON, Norman, OK	Drake SPR4, National NC183D
Richard COOPER, Waterbury, CT	Sony 2010, Panasonic RF 2200
Kurt COX, Leaburg, OR	Allied SX 190
Richard D'ANGELO, Wyomissing, PA	
Peter DILLON, Greece	DX 400
Gary EMERSON, Golden, CO	R71A, Collins R-388
Karl FORTH, Chicago, IL	R70, HQ-160
Harold FRODGE, Midland, MI	R71A + Trap dipole
Harold FRODGE, Santos, Brasil	Sangean ATS 801 + 25' LW
Mike HARDESTER, Okinawa	R70, Sony 2010
Hans JOHNSON, Savannah, GA	R71A
Joe HOWELL, Escondido, CA	
Rufus JORDAN, Pittsburgh, PA	DX 302, Zenith Transoceanic
Jerry KLINCK, West Seneca, NY	Kenwood R 5000
Fred KOHLBRENNER, Philadelphia, PA	NRD 525
John LACKMAN, Lexington, VA	
Harold LEVISON, Philadelphia, PA	
David MORBY, Clifton Park, NY	R71A
John PIRNAT, Denver, CO	Sony 2010
John PRATH, Ft. Lauderdale, FL	NRD 525, R71A
Leonard R. PRICE, Annandale, VA	R2000, ATS 803, GE World Monitor
Ronald PURDUE, Byron, MN	FRG 8800, DX440, AD-370 ant.
Christos RIGAS, Chicago, IL	Kenwood R 2000, Sony 2010
David ROSINSKY, Francis Creek, WI	DX 440 + 50' LW
Andrew RUGG, Montreal, Quebec	R 390A, R71A
Bob RYDZEWSKI, Santa Cruz, CA	
Mitch SAMS, Wichita, KS	HQ 180, FRG-7
Roland SCHULZE, Stuttgart, W. Germany	Drake R7 & SPR4, Kenwood R 5000
Nick TERRENCE, Huntington, NY	R71A + trap dipole, Sony 2010
John TUCHSCHERER, Neenah, WI	R70, FRG 7700
Steven WALLEY, Moreno Valley, CA	Sony 2010, R-600

Wow !! I think this page should speak for itself. 35 contributors from 17 different states and 5 countries outside of the U.S.. Good work, everyone !! Thanks for all of the nice Christmas and holiday wishes. I hope all of you had a pleasant, peaceful holiday.

Until next month,

73, Kris

Don't forget the ANARC Net on Sunday mornings.

Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



Welcome to HAJWA's Journal's new look! There are a lot of great loggings this time so read on. There's got to be something here for everyone. Hope everyone had a blessed Christmas or Hanukkah and best wishes for 1990. Loggings may come via Kris Field or to me directly; check the masthead for new frequency ranges. When sending to me, deadline is second last Saturday of month. Kris's is the 12th. Please cut loggings into usable strips. The real skinny ones are hard to handle. Note that we now show logging dates as day, month, year due to popular demand. Big thank you to all contributors!

- 2310 AUSTRALIA, VL8A, 27/11, 1015 w/pop mx. (Emerson)
 2340 CHINA, Voice of the Strait, 19/11, 1320 in CH w/tlk & modern mx. (Emerson)
 2390 MEXICO, R. Huayacocotla, 22/11, 1200-1220 w/UNAM nx relay, ID, TCs, never hrd so loud or consistently. (Sheedy-CA)
 2420 BRAZIL, R. Sao Carlos, 28/11, 0010 w/tlk & vcls, poor w/QRN. (Paszkiewicz-WI)
 3205 BRAZIL, R. Ribeirao Preto, 28/11, 0006 w/jingles, anmts, ID, TC but poor. (Paszkiewicz-WI)
 3210 MOZAMBIQUE, Emis. Nac., Maputo, 18/11, 0305 w/tlk by M, percussion mx, off suddenly 0311. (Howell-CA)
 3215 SOUTH AFRICA, SABC, 27/11, 0316-0331 w/lite mx & ads in EG & Afrikaans. (Tuchscherer-WI)
 3220 ECUADOR, HCJB, 30/11, 0931-1000 in Quechua w/rel. mx, tlk & ID, poor. (Bobb-MN)
 3222.1t TOGO, R. Kara, 12/12, 2256-2305* in vern. w/EZL, tlk on the hour, orch. anthem 2303, poor. (Atkins-AL)
 3223 LESSER SUNDAS, RRI Mataram, 8/12, 1144-1158 w/desert rhythms 1158 ID, SCI, poor. (Atkins-AL)
 3235 INDIA, AIR Gauhati, 6/12, 1258 IS, 1230 ID by W, tlks in pres. Hindi, quick fade. (Atkins-AL)
 3240 SWAZILAND, TWR, 24/11, *0300 in Shona w/handbell IS, EG IDs, also noted on 3200. (Howell-CA)
 3255p INDIA, AIR Shillong, 11/12, 1226 w/IS but faded by 1230. Poor sig. (Atkins-AL)
 3255 LESOTHO, BBC Relay, 23/11, 0300 in EG w/nx. (Emerson) 18/11, 0300 w/EG nx, good sig. (Howell-CA)
 3275y VENEZUELA, R. Mara, 27/11, 0315 w/mx, very good for 1 kW. (Emerson) 11/11, 0938 w/LA mx, anmts, ID 0940. (Alexander) 11/11, 2333 w/lots of mx, IDs, ad strings on hour. (Johnson)
 3280 CHINA, Vo Fujiang, Shanghai, 3/12, 1200 in CH w/nx //weaker 3990, fair. (Rigas-IL)
 3280 ECUADOR, LV del Napo, 5/11, *1005-1020 w/HC mx, tlk by M, ID, lite instls, poor. Actually on 3279.8. (Alexander-PA)
 3289.9t PERU, R. Tayabamba, 12/11, 0950-1006 w/Andean vcls & slogans. Too weak to ID. (Paszkiewicz-WI)
 3300 GUATEMALA, TGNA, 14/12, 0120 in EG w/rel, ID. (Morby) 25/11, 0320-0332 in EG w/ID 0330, rel. SIO=443. (Carlsen) 28/11, 1018-1100 w/tlk, mx, IDs, fair. (Bobb-MN)
 3315 INDIA, AIR Bhopal, 27/11, 1415 w/mx & tlk. (Emerson)
 3335 BRAZIL, R. Alvorada, 1/12, 0025 w/mx seeming abt 30 yrs old. ID 0030, anmts to more mx. (Johnson-GA) 22/11, 2350-0005 w/echo anmts, rancho mx, full ID 0000. Also hrd ZYs on 3205 & 3235. (Sams-KS) ZY means Brazilian--sp.
 3339.7t PERU, R. Altura, 14/11, 1004-1018 w/tlk & Andean mx. Noisy w/QSB. (Bobb-MN) 27/11, 1040 on 3339.5, good. (Emerson)
 3345 INDONESIA, unid, 25/11, 1245-1305 w/Italian vcls, RRI ID but didn't catch site, nx in IN. SIO=353. (Hardester-CKINAWA)
 3360.2t GUATEMALA, LV de Nahuala, 13/11, 1136 w/mx, TC. (Bobb-MN)

- 3365 BRAZIL, R. Cultura, 22/11, 0059 w/quick ID, anmts to 0105 mx. (Johnson-GA)
- 3370 GUATEMALA, R. Tezulutlan, 15/11, 1124-1135 w/tlk in SP & lang, marimba, piano mx, poss. ID. //4835. (Bobb-MN)
- 3377.5t JAPAN, NHK Mihara, 10/12, 1243-1300* in JP w/tlk, short mx
- 3480t BRIDGE 1259, single tone & off, fair. (Atkins-AL)
NORTH KOREA, Voice of Salvation, 25/11, 1130, //4119, 4453.3, 4557 in KK w/tlks, no mx, no ID. Will keep trying for ID. All freq. jammed, 3480 being best. Sig levels vary poor to fair. (Hardester-OKINAWA) Tnx for the info, Mike.
- 3550.2 CLANDESTINE, R. Venceremos, 8/11, 0000, instl Yellow Submarine, IDs //w/6 MHz outlet. (Johnson-GA)
- 3904t SUMATRA, RRI Banda Aceh, 25/11, 1458-1520 w/IN mx, male vcls, nx by W. (Cox-OR)
- 3925 JAPAN, NSB, 13/12, 0905 in JP w/EG for Millions pgm, song by Doobie Bros, "Variety Corner." (Park-HI) 23/11, 1100 in JP w/ID for R. Tanpa 1100, good. (Emerson)
- 3926.7 SOUTH AFRICA, Capital Radio, 11/11, 1732-1745 w/Afr. folk mx, very weak & faded. (Schulze-FRG)
- 3945.8 SUMATRA, RRI Tanjungkarang, 17/11, 1705-1725 w/IN ID, pop mx by W. (Schulze-FRG)
- 3965 USSR, R. Afghanistan Relay, 3/12, 1233, fair w/nx, //4740. (Rigas-IL) 22/11, 1305 //4740 w/nx & ID. (Sams-KS)
- 3999 GREENLAND, Gronlands Radio, 25/11, *0955-1000 w/6 note IS, tlk by M, clobbered by hams. (Kohlbrenner-PA) Good one; this may be the last logging of this since they are to go off air end of year.--sp.
- 4055 USSR, Mayak, 3/12, 1255 in RS very weak w/instls, Mayak IS 1259. (Rigas-IL)
- 4238 PERU, R. Inca, 9/11, 1015-1042 w/rural mx, sev. TCs, tlk, ID after ad 1031, ad for Cajamarca business. (Allen-OK)
- 4418.3 PERU, R. Frecuencia Lider, 18/11, 0235 w/tlk & mx, ID & FC on hour plus echo ID. (Johnson-GA)
- 4461.8 PERU, R. Norandina, 18/11, 0400 w/vcls & lots of good mx. 0429 closing anmts, ID, NA. (Johnson-GA)
- 4607 UNID, 22/11, 0007 weak w/Latin bouncy mx, excited SP anncr, brief anmts. Maybe Ayaviri? (Sams-KS)
- 4649 BOLIVIA, R. Santa Ana, 22/11, 0009-0015 fair w/good audio. ment. place names in SAM, ID 0011. (Sams-KS)
- 4680 ECUADOR, R. Nacional Espejo, 18/11, 0120 w/variety of mx, full ID, long tlk. (Prath-FL)
- 4740 USSR, R. Afghanistan Relay, 24/11, 0137 in AR w/Qur'an, tlks. (Howell-CA)
- 4753 CELEBEES, RRI Ujung Pandang, 19/11, 1435 excellent w/mx. (Emerson) 18/11, 1543-1600 w/mx, excellent. (Cox-OK)
- 4755 BRAZIL, R. Educacao Rural, 1/12, 0002-0049 w/futebol, TC, sound effects, jingles, ID. (Paszkievicz-WI)
- 4755 HONDURAS, Sani Radio, 18/11, 0240 w/lite mx, IDs, tlk, good sig. (Howell-CA)
- 4760 INDIA, which station? 12/12, 1152-1235 fade w/subcont. vcls EG nx 1230 //4800 w/AIR ID but no site. Fair over Yunnan PBC. Could be Leh or Port Blair. (Atkins-AL)
- 4770 NIGERIA, R. Nigeria, Kaduna, 29/11, 0500 w/EG nx. (Klinck) 29/11, 0500-0510 w/"News Nationwide." (Morby)
- 4775 PERU, R. Tarma, 18/11, 0450 w/ment. station, TCs, mx. (Howell-CA)
- 4780 DJIBOUTI, RTVD, 5/12, *0300-0406 w/NA, tlk in Somali, AR mx, CW GRM. (Kohlbrenner-PA) 26/11, 0302-0343 in Somali w/Qur'an, tlk, vcls, ment. Djibouti, 0333 ID, nx, vcls. (Paszkievicz-WI)
- 4785 AZERBAIJAN SSR, R. Baku, 5/11, *0159-0205 in RS w/IS, YL anmts, chimes & anthem 0200, tlks. (Alexander-PA)
- 4790 PERU, R. Atlantida, 30/11, 1006-1030 w/Andean mx, shouting, tlk & ID. Poor & noisy. (Bobb-MN)
- 4795 UKRAINE, Kharkov, 18/11, 0520 in RS w/clx mx, Moscow 1st Pgm IS. Could also be Ulan Ude? (Howell-CA)
- 4795 USSR, 27/11, 0110-0130 w/RS tlk, poss. nx, pretty good sig. Hrd "Radiostansiya Rodina" ID 0200 28/11. (Forth-IL) 27/11, 0122 w/tlk & chime chords. PWR lists as buryat Radio. Poor-fair. (Bobb-MN) 29/11, 0124 w/nx & folk mx. (Fuchscherer)

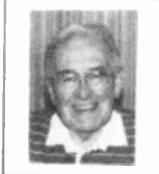
- 4795 USSR, R. St. Peace & Progress, 23/11, 2200-2300 in EG w/ ID, nx, cmtry, lite mx, closing anmts & IS 2259 //6145, 7360, into Rodina pgm. Mayak IS 0400. (Alexander-PA) 13/11, 2202 w/nx, tlks, ID 2225. (Tuchscherer-WI) 19/11, 2217 w/txk abt ecology. (Kohlbrenner-PA)
- 4799.8 ECUADOR, R. Popular Independiente, 18/11, 0521 w/festive mx, YL anncr, ID, fair. (Rydzewski-CA) 18/11, 0505 w/ Andean mx, IDs, ute QRM. (Howell-CA)
- 4800 INDIA, AIR Hyderabad, 18/11, 1420-1437 w/txk in pres. Hindi clear ID 1428 w/subcont. mx, mixing w/USSR 1450. (Sheedy-CA)
- 4805 BRAZIL, Rdf. do Amazonas, 18/11, 0045 w/long stretch of brasopops, no tlk. ID 0105, back to mx. (Prath-PL) 25/11, 0130-0204* w/pops/ballads, IDs, ads, jingles. (Alexander-PA)
- 4810.2 GALAPAGOS, LV de Galapagos, 27/11, 0133-0145 w/LA dance mx, trans. info, ID, NA, s/off, fair. (Rydzewski-CA)
- 4810 USSR, site? 26/11, 1035-1100 w/lite mx, RM IS 1059, weak & unable to ID lang. (Alexander-PA) 25/11, 1325-1335+ w/ EG Svc, some mx, ID, SIO=343. (Hardester-OKINAWA)
- 4815 BURKINA FASO, RTV Burkina, date? 2215 UTC in FR w/lcl mx, tlk, ID on half hour. (Klinck)
- 4820 HONDURAS, LV de Evangelica, 2/12, 0445 w/rel tlk, mx, ID on hour. (Klinck) 28/11, 1107-1130 in SP w/txk, Mx & ID, fair. (Bobb-MN)
- 4825 PERU, LV de la Selva, 10/11, *0958-1006 w/orch NA, "Buenos Dias, La Voz de la Selva," rooster crow, ID, tlks. SIO= 2+52+ (D'Angelo-PA) 13/11, 1009-1040 w/LA mx, flutes, ID 1029, fair. (Kohlbrenner-PA)
- 4830 BOTSWANA, R. Botswana, 7/11, *0357-0413 in lang w/barnyard IS, tlk, mx, poor. (Carlsen)
- 4830 VENEZUELA, R. Tachira, 30/11, 1034-1044 w/mx, tlk, rapping, TC, ID, fair to good. (Bobb-MN)
- 4835 GUATEMALA, R. Tezulutlan, 24/11, 2333 w/Andean mx & lots of marimbas, poss. rel pgm in lang, into SP 0100, promo w/ Jingle Bells. (Frodge-MI)
- 4835 MALI, Rdf. Malienne, 4/12, 0620 in FR w/txk, ID, chant mx, Afr. mx, SIO=322. (Carson-OK)
- 4835 MOLUCCAS, RRI Ambon, date? 1531-1555 w/nx plus lots of great Indo mx & some Indo rock & roll. (Cox-OR)
- 4835 SARAWAK, RTM Kuching, 19/11, 1430 w/EG ID. (Emerson)
- 4840 VENEZUELA, R. Valera, 3/12, 0120-0357* w/chatty M, IDs, lively mx, much better after 0300, echo IDs, NA. (Jordan-PA)
- 4844.3 GUATEMALA, R. K'ekchi, 25/11, 0140 w/"Musica Christiana" pgm, ID 0148, "La Voz de las Casas." (Kohlbrenner-PA)
- 4845 MALAYSIA, R. Malaysia, 19/11, 1425 w/mx. (Emerson) Any ID?-sp
- 4850 CAMEROON, CRTV, Yaounde, 29/11, 0431 w/FR/EG ID, FR tlk & lcl mx. (Klinck) 13/12, 0526-0545 w/hilife vcls, 0530 ID, poss. nx, sev. remote rpts, good. (Atkins-AL)
- 4850 UZBEK SSR, Tashkent, 5/11, *2359-0105 in RS w/IS, anmts, lite instls, tlks, ME type mx 0156 check. (Alexander-PA)
- 4851 HONDURAS, R. Luz y Vida, 18/11, 0140 in SP w/lite mx, ID by OM, promo w/"Whiter Shade of Pale." (Prath-PL)
- 4859.9p PERU, R. La Hora, 23/11, 0125-0207 fade w/mx, jingles, ID ment. 4855 & "Radio La. . ." Very weak. (Sheedy-CA)
- 4860p USSR, R. Moscow via Kalinin, 26/11, 2130-2230* in SP w/ ID, lite mx, RM IS, Mayak IS, into RS 2200, s/off w/test tones & Mayak IS. Site presumed. (Alexander-PA)
- 4865 COLOMBIA, LV del Cinaruco, 20/11, 0040 w/mx, ID 0100, very weak, used exalted carrier single sideband. (Terrence-NY) 26/11, 0859-0923 w/txk, LA mx, ID, fair. (Bobb-MN) 7/11, 2335 w/LA mx, ID, TPs, Caracol nx. (Prath-PL)
- 4865.4 MOZAMBIQUE, R. Mozambique, 9/11, 1702-1705 w/ID, lcl mx. (Schulze-FRG)
- 4870 BENIN, ORTB, 19/11, 2104 in FR w/lcl mx, FR tlk. (Klinck)
- 4870 ECUADOR, R. Rio Amazonas, 18/11, 0025 w/EZL, ID, ads. (Prath) 29/11, 1000-1010 w/NA, chants, flutes, barking, ID. (Bobb-MN)

- 4870 ECUADOR, R. Rio Amazonas, 20/11, 1002-1015 w/NA, flute prayer & barking dogs, ID, tlk, ment. Macuma, echo anmts. HC mx. (Alexander-PA) 10/11, *1017-1026 w/NA, instl bridge ID, anmts, singing. SIO=353. (D'Angelo-PA)
- 4874.6 IRIAN JAYA, RRI Sorong, 12/11, 1232-1300 w/nx, ID, tlk, vcls, lcl ID. (Paszkiewicz-WI)
- 4890 ECUADOR, R. Centinela del Sur, 18/11, 0010 w/SP version of song "Physical" LA mx, ID, promos. SIO=433. (Prath-PL) 18/11, 0230-0340+ w/brassy mx, excited anmts, mx intros, anncr sang w/records & shouted "Hoopa!" (Jordan-PA) 18/11, 0538 w/mx, anncr said "OK!" "Bueno!" "ARRIBARRIBA!" bueno. (Kydzewski-CA) I've gotta catch more of these Ecuadorians--sp.
- 4890 GABON, RFI Relay, 29/11, 0436 in FR w/tlk, ID. (Klinck)
- 4899.8 GUINEA, RTV Guineenne, 17/11, 2346-2355 in vern w/ID, Afr. folk mx, closing anmts, NA w/native instruments. (Schulze-FRG)
- 4904.5 CHAD, RN Tchadienne, 30/11, 0429 in FR w/s/on, ID, lcl mx. (Klinck) 25/11, 2155-2227 w/tlk, rhythmic mx, ment. N'djamena. P-F. (Bobb-MN)
- 4905 BRAZIL, R. Araguaia, 4/11, 0840-0910 w/Brasopops, ID, ads, Jingles. (Alexander-PA)
- 4910p HONDURAS, LV de la Mosquitia, 18/11, 0221 in Indian lang, w/primitive mx, rel mx, OM anncr. (Howell-GA)
- 4915 BRAZIL, Rdf. Macapa, 5/11, 0804-0830 w/anmts, IDs, Brasopops, good. (Alexander-PA)
- 4915 GHANA, GBC-1, 25/11, 0605 in EG w/nx, ment. Accra, poor w/fade out 0610. (Cox-OR) 19/11, 2145 in EG w/lcl mx, nx, ID 2200. (Klinck) Also try GBC-2 on 3366 late afternoons-sp
- 4930 HAITI, 4VEH, 24/11, 1118 in Creole w/rel mx & tlk. (Klinck)
- 4935 PERU, R. Tropical, 21/11, 0000 w/non-stop tlk, ID, no mx hrd in 20 min. of listening. (Prath-FL) 4/11, 0940-0950 w/NA, 0941 ID, echo anmts, Andean mx. (Alexander-PA) 29/11, 1018-1030 w/mx, tlk, w/singing NA, ID. (Bobb-MN)
- 4939.8y VENEZUELA, R. Continental, 18/11, 0211-0230 w/LA mx, ID, weak sig. (Schulze-FRG) 11/11, 0922-0945 w/mx, greetings, tlk, fair & fading. (Bobb-MN) 4/11, 1043 strong sig w/full ID, upbeat mx. (Forth-IL)
- 4945.3 COLOMBIA, Caracol Neiva, 7/12, 0438 w/jingles, tlk, sev. IDs within 5 minute period. Good. (Morby)
- 4950 SARAWAK, RTM Kuching, 19/11, 1400 w/EG nx. (Emerson)
- 4954 PERU, R. Cultural Amauta, 7/12, 1012 NA w/opening anmts, ID. Down from 4955.5 (Atkins-AL)
- 4957.7 AZERBAIJAN SSR, R. Baku, 23/11, 0354-0410 in RS w/HE type mx, YL anncr 0359, IS, tlk, more mx. Not //4785, weak. (Alexander-PA)
- 4960 ECUADOR, R. Federacion, 29/11, 0034-0100* w/LA vcls, long tlks by OM, some IDs, march mx at s/off. (D'Angelo-PA)
- 4975 TADZHIK SSR, Dushanbe, 5/11, 0110-0135 in RS w/lite instls, tlk by w//4635. (Alexander-PA)
- 4980 VENEZUELA, Ecos del Torbes, 26/11, 0315 w/mx & tlk pcm by M. (Cooper-CT) 30/11, 1051-1100 w/tlk, ads, TC, mx, IDs, fair to good. (Bobb-MN)
- 4985 BRAZIL, R. Brasil Central, 3/12, 0031-0035 w/mellow mx, ads, some echo anmts, ID, fair. (Kydzewski-CA)
- 4990 INDIA, AIR Madras, 13/11, 2358 w/IS, poss. ID as Akashvani Madras 0000. 0002 mx & pres. nx 0005. (Johnson-GA)
- 4990.8 PERU, R. Ancash, 23/11, 0109 w/Inca Kola & Cerveza Cristal ads, MW/SW ID, quite loud. Other OAs on 4606.7, 4039, 4238. (Sheedy-CA) 18/11 0501-0524* w/OA mx, tlk, ID & "Gracias Amigos" before NA. (Kohlbrener-PA) OA means Peruvian-sp.
- 4995t MONGOLIA, Ulan Bator home svc, 27-29/11, 1200-1445 fade w/Mongolian & instl jazz, Asian instls, 4+1 pips 1300, 1400. //4850, 4867, some CH type vcls. (Sheedy-CA)
- 4996 PERU, R. Andina, 22/11, 0245 w/tlk & mx, fair sig. (Emerson)

- 5004 RIO MUNI, RN, Bata, 19/11, 2118 in SP w/mfr. tribal mx, SP tlk & ID. (Klinck) 27/11, 2157-2202* w/mx, short tlk & NA, very good sig. (Tuchscherer-WI)
- 5020 SOLOMON ISLANDS, SIBC, 2/12, 0731-0744 in EG w/lcl nx incl. warning abt expired drivers' licenses, rev. film on FR nuke testing in Polynesia. Good. (Rydzewski-CA)
- 5025.3 BRAZIL, R. Jornal da Transamazonica, 6/12, 0852-0900 w/ ballad pgm, ID 0900, fair. (Atkins-AL)
- 5025 CUBA, R. Rebelde, 27/11, 2123 w/"I've Got You Under My Skin," ment. Havana and "your national station" (in SP) SIO-242. (Lackmann-VA)
- 5025 PERU, R. Quillabamba, 9/12, 1028-1032 w/s/on anmts, ID, NA, TC, slogan "La Voz Campesina." Good. (Atkins-AL) 10/11, *1035-1050 w/NA, ID, pgm review & comunicados. Rebelde off on Friday AMs? Nice to hear. (Sheedy-CA) Dan means nice to hear Peru, not necessarily that Rebelde was off.
- 5030t TONGA, A3Z, 14/11, 0822-0929 after MANY tries, still no ID! Mostly tlk in lang and some Polynesian mx 0848. Poss. national song 0857, brief anmt 0900 but totally uncopiable. Seems a bit undermodulated. (Allen-OK) unid on 20/11, 0610-0730 under OC of Impacto w/tlk, some mx, drums, not sure of lang. Hoping for Tonga. (Sams-KS)
- 5034.5 CENTRAL AFRICAN REPUBLIC, RTV Centafricaine, 1/12, 0313-0523+ surprised to hear so early w/tlk, pops, drums/vcl, ID 0322, fading by 0340. (Sheedy-CA) 7/12, 2219 in FR w/ lcl mx pgm. (Klinck)
- 5035 KAZAKH SSR, Alma Ata, 14/11, 1150-1200* in RS w/tlk to 1157, pres. ID, anmts, 1158 EZL until abrupt s/off. (D'Angelo-PA)
- 5040 CHINA, Fujian PBS, 1/11, 1020-1029* w/CH tlk, lcl mx, sudden s/off, very weak. (Alexander-PA) 19/11, 1346 w/CH mx & tlks, poor sig. (Emerson)
- 5040 ECUADOR, LV del Upano, 21/11, 0040-0103 w/EG lyric rock mx (unusual on a Catholic station), ID 0100 "Radiodifusora Catolica. . La Voz del Upano." (D'Angelo-PA) 25/11, 0128-0250 w/nx, full ID w/echos, speech w/crow & noises, big production ID 0200. (Jordan-PA) 30/11, 1104-1131 w/tlk, varied mx, rel svc. (Bobb-MN)
- 5046 JAVA, RRI Yogyakarta, 10/12, 1310 w/Jakarta nx relay, 1312 lcl ID, orch mx, fair. (Atkins-AL)
- 5049.8 ECUADOR, R. Jesus del Gran Poder, 23/11, 0040 w/soft mx, s/off anmt 0102, anthem to 0105, OC under ute QRM. (Forth)
- 5052 SINGAPORE, Radio One, 25/11, 1425 in EG w/lite mx, ID, poor sig w/lots of noise. (Walley-CA)
- 5055.2 COSTA RICA, Faro del Caribe, 29/11, 1034-1050 w/tlk, LA mx & ID. Poor to fair. (Bobb-MN)
- 5059v ECUADOR, RN Progreso, 10/11, 1002-1016 w/flutes, ad, "atencion atencion" roosters, TC, ID, mensajes, Banco Nacional ad. SIO-353. (D'Angelo-PA) 22/11, 1008-1017 w/no R. Lircay. Ads, anuncios, ment. Loja & Progreso. (Sheedy-CA) 10/11, 1020-1035 w/tlk, mx, roosters, ID. (Bobb-MN)
- 5075 COLOMBIA, Caracol Bogota, 25/11, 0040-0125 w/tlks, ment. Colombia sev. times, IDs, promos, jingles. (Jordan-PA)
- 5097.2t PERU, R. Eco, 4/11, 1005-1030 w/SP ballads, Andean mx, anmts, very weak w/CW QRM. (Alexander-PA)
- 5286.2 CHAD, R. Moundou, 13/12, *0456-0521 w/IS, NA, ID, hilife & folk mx, good. (Atkins-AL) 17/11, 1610-1620 w/folk mx, ID. (Schulze-FRG)
- 5618.2 PERU, R. Ilucan, 12/11, 2340 w/comunicados, ID 0010. S/off 0014, deep fades. (Johnson-GA)
- 5680 CUBA, R. Rebelde 8th harmonic of 710, 1/11, 0130 (Johnson-GA) 23/11, 0815 (Alexander-PA)
- 5799.9 PERU, R. Nuevo Cajamarca, 22/11, 0110 w/good mx to 0231 s/off ID just before s/off. (Johnson-GA)
- 5875 ENGLAND, BBC, 24/11, 0108 in SP w/nx (Tuchscherer-WI) 6/11, 0340 in SP w/EG pop mx //6110. (Rigas-IL)

International Band Loggings

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



- 6005 CANADA CFCX Montreal in EG 2153, e2l mx, lcl nx, ID (Rosinsky 11/28)
 6005 COSTA RICA R. Reloj in SP 1112, nx, ads, ID, QRM from CFCX (D'Angelo PA 11/15)
 6010v VENEZUELA R. Mil Cuarenta in SP 1023, LA mx, ID's (Alexander PA, Forth IL 11/4)
 6015 BOLIVIA R. El Mundo in SP 0125, soccer, ref to "Banco de Bolivia" (Howell CA)
 6015v TANZANIA(p) RTZ in SH 0333, tlks, Islamic recit, chimes IS, no ID (Allen OK)
 6060 AUSTRALIA RA in EG 1326, pop mx, //9580 (Frodge MI 11/2)
 6065 COLOMBIA R. Super in SP 1058, noticias, frequent IDs, ads, p (D'Angelo PA 11/15)
 6080 EAST GERMANY RBI in EG *0200, nat'l & world nx, QRM D.Welle (Cooper CT 11/25)
 6080 BRAZIL R. Anhanguera in PT 0035, dinner mx, ads, ID, g (Rydzewski CA 11/27)
 6090 LUXEMBOURG RL in EG 0000, nx, rock mx (Cooper CT) in GM 0819 (Klinck NY 11/20)
 6120 JAPAN RJ in EG 1151, live pgm from Tokyo, off 1200 (Cooper CT 11/25)
 6130 CANADA CHNX Halifax in EG 2336, wx rpt, Diana Ross song, ID (D'Angelo PA 11/7)
 6130 SOUTH AFRICA RSA in EG 2150, rhythmic mx, IS mixing w/R. Moscow (Bobb MN 11/23)
 6135 POLAND RP in EG 2330, classical mx, "Postbag", //7270 (Prath FL 11/24)
 6135 BRAZIL R. Aparecida in PT 0056, DJ pgm, ads, echo-type ID (Rydzewski CA 11/27)
 6150 COLOMBIA Caracol Neiva in SP 0349, vocals, promos, jamming (Frodge MI 11/19)
 6150 KENYA VOK in SH 2055, hi-life mx, ID, nx, chorus, off 2113 (Lackmann VA 11/12)
 6155 AUSTRIA RAI in EG 0543, mailbag, long fgy/skcd list (Carson OK 11/27)
 6160 COSTA RICA R. Impacto in SP 0014, Latin vocals, ID's, //5030 (D'Angelo PA 11/16)
 6180 BRAZIL R Nacional Amazonia in PT 0825, mx, tlk, ID's (Klinck NY 11/20)
 6180 GUATEMALA LV de Guatemala in SP 1101, nx, ID's, chimes, marimba (Allen OK 11/14)
 6210nf7 JAPAN RJ in EG 0309, tlks re trade in Japan & events in DDR (Frodge MI 11/21)
 6250 EQUATORIAL GUINEA R. Nacional Malabo in SP 2155*, Afro mx, ID (Bobb MN 11/12)
 6280 LEBANON V. of Hope in RS 1845, gospel mx, Calif. address (Dillon GREECE 11/12)
 6570 BURMA Army Station Maymyo in BM 1125, hill-billy mx, tlks, p (Lackmann VA 12/2)
 6576 NO. KOREA R. Pyongyang in GM 1905, monolog, martial mx, ID (Dillon GREECE 11/9)
 6933 CHINA R. Beijing in CZ? 1910, instrum mx, ID (Dillon GREECE 11/12)
 7125 VATICAN STATE VR in CH 2230, IS bells, s/on in CH, into tlks (Prath FL 11/11)
 7150 USSR R. Havana relay in lang? 1910, tlks, brief mx, RM IS/ID (Bobb MN 11/28)
 7160 INDIA AIR in HD *1330, IS, ID, nx, mach Ham QRM (Rigas IL 12/3)
 7205 AUSTRALIA RA in EG 1312, YL w/e2l mx, //7215, 9580 (Frodge MI 11/4)
 7210 JAPAN RJ in RS *1029, IS, ID in JP/EG, theme mx, nx? (D'Angelo PA 11/10)
 7214 IVORY COAST RTVI in FR 2205, nx, ID, Afro mx, Ham QRM (Lackmann VA 11/18)
 7225 RWANDA D. Welle relay in EG 0424, cmntry, nx, site ID (Kohlbrener PA 11/28)
 7255 NIGERIA VON in EG 0515, local mx (Klinck NY) in EG 0528, native drums & trumpet, nx (Carson OK) in EG 0530-0559, drums, NA, ID, TC, nx, into FR 0559 (Jordan PA)
 7275 ITALY RTVI in EG 0427, nx, ID, address (Morby 12/7)
 7290nf7 IRAQ R. Baghdad in EG 2106-2242*, AR mx, cmntry, nx, NA (Kohlbrener PA 12/3, Prath FL 12/2, Terrence NY 11/25)
 7345 CZECHOSLOVAKIA R. Prague in EG 0304, nx, cmntry (Levison PA, Carson OK 12/4)
 7355 ALASKA KNLS in EG 1530, free Bible offer, ID, addr, big band mx (Tuchscherer WI) in JP 1314, tlks, Dean Martin rx, DJ w/ EG-JP intros (Jordan PA)
 7365 ALASKA KNLS in EG *0800, "Chariots of Fire" IS, ID's, skcd (Alexander PA 11/11)
 7375usb COSTA RICA R. for Peace Intl in EG 0240, UN radio pgm, promo, ID, "Neumeyer Report (Carson OK 11/30) in EG 0135, "Letters from Listeners" (Bobb MN 11/26)
 7400 USSR R. Kiev in EG 0300, nx, drugs in USSR, UK mx (Carson OK, Klinck NY 12/1)
 7400 USSR R. Yerevan in Armenian 0329, IS, ID, nx, interview, mx (Carson OK 11/20)
 7400 USSR R. Vilnius in EG 2258, IS, nx of Lithuania, cmntry (Carson OK 11/18)
 7410 ISRAEL Kol Israel in HB 0425, ad spots, nx (Cox OR 12/4) in HB 0500, IS, ID, nx, mention of Bush-Gorbachev summit (Carson OK 12/4)
 7600 ECUADOR HD2IOA Guayaquil Time Station 0436, T in SP each min (D'Angelo PA)
 9180usb USSR R. Moscow feeder in RS 2125, RS pop songs, Mayak IS (Rigas IL 12/2)
 9445 TURKEY VOT in EG 2310, TK press review, "Letter Box", mx (Carson OK 11/8)
 9485 MONACO TWR Monte Carlo in EG 0823, "Insight for Living", ID (Carson OK 11/29)
 9505 JAPAN RJ in EG 1440, pgm re unions in Japan & developing countries (Walley CA)
 9505 CZECHOSLOVAKIA R. Prague in FR/CZ 0605-0730, tlks, heroic chorus, folk mx, IS, ID in EG, nx, interviews, into lang 0700, //7345, p (Jordan PA 11/10)
 9520nf7 SNAZILAND TWR Manzini s/on 1659 w/IS & ID, in FR 1930-1959 (Schulze FRG 11/12)

9530 NO. MARIANAS KHBI Saipan in EG 1154, ID, addrs, skeds (Jordan PA 11/11)
 9535 NETHERLANDS ANTILLES TWR in EG 0455, "Caribbean Night Call" (Carson OK 11/4)
 9540 USSR R. Tashkent in EG 1205, nx re E. Germany, ID, mx (Prath FL 11/18)
 9540 PHILIPPINE IS. R. Veritas Asia in Mandarin(p) 1515, tlks, orch mx, ID? 1530
 (Jordan PA 11/25) in Mandarin(p) 1459, EG ID, IS, relig pgm (Rugg QUEBEC 11/26)
 9540 VENEZUELA RN de Venezuela in SP *0000, IS, ID, fgys, nx, Andean & brassy mx sels
 voice-overs, QRM from R. Prague at 0100 (Jordan PA 11/19)
 9560 JORDAN R. Jordan in EG 2035, rock mx (Rosinsky 10/31)
 9565 INDIA AIR in EG 1350, extensive pgm on Indian elections, ID (Howell CA 11/24)
 9570 ROMANIA R. Bucharest in EG 0200, nx, cntry re RM production (Purdue MN 11/8)
 9575 MOROCCO R. Medi Un in FR/AR 0747, EG/FR pop mx, AR tlk (Kohlbrener PA 11/19)
 9580 SOUTH AFRICA RSA in EG 0200, nx re Namibia elections (Price VA 11/14)
 9580 AUSTRALIA RA in EG 1205, tlk re life for women in Fiji Is. (Cooper CT 11/25)
 in EG 1337, rock & roll and pop mx, international report (Carson OK 11/30)
 9585 HUNGARY R. Budapest in EG 2115, tlks re "traditional healers" (Prath FL 11/24)
 9600 USSR R. Tashkent in EG 1200, world nx, ID (D'Angelo PA 11/27, Prath FL 12/2)
 9615 SOUTH AFRICA RSA in EG *0157, nx, "Our Wild Heritage" (Cox OR 11/20) in EG 0213
 w/"Mailbag" (Carson OK 11/19) in EG 0216 on S. Afr troop moves (Cooper CT 11/25)
 9615 PHILIPPINE IS. R. Veritas in Mandarin(p) 1526, relig pgm, IS, ID (Rugg QUE 11/26)
 9620 PHILIPPINE IS. VOA relay in IN 2218, press review, pop mx (Lackmann VA 11/29)
 9620 YUGOSLAVIA RY in EG *2200, IS, nx, political cmntry, //9660 (Prath FL 11/4)
 9625 CANADA CBC No. Quebec Svce in FR 1205, nx, interview, tlks, mx (Jordan PA 11/14)
 in EG 0600 w/CBC nx, co-channel QRM from D. Welle (Carson OK 12/4)
 9630 SPAIN RNE in EG 0020, "a look at headline nx in SP newspapers" (Cooper CT 11/25)
 in EG 0001 w/nx, press review, "Radio Club" (Carson OK 12/2)
 9630 SEYCHELLES IS. BBC relay in EG 1910, tlk on Ethiopian med res (Rosinsky 12/5)
 9635 AFGHANISTAN R. Afghanistan(p) in Baluchi(p) 1315, flute IS 1330 (Rigas IL 11/19)
 9637 MOZAMBIQUE EPS Beira(p) 1455 w/Afr guitar mx, pips 1500, ID, nx (Sams 11/22)
 9645nE? FINLAND RF in EG 0005, cmntry & feature on FN 50 yrs ago (Walley CA 11/25)
 9645 GABON R. Japan relay in EG 0302, world nx, ID (Tuchacherer WI 11/30)
 9645 VATICAN STATE VR in FR/EG 2044-2109*, IS, ID, nx, mx (Bobb MN 11/24)
 9655 AUSTRALIA RA in EG 0700, world & local nx, mx (Carson OK 12/3)
 9655 THAILAND RT in Thai 1030, Asian pops at end of Mandarin tlks, IS (Lackmann VA)
 in Thai 1040, W w/local mx, ID in EG & fgys at 1055, into VT (Klinck 12/9)
 9660 VENEZUELA R. Rumbos in SP 0010, LA pop mx, ID, TC, //4970 (Prath FL 11/28)
 9660 YUGOSLAVIA RY in EG 2230, musical program at good level (Purdue MN 11/10)
 9690 SPAIN R. Beijing relay in EG 0301, nx, features (Price VA, Levison PA 11/22)
 9695 SWEDEN RS in EG 0245, tlks re preservation of world rain forests (Prath 11/24)
 9700 BULGARIA R. Sofia in EG 1950, tlks re changes in E. Europe (Prath FL 11/24)
 9705 PORTUGAL RP in EG 0245, Portuguese pop music (Rosinsky 11/29)
 9725 SWITZERLAND SRI in EG 0220, prt on Swiss business, //9885 (Prath FL 11/24)
 9725nf COSTA RICA AMR in EG 1308, relig drama, ad for child mag, ID (Kohlbrener PA)
 9735 PARAGUAY R. Nacional in SP 0903, mx, ID's, reception good level (Carlsen 11/18)
 9755 CANADA RCI in PT/EG 2358, end of PT pgm, into EG nx, feature (Carson OK 12/2)
 9760 ALBANIA R. Tirana in EG 2334, tlk re Gorbachev visit to Vatican (Carson 12/2)
 in EG 0329-0357*, "International" 0355, chorus, nx, cmntry (Jordan PA 11/12)
 9815 ALASKA KNLS in EG 1600, "American Magazine" re Daniel Boone (Walley CA)
 9835 HUNGARY R. Budapest in EG 0218, cmntry re democracy in Hungary (Purdue MN 11/15)
 9850 EGYPT R. Cairo(HS) in AR 1825, Qur'an recitation, ID, chimes, nx (Dillon GREECE)
 9850 NEW ZEALAND RNZ in EG 1100, nx, program resume, off at 1109 (Pirnati 11/20)
 9870 AUSTRIA RAI in GM 0230, ID, IS, music of Vienna (Carson OK 11/12)
 9885 SWITZERLAND SRI in EG 0205, nx, "Dateline", SW Merry-go-Round" (Carson 11/12)
 9925 BEIGLIUM BRT in EG 0028, comic opera, Flemish folk mx (Carson OK 11/13)
 9930 ISRAEL Kol Israel in EG 0015, arrival of Soviet Jews in Israel (Prath FL 11/9)
 9950nf DOMINICAN REPUBLIC R. Clarin in SP 0130, anti-Castro pgm, speech, ID, sports,
 (Rydzewski CA 12/3) in SP 2145-2332, baseball game, ads, ID (Lackmann VA 11/12)
 9950 SYRIA R. Damascus in EG 2030, mx, "From the Press", nx re M East (Rosinsky 12/6)
 in FR/EG 2005, ID in FR, pop mx, ID & nx in EG 2010, //12085 (Tuchacherer WI)
 9950 INDIA AIR in EG 1530, elections nx, violence at polls (Walley CA 11/25)
 9977 NO. KOREA R. Pyongyang in EG 1140, cmntry and nx viewpoints (Terrence NY 11/14)
 11000 CHINA CPBS Taiwan 2(p) in CH 1105, tlk by YL, no ID heard (Prath FL 11/18)
 11040 CHINA CPBS Taiwan 1 in CH 1120, class mx, abrupt off 1130, //11505 (Prath)
 11330 CHINA CPBS 1 in CH 1150, tlk by OM/YL, pips on hr, ID, //5880 (Prath FL 11/24)
 11550 TUNISIA RTV Tunisienne in AR 1520, drama, AR mx, ID, //17610 (Dillon GREECE)
 11605 ISRAEL Kol Israel in EG 0220, "Spotlight" pgm, off at 0225 (Cooper CT 11/26)
 11645 GREECE VOG in EG 2340-2349*, nx re Greece, ID in GK 2349, //9395 (Prath 11/24)

- 11650 GUAM KTWR in EG 1515-1600, hymns, Bible readings, ID, address, "Bible Center" (Tuchscherer WI 11/22, Morby 11/29, Rosinsky 11/29)
- 11710 ARGENTINA RAE in EG 0138-0200*, LA mx, nx spots (Rosinsky 12/5) chain of multi-lingual ID's followed by OM/YL alternating nx items in PT 0001 (Rugg QUE 11/24)
- 11715 MALI R. Beijing relay in EG 2100, nx, wx, "Calendar Fair" (Rosinsky 12/7) in EG 0300, international nx re S. African apartheid movement (Purdue MN 11/8)
- 11715 HONGKONG BBC relay in EG 2015, "The World Today" feature (Walley CA 11/23)
- 11720 NETHERLANDS ANTILLES R. Nederlands relay in EG 0350, "Media Network" (Carson OK)
- 11730 CANADA RCI in EG *2300, nx, "SWL Digest", ratings of SW radios (Cooper CT 12/3)
- 11735 BULGARIA R. Sofia in EG 0454, pop mx, fqys info, IS (Rydzewski CA 11/19)
- 11735 NO. KOREA R. Pyongyang in EG 1145-1150*, mailbag pgm (Cooper CT 11/25)
- 11735 YUGOSLAVIA RY in EG 0100, nx, polit tlk, "Magazine Show", ID (Terrence NY 11/16)
- 11750 ASCENSION IS. BBC relay in EG 0245, drama pgm, into nx 0300 (Carson OK 12/1)
- 11750 SINGAPORE BBC relay in HD 1721, nx, ID, "London calling Asia" (Tuchscherer WI)
- 11755 FINLAND RF in EG 0001, cmntry on Govt. control of high prices (Purdue MN 11/20)
- 11780 BRAZIL RN da Amazonia in PT *0800, ID's, nx, mx (Cox OR 11/11, Frodge MI 11/9)
- 11785 EAST GERMANY RBI in EG 0245, int'l & local nx (Purdue MN 11/8) in EG 0502, mail-gag show, "At Home in the GDR", //15125 (Carson OK 11/27)
- 11800 ITALY RAI in IT *0100, local nx, mx pgm, //9575 (Cooper CT 11/25)
- 11805 GUAM KTWR Agana in EG 0928, IS, ID, pgm preview, Bible pgm (Alexander PA 11/11)
- 11825 ALBANIA R. Tirana in EG 2335, tlk re Albanian socialist economy (Carson 11/26)
- 11830 ROMANIA R. Bucharest in EG *0200, nx, cmntry re RM industry, //9570 (Prath FL)
- 11840 CUBA R. Moscow relay in EG 1610, nx, "Focus" (Rosinsky 12/1)
- 11865 WEST GERMANY Deut. Welle in EG 0128, "Economic Notebook" (Carson OK 12/1)
- 11880 SPAIN RNE in EG 0149, "Spanish by Radio", off at 0157 (Carson OK 12/1)
- 11890 EAST GERMANY RBI in EG 0200, nx, cmntry, interview, "Panorama" (Price VA 11/11)
- 11915 BRAZIL R. Gaucha in PT 1916, ads, nx, BBC remote, ID (Frodge MI 11/9)
- 11935 SOUTH AFRICA RSA in EG 0240, "DX Corner", song, nx brief (Park HI 10/23)
- 11940 CANADA RCI in EG 0110, "SWLD" on world's oldest active radio stn (Park HI 11/5)
- 11965 BRAZIL R. Record in PT 1903, futbol promo, political ads, drama (Frodge MI 11/9)
- 11990 KUWAIT RK in AR 1920, tlks by 2 CM, AR mx, ID, //15495, 15505 (Prath FL 11/11)
- 12005 TUNISIA RTV/Tunisienne in AR 2007, chants, ME mx, ID, //7475 (Tuchscherer WI)
- 12015nf? FRANCE RFI(t) in FR/EG 1630, nx tlks, very weak signal (Jordan PA 11/14)
- 12085 SYRIA R. Damascus in EG 2024, Mideast nx, then into AR mx (Purdue MN 11/12)
- 12105 GREECE VOG in GK 1825-1850*, GK mx, ID, vocals, tlks, //11645 (Jordan PA 11/26)
- 13584nf? AZORES R Clube do Angra(t) in PT 2011-2103, several possible ID's but hummy audio prevented copy, EZL & pop mx, Catholic relig pgm 2051-2103 (Allen OK 12/4)
ED: No SW outlets for Azores listed in WRTH. Has anyone else hrd this new one?
- 13605 UNITED ARAB EMIRATES Abu Dhabi in EG 2335, "The Holy Prophet" (Carson OK 11/16)
- 13635 SWITZERLAND SRI in FR/GM 1425, ID, Swiss mx, into GM 1430, nx (Carson 11/16)
- 13650 NO. KOREA R. Pyongyang in EG 2315, tlks re US occupation of S. Korea (Prath FL)
- 13670nf CANADA RCI in EG 1850, "Listener's Corner", s/off 1859 in FR, IS (Park HI 11/5)
In EG 1839-1859 w/"Spotlight on Science" (Tuchscherer WI 11/18)
- 13675nf BELGIUM BRT in EG *1830, pgm reviews, Belgium nx, press review (Hanlon PA 11/27)
- 13685 SWITZERLAND SRI in EG 1545, "Dateline", mandolin selections, fqys (Park HI 12/4)
- 13690 EAST GERMANY RBI in EG/GM 2330, IS, ID, nx, //9730 (Prath FL) in EG 0233 w/Eva Martin on films (Carson OK) in FR 0315 w/polit tlks, ID, skeds (Jordan PA 12/4)
- 13715 CZECHOSLOVAKIA R. Prague in EG 1530, nx, ID (Walley CA) in EG 0100 w/nx, rpt on Gorbachev's visit to Italy, //5930, 7345 (Prath FL)
- 13730 AUSTRIA RAI in EG 0140, tlk re the new Vienna "World Trade Center" (Prath FL)
- 13780 WEST GERMANY Deut Welle in GM 0654, "Musik Aktuell", rock mx, //9690 (Park HI)
In EG 2138 w/"Life in Germany" (Carson OK 11/15)
- 13855 ICELAND ISBS in IC 1420, tlks by YL/OM, nx?, several ID's (Prath FL 11/25)
- 15050 INDIA AIR in EG 1003, nx, cmntry on India's role in FRG trade fair (Park HI)
- 15095 SYRIA R. Damascus in EG 2140-2212*, nx, local & disco mx, fqys, ID (Cox OR 11/9)
In EG 2149 w/AR mx, nx, ID (Rosinsky 12/1) in AR 2235, nx, AR mx, ID (Prath FL)
- 15115 NO. KOREA R. Pyongyang in EG 0000-0048*, nx, features, mx, propaganda, service to SE Asia, NA, //15160 (Frodge MI 11/25, Carson OK 11/27, Prath FL 11/30)
- 15120 VATICAN STATE VR in EG 1549, Afr church nx, hymn, ID, //17730 (Park HI 11/3)
- 15120nf SOUTH AFRICA RSA in EG 0205, nx, "Footprints in Africa", "Touring RSA" (Park HI)
- 15120 SRI LANKA SLEB in EG 1045, local nx, ID on the hr (Klinck 11/24)
- 15125 EAST GERMANY RBI in SP 0000, IS, ID, nx (Prath FL) in EG 0304, nx, cmntry on youth in DDR (Frodge MI) in EG 0443, nx, cmntry re pol changes in DDR (Carson OK)
- 15140 CHILE RN in SP 1034, tlk (Carlsen 11/15) in SP 2150, futbol game (Morby 11/11)
- 15160 ALGERIA R. Algiers in FR 1805, nx, cmntry, ID, TC, world sports (Dillon GREECE)
- 15160 NO. KOREA R. Pyongyang in EG 0404, cmntry re occupation of S.Korea (Frodge MI)

15160 AUSTRALIA RA in EG 0730, "Communicator", last pgm for M. Bird (Park HI 11/19)
15165 CHINA R. Beijing in EG 1545, "In the Third World", overmodulated (Park 11/3)
15165 YUGOSLAVIA RY in EG 1320, tlk re early radio stns in YU in 20's (Prath FL 11/18)
15170 PORTUGAL R. Liberty in RS 0816, tlk re NYC mayoral election, ID, //15290 (Park)
15180 USSR R. Vilnius Lithuania in EG 2300, mailbag, nx re Lithuania (Carson OK 11/16)
15190 USSR Lao National relay in FR 1100, trumpet at 1113 and ID (Lackmann VA 11/25)
15190 PAKISTAN RP in Bangla? 0124, ME mx, mention of Pakistan (Rydzewski CA 11/13)
15195 BANGLADESH RB in EG 0819, local mx & topics (Klinck NY 11/12) in EG 1230 w/world
nx (Cooper CT) in EG *0759-0830*, flute IS, chants, AR mx, ID (Alexander PA)
15240 EAST GERMANY RBI in EG 0333, nx, reggae mx, sports (Park HI 11/7)
15245 AUSTRALIA RA in EG 1730, "Communicator" interview (Park 11/5) in EG 1641 w/mx,
sports, nx, drowned out by VOA s/on at 1800 (Rosinsky 11/29)
15250 PORTUGAL RPI in EG 2003, nx for several minutes, then f/o (Terrence NY 11/21)
15250 ROMANIA R. Bucharest in EG 1506, nx, cmntry, ID (Walley CA 11/19)
15267nf TURKEY TRT (HS) in TK 0815, vocals & instrumentals, chants, time pipe, nx bloc,
ID's, QTH references (Jordan PA 12/3) CREDIT: G.Hauser on SWLD 12/2
15280 HONGKONG BBC relay in EG 0749, regular BBC programming (Klinck NY 11/15)
15315 CANADA RCI in EG 1550, nx, wx, cmntry re DOR/FRG reunification (Carson OK 11/16)
15325 PHILIPPINE IS VOA relay in RS 1040, Top 40 mx pgm, //11930, 15140, 17865 (Park)
15325 YUGOSLAVIA RY in EG 1305, nx, rpt re Israeli-Yugo relations (Prath FL 11/23)
15325 FRENCH GUIANA R. Japan relay in EG 0313, "Japan Music Scene" (Prodge MI 11/3)
15335 ROMANIA R. Bucharest in EG 0658, info re R. Buch Listener's Club (Carson 11/29)
15365 ROMANIA R. Bucharest in SP *1900, IS, ID "Para Espana Europa" (Prath FL 11/11)
15365 SOUTH AFRICA RSA in FR 0429, fqys, ID "a l'ecoutez de Soweto" (Park HI)
15375 SPAIN RNE in EG 1926-2000*, wx, "Panorama", nx (Rosinsky 12/6)
15385 NO. MARIANAS KHBI Saipan in EG 1407, "News Focus", ID's (Tuchscherer WI 11/22)
15390nf JAPAN RJ in JP 0820, Day 13 of Kyushu Grand Sumo Tournament (Park HI 11/17)
15400 FINLAND RP in EG *1400-1425*, nx, //21550 (Rosinsky 11/7)
15430 SWITZERLAND SRI in EG 1516, Swiss mx, "Dateline", to ME Africa (Carson OK 11/16)
15435 UNITED ARAB EMIRATES Dubai in EG 1622, mx, address for QSL's (Prodge MI 11/23)
15476 ANTARCTICA LRA36 R.National in SP 2302-2336*, LA & CW mx, ID's (Kohlbrener PA)
15480 PHILIPPINE IS FBEC in EG 2358, IS "Jesus Saves", ID's, UTE QRM (Lackmann VA)
15505 KUWAIT RK relay of R. Bahrain in AR 1325-1430, M&W hosting pgm of lively and
ponderous sels of AR choral vocals, ID's, radio dramas, nx (Jordan PA 12/3)
15560 MADAGASCAR R. Nederlands relay in EG 1845, "Newaline", "Airtime Africa" (Park)
15575 SOUTH KOREA RK in EG 1400, ID, nx, tourist pgm, mailbag (Carson OK 11/18)
15767 ICELAND ISDC in IC 2327, M&W talking, ID, s/off 2332 (Klinck NY 11/12)
17535nf GREECE VOG in GK/EG 1525, western style pop mx, nx in EG 1530 (Hanlon PA 11/23)
17550nf GREECE VOG in EG 1236, nx, cmntry, mx (Carlsen 11/11)
17620 FRANCE RPI in EG 1642, Afro mx, "Development Magazine", into FR 1658 (Park HI)
17665 USSR R. Kiev in EG 0035, nx, "Radio Friendship Bridge" (Park HI)
17690 USSR R. Vilnius Lithuania in EG 2258, IS, ID, cmntry (Carson OK 12/1)
17705 JAPAN RPI relay in FR 1053, piano etude, fqys, interlude, nx (Park HI 11/10)
17715 AUSTRALIA RA in EG 0730, "Communicator" preview of new pgms (Park HI 11/26)
17730 VATICAN STATE VR in AR 1700, IS, ID in Latin & AR, //11810, 15120 (Park HI)
17730 BRAZIL SRI relay in EG 0220, Swiss SW Merry-go-Round (Prath FL 11/19)
17745 SOUTH AFRICA RSA in FR 1924-1955*, rock mx, nx, mailbag (Tuchscherer WI 11/24)
17760 ANTIGUA BBC relay in EG 1959, nx w/site location at s/on (Tuchscherer WI)
17760 TURKEY VOT in TK 0030, tlks, mx, brief annmt, ID (Prath FL 11/7)
17765 JAPAN R. Japan in EG 0310, nx, TC, fqys, polit situation in China (Prath 11/11)
17780 NO. MARIANAS KHBI Saipan in EG *0400, "News Focus" (Hanlon PA) in EG 0556, with
"Herald of Christian Science" from Boston, fqys (Rydzewski CA) in EG 0657, nx,
cmntry, ID on hr (Klinck NY) in EG 0553, sked, flute IS, CSM nx (Alexander PA)
NOTE: The consensus seems to be that this is ex-KYOI station.
17780 ITALY RAI in IT 1657, twittering bird IS, ID, nx? (Park HI)
17795 AUSTRALIA RA in EG 0545, "At Your Request" (Carson OK 11/12)
17800 FINLAND RP in EG 0925, IS, 5 lang ID, press review, into FN 0955 (Park HI)
17800 SRI LANKA D. Welle relay in Pushto *0258-0350*, IS, site ID in EG, nx, mx sels,
(D'Angelo PA 11/16, Jordan PA 11/30, Howell CA 11/24, Pirnat 11/19)
17810 JAPAN R. Japan in EG 0311, nx, feature on Tokyo educ TV meeting (Pirnat 11/19)
17820 CANADA RCI in FR 1850, ID, sked, address, IS, into EG 1900 (Dillon GREECE)
17830 SWITZERLAND SRI in EG 1535, mailbag pgm, "Grapevine", mx, //21630 (Walley CA)
17850 SRI LANKA SLBC in EG 1115, oldies mx "Melodies & Memories" (Park HI)
21490 AUSTRIA RAI in EG 1440, tlk re amateur radio in Austria (Prath FL 11/5)
21505 CZECHOSLOVAKIA R. Prague in EG 1744, socialism in E. Europe, ID&IS (Terrence NY)
21505 SAUDI ARABIA BSKSA in AR 1205, tlk, mx, many mentions of Arabia Saudia (Klinck)

- 21535 SOUTH AFRICA RSA in EG/Chichewa 1557, IS, ID in EG, nx in Chichewa (Carson OK)
In EG 1955*, nx, cmtry (Rosinsky) in EG 1750, ads, relay Radio 5 (Terrence NY)
- 21566 COSTA RICA R. for Peace Intl in EG 2240, interview of union leader (Carson OK)
- 21595 SOUTH AFRICA RSA in EG 1539, ID, mx by Rosanne Botha (Carson OK 12/2)
- 21635 FRANCE RFI in EG 1245, rock and pop mx, headline nx (Cooper CT 11/25)
- 21650 MALTA D. Welle relay in CH 1257-1320*, site relay in CH/EG, nx (Jordan PA 11/29)
- 21650 SRI LANKA D. Welle relay in Pushto *0300-0350*, IS, site ID in EG, tlks, pop and rock mx, local sub-continental type mx, xmsn to Near & Mid-East (Jordan PA 12/1)
- 21650 VATICAN STATE VR in FR 1534, relig cmtry & mx, into EG 1545 (Hanlon PA 11/23)
In EG 1545, nx, ID (Walley CA 11/19)
- 21685 NETHERLANDS ANTILLES RN in EG 1830, nx, long rpt re Namibia, mail (Prath FL)
- 21705 NORWAY RNI in EG 1600, "Norway Today" folk mx, NO oil prod at peak (Walley CA)
In EG *1700-1730*, nx, "What Strikes Me" (Rosinsky 11/5)
- 21735 INDIA AIR in EG 1032, "Faithfully Yours", mailbag (Park HI)
- 25645 BELGIUM RTBF Radio 4 Intl in FR 1120-1300*, tlks, ID, skeds, anncmts, Afro-type vocals & instrumentals, nx, martial mx, interviews, pop mx, IS (Jordan PA 11/11)
- 25690 UNITED ARAB EMIRATES Abu Dhabi in AR 1220-1500*, lengthy vocal chants & recitns, AR instrumentals, dramatic tlks, nx topics 1330, abruptly off (Jordan PA 11/14)
- 25790 SOUTH AFRICA RSA in EG 1541, disc of aquaculture, nx (Carson OK) in EG 1538
w/"Africa South", nx, features (Prodge MI 12/23)
- 25948 COSTA RICA R for Peace Intl in EG 2000, G. Hauser's World of Radio (Terrence NY)
- *****

CLANDESTINES AND PIRATES

- 62144 CLANDESTINE R. 15 de Septiembre in SP 2325-0056, tlk by M, ID's, SP pop mx, mostly mx after 0000 (Alexander PA 11/11)
- 62495 PIRATE WRNR in EG 0104-0115, ID as "WRNR Rock-N-Roll", rock mx (Alexander 11/12)
- 6345v CLANDESTINE R. Venceremos in SP 0314, "Atencion, Atencion" to impassioned cmtry & mx (Prodge MI) on 63454 w/tlk, martial mx, ID 0504 (Allen OK 11/13)
- 67305v CLANDESTINE R. Farabundo Marti in SP 0020-0104, LA mx & martial mx, tlk by M/W, ID's, machine-gun fire, fgy changed every few minutes (Alexander PA 11/24) Heard also on 67206, 67105, 67005, 6690, 66842, and 67006 at tune out.
- 6833v CLANDESTINE R. Farabundo Marti in SP 0157-0334, various tlks re El Salvador, ID's, mx bridges of "Yellow Submarine", buzzing jammer on occasion (D'Angelo PA)
- 6850v CLANDESTINE R. Venceremos in SP 0128-0156, mx, ID's, nx, patriotic songs and anncmts (D'Angelo PA 11/19) on 6858 in SP 0254, move to 6867 at 0314 (Prodge MI)
- 6884v CLANDESTINE R. Farabundo Marti in SP 0336, impassioned cmtry & martial mx, hrd earlier on 6336 covered by a loud buzz, drama, LA pops (Prodge MI 11/16)
- 74071 PIRATE R. USA in EG 2122, mailbag, ID's, ad parodies, rock mx (Alexander 11/23)
- 7409 PIRATE R. Hope in EG 2340, ID, 100 watts power, rock mx (Alexander PA 11/11)
- 74101 PIRATE Secret Society R. in EG 2109-2124*, rock mx, QSL requests, address in Baltimore (Carlsen 11/25) in EG 2210*, continuous rock, ID (Alexander PA 11/25)
- 74163v PIRATE R. Voice of Trailer Park Ministries in EG 2220-2250, Black spirituals, relig sermon, ID's "America's first pirate radio religious broadcaster", fgy drifted slowly downward to 74158 at t/out (Alexander PA 11/12)
- 7416v PIRATE V. of Radio Free Indiana in EG 0005-0051*, rock mx from 70's, C&W mx, many ID's (Rigas IL 11/26, Allen OK 11/26, Carlsen 11/26) ED: One day show?
- 7445 PIRATE Jolly Roger International in EG 0512, ID's, rock mx (Forth IL 11/24)
0540 w/ad for Pirate Radio Directory, professional announcers (Sams 11/22) 0510-0555 w/very professional sounding operation running hard rock and using an echo chamber for anncmts, DJ "Blackbeard the Pirate" (Aden ID 11/24)
- 74851 PIRATE V. of Stench in EG 2216-2234*, all Beatles mx, ID (Alexander PA 11/5)
- 74903 PIRATE RFM in EG 0135-0148*, mix of instr mx & rock, ads, ID (Alexander 11/12)
- 8375 CLANDESTINE R. New Star in CH 0900, CH mx w/ID (taped), tlk by 2 YL's, then into numbers & messages (Howell CA 11/19)
- 9500 CLANDESTINE V. of the People Libya in AR 1945, AR mx, polemics (Jordan PA 11/26)
- 9965 CLANDESTINE R. Caiman in SP 0145, SP pop mx, ID, tlks re Castro's activities in Angola (Prath FL 11/24, Price VA 11/30)
- 11825 CLANDESTINE V. of the Libyan People in AR 0536, ME vocals, explosive tlks, winds & percussions, martial NA, ID in AR (Jordan PA 11/27)
- 15607 PIRATE Samrai Radio in EG 0002-0029*, rock, ID's, 50 watts (Allen OK 11/26)
- *****

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Happy New Year to all. Don't forget that the Winter SWL Festival will be held February 23-25 at the Kulpville/Lansdale (PA) Holiday Inn. The registration form was published on page 53 of the December bulletin, or may be downloaded from the Pinelands RBBS or ANARC BBS, or may be found in the SW echo of any BBS carrying the FidoNet SW echo around the world (I send a copy into the system automatically each Saturday).

Please note the deadline here -- in my mailbox -- which is the Friday before the last Saturday of the month. Thursday is preferable. Info via the fax machine or the Pinelands RBBS may be made up to 8 a.m. Saturday morning. Info via electronic mail may be dropped onto MCI Mail (also available through CompuServe and Internet) until early Friday evening (I usually check the e-mail after dinner). Although I still am on packet radio, I am not checking it for messages very often; don't use that for timely messages. (I cancelled Prodigy altogether.) I make any changes from observations Friday evening and Saturday morning prior to printing the column. The column is printed and hand-delivered to the publisher two hours before he goes to press. (A holiday at the end of the week may advance my deadline by a day or two.)

Schedules and information were received from John Carson (OK), Dale Park (HI), R.C. Watts (KY), Gordon Darling (Papua New Guinea) and Kris Field (Amler, PA). John sent no less than four envelopes packed with info this month. Apologies to Charles Wooten (VA) for not crediting him with the update to Iraq published last month. Thanks all.

The Sunday 1430-1500 UT time slot is crowded with 4 DX-oriented shows. The shift of R Australia's Communicator makes it necessary to run three receivers and two tape recorders Sunday morning at 1430. In addition to Communicator's new time slot, R Austria's SW Panorama and Radio Korea's SW Feedback air in this half hour. At least for us on the east coast, these releases afford the best signals and times to listen. R RSA's DX Corner also airs at 1440, but at least this show has many listenable repeats throughout the day.

Thanks to tips from Bob Brown using 2m FM, we heard the Sudan Broadcasting Service on 11625 at 1950 with news in English and

PC Software for PC/XT/AT/PS2 and compatibles: English Language SWBC Schedules, with a new feature of loading frequencies into the memories of the JRC NRD-525 and the Kenwood R-5000 from the computer. ASCII text file subscriptions for those without a PC compatible. Receiver computer control programs for the NRD-525 and R-5000. Utility Logbook for logging utility stations. For more information send a business-sized SASE to TRS Consultants (address above) or download information from the Pinelands RBBS.

Indonesia on 15154.6 at 2245-2300 UT (with "Song of the Coconut Islands" at 2259). Beijing's 20 & 21 UT new frequencies to Europe are quite good here. 9920 kHz is better than 6920 only because there is a Russian meteo station with fax co-channel to the latter. Romania -- making news headlines in late December -- changed most of its English to Europe frequencies; at 13 UT 15365 provides the best reception of the four outlets heard here. By Dec 24, the Front for National Salvation had control of the government radio. Regular programming was suspended and messages to the public were being repeated in Romanian, English, French and Spanish in half-hour blocks. Joe Hanlon and I did not hear "DX Asiawaves" at its scheduled time Su 2315 on 15125. I went back through the files and have redone KSDA listings to reflect its English-only language transmissions per its published schedule. I also opted to remove all listings of "DX Asiawaves" until a current schedule can be determined. Syria's frequencies have changed. I'm not sure of which frequency (all are audible here) is intended for each target area, but 9950 at 2005 is clearly the best one here. RAE Argentina's new high-powered transmitter must be working well. For the first time I can remember in a long time, I could hear the 21 UT release to Europe on 15345.

A fax was received on December 21 from Noel Brown of Auckland, NZ:

"Radio New Zealand International will go to air with its new 100 kw transmitter on January 24, 1990, at 0500 UTC. The Governor General of NZ, Sir Paul Reeves will open the new service, and this will be followed immediately by the official opening of the Commonwealth Games which will take place in Auckland over the following three weeks.

"Tests will be conducted from January 10. Frequencies to monitor for the opening are 17730 and 17705 kHz.

"The sked to 3 March 1990 is as already published, now using the higher power transmitter on the first frequency, the old 7.5 kw flea-kicker on the alternate: 1730-2005 15485, 17730; 2245-0045 15485, 17705; 0230-0630 15485, 17705; 0800-1105 9850, 11780; Sat/Sun 0045-0230 15485, 17705.

"The new service is a joint venture of Radio New Zealand and the Ministry of External Relations and Trade, which is a government department. It is intended that the service will encourage links between NZ and the islands of Micronesia, Melanesia and Polynesia, according to Ian Johnstone, the manager of the now-named Radio New Zealand International. The plan is that the station become a "Voice of the Islands" and a truly international broadcaster. It is hoped that, in time, services may be extended to include Asia as well.

From John Carson of Norman, OK, comes a different version of this information as provided by Rudi Hill. The new transmitter is located at Rangitaiki on the North Island 380 km north of Wellington. The start time is 0400 UTC January 24. The special schedule for the Commonwealth Games and Waitangi Day Celebration runs 24 Jan to 6 Feb: on the 24th, 04-10 17680, 25 Jan to 6 Feb 21-24 and 03-09 UT on 17680. Alternate frequencies 25485, 17730 and 9850 kHz. The modified schedule (100 kw first) effective 7 Feb to 3 Mar: to Polnesia & E Pac 1700-1900 UT 17730 and either 17680 or 15485, 0330-0600 UT 17705 and either 17680 or 15485; to Melanesia & W Pac 1905-2100 and 0630-0930 UT on 17730 and 9850; and Gen Svc 2100-2400 17705 and either 17680 or 15485.

Ian McFarland sent a fax on December 22 telling us of programming changes for RCI for a 10-week period between January 20 and March 24 to permit airing of a 10-part series on global environment, titled "It's A Matter of Survival", authored by noted Canadian scientist and environmentalist Dr. David Suzuki. It will also be broadcast in the other 12 languages aired by RCI. The series will be aired on 10 consecutive Saturdays, commencing January 20, on the following broadcasts: 22 to Asia, 03 to ME, 01 to US, 23 to the Caribbean, 2130 to Africa and W Eu at 2200. Saturday is Saturday in the target area, which means that several of these are Sun UTC. Some programming will shift temporarily, including the SW Listeners Digest. The SW Listeners Digest releases airing Saturdays to Africa, Middle East, LA and W Eu all move to Sunday. The last three will be included as part of the Listeners Corner.

Christos Rigas (Chicago) sends updates for R Prague, BBC, and R Vilnius. Vilnius is not announcing its correct frequencies. At 2230 it gives "9675" whereas it is probably 9765. At 23, those announced are 15180, 15455, 6100, 7400 and 9700, but Christos notes 17665, 15455, 15180, 9765 and 7400 and the DX Program on Saturdays at 2320. I only hear 9765 and 7400 here. Christos notes the BBC on 9515 v Sackville comes on at 1254, but it is scheduled 1100-1345. According to the December London Calling, 9515 isn't listed at all (a change from the summer) -- and that is why I dropped it from my listings.

As we go to press R Bucharest is back to regular programming. At 1930 and 2100 to Eu, 9690 provides very good reception here. The short daylight hours are producing some interesting results. All India Radio on 7412 kHz during the late afternoon hours has been consistently 30 or 40 db/9 here, a marvelous signal, but yesterday a German-speaking numbers station on 7410 destroyed reception. The Voice of Vietnam on 12018.5 kHz is now being heard during the mid-to late-afternoon hours, in addition to the early morning periods. In the late afternoons I hear the radio amateurs using AM on 7295 and 7290 complaining about the interference to the conversations, but amazingly they would rather whine about it and ask silly questions about who is causing the problem rather than listen for a few minutes and answer their own questions. Answer? Radio RSA-7295 and Radio Baghdad-7290, respectively. Sometimes R Moscow at 2100 overrides Baghdad but not often.

There are changes in the Pinelands RBBS. The per-day allocation for most users has been reduced from 60 to 40 minutes in an attempt to give those who call a better chance of getting through the busy signals. I have an average of 750 active accounts at any given time, but the monthly statistics show that the board is busy only 25% of the total available hours. If you still have difficulty connecting, you might try calling at some odd hours.

Some have asked how I collect the information for this column. Most of it is done through monitoring, using an NRD-525, R-5000 and R-71A with an assortment of wire antennas. Some schedules are received directly and more come via the members mentioned each month. Observations from members and some fax messages from broadcasters and the WRTH also contribute to the data. I try to validate virtually all information received here, particularly if it is a print source and the information is more than a month old.

In closing as I prepare to print this, via 2m FM Bob Brown tells me that registrations for the Winter SWL Festival are arriving en masse. If you need a room, get your hotel reservations now.

Changes entered between 11/25/89 and 12/29/89.

ENGLISH LANGUAGE SW BROADCAST SCHEDULES: By Start Time
Compiled by Thomas R. Sundstrom, W2XG

Start Time (UTC)	End Time (UTC)	Country	Station	Freq 01	Freq 02	Freq 03	Freq 04	Freq 05	Freq 06	Freq 07	Freq 08	Target Area	Notes	Record Last Updated
0000	0100	China	R Beijing	11715	9770	9665						ENA	01&2 v Mali	12/04/89
0000	0050	North Korea	R Pyongyang	15180	15115							As		12/25/89
0100	0200	Argentina	RAE	11710								Americas	Tu-Sa	12/04/89
0100	0157	Czechoslovakia	R Prague	13715	11990	11680	9540	7345	5930			NA		12/27/89
0100	0130	Sweden	R Sweden	11760	7225							As/Pac		11/29/89
0200	0300	Gua	KSDA	13720								As	Sa-Su only	12/10/89
0200	0256	South Africa	Radio RSA	15120	11935	9615	9580					NA		12/12/89
0200	0400	USA	MWCR	7520										12/14/89
0230	0300	Albania	R Tirana	11825	9760							NA		12/16/89
0230	0245	Pakistan	R Pakistan	21490	17725	17660	15115	9545				S&SE As	Slow-speed news	12/24/89
0255	0430	Netherland Antilles	Trans World Radio	11930	9535							NA/Carib	01 03+	11/30/89
0300	0400	Argentina	RAE	11710								Americas	M-F may be dropped	12/04/89
0300	0357	Czechoslovakia	R Prague	13715	11990	11680	9540	7345	5930			NA		12/27/89
0300	0330	USSR	R Kiev	17665	15455	15180	9765	7400				NA		11/25/89
0315	0345	France	R France Int'l	11995	11705	9800	9790	9745	9550	7280	7135	Am/Afr/Ind/As/Eu	02 v Fr Guinea	12/09/89
0330	0400	Albania	R Tirana	11825	9760							NA		12/16/89
0350	0400	USSR	R Yerevan	17665	15455	15180	9765	7400				MNA	News/Eng	11/25/89
0432	0505	Sevchellies	FEDA	17820	15325							SE As	M 01&2 ; Sa 02	12/16/89
0500	0700	Ecuador	HCJB	11775	9745	6230						NA		12/27/89
0530	0555	Romania	R Bucharest	21550	17790	17745	17720	15340	11840			Afr		12/09/89
0600	0645	German Dem Rep	R Berlin Int'l	15440	13690	13610	9760	6115	5965			Af/NE/Eu		12/08/89

0615	0700	German Dem Rep	R Berlin Int'l	15240	11970					As		12/08/89	
0630	0700	Albania	R Tirana	9500	7285					Eu		12/16/89	
0700	0830	Ecuador	HCJB	9610	6050					Eu		12/27/89	
0740	0925	Monaco	Trans World Radio	9485						UK	Su -1015, Sa -0955	12/08/89	
0800	1130	Ecuador	HCJB	11925	9745					S Pac		12/27/89	
0845	0930	German Dem Rep	R Berlin Int'l	21465	15240	9730	7185	6115	6040	Far E/EMA/Eu		12/08/89	
1000	1045	German Dem Rep	R Berlin Int'l	21465	17880					Far E		12/08/89	
1000	1100	Guan	KSDA	13720						As		12/10/89	
1000	1100	India	AIR	21735	17860	17387	15335	15050		GOS/NE As/AusNZ		12/02/89	
1030	1100	Italy	AMR Europe	7230						Eu		12/25/89	
1040	1048	Greece	V of Greece	15630	11645					Pac	News/Eno	12/23/89	
1045	1100	Hungary	R Budapest	15220	15160	11910	9835	9585	7220	Eu	Su	12/08/89	
1100	1115	Pakistan	R Pakistan	21575	17565					W Eu	Slow-speed news	12/24/89	
1130	1145	Hungary	R Budapest	15220	15160	11910	9835	9585	7220	Eu	Sa	12/08/89	
1200	1400	Costa Rica	AMR Costa Rica	11870	9725							12/14/89	
1200	1630	Ecuador	HCJB	17890	15115	11740				Americas	03 -1500	12/27/89	
1230	1315	German Dem Rep	R Berlin Int'l	21465	17880	15440	11970			As		12/08/89	
1300	1355	Romania	R Bucharest	21550	17850	15365	11940			Eu		12/09/89	
1300	1400	USSR	R Stn Peace & Progress	17635	15535	15520	11775	9675	7330	7195	As/Ao/Aus	03&4 1330-14	11/25/89
1345	1430	German Dem Rep	R Berlin Int'l	21465	17880	15440	11970			As		12/08/89	
1400	1500	Australia	R Australia	21525	9580	7205	6080	6060	5995	As/Pac/PapNG	01 -1430	12/02/89	
1400	1500	China	R Beijing	15165	11795	7405				S As/WNA		12/08/89	
1400	0200	USA	WWCR	15690								12/14/89	
1458	1600	Seychelles	FEBA	15330	9590					SE As		12/16/89	
1500	1600	China	R Beijing	15165	11795	7405				S As/WNA		12/10/89	
1500	1555	Seychelles	FEBA	11865						SE As	SatSu -1540	12/16/89	
1545	1630	German Dem Rep	R Berlin Int'l	17880	11970					As		12/08/89	
1600	1700	China	R Beijing	15130	15110	9570				E&S Afr	01&2 v Mali	12/08/89	
1600	1700	Guan	KSDA	13720						As/India	Su-Tu-Th	12/10/89	
1600	1640	United Arab Emirates	R Dubai	21605	17775	15435	15320			Eu/Afr		12/16/89	
1615	1630	Hungary	R Budapest	15220	15160	11910	9835	9585	7220	Eu	M&Th	12/08/89	

1630	1730	Argentina	RAE	15345						Eu/Afr	M-F	12/04/85
1645	1730	German Dem Rep	R Berlin Int'l	17780	15350	9730	7295			Af/Eu		12/08/85
1700	1800	China	R Beijing	11575	9570	9500				E&S Afr		12/08/85
1730	1800	Austria	ORF	13730	12020	6155	5945			M Af/SE As/Eu		12/10/85
1730	1800	Romania	R Bucharest	17720	15365	15340	11940			Afr		12/09/85
1731	1804	Seychelles	FEBA	11820						E Afr		12/16/85
1800	1830	Canada	R Canada Int'l	17820	15260	13670				Afr	SatSu -1900	12/09/85
1800	1827	Czechoslovakia	R Prague	7345	5930					Eu		12/09/85
1815	1900	Bangladesh	R Bangladesh	15255	11705					Eu/ME		12/16/85
1830	1900	Albania	R Tirana	9480	7120					Eu		12/16/85
1900	1930	Canada	R Canada Int'l	17820	15260	13670				Afr	M-F	12/09/85
1900	2000	China	R Beijing	9440	6955					M&N Afr		11/25/85
1900	2100	Cuba	R Havana	11800						Eu/Af/ME		12/02/85
1900	1957	Czechoslovakia	R Prague	7345	5930					Eu		12/09/85
1920	1930	Greece	V of Greece	9395	7430					Eu	News/Eng ex Su	11/25/85
1930	2000	Austria	ORF	13730	12020	6155	5945			S Af/ME/Eu		12/10/85
1930	2030	Iran	R Tehran	9022	6030					ME/N Af/Eu/ENA		12/02/85
1930	2025	Romania	R Bucharest	9690	7195	7105	6105			Eu		12/09/85
1948	1955	Sudan	Sudan Broadcasting Serv	11625							news/Eng	12/03/85
2000	2100	China	R Beijing	15110	11715	11515	9440	9920	6920	M&N Af/E&S Af/Eu	01&2 v Mali	11/25/85
2000	2100	Cuba	R Havana	11850						Eu/Af	v USSR	11/29/85
2005	2105	Syria	R Damascus	12085	9950					Eu/NA		12/19/85
2100	2200	Argentina	RAE	15345						Eu/Af	MMF	12/04/85
2100	2200	China	R Beijing	15110	11715	9920	6920			E&S Af/Eu	01&2 v Mali	12/08/85
2100	2125	Romania	R Bucharest	9690	7195	7105	6105			Eu		12/09/85
2100	2130	Switzerland	Swiss R Int'l	21705	15525	13635	12035	9885		Afr	01 SSB:04 v Gabon	12/09/85
2105	2205	Syria	R Damascus	15095	12085					Eu/Aus/NZ		12/19/85
2200	2300	Canada	R Canada Int'l	15325	11945	9760				M Eu	01 M-F	12/02/85
2230	2300	USSR	R Vilnius	9765	6100					Eu		12/27/85
2300	0100	Costa Rica	AMR Costa Rica	11870	9725							12/14/85
2300	0200	Guam	KSDA	15125						SE As		12/10/85
2300	2330	USSR	R Vilnius	15455	15180	9765	7400	6100		NA		12/27/85

Changes entered between 11/25/89 and 12/29/89.

ENGLISH LANGUAGE BI SHOWS: By Day of Week
Compiled by Thomas R. Sundstrom, W2IQ

Shortwave BI Program	Show Start Time	Len Start Time	Country	Station	Freq 01	Freq 02	Freq 03	Freq 04	Freq 05	Freq 06	Freq 07	Target Area	Notes re BI Show	Record Last Updated
** DAY OF THE WEEK: Sunday														
BI Show	0130	0100	Czechoslovakia	R Prague	13715	11990	11680	9540	7345	5930		NA		12/27/89
BI Show	0330	0300	Czechoslovakia	R Prague	13715	11990	11680	9540	7345	5930		NA		12/27/89
Communicator	1430	1400	Australia	R Australia	21525	9580	7205	6080	6060	5995		As/Pac/PapNG		11/26/89
BI Corner	1440	1400	South Africa	Radio RSA	25790	21590	21535	11925				UK/Eu/AF/NA/NE		11/26/89
BI Show	1545	1530	Czechoslovakia	R Prague	21505	17840	15155	15110	13715	11990	11685	Afr/S As/Eu		12/27/89
** DAY OF THE WEEK: Monday														
Communicator	0730	0730	Australia	R Australia	21525	17750	15395	15320	15160	9655		As/Pac/PapNG		11/26/89
** DAY OF THE WEEK: Tuesday														
World of Shortwave	1515	1458	Seychelles	FEDA	15330	9590						SE As		12/16/89
** DAY OF THE WEEK: Thursday														
World of Radio	0130	0000	USA	WRNO		7355						NA/CA		12/02/89
Media Network	0750	0730	Netherlands	R Nederland	15560	9630						NZ/Aus		11/29/89
Media Network	0850	0830	Netherlands	R Nederland	21485	17575						Asia		11/29/89
** DAY OF THE WEEK: Friday														
BI Show	0130	0100	Czechoslovakia	R Prague	13715	11990	11680	9540	7345	5930		NA		12/27/89
BI Show	0330	0300	Czechoslovakia	R Prague	13715	11990	11680	9540	7345	5930		NA		12/27/89
Communicator	1030	1030	Australia	R Australia	21525	15415	9770	9580	5995			As/Pac/PapNG		11/26/89
** DAY OF THE WEEK: Saturday														
BI Programme	2320	2300	USSR	R Vilnius	15455	15180	9765	7400	6100			NA		12/27/89

THE 1990 NORTH AMERICAN DX CHAMPIONSHIPS (NADXC)
SPONSORED BY NUMERO UNO AND FINE TUNING

ELIGIBILITY

The 1990 DX Championships is open to all listeners residing in North America [as defined by the country list of the North American Shortwave Association (NASWA)]. Members of the NADXC Administrative Committee and the judges are excluded from participation.

LISTENING PERIOD, FREQUENCIES, AND TIMES

The contest period will run from 1200 UTC 1 February to 1200 UTC 15 February 1990. Loggings outside this time period will not be considered. All loggings must be made between 2.000 MHz and 30 MHz. Loggings outside of this range will be eliminated by the judges.

PRIZES

Trophies will be awarded to the top three finishers. All entrants will receive a certificate of participation in the 1990 NADXC with their place of finish indicated on the certificate.

SCORING

Contestants are to log as many stations as possible from as many countries as possible. 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. 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. Utility stations may not be counted for this contest.

Participants are required to submit a running 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.).

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. Logs will be judged on accuracy, completeness and neatness. If the judges cannot read a log, that log will not be counted for scoring purposes. The decision of the judges is final.

FEES

An administrative fee of \$3.00 plus a business-size SASE must be provided with contest entry. All entries must be postmarked by 1 March 1990 and sent to:

Dr. Harold Cones
2 Whits Court
Newport News, VA 23606 USA

Results of the contest should be available in May and will be sent to each participant and all ANARC member clubs for publication.

Good luck from the 1990 NADXC Administrative Committee - Harold Cones, John Fisher, and Dan Sheedy.



WILLIAM J. PLUM
12 GLENN ROAD
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#European (4-3/4x6 1/2)	6.00	13.75	25.00
#10(4-1/8x9 1/2)	5.50	11.75	21.25
#10 regular w/inside tint non-airmail	5.00	11.00	20.00

PRINTED ENVELOPES

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	25.50	45.00
	23.75	41.25
	23.00	40.00

ALL AIRMAIL ENVELOPES are sealed in plastic for protection. For printed airmails, specify size, quantity, and whether regular style(w/ name & address in upper left) or return style (name & address in lower center). For those including their calls, we cannot print a zero with a slash thru it 0. In our typostyles, there is ample difference between a zero and the letter "O".

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Ink: OUR Choice of black, red or blue

HAM QSLs - The Basic Card

500-\$19.50 1000-\$25.50

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Ink: YOUR Choice of black, blue, or red.
(The additional charge is for press wash up.)

NOTE!! Products shipped UPS ground service which requires a street address. P&H is only \$2.50 PARCEL POST and shipments to Canada MUST BE QUOTED FIRST!! as the \$2.50 P&H will not cover most shipments sent via the Post Office(USPS). Thank you.

3rd Annual Winter SWL Festival

February 23-25, 1990

Holiday Inn

Sumneytown Pike

Kulpsville, Pennsylvania

The Winter SWL Festival is a good excuse for those folks with a common interest in the Shortwave Listening hobby to gather for a weekend of socializing and meeting other SWL's. Forums and roundtable discussions will be held on Saturday for those wishing to learn more about SWL'ing or to exchange tips and techniques. Door prizes, station freebies, displays from clubs, and a banquet round out the weekend events.

Forum Topics

Basic Propagation for the Beginner
QSL Preservation and the CPRV.
Antennas for the Beginner and Advanced Listener
Shortwave Accessories
What are Utilities and where to start?
DXing Helps - Books, Magazines, Clubs, Newsletters, Atlases
The Collecting and Display of Station Memorabilia
The NASWA Awards Program and Tips for Acquiring Awards
Receivers: What do you need? What to look for, what is new, and what is in the future.
The Hidden World of Clandestines
What is Pirate Broadcasting and How to Hear Them
Scanners and Scanner Clubs
QSLing Techniques
Computers in the SWL Hobby
The Role of Clubs in the SWL Hobby

Registration Options -

FULL - All functions including forums, hospitality room, lunch and banquet - \$30

PARTIAL - Includes forums and hospitality room but NO meals - \$15

SPOUSE - Includes hospitality room and meals - \$15

Please register NO LATER than February 10, 1990. Checks should be made payable to WINTER SWL FEST. Registration for hotel rooms should be made directly to the Holiday Inn at (215)368-3800 - As soon as possible! Special rates - \$55 single, \$59 double. Our function code with the hotel is WINTER SWL FEST. Please refer to this to get the special room rates. Listen to the ANARC SWL NET on 7.240 at 1500 UTC Sundays for up to the minute info.

The Holiday Inn is located at EXIT 31 of the PA Turnpike NorthEast Extension - Lansdale Interchange. Limo service is available from Phila. Intl. Airport directly to the Holiday Inn.

Please submit the following form with your registration amount to:

Winter SWL Festival
PO BOX 591
Colmar, PA 18915

Name _____

Address _____

City _____ State ____ Zip _____ Phone _____

Circle one: FULL PARTIAL SPOUSE (Spouse Name _____)

Banquet choice: Roast Beef ____ Chicken ____

product preview

What's New
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PUBLISHER'S PAGE



Yes, one more old-time "Publisher's Page." I haven't used this column header in years...and when the Graphics Committee sees it, I probably won't use it again!

The main reason I'm writing this is to discuss an important subject, money. As you've probably noticed on Chuck Rippel's HQ Column, NASWA membership dues are going up to \$23.00 a year. This is about 42¢ a month, and 20¢ of that 42¢ will go to the increased postage rate for the new Journal. With a few 65¢ exceptions, the old FRENEX cost 45¢ to mail. This Journal, with the heavier paper and proposed increase in page count, costs 65¢ by first class mail every month. Another portion of the increase will go towards increased printing costs. Since NASWA dues went up to \$18.00, we have had four increases in this expense, three of which the club absorbed with no dues increase, but it is just not financially possible to cover the last one since it now costs more than \$18.00 a year for printing and postage alone.

Because this notice is rather sudden, we will advance the dues increase date to January 31, 1990. If you renew before that date regardless of your renewal month, we will accept the old \$18.00 rate. After that it will be \$23.00. All members whose renewal month is "1" may renew at \$18.00 for 1990.

Canadian members may presently renew at the U.S. rate even though the loss of postage rate parity means a cost of 9¢ an issue over the U.S. 65¢ cost. We hope to be able to continue this until at least the next postage increase proposed for 1991.

The present rates will apply for overseas members until we can better assess our total costs with the new mailing system we've begun with this issue. We anticipate a possible two to three day delay in delivery (which may not even occur), and we'd like your opinion of the new service.

On a happier subject...all the extra months due to those who replied to the survey and to DXtra subscribers have been added to your renewal month. Your label on this issue should show this.

.....

WANTED: A USED KENWOOD 5000, ICOM 7000, OR NRD 515 IN GOOD OR EXCELLENT CONDITION WITH POSSIBLY A NARROW BAND VOICE FILTER. PRICE MUST BE REASONABLE. I WILL ACCEPT COLLECT CALLS. ANTHONY GISZACK, 7-08 ESSEX PLACE, FAIRLAWN, NJ 07410. PHONE (201) 796-3512.

FOR SALE: DRAKE 1A RECEIVER, SERIAL #498, IN GOOD CONDITION. BEST OFFER. I CAN ALSO PROVIDE 10:1 MATCHING TRANSFORMERS AS DESCRIBED IN "FINE TUNING PROCEEDINGS 1988." PERFECT FOR MATCHING BEVERAGE ANTENNAS. BINDING POST INPUTS AND SO-259 OUTPUT, \$16.00 EACH POST-PAID. STEVEN R. LARE, 824 WEST 25TH STREET, HOLLAND, MI 49423. PHONE (616) 335-2270.

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U.S.A.

