

**NASA**

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The  
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Shortwave  
Association

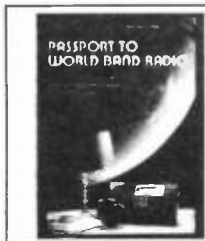
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Volume XXX, Number 11  
November, 1990

# UNIVERSAL RADIO

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# NASWA Notes



**Bob Brown**  
238 Cricklewood Circle  
Lansdale, PA 19446  
Compuserve 74756,1557

I love this time of year. The weather is cooling off, the changing leaves add some variety to the landscape and best of all, the Tropical bands are alive with DX again. Isn't this what living is really all about?

This month we present the complete English Language Broadcast schedules compiled by Tom Sundstrom. We have again provided it in the center of *The Journal* for easy removal. Add a couple of staples and you have a very handy reference for the upcoming listening season. For those of you who are new to the club, this complete listing is printed twice a year, in May and November. Special thanks to Tom for giving us the most accurate and up to date schedules in the hobby today.

## MT Convention Recap

I had a great time at the Monitoring Times convention held in Knoxville, TN the first weekend in October. Over 300 radio enthusiasts attended and it looks like Bob Grove and company will be making this an annual event. Saturday was filled with seminars covering a variety of hobby related topics. Dr. Harold Cones, Kevin Atkins, and myself conducted a "DXing According To NASWA" talk which was well received. We had a NASWA table which generated a fair amount of interest in the club. Special thanks to Harold, Kevin, Alan Johnson, Gerry Dexter, and Tom Sundstrom for assisting with NASWA promotion at the show. Sharing our table was Kirk Baxter from ACE. Ed Shaw, who was very active with NASWA during the early 70's, stopped by and donated his collection of FRENDXs to the club. We will pick them apart and add articles to the reprint service. Thanks Ed! The Saturday of the convention coincided with the special DX test from St. Helena. A group of NASWAns consisting of Cones, Atkins, Johnson, Glenn Hauser, George Zeller and myself went to a quiet location by the Tennessee river to catch the broadcast. The banquet speaker was VOA Director

Richard Carlson. A nice touch at the banquet was a special plaque awarded to former ANARC Executive Secretary Bob Horvitz for his contributions to the hobby. All in all a nice effort by the folks at MT and we look forward to next year.

## Phila. Area NASWA Chapter

The inaugural meeting of the Philadelphia Area NASWA Chapter was held Oct. 19th. The first meeting was attended by 21 folks and we had a great time talking about SW. I gave a short presentation on a new pastime I've gotten hooked on, collecting radio related memorabilia. The next meeting is scheduled for Friday evening Nov. 16th. Info can be had from Dan Cashin (215)446-7831. You too can start up a group in your area! Write and ask me for a printout of NASWA members in your area. Local schools will be glad to give you some meeting space.

## Portraits / Features Needed

Just a reminder that we'd like to read about YOU in NASWA Portraits which is edited by Jerry Klinck. A little write up about yourself and your hobby is all it takes. Portraits doesn't appear this month because of the larger English Schedules. Also, features about any SW related topic are needed for our "Features" section. If you need help or have questions about writing for *The Journal* please contact ye ole Editor-In -Chief, Harold Cones.

## Member News

New NASWA member William J. Sullivan Jr. writes: "I've just got back into SW listening and scanner monitoring after an absence of many years. It sure is a lot more fun and a lot easier than it used to be 25 or 30 years ago when I was in the Air Force (retired 6/71). I'm 61 years young with 30 or 40 more to go... I enjoy my membership and you can be sure that I will maintain my membership for a long time to

come. *The Journal* is a fine publication. I look forward to each and every copy. You guys do a fine job." Thanks Bill! It's letters like yours that keep us at it.

I also received this note from Mike Westdal: "I was expecting *The Journal* to be a short newsletter, so when I received the September issue (sample) I couldn't believe the diversity of topics covered in an in-depth and interesting manner. I especially enjoyed Dr. Harold Cones article in African Destinations about the climate of the African continent, NASWA Portraits, and Listener's Notebook which I found to be very detailed." Thanks Mike!

### **Our Malaysian Connection**

As you may or may not know, NASWA sends *The Journal* to other DX clubs and

organizations around the world in exchange for their club bulletins. Listener's Notebook editor Bruce MacGibbon searches these bulletins for DX tips for his column. I recently received a very nice letter from Lim Kong Jim, editor of "South East Asia DX News." Kong Jim enjoys the *Journal* very much and he is quite impressed with the quality of contributions from our members. DXers may be interested in subscribing to his news sheet which consists of 2-4 pages of DX news and station info from countries in SE Asia. Check last months Listener's Notebook for further details.

\* \* \* \*

I hope you and yours have a very Happy Thanksgiving. Please remember our guys and gals in the Gulf during the Holidays.

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

Hartman Auto Service, Lakeland, FL  
Peter B. Barr, Des Plaines, IL  
Ralph L. Beck, Rochester Hills, MI  
Peter Beyer, Phoenix, AZ  
Stephen H. Bradford, McMurray, PA  
David Brandenburg, Frisco, TX  
Bob Broyles, Manhattan, KS  
Richard Burke, Medford, MA  
Vance Burns, Houston, TX  
Bruce G. Conrad, Lebanon, PA  
Jim B. Cooper, Sr., Brandon, MS  
Daniel S. Crovo, Methuen, MA  
Roland Dieterich, Koblenz, GERMANY  
Richard W. Doyle, Glendale, AZ  
Mr. L. E. Duvall, Portland, OR  
Alfred M Fawbush, Houma, LA  
Herbert L. Foster, Melbourne, FL  
Bill Freeland, Lenexa, KS  
Arthur H. Frietzsche, San Luis Obispo, CA  
Louis Garrett, Waveland, MS  
Ray Glider, Hermosa Beach, CA  
Vincent R. Havrilko, Patrick AFB, FL  
Calvin S. High, Baltimore, MD  
Rev. Harold Hoeferkamp, Myrtle Bch, SC  
Jack B. Horner, Lancaster, PA  
Edward J. Kabak, Royersford, PA  
Bruce King, Port Hueneme, CA  
Jim Koch, Defiance, OH  
Dr. V Lakshminarayanan, El Cerrito, CA  
Ruben Larios, Houston, TX  
Jon Laughner, Urbandale, IA  
Donald I. Lawless, Laramie, WY  
David Mandell, Alpharetta, GA

Hal Meese, Riverside, CA  
Hugh Melton, Richmond, VA  
Dr. Joe Mesh, Fenton, MI  
David W. Miller, Dayton, OH  
Roger A. Morby, Londonderry, NH  
Peter Morelli, Portland, ME  
B. Morley, Brookline VLG, MA  
Gil Paquette, Rising Sun, MD  
K.J. Parrish, Hoboken, NJ  
Richard Perry, Tuscaloosa, AL  
Dr. James H. Peterson, Greeley, CO  
George Petrides, Bethesda, MD  
Al Policano, Erie, PA  
Stefan Preker, Spokane, WA  
Stephen J. Price, Conemaugh, PA  
Robert S. Ream, St. Louis, MO  
John Rowbotham, Santa Rosa, CA  
David Schreiber, New York, NY  
Robert Schwartzwelder, Lavale, MD  
Willima Shell, Sikeston, CO  
Daniel M. Snow, Cape Elizabeth, ME  
Allen J. Stewart, Lanett, AL  
William J. Sullivan Jr., Lake Charles, LA  
A. P. Sweeney, Roanoke, VA  
Randy Vance, Defiance, OH  
Ferenc P. Vandor, Chicago, IL  
Terrence Wadsworth, San Juan, PR  
Dwight D. Weidman, APO NY, NY  
Mike Westdal, Sacramento, CA  
William R. Wilkins, Layton, UT  
Tom Wixner, Buffalo, NY  
B. W. Zipperer, Pt. Wentworth, GA

# DXer's Forum

**Rowland Archer**  
5524 Hawthorne Park  
Raleigh, NC 27613  
CompuServe 70075.117



I hope everyone who tried to hear Radio St. Helena was successful and enjoyed the special transmission as much as I did. At first tune-in all I heard was a heterodyne and something that sounded like slop from an adjacent station. I was tuning around in USB and fortunately switched to LSB and voila!, there was the BBC news relay followed by the ID. The Datong FL4 audio filter's automatic het killer took care of the interference, and by 2030 the signal had markedly improved. By 2045 I was listening on the MAP's speaker, enjoying the music!

I'd like to send warmest thanks to all who've written, emailed, or called to express their appreciation for my work here at the Forum. I'd also like to thank those who've supported the column with your numerous articles over the years. It's been a lot of fun, and I'm glad I let Chuck Rippel, our former Executive Director, twist my arm into giving it a try.

Kevin Atkins is one of the best people I could think of to take over the helm — I'm extremely pleased that he's agreed to carry on the Forum tradition. Like the rest of the NASWA membership, I look forward to enjoying the Forum in the months ahead. Please welcome Kevin and support his column with your feature articles and contributions!

Frequent Forum Contributor Rich D'Angelo has interviewed Gerry Dexter for us in this month's feature article. Gerry and SWBC DXing are synonymous in many of our minds, and it's a real honor to have his views shared here for all of us. Thanks Gerry and Rich!

## An Interview with Gerry Dexter

*Conducted by Richard D'Angelo*

Those entering the shortwave listening hobby today probably know of Gerry Dexter as an author and publisher of shortwave listening related materials. However, Gerry has been a shortwave broadcast (SWBC) DXer for close to forty years! February 13, 1991 will mark Gerry's 40th year as a SWBC DXer. During that time, he has verified over 1,400 shortwave broadcast stations from over 230 radio countries per the NASWA Country List. In addition, Gerry has earned over 30 NASWA awards. He holds Award Certificate #1 for 17 different awards and Awards Certificate #2 for 7 different awards and Award Certificate #3 for 4 different awards. Among Gerry's many awards are the Master DX

Centurion, Master Nigerian DXer, Master Subcontinental DXer, ORTF DXer, Emissora Nacional DXer, Maple Leaf DXer, Master Indonesian DXer, Senior Ecuadorian DXer, Senior Venezuelan DXer, Senior Brazilian DXer, Senior Tropical Band DXer and the Senior Peruvian DXer.

Gerry is more than just a "name" in the hobby. He has regularly attended the Winter SWL Festival in Kulpville, periodically attended ANARC Conventions over the years, regularly attends shortwave gatherings held in Chicago and Milwaukee, and was one of the attendees of the first convention organized by Monitoring Times. Those that know

Gerry understand his love for the social aspects of the hobby.

Gerry has been a member of literally countless DX clubs over the years serving in a variety of capacities. He was the second Executive Secretary of the now defunct ANARC. Currently, he is a member of the Committee to Preserve Radio Verifications (CPRV). Also, Gerry was a member of the first two Administrative Committees for the North American DX Championships. He joined NASWA in the early 1960's and has been active in club affairs ever since. Today Gerry is a member of the club's Country List Committee and Executive Council.

After a career in broadcasting, Gerry formed Tiare Publications in 1986. Since its inception, Tiare has been known for its wide variety of excellent titles concerning the shortwave spectrum. Recent additions include "Coast Guard Radio" and "The Warship Directory" both by James T. Pogue. Gerry has written for some well-known publications such as "The World Radio Television Handbook" and is a staff writer for Popular Communications Magazine, Soldier of Fortune and Passport to World Band Radio.

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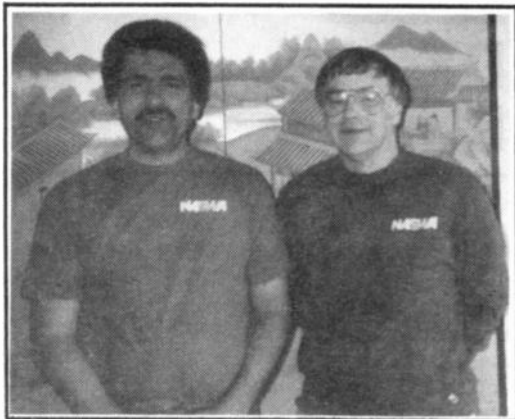
**Forum:** *Forty years as shortwave broadcast DXer is a long time. How did you get started in DXing?*

**Dexter:** Radio has fascinated me for as long as I can remember. When I got my own first radio I was enthralled to discover I could pick up WWL in New Orleans, KDKA, etc. Sometime later one of my friends was given a shortwave radio and the first time we fooled around with it I was hooked.

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**Forum:** *Who were some of the key figures or names from the early days that helped shape you as a DXer?*

**Dexter:** Oh, Ken Board, who wrote the shortwave column in Radio Television News and Hank Bennett who did the shortwave column in the Newark News Radio Club bulletin. Don Jensen and I established a friendship very early on and we exchanged



*Figure 1. Rich D'Angelo (left) and Gerry Dexter, sporting the finest in NASWA fashion wear!*

a great amount of tips and information. A lot of it was just learning on your own. Aside from the clubs and the WRTH there was almost nothing else available in the way of books or magazines.

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**Forum:** *What were some of your early DX accomplishments or achievements? What made them so special to you?*

**Dexter:** It's hard to remember any from the very first years — maybe there weren't any. Later I can recall sitting up 'til after 4am to hear the Fiji Broadcasting Commission, more or less stumbling across the Gilbert and Ellice Islands Broadcasting Service on 4912.5. And, of course, the unexpected arrival of new stations which put new countries on the air — Galapagos, AFAN, FEBA. Oh — and the night Turks and Caicos was on with hurricane warnings!

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**Forum:** *Today the British Forces Broadcasting Service is broadcasting special programs on shortwave to the Gulf region. What shortwave stations and international incidents do you recall from prior years that hold a special significance to you as a SWBC DXer?*

**Dexter:** I suppose shortwave activity surrounding the Soviet invasion of Hungary in 1956 and Czechoslovakia in 1968. Radio Swan and all of the clandestine radio activity around the Bay of Pigs invasion and later. Much more recently the Falklands War

(BFBS was active on shortwave at that time, too). And, in the early 60's, there were all those African countries becoming independent which brought about station changes or totally new stations coming on the air.

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*Forum: Every DXer has some "war story" concerning the chase for those elusive QSL's from rare stations. Please share with Forum readers some of your favorite tales.*

Dexter: The 15 year effort to get Burma still stands out. The last couple of years I worked through someone at the US embassy and was astounded to learn that it took the approval of the equivalent of our Secretary of State just to issue one QSL! The effort to get China to QSL sites and provincial outlets was a very interesting effort, too, though I think the timing — which matched the end of Mao and increased openings to the West had more to do with it than anything.

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*Forum: It's been said that ANARC stopped functioning as a hobby-related organization long before its recent demise. Looking back on your experience as a former ANARC Executive Secretary, how did that organization change from its early days until its termination at September's ANARC Convention?*

Dexter: Actually, I think ANARC improved steadily over its first decade or two, albeit with some ups and downs in there. There was a period of several years when I just didn't pay much attention to ANARC and I guess there were too many others with the same failing. I think ANARC's efforts with the ECPA, the Woodpecker Project and WARC were very good. But, for whatever reason, ANARC just didn't draw enough enthusiastic and capable people to keep it going and growing.

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*Forum: I'm sure Forum readers would be interested in hearing about the equipment in your shack. What equipment are you currently using?*

Dexter: I have an NRD-525 and an NRD-515. Also a Drake R4B, although it declines to operate at the moment.

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*Forum: Many shortwave listeners get misty-eyed over old tube radios. What memorable*

*pieces of equipment did you own from the tube set era? What was your first receiver?*

Dexter: Tube radios had personality and warmth. They were friends. Today's receivers — however many wonderful things they can do — are "cold." Calculators with knobs.

I started with a Hallicrafters S-38B, then an S40-B. Next came a Hammarlund HQ-129X (I wish I still had that!), an HQ160, HQ180, Drake R4B and Racal RA17.

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*Forum: What part of the world is your favorite DX target? How has this area changed over the years?*

Dexter: Latin America has been my favorite DX area for a long time. Unfortunately most Latin countries, especially in Central America, have far fewer stations now than they did 30 years ago. So there are a lot fewer new targets for someone who has been at it awhile and subsequent drop in interest, or at least in activity.

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*Forum: You are well known for your extensive collection of Peruvian QSL's, some 120+ veries to date. When did you get started DXing and QSLing Peru? What motivated you to "attack" Peru?*

Dexter: I didn't look at Peru any differently than any other Latin country, as far as DXing was concerned, until about 10 years ago when the government there loosened things up and there began to be a steady stream of new Peruvians coming on the air. There were times when there must have been 60 or more stations which were active or semi-active at a time. Peru was where the action was so that's where I pointed the radio.

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*Forum: How has the economic downturn of the late 1980's affected QSLing activities from Latin America?*

Dexter: Who can say for sure? I assume everything is more difficult for these stations, especially in Peru with the runaway inflation, the guerrilla problems and such. I read somewhere that a malaise, a "what's the use" outlook is prevalent and you certainly can't blame them. QSL's must be very far down on the list of any radio operator's concerns. Quite a number haven't even managed to stay on the air. All I know is that

I haven't had a QSL out of Peru in at least a year.

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**Forum:** *Without a doubt, most DXers consider you the foremost expert in QSLing shortwave broadcast stations. Eventually this lead you to writing your famous book — Secrets of Successful QSL'ing. What inspired you to write the book? Was it a difficult undertaking? Is there an update planned in the near future?*

**Dexter:** The book wasn't difficult to write. I guess it was just sitting up there waiting to come out. I'd only seen reception reporting and QSLs covered in the occasional book chapter or club article — there wasn't a single source that covered all the bases. No, I don't expect it will be updated any time soon.

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**Forum:** *Have you dabbled in other aspects of the DXing hobby such as medium wave or utility DXing?*

**Dexter:** Oh, yes. I have had forays into utilities, amateur DX listening, BCB, FM, TV but never for very long and I always came back to SWBC. I haven't gotten outside of SWBC for quite awhile now.

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**Forum:** *In 1986 you formed Tiare Publications (P.O. Box 493, Lake Geneva, WI 53147) and began publishing hobby-related books. What lead up to your decision to launch Tiare?*

**Dexter:** Well, I wrote *Secrets of Successful QSLing* "on spec", thinking it would be a natural. But none of the hobby publishers were interested so I decided to publish it on my own. It was very well received and so it wasn't hard to make the decision to bring out further books.

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**Forum:** *Your publication Shortwave Goes to School — A Teacher's Guide to Using Shortwave Radio in the Classroom by Myles Mustoe created a lot of interest in shortwave radio when it was released in 1989. How did the idea for the book develop and what was the reaction from outside the hobby community to the book?*

**Dexter:** If I recall correctly, I saw a mention of someone who was using shortwave as a learning tool in the classroom and it seemed like there might be a book in that. I was fortunate to find Myles as he was one of the

people who were into that technique. I'm pleased with the reaction to the book — it's had some very favorable publicity outside the hobby and we've filled orders from schools in all parts of the country, plus several foreign countries.

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**Forum:** *Over the years, you have collected numerous NASWA awards. What are some of your favorite NASWA awards?*

**Dexter:** I guess the Master DX Centurian and Senior Peruvian. When are you going to come out with one for clandestines?

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**Forum:** *You have a very special interest in clandestine radio broadcasts. In the early 1980's you wrote the very popular Clandestine Confidential and currently edit and publish the Clandestine Confidential Newsletter. How did your interest in clandestine broadcasts develop? What were some of the early clandestine stations that peaked your interest the most?*

**Dexter:** I've always liked mysteries, spy stories, intrigue, foreign affairs — and clandestines have all of that. Even so, I don't think I really got into them until we had that string of anti-Castro stations which came on in the 70's (Alpha 66, Libertad Cubana, LV de Juventud and several others).

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**Forum:** *If you were starting from scratch, what area of the world would you pursue as your first DX target? Why?*

**Dexter:** I'm not sure how much hardcore DXing I'd really do. If I were in such a position, though I'd probably focus on Africa — it's got more of a foreign flavor than Europe.

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**Forum:** *Occasionally, DXers have to ignore political influences to achieve their DX goals. Were there any stations you encountered while DXing that made you think twice about sending off a reception report?*

**Dexter:** That's an easy question. No.

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**Forum:** *A handful of international broadcasters complain about receiving reception reports from listeners. Most appear to be quite receptive to QSL requests. In general, how has the attitude of international broadcasters changed over the years?*



Dexter: I think a few of the international broadcasters — those who've discontinued QSLs — see QSLing as a bigger deal than it has to be. I'd wager that most of us would be happy with a no-data card if the only other choice was no QSL policy. Issuing a no-data card can't be any more time-consuming or expensive than mailing out program schedules and/or the station replying to you to say that they don't QSL! But, whatever the reasons, a few stations have gone to a no QSL policy, a few have made us jump through hoops to obtain them — which, again, is fine, given the fact that the other choice might be a no-QSL policy. It was very gratifying to see the Christian Science Network drop their initial no-data card policy in favor of individual cards for each of their stations. I hope all who send reception reports are thanking them.

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Forum: *If you could change three things about any aspect of the shortwave DXing hobby today what would they be?*

Dexter: Fewer half-million watt transmitters. Fewer frequencies for each station (equaling more room for smaller voices). And active listener/DXer groups in every state!

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Forum: *Is it true that you once verified the infamous hoax Radio Nibi Nibi?*

Dexter: You're mistaking that one for Radio Nada Nada.

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Forum: *Gerry, thanks for taking the time to share your insights into the hobby with the DXer's Forum readers.*

Dexter: It was my pleasure. Thank you!

\* \* \*

## UPDATE: RADIO FOR THE PRINT HANDICAPPED - DOWN UNDER

by David M. Clark

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*We are indeed fortunate to have a special update from David Clark, Chairman of the Ontario DX Association, on the Print Handicapped stations. These stations broadcast in the grey zone of 1620-1630 kHz, considered shortwave by some and medium wave by others. They have been heard across North America, under excellent conditions, and represent a prize long-haul catch. Thanks for giving us the "low-down", Dave! --Ed.*

The inaugural broadcast of ZLXA, New Zealand's Radio for the Print Handicapped on shortwave - 3935 khz (parallel 2XA on 1602 medium wave) took place on August 25, 1990. ZLXA is using a 1 kW transmitter with a V-beam directional north-south to provide coverage to the entire country.

Their announced schedule is as follows: Sunday at 0600-0900 and Monday/Wednesday/Thursday at 0630-1000 UTC, although I believe all times would now be one hour earlier, since New Zealand moved to summer daylight time on October 7th. To date, loggings in North America have been rare, although my DXing partner, Cedric Marshall and I are quite sure we have heard them on several occasions so far here in Newmarket, Ontario.

Meanwhile, in Australia, there have been a number of recent developments relating to their radio services for the print handicapped which, unfortunately, do not auger well for DXers in North America (with the possible exception of the West Coast) wanting to log these stations. To put the current transitional state of affairs into focus, a little background information seems appropriate.

In Australia, Radio for the Print Handicapped (RPH) stations have been established in a number of the major cities under the Wireless and Telegraphy Act and heretofore have been confined to operating on 1620 and 1629 kHz on a shared frequency basis, using a power of 500 watts. Stations in Brisbane, Canberra and Hobart have shared 1620, while their counterparts in Sydney and Melbourne have shared the 1629 channel.

The stations are operated entirely by volunteers and their primary source of funding is public subscriptions and contributions. It is estimated that there are some two million people in Australia benefiting from the services provided by the RPH stations - persons who are blind or visually impaired, physically impaired by other debilitating illnesses, intellectually impaired, and people from non-English speaking backgrounds who are able to understand but not read printed material. Thus, the primary source of program material is newspapers and magazine articles which are read over the air. The objective is to help relieve these people of their feelings of isolation from normal communication through the immediacy of radio.

Recently, the Australian Department of Transport and Communications has determined that steps should be taken to overcome the problems of low power and shared usage of these out-of-band frequencies which are not always covered by standard broadcast receivers. Steps have now begun to allow the RPH stations to occupy channels within the standard broadcast band (or the FM band) with increased power to improve their audience reach.

Speaking of "audience reach", it is quite amazing that the signals of these 500 watt stations have actually made it across the Pacific to North America with some degree of regularity, especially for DXers living near the West Coast. On Christmas morning back in December, 1988, Cedric and I were thrilled to discover the RPH stations could actually make it all the way to our combined shack in my barn here in Newmarket (and I have heard of a few loggings by other DXers in ECNA too). Of course, the key to hearing these stations here in the East is the fact that they have been sitting on clear channels outside the BCB and so far, the FCC in the United States has not moved ahead to grant operating licences to domestic stations in the expanded band above 1600 kHz.

We have since made a number of RPH loggings, although it has often been difficult to be sure which stations we were hearing on the respective channels. Indeed, on several occasions, we could hear both outlets mixing on 1629 (it turns out that Sydney was typically dominant) and all three stations on 1620 (Canberra tending to be dominant). Last March, Cedric logged and subsequently verified both Sydney and Canberra!

Although audio tends to break through with more regularity on 1629, Cedric's tape of "1620 here in Canberra" on March 16th is truly outstanding. I remember the morning well: it was the day I was preparing to leave for the Grayland DXpedition which Guy Atkins wrote about for "Listener's Corner" in the May 1990 issue of The Journal. I emerged from the house and wandered into the barn about 15 minutes after the station's fadeout. Rats!

It is not surprising that the RPH signals from the South Pacific should be heard best during the equinoctial periods - this is consistent with DXers' experience on the Tropical Bands. As noted, last March proved to be productive and at date of writing, several good October openings have been experienced as I shall reference below.

Getting back to the present situation, the move of RPH radio away from 1620 & 1629 has begun. It is likely that by sometime early in 1991, all stations will have vacated the present channels, and thus will become most difficult or impossible (at least in the case of those which move to FM) for us to hear ever again.

Given that implied urgency from a North American DXing perspective, I have pieced together the present status as best I could from a variety of sources. Here's the rundown (as of October 15, 1990) with the caution that the situation may well have changed by the time this information reaches you:

**\* 1620 kHz \***

**1PPP-CANBERRA:** There was an indication in Australian DX News in May/90 that a move to FM was planned. This move was not expected until 1991, according to an information sheet provided by the Australian High Commission in Ottawa. However, on the September 13th edition of Media Network, Arthur Cushen confirmed that the move had already taken place (I presume in August). Kiss Canberra goodbye!

**4RPH-BRISBANE:** WRTH/90 and Australian DX News in May/90 stated that a move to 1296 kHz was planned. Arthur Cushen confirms this. The move will likely take place before the end of 1990, especially as this is now a clear channel, the listed Australian and New Zealand stations having already moved to other frequency assignments. Recently, on October 8th, Cedric pulled good audio from 1620 at 1100+; then on October 14th, we heard both stations mixing at about equal levels. Soon after 1100 (and about one-half hour before local sunrise here), one of the RPH's briefly rose on top quite clearly with some form of radio drama but we did not get a specific ID. With Canberra gone, one would think based on relative location that Brisbane would dominate, but Hobart, being on the southern island of Tasmania, would surely be the preferred catch. You may yet find one or the other if not both signals present.

**7RPH-HOBART:** Australian DX News in May/90 stated a move to FM was planned. More recent information as outlined by Arthur Cushen is that 1341 kHz is the target channel. Subject to the accuracy of the Australian High Commission data sheet at hand, the indication is that this move won't happen until 1991 - but look what happened to Canberra. Now's the time!

**\* 1629 kHz \***

**2RPH-SYDNEY:** According to a letter which Cedric received with his verie, the station manager said that a move to 1539 kHz with 1 kW would take place in mid-August. This is seen as a temporary move until early 1992 when another channel assignment with 5 kW is anticipated.

The move has not taken place as originally planned but one must still suspect it will happen soon. Also on the September 13th edition of Media Network, Arthur Cushen noted that Sydney "remains on 1629". Again on October 8th, Cedric got a good tape of Sydney at 1100+; and then on October 14th I monitored them from 1055 to 1120 with solid audio (best as I've ever heard them!). Go for it.

**3RPH-MELBOURNE:** This station officially moved as planned on August 19th to 1179 kHz where it is now using 5 kW (3KZ in Melbourne vacated this frequency and moved to FM). During the initial period after the 3RPH move, broadcasts were simulcast over 1629 but this came to an end about September 20th, I believe. West Coasters might be able to nail this down on the new channel, where the only serious competition appears to be a 50 kW outlet in Osaka, Japan.

Perhaps as they do move, all the remaining RPH stations will follow the example of Melbourne and simulcast on their original channels for some days or weeks after their official frequency changes take place, although I wouldn't count on it. As they say in the stock market, "timing is everything" and there isn't much time left. Good luck!

• • •

# Latin Destinations



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**H**ola amigos! Welcome to another edition of Latin Destinations. Most rural radio stations in Latin America devote part of their broadcast day to "advisos", "comunicados" or "servicios sociales" (the name varies from region to region), which are simply short community and personal announcements that the stations are (usually) paid to air. This month, I'm going to follow that example and start out with two "advisos". First, on October 2, my wife Theresa gave birth to our first "harmonic", Rebecca Joy Briesmoore. As I write this, just a few days later, I haven't yet found out how good of a night-time DX alarm clock she is, but from what I hear, she is probably the most effective kind!

Our second "adviso" concerns the contest questions in the August column. The first question asked for the name of the only 90MB Bolivian station reported in the NASWA column for the prior six months. Don Weber of Westlake, Ohio won the drawing on this one, with the correct answer of Radio San Miguel, 3310. The second question was a real tough one, and I wasn't surprised when no one submitted the correct answer. The first SWBC station in Latin America was TI4NRH, Heredia, Costa Rica. TI4NRH has been off the air for nearly fifty years, but while in Costa Rica a few months back I was able to look up the descendants of the man who founded it, still living in the same house. It's an interesting story, but will have to wait to a later date. For the curious, the first SWBC station in the world was KDKA Pittsburgh. The next three (I'm unsure of exact order) were WGY, Schnectady; the BBC; and Philips in Holland.

## Focus On Venezuela

With the winter DX season now underway, I thought this month we would make this a true beginners' column and focus on one of the easiest LAm targets, Venezuela. Experienced LAm DX aficionados should still read on, however, as there is a bit of

info below that may help your station counts.

Venezuela has always been a favorite LAm DX target of mine because when I started LAm DXing in 1972, the sixty meter band was chock-full of Venezuelans - almost one every ten kilohertz. There were also several stations on 90 and 49 meters, but I cut my LAm DX teeth going after the YVs on 60 meters. In fact, my first tropical band LAm station logged and station QSLed was now-inactive Radio Barquisimeto on 4990 kHz. Unfortunately, Venezuelan activity on SW gradually declined through the 70s and into the mid-80s. In some other LAm countries, similar declines have been partially abated by new stations coming on the air, particularly from more remote regions. This hasn't been the case in Venezuela; only one new station powered up during the 80s (although there have been rumors of at least two more for several years).

Currently there are about a half-dozen "regular" stations, and another eight or ten stations that are heard with varying degrees of irregularity. However, Venezuelans are not that difficult to hear (assuming they are on the air). First, Venezuela is the closest South American country to North America. Secondly, Venezuelan stations tend to be larger, commercially more successful, and more powerful than their Andean counterparts to the South. Lastly, technical standards in Venezuela seem to be much higher than in most of the rest of Latin America.

Most Venezuelan SW stations are on the air from 1000-0400 UTC (6am to midnight, local time). They are much more likely to sign-on early than stay on late; several have 0900 sign-ons. That schedule gives North American DXers two chances at Venezuelan DX, the first from around your local sunset until 0400 signoff, and the second from 1000 until Venezuelan sunrise (which usually precedes sunrise in most of North America). On a good mid-winter day on the East Coast, it is occasionally possible to hear the

60MB Venezuelans as early as 2000, if there isn't too much interference from the Africans.

## The Stations

All of the "best bets" for Venezuela are in the 60 meterband. My two favorites, Ecos del Torbes on 4980 and Radio Tachira on 4830, are both in the city of San Cristobal on the Colombian border. Ecos del Torbes is so well heard that several years ago Radio Earth investigated buying transmitter time from them. The anti-Castro clandestine network La Voz del CID, took that a step further and actually did buy an hour a day for a while.

The most important station in Venezuela is Radio Rumbos, which operates two 100 Kw AM stations on 570 and 670 kHz, each from a different transmitter site. Rumbos is also the anchor station of Venezuela's largest radio network, and their newscasts, with a doorbell-like chime between each item, can occasionally be heard on other Venezuelan stations. Radio Rumbos also operates two 10 Kw SW transmitters on 4970 and 9660 kHz. The latter one is usually best heard in the mornings when the European QRM is gone. Few DXers, however, know that the two SW frequencies, like the MW ones, come from different transmitter sites, and thus may be counted as two separate stations. 4970, and 570 MW, come from the site in Villa de Cura, Aragua state, about 50 miles outside Caracas. 9660, and 670 MW, broadcast from the main site in the Distrito Federal. These transmitter sites are listed in the WRTH (although not PWBR) and have been confirmed by Venezuelan DXers who visited Radio Rumbos.

Elsewhere in Venezuela, Radio Continental on 4940 has usually been active and easy to hear since it began SW broadcasts about two years ago, although as I write this it has been off the air for a few weeks. Radio Valera on 4840 is much weaker, but can be heard with a little trying. Radio Los Andes, also called Radio Mil Cuarenta (1040) after its AM frequency, can sometimes be heard on 6011 variable, especially in the morning, but QRM can be a problem. Venezuela's all-Spanish international service can sometimes be heard on 9540 kHz, as long as the more powerful international

broadcasters make room for it. Of course, we shouldn't forget the Venezuelan version of WWV, YVTO on 5000 kHz. In the East, YVTO can be heard in the early evening before WWV fades in on 5 MHz. Otherwise you may have to do a little careful listening to get this underneath WWV. Finally, there are a lot of inactive Venezuelan's that occasionally turn on their SW transmitters for a few days, a few weeks, or even a few months. Some that have done that recently are Radio Libertador, 3245; La Voz del Tigre (Radio 980), 3255; Radio Mara, 3275; and Radio Maracaibo, 4860.

Venezuelan stations on the whole don't seem to be much better than the rest of Latin America when it comes to QSLing, but the more easily heard stations are generally good verifiers. Ecos del Torbes, Radio Rumbos, Radio Continental, YVTO, and Radio Valera all have their own QSL cards. Radio Tachira and Radio Los Andes are good letter verifiers. As usual, write a good, polite Spanish report, and include a few local souvenirs. Return postage doesn't appear to be quite as important with Venezuelans, as the stations are better off financially than many stations elsewhere in Latin America. Still, you could enclose some mint stamps or a dollar bill for extra insurance. As usual with small LAM stations, don't bother with difficult-to-exchange IRCs, though!

## One Man's Garbage Is Another Man's Treasure

Last month in "International Band Loggings", fellow editor Wallace Treibel had an interesting table of solar activity figures. He noted that K-indices of 1 or 0 are "best listening" and of 4 and 5 as "worst listening". That is usually true, especially for the higher frequency bands, but don't automatically write-off high K-indices. High K-indices also bring enhanced Latin-American tropical band and medium wave reception. So, the next time a geo-magnetic storm and high K-indices interfere with your reception of Radio Sweden or Radio Budapest, tune down to 60 meters, and give Latin America a try!

Hasta Luego! Don

# Listener's Library

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Welcome to the Library! I hope that your DX season so far has been as good as mine. The high points have been hearing a new RRI station (3934.7 Semarang) and having the privilege of hearing *The Voice of the South Atlantic*, Radio St. Helena. Many thanks to the Stora-Tuna DX Klub in Sweden and to Dario Montferini and Glenn Hauser for spreading the word.

## GOOD NEWS!

You may remember that last month I was complaining bitterly about major publishing houses only keeping "our kinda books" in print for about a year. I was particularly upset by the loss of *DXing with the Experts*, Ed Noll's *Easy Up Antennas* and of course, the close out of Helms' super *Shortwave Listening Handbook* by the publishing giant Prentice Hall. Well, the Library just received an interesting letter from Harry Helms. Harry thanked me for my comments in the October column and then went on:

"You know in those macho action movies how the hero, supposedly left for dead by the bad guys, suddenly shows up at the end to dispatch the villains? Same principle at work here. This year I asked for, and received back, the rights to *The Shortwave Listening Handbook* from Prentice Hall. Work is now finished (except for last minute changes to accommodate the RBI and ANARC situations) on the revised edition, renamed *Shortwave Listening Guidebook*. Enclosed are some page proofs for your review; the entire book has been produced on Macintosh systems using Microsoft Word, Quark Xpress page layout software, and a four-color scanner for halftones. The final page count will be 320 pages in a 6x9" format, and it will be in softcover. Expected arrival from the printer will be in January, and it will be available from leading SWL dealers and the other usual suspects. It will be a "DX/SWL Press" book from High Text, a new publishing venture in which I'm a partner." I'll send more details as the date approaches.

Well, all of that was really good news, and the page proofs that Harry included looked super. I sure look forward to the January, 1991 publication date.

## MORE GOOD NEWS!

Since Harry is a pro in both the writing and publication of "our kinda books," the latter half of his letter was even more interesting:

"On another topic, the reason why publishers are in so much distress has nothing to do with book inventories or tax laws; it's marketing-related. General interest (trade) book publishing is dominated by the major chain stores such as Dalton, Waldenbooks, Crown, etc. If they pass on a book, it's dead in the water. Established publishers have yet to figure out how to exploit niche and secondary markets instead of relying upon the chains. For example, I had to send sample copies of my Prentice Hall book to CRB, Universal, etc., myself since P\_H wouldn't do it despite several requests on my part. The advent of microcomputer-based publishing systems means that one needn't go to an established publisher to get a professional looking book; if you have to do most of the marketing effort yourself, why not just go ahead and publish it yourself? I think we're going to see a proliferation of these smaller "personal presses" in the years ahead. The result will be more books on more topics available, and that'll be good for all of us."

Well, thanks Harry. My own experience as part of the fine tuning's *Proceedings* effort tends to bear out your viewpoint. I also stopped to think about all the fine books from Tiare...from the Language Labs to the Coast Guard book, and the books from CRB Research, and some of the superb single book publishing efforts. My all time favorite of the single book efforts is Ray Moore's *Communications Receivers--the Golden Years*, and my current bedtime companion (well, my other companion!) is *How to Fix Nice Old Radios* by Ed Romney, also self-published. The list of currently or recently available books of interest to radio enthusiasts is surely at an all time high. The micro-publishing/niche publishing phenomenon is absolutely the best thing I've seen happen to the radio hobby in many a moon (and then there is Havana Moon and Moonbeam Press doing some superb work, Moon Publications out in California whose work will knock the eyes out of any Asia radio freq and Moon over Miami and... enuf, enuf!!

## BACK DOWN TO EARTH

The 'second hobby' of many of us is maps, cartography and geography. Several NASWans have checked in recently with more great suggestions related to maps and atlases. Ed Janusz has noticed a Revised Edition of *The Map Catalogue*. This is primarily a reference, listing map sources in dozens of categories from "jigsaw puzzles" to "congressional district boundaries." It's a gold mine for the researcher, but with many illustrations and a number of useful essays such as tips on choosing an atlas and an all-too-brief survey of the alternatives to the Mercator projection, *The Map Catalog* should be enjoyed by any armchair traveler or geography freak. It costs \$27.50.

If you're planning a vacation, it's always worthwhile to get a detailed map ahead of time, and this book will point you toward tourist-oriented maps and detailed street maps. (For the latter, Ed says that *Champion* does a good job across the USA). The "water maps" and "sky maps" sections will be valuable to utility DXers, and while the majority of the sources listed here are American and Canadian, SWBC DXers who need detailed maps of places like Peru will be guided to good publications and a host of retail outlets. This is one of Ed's favorite books.

Karl Forth of Chicago has also spotted an atlas of interest to our Latin specialists. The *Atlas Moderno Universal* is a handy paper-bound atlas entirely in Spanish. It features detailed maps of all Latin American countries, making it especially useful to DXers. There are also some interesting "differences." (The Falklands are labeled *Islas Malvinas* and shown as part of Argentina). The atlas also has good maps of European countries and the rest of the world, and is small and thin enough to make a good radio shack reference. Karl says that he's seen this atlas at Rand McNally book stores.

## A QUEST, A QUEST!

Our recent discussions of the two software packages which will draw azimuthal-equidistant world maps has generated a flurry of requests for sources of currently available wall-sized azi-equi maps centered on various major cities in North America. Joe Smolka of Albany, NY has a azi-eqi centered on NYC, published by NOAA 15 years ago. Joe said that the

beautiful old map needs replacement. He has wandered the halls of The Bureau of Land Management with no luck. Pete Tutak of Whidbey Island, WA wrote almost simultaneously about azi-equi maps published by the (U.S.) Defense Mapping Agency. Pete got his at a commercial map store in Seattle. I thought that we had scored a journalistic touchdown until I contacted DMA.... they no longer publish ANY azi-equi maps. Does anyone know a current source for wall sized azi-equi maps??? HELP!!!

## TO THE STACKS

Tom Daly of Pomona, NY wrote recently to highlight one of my own personal books called *Ring of Fire* by Lawrence and Lorne Blair. This is the story of two brothers who moved from England to Bali and spent 10 years wandering Indonesia. Their adventures included sailing with pirates, living among cannibals in Irian Jaya, investigating the spiritual world of Bali, visiting the Toraja people who believe their ancestors came from ancient starships, searching for the lost "dream-wandering" Dyaks in Borneo and finding and filming the Greater Bird of Paradise.

The book contains numerous color and b/w photos and is written in a very interesting, and entertaining manner. The Blairs frequently highlight the spiritual aspects of Indonesian life and this provides a different view of the people and their customs. Karl and I both highly recommend this book to all who are interested in adventure/travel stories in general and to Indonesian aficionados in particular. This story was televised by PBS in a 4-parts of their series called "Adventure."

A second suggestion from Tom (and from Kevin Atkins) is called *Equator* by Thurston Clarke and is the story of Mr. Clarke's 3-yr journey around the world by traveling on or near the Equator. In 1984 he started out in Brazil and went east through Gabon, Zaire, Kenya, Somalia, Indonesia, Abemana, Christmas Island, Ecuador and finished his trip back in Brazil. Along the way he met a lot of interesting local people, talking to teachers, truck drivers, doctors, government workers and even met the king of a South Pacific island and asked a lot of penetrating questions about these people's lives. The result is a book that presents a very realistic view of everyday life in a variety of third world countries.

Makower, Joel, ed. *The Map Catalog*. New York: Vintage/Travel Press (Random House), 1990.

Blair, Lawrence and Lorne Blair. *Ring of Fire*. New York: Bantam Books, 1988. (272 pp. \$24.95;

Clarke, Thurston. *Equator*. New York: Wm. Morrow & Co., 1988. (463 pp. \$20.95 or \$17.95 paper)

# Listener's Classroom

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**B**ack in September Dr. DX began his last Listener's Classroom with the statement, "Strange things happen sometimes." Well, whether he knew it or not then, a strange thing was about to happen to me.

On Bastille Day 1972 my wife and I were living in Morocco in a little town not far from Tangier. I'd been in the Navy about nine years and knew a little about electronic communications. On that hot sultry day we wandered over to the new store that had opened out at the transmitter site. (Yes, fearless UTE DX'er, our call was "CNL" but couldn't reply to reception reports!) There I saw a Zenith TransOceanic D7000Y and have been in the hobby ever since. Although I don't use it anymore, I still have that one receiver out of the many that I've gone through over the years.

A few months later the Arabs and the Israeli's went at it again tooth and nail, fang and claw. Our local AFRS station prudently would not air the news concerning the flare-up and I had found out enough by then, thanks to NASWA, especially Dan Ferguson, to tune in VOA, the BBC, and others to keep score. The Moroccan contingent was slaughtered to the last man and we feared for our safety. But, we went through the first of many tense periods, and the TransOceanic kept us up-to-date. During the latter part of my Moroccan tour I'd started my own DX NewsLetter which the base newspaper dutifully published twice each month.

After returning to the States I got a call from Dan F. and Ed Shaw who convinced me that I should try my hand at editing "Short Wave Center," as it was called then. Al Niblack was editing FLASHSHEET and NASWA dues were only \$10.00 per year. I

began my first column in January 1975 and handed it over to Jerry Lineback in September as I was off to Sardinia. Incidentally, Charlie Loudenboomer was the rage and Larry Magne was the "Clandestine Bulletin" editor. Bob Zobot, whom I met at the recent ANARC/ARO Convention in Virginia Beach, was the QSL editor.

By the time ANARC allowed as how I could handle the job of Chairman of the Frequency Recommendation Committee my wife was reading up on how to sue for alienation of affections. (Now that I have a computer, she is reviewing her notes.) When I became Utilities Editor with DSWCI her eyes flashed so fast I thought it was morse code via flashing light and was going to use it as a log entry....

"Politics, religion, and sex have often been regarded as 'forbidden' topics," I naively began. "... (If the subjects have anything to do with short wave, send it in...and if it is printable, I'll print it." Well, that still stands. "Print, write, type, draw - I do not care how you get the information to (me), but get it here!" Especially from the new NASWA members with your questions and comments.

I can take mail through the fearless USPS, CompuServe, GENie, even through NASWA HQ, just get it to me. If I can decipher your writing, you get published in this column! As a middle school teacher I've seen plenty of writing styles!

And that's the strange thing that has happened to me: I'm back in the pages of FRENDEX -- oops! I mean The Journal and I'm glad to be home again...and, coincidentally, nine years after retiring from the Navy. Some things just go full circle. 73'!

We occasionally get letters from members asking about utility DXing. Here is a list of major clubs in North America that have columns devoted to utilities. Samples are \$2

Association of DX Reporters, 7002 Plymouth Rd., Baltimore, MD 21208  
Canadian Intl' DX Club, 79 Kipps Street, Greenfield Park, Quebec, Canada J4V 3B1  
Ontario DX Association, P.O. Box 161, Station 'A', Willowdale, Ont., Canada M2N 5S8  
SPEEDX, P.O. Box 196, DuBois, PA 15801



# Technical Topics

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## JUST THE FAX, PLEASE

This month's column is an anniversary of sorts for me. It was about this time one year ago that I wrote a column from the relative discomfort of my motel room. The Loma Prieta Earthquake had destroyed my home. Your letters, calls, and personal well wishes were overwhelming, and the memory of those kind acts will stay with me always... as will memories of the loss, destruction, and suffering I saw around me. Please do me a favor and take a moment to remember those who didn't get through the quake as well as I did.

In September we took a look at an enjoyable and less often seen side of shortwave listening - RTTY. This month we are going to move into what I believe may be the most unusual and interesting aspect of shortwave listening: FAX reception.

In these modern times the name "FAX" has become almost common place. You can send FAX messages from the local drug store to someone who is presumable as anxious to receive it as you are to send it. You may not realize it, but you are using technology that has evolved over 70 years, not counting the other advances its progress depended on.

### What Does "FAX" Mean?

FAX is actually an acronym for "facsimile," which of course means a copy of something. Back in the 1920's news of important events could be sent across the country in a matter of hours, either by telegraph or by radio. But pictures of events lagged the news by *days*. Photos taken at the scene were rushed by trains (which often contained darkrooms for the purpose) to the opposite coast. In some rare cases the photos were developed and flown all the way by airplane. Either way, thought, it could take up to eighty hours (roughly 3 1/3 days) for the photos to get there. After the San Francisco Earthquake of 1906, it

took over five days for photos of the disaster to reach New York. For a public anxious to see what was being reported, this was intolerable. As with almost all advances in technology, American ingenuity rose to the occasion. A device was invented that would allow a photo to be scanned and converted into electrical impulses. An identical unit could receive the electrical pulses and convert them back into a facsimile, or copy, of the original. With a relatively decent phone system already in place, it was a marriage made in heaven.

What the Teletype<sup>®</sup> did for printed matter, the FAX machine did for pictures. Still, the new machines were very complicated and expensive, and coordinating the sharing of photos between newspapers was difficult.

### AP Wirephoto<sup>®</sup> And FAX Come Of Age

In an attempt to improve the situation, the Associated Press Wirephoto Service<sup>®</sup> was created. Originally a syndicate of about 12 newspapers, the service was able to supply papers across the country with photos of events *as they occurred*. The original network consisted of about 40 FAX units. One of the first photos sent on the network was a munitions explosion that occurred only one hour after the system was put into operation!

As with Teletype, FAX machines were soon connected to radio networks, making international news photos a reality. It is hard to imagine what it must have been like before this time, having to wait *weeks* for photos of events in Europe.

### How Did It Work?

Until the advent of the microcomputer, all FAX machines worked on a revolving drum principle. Each machine had a stainless steel cylinder, with two springs that functioned as "rubber bands" to hold the photo wrapped

around the cylinder. A high-intensity light source was focused on the drum, with the reflection picked-up by a phototube (a non-solid state photocell). As the drum revolved, the light source and phototube travelled on a carriage across the width of the photo. Each little "pixel" of light and dark in the photo created a corresponding electrical signal. It was all either black or white, with no shading inbetween. Since press photos were all printed in black and white anyway, this presented no problem. At the other end, an identical machine would be set to "receive," and in place of the photo, a special thermal paper was placed on the drum. The drum would revolve in synchronization with the sending unit, and as the carriage on the receiving unit moved across the paper, the incoming electrical signals were converted into electrical *discharges*. Each discharge would turn the FAX paper black. A photo could take up to five minutes (depending on size) to send. There were obvious drawbacks to this system. There was a rather severe limitation on the size of photo that could be sent (around 6"x6" was common), and of course color photos wouldn't travel at all well.

### Room For Improvement

The development of the microprocessor chip revolutionized many areas of electronics, and none benefitted better than FAX technology. The modem made it possible to send very complicated data quickly at very high speeds. The microprocessor also made it possible to synchronize the sending and receiving of photos at the new, higher speeds. The modern FAX can send entire sheets of documents and photos, as well as material that isn't even printed before it's sent. This means that satellites can send photos of the Earth, taken by an electronic "camera," and send these to ground stations in a matter of minutes. Very highly detailed photos can be sent. Ground stations, too, can send weather charts across the globe. Here is where the fun comes in. We, too, can receive these photos and charts with comparatively simple and reasonably priced systems!

### What Can You See On Shortwave?

What can you copy from the shortwave bands? An absolute wealth of information is sent on regular schedules all over the world. Press photos have already been mentioned. In

addition to these there are WEFAX weather charts, sent by the National Weather Service, and GOES satellite photos - infrared and visible light photos of the Earth taken by geostationary satellites. Reception of all this is free for the taking.

### Real World Examples

We will examine two commercially available FAX decoding units, which will give you a good starting point to do some comparison shopping. I should note that I do not have any interest in either manufacturer, and receive no compensation for discussing their products.

### PC HF Facsimile™

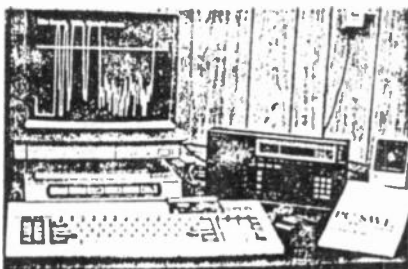
Easily the most inexpensive FAX system available is the PC HF Facsimile™ system, supplied by Software Systems Consulting, 1303 S. Ola Vista, San Clemente, California 92672. Don't let the suggested price of \$99 plus tax and shipping fool you. This system is surprisingly good! The unit consists of a demodulator, which plugs into the serial port of your IBM® compatible computer, and software to be loaded into the computer. The kit also includes a cassette tape of instructions and sample FAX signals to make recognizing the real thing easier. The secret of this unit is the demodulator. It is totally contained in a DB-25 plug/cover assembly, and receives its power from the computer. Coming from the connector is a two-conductor cable that terminates in a miniature phone plug, ready to plug into the earphone jack of your receiver. It is recommended that you purchase a "Y" fitting, so that you can listen to the received signal as you tune the system.

### Novel Features

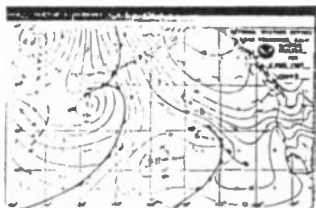
The most novel aspect of this system is that it provides a tuning oscilloscope right on your computer monitor! As you may recall from previous columns about RTTY, a tuning scope is almost a necessity, and the same is true for FAX. To receive a FAX transmission, you simply tune a signal (active frequencies are provided with the system), use the on-screen menu to set parameters, and sit back and watch while your monitor fills with a picture. The picture can be saved on disk. Another useful function is the "autostart" feature. Once you have found a favorite frequency, you can count on transmissions at regularly schedule

times. With autostart, you set all the parameters ahead of time, and the system will automatically copy each picture that is sent until the command is cancelled. No more staying-up until the wee hours of the morning to set things up.

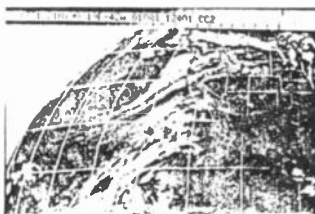
Software Systems Consulting also offers a PC-SWL™ system (also \$99.00), that allows the reception of RTTY and CW signals with many of the same features as the HF-FAX. PC-SWL also has an on-screen tuning scope, and in addition has a spectrum display, that allows you to analyze the RTTY signal being received. A supplied software algorithm can be called-up a the touch of a button, and automatically calculates the speed, shift, and type of most received signals, and configures the system for these settings. The following three photos are courtesy Software Systems Consulting.



**PC HF Facsimile™ Display**



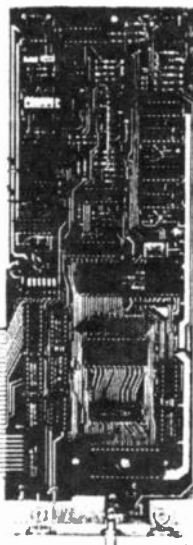
**WEFAX MAP**



**GOES MAP**

### **M-1000**

The second system we will examine is a new offering from Universal Radio, 1280 Alda Dr., Reynoldsburg, Ohio 43068. Universal Radio has long been known for the professional-grade M-900 and M-7000 stand-alone FAX/RTTY/CW units. The M-1000 is an "internal board" system, meaning that you actually install the supplied circuit card into your computer's expansion slot. At \$399.95 the unit does just about anything you could want, including CW, RTTY (Baudot, Sitor, ARQ, and ASCII), Packet, and FAX. It is easily the most complete system for the price available today. The supplied software includes on-screen menus, status indicators, and help menus. Through the use of ROM upgrades, future coding schemes can be added as available by simply plugging a new chip into the board.



**M-1000 Circuit Card**

# Special to the *Journal*

To submit feature articles, contact  
**Dr. Harold Cones**, Editor-In-Chief  
2 Whits Court, Newport News, VA 23606

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## A Review of Fine Tuning's PROCEEDINGS 1990

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By  
Richard A. D'Angelo

After watching the Fine Tuning gang issue two block buster hobby related resource books in 1988 and 1989, I decided to infiltrate the organization for an inside look at the Fine Tuning Special Publications editorial process. Writing for PROCEEDINGS is not a casual affair. The Fine Tuning editorial process requires authors to be mentally and physically tough because the review process is very demanding. I contacted John Bryant concerning a potential feature about shortwave radio broadcasting in Guatemala. By the time we finished discussing the project, the article was expanded to include all of Central America! **Be careful when dealing with Mr. Bryant!!**

The rigorous editorial review process is quite impressive. All manuscripts go to Dave Clark for distribution to the Editorial Review Board members assigned to your feature. In my case experts such as Gerry Dexter, Don Jensen, Don Moore, Mitch Sams along with Messrs. Bryant and Clark reviewed my article on technical merits. The big red pencil of Fritz Mellberg rounds out the team. Fritz reviews every article submitted to PROCEEDINGS for spelling, grammar and other editorial niceties. He is fondly known as "the chopper". This team provides quite a bit of professional level input. This process pays huge dividends when the final product is ready for publication.

All PROCEEDINGS authors are subjected to the same level of detailed review. Different Editorial Review teams are put together depending upon the subject matter. Some of the top names in the hobby are among the participants in reviewing PROCEEDINGS articles. Other members of the 1990 Editorial Review Board are Guy Atkins, Nick Hall-Patch, Bruce Portzer, Chuck Rippel and Harold Sellers. Bryant once described the editorial review process as a humbling experience. I couldn't agree with him more.

Without a doubt, Fine Tuning's PROCEEDINGS series is the technical reference work for the shortwave hobbyist. The 1991 edition is already on the drawing board - these guys don't waste much time. PROCEEDINGS 1990 is one item that should be sitting on every hobbyists bookshelf. What follows is an individual look at each of PROCEEDINGS five main sections.

### **PROPAGATION (60 pages)**

Once again, PROCEEDINGS continues to present serious, in-depth propagation issues that hobby bulletins can't begin to touch. "Notes On Tropical Band Propagation" is more like a book within a book. It is split into three sections (perhaps chapters would be more appropriate description). In this monster of an article, propagation experts John Bryant and David Clark discuss some new theories which challenge the multi-hop theory of HF propagation. In addition, the authors suggest that seasonality patterns experienced by Tropical Band DXers may be associated with ionospheric conditions taking place at the transmitter, not the receiver. Finally, excerpts from propagation research conducted by Yuri Blantarovich are presented and discussed which again attacks the traditional multi-hop model of sky wave propagation. This article opens up new vistas concerning propagation theory.

### **ANTENNAS (14 pages)**

This year only two articles appear in this section. While the quantity is low, the quality is superb. Guy Atkins discusses the terminated, tilted, folded dipole (T2FD) antenna which is a little known antenna that is an excellent performer. The other feature by Joe Farley and Mitch Sams addresses shortwave direction finding using a small indoor loop antenna developed by Farley. The antenna is impressive. This section shouldn't be ignored.

### **RECEIVERS (39 pages)**

Another year and another banner crop of receiver related articles. Some things never change! Five articles provide PROCEEDINGS readers with an interesting variety of information. Only one traditional receiver review, the Kenwood R-5000 by Don Moore and Kent Willis, appears this year. Gene Pearson discusses ECSS reception while Craig Siegenthaler talks about synchronous detection. Gordon Darling presents a compendium of modifications for the popular Sony ICF 2010/2001D portable receiver.

Perhaps the most unique article this year is the feature about collecting and restoring antique communications receivers by Chuck Dachis. Some very nostalgic gems appear in this article which tube radio fans will appreciate.

#### PERIPHERAL EQUIPMENT (13 pages)

This year's toys and gadgets section features an improved keypad control for the NRD 525 by Guy Atkins; a high quality, low cost cassette deck suitable for DXpeditions by Chuck Mitchell; and a review of the Datong FL-3 Multimode Filter by Rowland Archer. The Datong filter offers the serious DXer a fast, practical method of notching out heterodynes. Rowland takes the reader from set up to operation.

#### FEATURES (74 pages)

If the technical aspects of the hobby do not interest you, this section of PROCEEDINGS will make your purchase worthwhile all by itself. This section is my favorite because I'm only mildly interested in technical aspects of the hobby and my article about DXing Central America appears here. PROCEEDINGS offers a forum for publishing long articles that would take months to serialize in a DX bulletin.

This year's line up of feature articles is quite impressive. Moore and Bryant take us on a tour of "The Library As A DX Reference Tool" where they reveal the wealth of useful and interesting hobby related information that can be found in public and university libraries. Bruce Portzer relates his impressions of "International Medium Wave DXing From Western North America" which includes a country by country breakdown of what can be heard from the west coast. For those that like to pack a shortwave radio when travelling, Rowland Archer's "DXing On The Road - A Compendium of Advice, Tips and Techniques" is essential reading. This article expands upon a Archer's "DXers Forum" feature that appeared in the NASWA Journal. Possibly the biggest adventure in the entire book is "An Introduction To DXpeditions - A Compendium" by Nick Hall-Patch. Generously illustrated with photos of prominent DXers on DXpeditions, this article should inspire hobby couch potatoes to DX in the great outdoors. Closing out PROCEEDINGS 1990 are two articles about shortwave radio in exotic locations. The first is my article called "A DXers Tour Of Central America" which is a country by country review of the six Central American countries where shortwave broadcasting exists. The second is "Shortwave Radio From The African Sahara And Sahel" by Harold Cones in which Northern Africa and shortwave broadcasting from that region is discussed.

This year's line up of "Features" is very impressive and should satisfy the pallet of the serious shortwave listener.

#### Quality Customer Service Too

Generally, the two most important aspects of any purchasing decision is the product itself and the support the purchaser receives after the sale. In quality customer service the Fine Tuning gang excels once again. This year's first print run had a sequencing page problem in one article. The required solution was reprinting and distributing a new page to the early purchasers. The Fine Tuning crew was on top of the situation. At Fine Tuning's expense, corrected pages were in the hands of most readers before they knew a problem existed. Not bad, eh?!

#### Is PROCEEDINGS Worth The Price?

I've ended each PROCEEDINGS review with the same question. This year's answer is no different than prior years - Definitely, yes!

PROCEEDINGS 1990 costs US\$19.50 plus US\$2.00 postal costs in North America. Outside North America surface book rate postage is US\$3.00 and small packet airmail is US\$15.00. Make checks or money orders (US funds on a US bank only) payable to:

Fine Tuning Special Publications  
c/o John H. Bryant  
RRT #5, Box 14  
Stillwater, OK 74074 U.S.A.

As sales of PROCEEDINGS grow, so does the demand for prior editions. To meet this new demand, the Fine Tuning Special Publications crew decided to print a limited run of 1988 and 1989 editions of PROCEEDINGS. If you are new to the hobby, or missed the first two editions, now is the time to act. The 1988 premier edition comprised approximately 200 pages of material. The 1989 edition used a photo reduced format that was the equivalent to nearly 300 typewritten pages. Both are destined to become collector items. Pricing is identical to the 1990 edition.

Without question, the PROCEEDINGS series is the finest hobby reference work that DXers can develop for DXers.

# Listener's Notebook

**Bruce MacGibbon**  
2295 Juniper Avenue  
Gresham, OR 97030



**COPYRIGHT NOTICE** - BBC Monitoring Service Items (WBI for World Broadcasting Information) are copyright and may not be reproduced without BBCM permission.

**DXER'S DATES** - Eric Swedberg, Portland, OR requested such a feature and from this month on, it will appear monthly. For some countries, the holiday was shown with no name.

ALBANIA - Liberation Day - 29/11	BENIN - 30/11
COTE D'IVOIRE - 7/12	FINLAND - Independence Day - 6/12
MAURITANIA - Independence Day - 28/11	MOROCCO - Independence Day - 18/11
OMAN - National Days 18-19/11	SURINAM - Independence Day - 25/11
YUGOSLAVIA - 29/11	

**ANTARCTICA** - PY2KAO is a marine scientist with an expedition to the Antarctic. His ship will be operating about 360 miles southwest of the Argentine Base Esperanza. Transmissions from the sailing vessel Paracay (were supposed have been going out on Saturdays from 20/10, 27/10, 3/11) and the last one mentioned was 10/11 at 1500 and 2000 UTC on 21200 kHz. USB plus or minus 3 kHz. The operator's reports will start in Portuguese on the hour and in English at ten minutes past. Reception reports will be welcome at Box 9562, 01032 Sao Paulo, Brazil. (Robert Weltmeyer on Radio Nederland's 'Media Network' program on 10/10 via Mike Fern, Covina, CA)

**ANTIGUA** - BBC Antigua relay on 6110 heard 02-0215 in EG and 0215-03 PT (not in PCWBR 91), in addition to 03-0430 SP. (Mike Fern, Covina, CA)

**ARGENTINA** - RAE's program in JP has been cut to five days a week, Mon-Fri at 10-1055 on 11710 kHz. SP is heard on weekends. (Yoshiaki Hayashi on Radio Japan 'DX Corner' 14/10 (The Sunday program is a relay of LRA1. - Fern) (via Mike Fern, Covina, CA)

**AUSTRIA** - Radio Austria Int'l Sked to 4/91: Report from Austria (25 minutes) is broadcast every day and begins-with some exceptions on Saturdays and Sundays(\*) - at the following times and on the following frequencies:

	UTC	Frequencies (kHz)
Europe:	0530, 0830	6155, 13730
	1130* 1430*	6155, 13730, 21490
	1730 11930	6155, 5945
Middle East:	0530	15410, 21490
	1730 1930	12010
Africa:	1430*	21490
	1730 1930	13730
Asia:	1130* 1330	15430
	1430*	11780
Australiasia:	0830	15450, 21490
North America	0130	9875, 13730
	0530	6015(via RCI)
	1130*	21490
South America	0130	9870

\* Austrian Coffeetable: Entertainment-mainly music of all styles but also the other arts (Sat 1130, 1430 UTC)

\* Australian Shortwave Panorama: A look at developments in communications and DX-news (Sun 1130, 1430 UTC) (via John Carson, OK)

**BRAZIL** - Brazil's EG program to NA still on 11745 but 1100 instead of 0200 & to Africa at 1800 on 15265. (Antonia Ribeiro de Motta via Glenn Hauser on

RCI's 'SWLD' on 21/10)

Brazilian reception is now reaching its peak for listeners based in the Pacific region. Some of the stations recently audible include:

Radio Aparecida on three frequencies: 5035, 6135 & 11855 with Christian Religious broadcasts from sign-on at 0800. A fourth frequency, 9630, is also active but is a difficult catch due to interference from various other stations.

Radio Gaucha, Porto Alegre is heard on 6020 at 0840, which is now a clear channel due to Radio Australia's Brandon Transmitter now operating elsewhere during this time period.

Radio Bandeirantes, Sao Paulo is noted on 9645 with good signals at 0850. The parallel channel of 6090 can also be observed on some occasions.

Radio Guaiba - is noted at 0815 on 6000, running parallel with its 25 metre band channel of 11785. (via Radio Australia's 'Japanese DX Time' on 13/14/10 program edited by Craig Seager of the "Australian Radio DX Club.")

CAMEROON - The West African country of Cameroon has been widely heard in the Pacific region recently, during our local morning period. John Lemmon of Victoria (Australia) reports hearing the station at Yaounde, the nation's capital, on 4850 with English news at 2100. Meanwhile, Craig Seager is hearing the regional station at Baffoussam on 4000, with a relay of the French news bulletin from Yaounde at 2010. (via Radio Australia's 'Japanese DX Time' program on 13/14/10 edited by Craig Seager of the "Australian Radio DX Club.")

CANADA - Ernie Behr, Kenora, Ontario says the best time to hear the Vancouver stations is after 0600 UTC. CKFX on 6080.1 & CKZU on 6160. (via Glenn Hauser on RCI's 'SWLD' 21/10). Of course in the Pacific Northwest, I (bmm) can hear CKZU all day & usually good up till around 0700 then seems to fade out, so that at 0830, I can hear CKZN in St. Johns, once again.

5800, RCI mixing product(?) of FR service heard here at 0205//11940 and 9535 on 1/10. Can anyone explain this? (Hans Johnson, MD)

CHINA - Beijing PBS (relayed by Yunnan) on 4760 has an EG-CH conversation program between 1530-1555. These programs were produced by Radio Canada. (Arthur Cushen on Radio New Zealand Int'l 'Mailbag' program on 15/10)

China People's Broadcasting Observations on 1515 UTC on 18/10 using WRTH 90 as a guide:

CPBS-1

4460  
5320  
5860 (Not Heard)  
5880  
5915 (Not Heard)  
6125  
6750  
6840  
7504  
7525 (Not Heard)  
7935  
9080  
9800  
10010 (Not Listed)

CPBS-2

4250 (Not Heard)  
4800  
5075 (Not Heard)  
6890  
7440 (ex CPBS-1)  
7516 (ex CPBS-1)  
9064 (ex CPBS-1)  
9400 (Not Heard)  
9775

12360NF, 1515, CPBS-1, CH music//6040NF on 23/10 & note 11505 CPBS-2 is not being heard in late afternoons here or late evenings. Will have to check some more on this long-time excellent CPBS-2 frequency. (bmm)

Jiangxi People's Broadcasting Station (PBS) Sked:  
Times(gmt) & days..Language, programmes, targets..Frequencies kHz/MHz/GHz

2105-\*\*\*\* smtwtf Chinese-Std .....Dom 5020,2445,1350-uncon-  
firmed,729-unconfirmed

2105-2110 smtwtf Sign-on announcements  
and programme preview

2125-2130 smtwfts News  
 2130-2200 smtwfts English language lesson  
 2200-2215 smtwfts Programme for rural listeners  
 2230-2300 smtwfts News (national hook-up)  
 2300-2320 smtwfts Provincial News  
 2345-2400 smtwfts Financial programme  
 0030-0040 smtwfts Financial programme  
 0040-0045 smtwfts News  
 0200-0220 smtwfts Provincial News  
 0400-0410 smtwfts News  
 0410-0425 smtwfts "Economic World"  
 0500-0515 smtwfts Programme for rural listeners  
 0600-0610 smtwfts News  
 0850-0900 smtwfts Programme preview  
 0950-1000 smtwfts Financial programme  
 1100-1120 smtwfts News (provincial hook-up)  
 1145-1200 smtwfts News(national hook-up)  
 1300-1320 smtwfts News(provincial hook-up)  
 1330-1400 smtwfts English language lesson  
 \*\*\*\*-1500 smtwfts

(via WBI 19/10)

Qinghai PBS - Craig Tyson, Western Australia has been monitoring some of the Chinese regional stations in recent weeks and reports reception of the Qinghai Peoples Broadcasting Station on 6500. Reception was from tune-in at 1430, until sign-off at 1452, with Chinese language programming. Sichuan PBS in Chengdu was observed on 7225, also in Chinese. Reception of this station was at 1045. (via Radio Australia's 'Japanese DX Time' program on 13/14/10 edited by Craig Seager of the "Australian Radio DX Club.")

Voice of Pujiang, Shanghai Sked: For Listeners in Taiwan - \*0955-1550 on 4950, 3990, 3280. (via WBI 12/10)

Sichuan People's Broadcasting Station (PBS) First Pgm, Chengdu Sked:  
 During summer time in China, all programmes will be broadcast one hour earlier than shown.

Times(gmt) & days..Language, programmes, targets..Frequencies kHz/MHz/GHz

0345-\*\*\*\* smtwfts Chinese-Std .....Dom 7225,6060,1116,909-uncon-  
 firmed, 612-unconfirmed,  
 99.8, 98.8, 95.2, 92.4  
 0500-0505 smtwfts News  
 1000-1010 smtwfts News  
 1015-1030 smtwfts News (provincial hook-up)  
 1030-1040 smtwfts "Economic Life"  
 1130-1200 smtwfts English language lesson  
 1200-1230 smtwfts News (national hookup)  
 1230-1250 smtwfts Programme for rural listeners  
 1300-1305 smtwfts News  
 1400-1500 smtwfts "From all over the country"  
 1500-1510 smtwfts News  
 1510-1515 smtwfts Programme preview for following day  
 \*\*\*\*-1515 smtwfts

(via WBI 19/10)

CONGO - Brazzaville is active again on 90 metres, and French transmissions are currently providing strong signals on 3265 at 2100. The parallel frequency of 4765 is also audible on most days. Usage of 5985 appears to have been discontinued. (via Radio Australia's 'Japanese DX Time' program on 13/14/10 edited by Craig Seager of the "Australian Radio DX Club.")

4765, Congo Radiodiffusion Congo at 2320 w/Hi-life music and some announcements in FR. Much thanks to tip in 'Fine Tuning' #473. ID and freq announcements at 2355. Good signal and modulation. Anthem heard at 2358 on 27/9. (Hans Johnson, MD)

COSTA RICA - Radio For Peace Int'l announced that the frequency 13605 has been extended. Would like reception reports on that frequency. (bmm)



CUBA - 5025, Radio Habana in SP and Radio Rebelde mixing here at 0130 on 11/9 with Radio Habana coming out on top. (Hans Johnson, MD)

CYPRUS - 6150, 1627, R. Bayrak, Yeni Iskele, advertisements in Greek including one for Eno. 1630\* rather abruptly. (Jerome Van der Linden, Saudi Arabia, via Craig Edwards column 'Shortwave Survey' in 'Southern Cross DX Club's "DX Post")

ECUADOR - From November 3rd, HCJB's 'DX Partyline' to extend to 45 minutes. (Thanks to Joe Hanlon, NJ for telephoning me & Mike Fern, Covina, CA)

3332, - New station uses the slogan "Radio Cumanda" (accent on the last syllable). "Cumanda is the title of a famous novel about Ecuador's eastern province. The announced freq is 3990 kHz. The city of Coca is also listed as Puerto Francisco de Orellana on old maps. (It's just east of the big fork of the Napo river, if you have a small map. - Fern) (Richard McVicer, Host of HCJB's 'DX Party Line' via Mike Fern, Covina, CA)

15015, HCJB Mixing Product. Hearing both the 6050 kHz and 11775/15155 kHz programming on this channel at 0210 on 11/9. (Hans Johnson, MD)

EGYPT - 9720, Sowl Al-Arab. Caution here. This is what my tentative logging of Radio Mecca turned out to be. Heard at both 2100 on 8/9 and at 0220 on 21/9. Jammer still operating on 9720. (Hans Johnson, MD)

FEDERAL REPUBLIC OF GERMANY - Deutsche Welle at 0015 wasting no time in taking over the old Radio Berlin International transmitters. DW was heard on this freq as well as 13770. Both were in // w/15410 kHz with GM programming on the happenings taking place in Germany on this day of reunification on 3/10. (Hans Johnson, MD)

Deutsche Welle heard in German on 25740 kHz from 11-1350. (Arthur Cushen on RNZ1 'Mailbag' program on 15/10 via Mike Fern, Covina, CA) & DW has added three frequencies to its Japanese transmissions at 1200 UTC: 11970, 15400, and 21465 kHz. The first two are useless in Japan because of heavy QRM. 113760 kHz. is the best of the five older frequencies. (Yoshio Kobayashi on Radio Japan 'DX Corner' program on 14/10 via Mike Fern, ibid)

HUNGARY - The Radio Budapest DX Channel has two separate scripts, one at weekends and one on weekdays as heard 1-15/10. (Mike Fern, Covina, CA)

INDIA - 3330, 1604, Radio Kashmir, Leh. Heard here in possible Hindi with male talks. (Jerome Van der Linden, Saudi Arabia via Craig Edwards 'Shortwave Survey' column in 'Southern Cross DX Club's', "DX Post")

INDONESIA - RRI Ternate 3345 is verifying via Rusday Bachmid (CIDX); RRI Manokwari 3985.6 is verifying via Nurdin Mokoginta, Kepala Stasiun. (CIDX), and RRI Manado 3125 are verifying via Drs Sonny Kasenda. (Allen, Fine Tuning) (via Craig Edwards 'DXPRESS' column in the 'Southern Cross DX Club's' "DX Post")

3304.5, Dili Timor, closing at 1550 after non-stop music. (JE in 'Shortwave Bulletin' Sweden via Glenn Hauser on RCI's 'SWLD' on 21/10)

3945.7, 1340, RRI Denpasar. Fairly good in Indonesian on 28/9 with male talks and lagu pops. (Craig Edwards, Salisbury, S.Australia via Craig Edwards 'Shortwave Survey' column in 'Southern Cross DX Club's', "DX Post")

4874.6, 1105-1130, RRI Sorong, EG on a Sunday. (Chuck Bolland, FL. via Glenn Hauser on RCI's 'SWLD' on 21/10)

IRAQ - Comment from Dr. Kim Andrew Elliott at ANARCON September 15, 1990 on Iraqi jamming of VOA AR broadcast: "Iraqi jammers are skywave only and are only on USB." He also suggested that this allowed the Iraqis to monitor the broadcasts. Not a bad idea as I cannot imagine the average Arab having a radio with SSB capability. He added that initial feedback indicated that VOA in AR was getting through to the Middle East in spite of the jamming and numerous frequency changes. (Hans Johnson, MD)

6055, Radio Baghdad AR Service 0135 now using this frequency in addition to 13620 and 15490 on 27/9. (Hans Johnson, MD)

11830, Radio Baghdad, EG, 0135 anti-US tirade heard on 27/9. As noted by others, this station signs on late. On the previous night, I waited on this frequency till 0200 without hearing a thing. (Hans Johnson, MD) (I, suppose you mean sometimes signs-on late? - bmm)

11860, 1020, Radio Baghdad, Baghdad. Very Good here in EG on 24/8 with easy listening music and the character "Baghdad Benny" with anti-US propaganda and anti-Saudi announcements. (I guess that gets the ol' heart pumping as you listen to that in downtown Riyadh Jerome - Craig) (via Craig Edwards, 'Shortwave Survey' column in 'Southern Cross DX Club's', "DX Post")

11990, Medina Radio. At 2125 station ID as "Itha' Medina Munawara. My Hans Wehr dictionary defines "munawara" as an epithet of Medina. The word itself means enlightened or bright. The ID was followed by a short commentary on the sacking of General Dugan, the Air Force Chief of Staff. News was the next program at 2130. There was no sign of any jamming and reception was good. With local time being 1:30 A.M. however, I wonder how large their audience in the Arabian Peninsula is. A quick check of former Radio Kuwait frequencies did not reveal any //'. One tires very quickly of the recurring theme of this station and in fact of all Iraqi broadcasting these days. That is, one of Zionist aggression and American imperialism and Colonialism being responsible for the current situation in the gulf. Martial music and anti-American poetry shortly before the hour. Poetry has a long tradition in conflicts in the Arab World. It's use dates to pre-Islamic time when tribes in the Arabian Peninsula held "poetry contests" as a means of settling disputes. Heard this on 9/20. (Hans Johnson, MD)

12025, Radio Baghdad 0302 sign on followed by AR news about a minute later. //15495, 13610(best), 15245 (hum and an old VOA-AR freq.). ID halfway through the news. 15495 co-channel QRM from tentative Sout Al-Arab. First newscast of the day and it was every bit as much commentary as news. Main points of the news repeated at 0327. British magazine claims that 30 "Zionists" pilots were flying F-15's and F-16's in the Gulf region was a typical news item. Kuwait referred to as Kuwait province. AR music followed on 16/9 (Hans Johnson, MD)

15490, Radio Baghdad move from 15495 on 26/9 to avoid Saudi co-channel. First time I have noted a former Radio Kuwait transmitter being used on a frequency other than one formerly used by Radio Kuwait. //13620 at 0233, both with excellent signals. Different transmitter sound from the 12025 direct from Iraq, which was also weaker. (Hans Johnson, MD)

ITALY - Radio Marconi International in Taranto is conducting a series of test programs, Mon-Sat from 0530-07 and on Sundays from 0615-0845 on 11390 kHz. Reception reports should be sent care of Antonello Napolitano, via Argentina 78, 74100 Taranto. (Arthur Cushen on RNZI 'Mailbag' program on 13/10 via Mike Fern, Covina, CA)

JORDAN - 9560, 1850, Radio Jordan, Al Karanah. Fair in EG on 27/8 with female talk, pop music and weather bulletin. (Jerome Van der Linden, Saudi Arabia via Craig Edwards 'Shortwave Survey' column in 'Southern Cross DX Club's', "DX Post")

KASHMIR - 3665, 1903, Azad Kashmir Radio, Muzzafarrabad. Poor in Urdu presumably on 6/9 w/male talk and background chanting also noted bubble jamming. (Jerome Van der Linden, Saudi Arabia via Craig Edwards 'Shortwave Survey' column in 'Southern Cross DX Club's' "DX Post")

LUXEMBOURG - RTL International English Service, Luxembourg Sked - Times(gmt) & days..Language, programmes, targets..Frequencies kHz/MHz/GHz

0000-****	smtwtfs	English	Eu.....Dom	15350,6090,1440	VHF/PM
0300-----	smtwtfs	Frequency change		15350	
1815-----	s.....	Frequency change		15350,1440	VHF/PM
1900-----	.smtwtfs	Frequency change		15350,1440	VHF/PM

(News summaries on the hour)

\*\*\*-2400 smtwtfs

(via WBI 19/10)

MONGOLIA - Mongolian Radio reduces relays of Radio Moscow's Mongolian service - TASS news agency, Moscow in Russian 0855 gmt 4 Oct 90. - Text of report from Ulan Bator.

According to a decision by those in charge of Mongolian Radio, the time for the relay of radio broadcasts from Moscow has been cut by 100 minutes. Broadcasts from Moscow, compiled by the staff of the Mongolian-language broadcasting section of USSR Gosteleradio, have been going on for almost

*A NASWA Exclusive!*

# ENGLISH LANGUAGE SHORTWAVE BROADCAST SCHEDULES

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The *Journal* of the  
North American Shortwave Association

**November 1990**

Contributions from NASWA members and broadcasters are welcome. Schedules may be mailed or telefaxed or delivered by electronic mail. The telefax line is dedicated. The information is posted on the Pinelands RBBS when received. The deadline for the *Journal* is the Friday before the last Saturday of the month. Broadcasters, please place me on your mailing list for schedules. Thank you.

# English Schedules

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Apologies to **George Jacobs and Associates**, including **Anne Case**, for failing to include the credits for supplying their clients' changes listed last month. The continued support is appreciated.

Thanks to **John Carson (OK)**, **Kris Field (PA)**, **Gordon Darling (Papua New Guinea)**, and **Joe Hanlon (NJ)** for the many schedules and press clippings received. Also thanks to **Bob German of WSHB** for the continuing faxed updates to the *Christian Science Monitor Syndicate* stations.

I had the pleasure of meeting many **NASWA** members for the first time at the **Knoxville Monitoring Times** convention October 6-7. The convention was such a success that it will no doubt be an annual event for the foreseeable future.

**Convention Calendar:** **Michael Murray**, Secretary General of the *European DX Council* (an association of SWLs and DX clubs in Europe), invites all SWLs and DXers to attend the 25th annual conference of the **EDXC** to be held May 17-20, 1991 in Barcelona. For information on the meeting, hotels and travel details, write **EDXC-91**, PO Box 1275, 08080 Barcelona, Spain.

## Notes

I was surprised to note the quality of the signal level on **Radio Korea** at 1215 UT on 9750. If the signal holds up, the time is a nice alternative to the 1030 UT Sackville relay. **RBI** did disappear October 2, and now I note that some unannounced ex-**RBI** frequencies are being added to at least some of the

**Deutsche Welle** releases. **Radio Beijing** changes are effective November 12.

The problem with publishing the full schedules prior to the first Sunday in November is that I know that not all the **W-90** frequency changes are included. Some stations just don't publish their schedules ahead of time and these have to be picked up off the air. **Radio New Zealand International** has shifted to its summer schedule, but I don't have the data yet. **WYFR** will be making some major changes November 12, but it was not finalized at press time.

It now appears that **Radio Sweden's Sweden Calling DXers** will be heard bi-monthly. The printed bulletin will cease publication, but the electronic edition will continue.

Thanks to **VOA** staff, two versions of the complete **VOA W-90** broadcast schedule are available for download from the *Pinelands RBBS* as ASCII text files. One lists times, frequencies and target areas; the second includes azimuth and transmitter sites.

## JRC NRD-535

**Japan Radio Company's** new **NRD-535** will probably arrive in the US the first quarter of 1991. At first glance looks and features are akin to the **NRD-525**, but there is much more. New features include **ECSS**, 1 Hz tuning, variable bandwidth controls, triple conversion, and an improved computer command set with a 4800 bps interface built into the receiver. Price range probably will be around \$2,000 suggested retail, street price around \$1,800. It looks very interesting!

## All Records Included

## ENGLISH LANGUAGE SW BROADCAST SCHEDULES: By Start Time

Compiled by Thomas R. Sundstrom, W2KXO

Start Time (UTC)	End Time (UTC)	Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Freq #8	Target Area	Notes	Record Last Updated
0000	0030	Australia	R Australia	17795	17750	17630	15465	15240	13605	11880		As/Pac/PapMG		08/30/90
0000	0100	Bulgaria	R Sofia	15330	11660							NA		09/19/90
0000	0130	Canada	R Canada Int'l	9755	5960							USA	SubMo -0200	10/24/90
0000	0100	China	R Beijing	11715	9770							ENA/WNA	#1&2 v Mali	10/26/90
0000	0200	Cuba	R Havana	11820								Americas		03/26/89
0000	0015	Czechoslovakia	R Prague Int'l	11990	11680	7345						NA		05/09/90
0000	0025	Finland	R Finland	11755	9645							NA/SA		09/17/90
0000	0030	Israel	Kol Israel	12077	11605	9435						NA		08/23/90
0000	0200	Luxembourg	R Luxembourg	6090								Eu		09/19/90
0000	0200	N Mariana Is	KNBI	17555								Phil/Indon/PapMG	270 deg	09/19/90
0000	0050	North Korea	R Pyongyang	15115	13765	11975						Am		07/15/90
0000	0100	South Korea	R Korea	15575								Am		03/15/90
0000	0100	Spain	Spanish Foreign Radio	11880	9630							NA		11/05/89
0000	0100	USA	VOA/Am	15205	11695	11580	9815	9775	9455	6130	5995	Caribbean/Americas	alt pgs #1,3,4,5,8	09/29/90
0000	0100	USA	VOA/E As	17820	17735	15290	15185	11760	9770	7120		E As/SE As/Pac		09/29/90
0000	0100	USA	VOA/ME	17810	15485	15225	11905					ME/N Af/Eu		09/29/90
0000	0200	USA	WCSN	9850								W Afr	90 deg	08/13/88
0000	0200	USA	WRI	9495	7315							Eu/CA/SA	157/42 deg	03/19/90
0000	0400	USA	WRNO	7355								NA/CA	20 deg	10/26/90
0000	0200	USA	WSHB	13760	7395							CA/SA/NE Canada	167/25 deg	09/19/90
0000	0100	USSR	R Kiev	17690	17665	15180	12000	11790	11675			NA		10/26/90
0000	0100	USSR	R Moscow	21790	21690	17890	17850	17570	15355	15290	11930	WS/ENA Svc	#1-4 WS/#6-10 ENA	10/13/90
0030	0100	Australia	R Australia	17795	17750	17715	17630	15465	15240	15160	13605	As/Pac/PapMG		08/30/90
0030	0055	Belgium	BRT	13675	9925							SA/NA		09/17/90
0030	0300	Costa Rica	R for Peace Int'l	7375									Tu-Sa USB mode	09/30/90
0030	0430	Ecuador	MCJB	25950	15155	11775						NA	#1 USB	10/12/90
0030	0230	England	BBC	12095	9915	9590	7325	6175	5975			WS: NA/CA/Carib		03/16/90
0030	0100	Hungary	R Budapest	15160	11910	9835	9585	9520	6110			NA	exc Mo	09/17/90
0030	0125	Netherlands	R Nederland	15560	6165	6020						ENA	#1&2 v Bonaire	09/26/90
0050	0110	Vatican State	Vatican Radio	11780	9605	6150						NA		10/09/90
0100	0200	Australia	R Australia	21775	21525	17795	17750	17715	15465	15240	15160	As/Pac/PapMG		08/30/90

0100	0200	Canada	R Canada Int'l	13720	11940	11845	9535			LA	Su-Mo	10/24/90	
0100	0130	Czechoslovakia	R Prague Int'l	11680	7345	5930				NA		05/09/90	
0100	0150	Fed Rep Germany	R Deutsche Welle	13770	13610	11865	9735	9565	6145	6085	6040	NA	#1-#2 not anncd.
0100	0130	Israel	Kol Israel	12077	11605	9435						NA	08/23/90
0100	0120	Italy	RAI	11800	9575							NA	03/19/88
0100	0200	Japan	R Japan	17845	17835	17810	5960					GOS/Asia/NA	#6 v Canada
0100	0130	Norway	R Norway Int'l	11925	9615							NA/CA	Su & Mo only
0100	0200	Spain	Spanish Foreign Radio	11880	9630							NA	11/05/89
0100	0130	Sweden	R Sweden	9770								As/Pac	09/18/90
0100	0300	USA	KUSM	11695								Canada	70 deg   ex Mo   occ use
0100	0200	USA	VOA/Am	15205	11580	9815	9775	9455	6130	5995		Caribbean/Americas	09/29/90
0100	0200	USA	VOA/ME	21550	17895	17810	17740	15225	11905	7205	5965	ME/N Af/Eu	09/29/90
0100	0300	USA	VOA/S As	21550	17740	15250	15160	11705	7205			South Asia	09/29/90
0100	0300	USA	WYFR	11720	9505	5985						NA	#2&3 Network M-Sa
0100	0200	USSR	R Moscow	21690	17890	17860	17850	17570	11930	11730	11710	US/ENA Svc	#5 v Cuba   #1-5 US
0100	0145	Yugoslavia	R Yugoslavia	11735	9620							W Eu/NA	10/11/90
0130	0200	Austria	ORF	13730	9875	9870						NA/SA	10/13/89
0130	0138	Greece	V of Greece	11645	9420	9395						NA/Sweden	News/Eng ex Su
0130	0200	Hungary	R Budapest	15160	11910	9835	9585	9520	6110			NA	09/17/90
0145	0200	Vatican State	Vatican Radio	11750	9650	7125						As/Aus/NZ	10/09/90
0200	0300	Argentina	RAE	11710								Americas	Tu-Sa
0200	0330	Australia	R Australia	21775	21525	17795	17750	17715	17630	15465	15240	As/Pac/PapitG	21825 Sa only -0730
0200	0250	Brazil	R Bras	11745								NA/CA	02/28/88
0200	0300	Canada	R Canada Int'l	13720	11940	11845	9535					LA	Tu-Sa
0200	0400	Cuba	R Havana	11820	9505							Americas	10/24/90
0200	0330	Egypt	R Cairo	9675	9475							NA	09/09/90
0200	0230	England	British Forces BC Serv	13745	9640	7125						ME	07/20/86
0200	0250	Fed Rep Germany	R Deutsche Welle	11965	11945	9690	9615	7285	6035			S As	08/16/90
0200	0300	Gum	KSDA	13720								As	10/11/90
0200	0230	Israel	Kol Israel	12077	11605	9435						NA	Sa-Su   300 deg
0200	0800	New Zealand	R New Zealand Int'l	17675								Pacific	03/19/90
0200	0230	Norway	R Norway Int'l	11735	9615							NA/CA	08/23/90
0200	0255	Romania	R Romania Int'l	15380	11940	11830	9570	9510	5990			NA	Su & Mo only
0200	0230	Sweden	R Sweden	11705	9695							NA	05/20/90
0200	0230	Switzerland	Swiss R Int'l	17730	12035	9885	9650	6135	6095			NA	09/18/90
0200	0300	Taiwan	V of Free China	15345	11860	11740	9765	9680	5950			NA/Jap/As/CA/Aus#Z	#1 v Brazil
0200	0230	USA	VOA/Am	15205	11580	9815	9775	5995				Caribbean/Americas	#3,5,6 v WYFR
0200	0300	USA	VOA/ME	21550	17895	17810	17740	15225	11905	7205	5965	ME/N Af/Eu	Tu-Sa
0200	0400	USA	WCSN	9850								E Afr	09/29/90
0200	0400	USA	WHRI	9495	7315							Eu/CA/SA	75 deg
0200	0400	USA	WSHB	13760	9455							CA/Canada	157/42 deg
													03/19/90
													167/315 deg
													03/19/90



0400	0450	North Korea	R Pyongyang	17765	15230	15180				SE As		07/15/90	
0400	0425	Romania	R Romania Int'l	15380	11940	11830	9570	9510	5990	NA		05/24/90	
0400	0430	Switzerland	Swiss R Int'l	12035	9885	9650	6135			NA		06/26/90	
0400	0450	Turkey	V of Turkey	17880	9445					Aus/NA		09/19/90	
0400	0500	USA	VOA/ME	9715	7200	7170	6140	5995		ME/N Af/Eu		09/29/90	
0400	0600	USA	WCSN	9840						S Afr	105 deg	01/20/90	
0400	0600	USA	WHLI	9495	7315					Eu/CA/SA	157/42 deg	03/19/90	
0400	0700	USA	WHLK	9465							Mo-Sa	08/30/89	
0400	0600	USA	WRHO	6185						NA/CA	20 deg	10/26/90	
0400	0600	USA	WSNB	13760	9455					CA/Canada	230/315 deg	03/19/90	
0400	0500	USSR	R Moscow	15540	11980	11930	11710	11675	9530	US		09/19/90	
0400	0410	Zambia	R Zambia	4910							news/English M-F	01/14/89	
0401	0900	USSR	R Moscow	17840	17700	17690	17605	15425	15180	12050	12010	UMA	09/19/90
0425	0440	Italy	RAI	7275	5990					Mediterranean		10/14/90	
0430	0500	Albania	R Tirana	11835	9480					Af		08/16/90	
0430	0500	Australia	R Australia	21775	21525	17795	17750	17715	17630	15465	15240	As/Pac/PapMG	#10 -0800
0430	0500	England	BBC	9915	5975					US: NA/CA/Carib		08/30/90	
0430	0500	Swaziland	Trans World Radio	9760	9610	9550	7285	7255	7200	5055	4760	S Af	only 1 freq/bnd used
0430	0600	USA	VOA/Af	17715	15350	11835	9575	6035		Africa		06/05/89	
0432	0505	Seychelles	FEBA	17820	15325					SE As		09/29/90	
0445	0500	England	BBC	17815	15245	11760				ME	"Gulf Link"	M #1&2   Sa #2	
0500	0600	Australia	R Australia	21775	21525	17795	17750	27630	15560	15465	15320	As/Pac/PapMG	09/16/90
0500	0600	China	R Beijing	11840						UMA		v Canada	
0500	0700	Ecuador	HCJB	15155	11775					NA		10/26/90	
0500	0530	England	BBC	9915	9640	5965				US: NA/CA/Carib		09/01/90	
0500	1200	Equatorial Guinea	R East Africa	9585						Af		07/03/90	
0500	0550	Fed Rep Germany	R Deutsche Welle	11845	11705	9670	6120	5960		Af		Sa & Su   Sa -1500	
0500	0515	Israel	Kol Israel	17575	15640	11655	11605	9435		NA		10/06/89	
0500	0600	Japan	R Japan	17890	17825	17810	17765	15195		Aus/As/NA/E Eu/W Eu		05/02/90	
0500	0600	Spain	Spanish Foreign Radio	9630						GOS/As/NA/Oceania		08/23/90	
0500	0700	Swaziland	Trans World Radio	11835	11760	11740	7285	7255	7200	5055	4760	NA	05/22/90
0500	0700	USA	KUSW	9870						S Af		only 1 freq/bnd used	
0500	0600	USA	VOA/ME	15205	11750	9715	9700	9670	7280	7170	6160	ME/N Af/Eu	06/05/89
0500	0600	USA	WYFR	17640	15566	11580	9505	6065	5985	Canada		70 deg Su only	
0500	0600	USSR	R Moscow	15540	11980	11930	11730	11675	9530	Eu/Af/NA		09/19/90	
0500	0530	Vatican State	Vatican Radio	21650	17730	17710				US		84-6 Network M-Sa	
0510	1640	South Africa	Radio Oranje	7285						EBS Afr		09/19/90	
0530	0600	Austria	ORF	21490	15410	13730	6155			ME/Eu		08/23/90	
0530	0600	Canada	ORF	6015						NA		09/17/90	
0530	0730	England	BBC	9640	5975					US: NA/CA/Carib		03/18/90	
0530	0555	Romania	R Romania Int'l	21665	17790	17745	17720	15380	15340	Afr		03/16/90	
												05/23/90	

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0530	0600	United Arab Emirates	R Dubai	21700	17865	17830	15435			SE As/Aus		08/11/90	
0555	0825	Malaysia	V of Malaysia	15295	9750	6175				Aus/NZ/Indonesia		04/30/89	
0600	0630	Australia	R Australia	21775	21525	17630	15560	15465	11880	As/Pac/PapMG		08/30/90	
0600	0800	Cuba	R Havana	11835						Americas		04/08/89	
0600	0650	Fed Rep Germany	R Deutsche Welle	17875	15185	13790	11765			W Afr		09/30/88	
0600	1000	Lebanon	V of Hope	6280	6215					ME	# 2 alt	01/25/90	
0600	0800	Mariana Is	KHBI	17855	17780					Phil/China	270/310 deg	02/25/90	
0600	0650	North Korea	R Pyongyang	15230	15180					SE As		07/15/90	
0600	0700	South Korea	R Korea	11830	9570	7275				WNA/GDS		09/30/90	
0600	0700	USA	VOA/AF	17715	15350	11835	9575	9530	6125	6035	Africa		09/29/90
0600	0630	USA	VOA/ME	15205	11805	11750	7325	7170	6140	6095	ME/W Afr/Eu		09/29/90
0600	0800	USA	WCSN	9840						Eu	60 deg	03/19/90	
0600	0800	USA	WHRJ	9495	7315					Eu/CA/SA	157/42 deg	09/19/90	
0600	1200	USA	WRNO	6185						NA/CA	20 deg (Su only)	02/15/88	
0600	0800	USA	WSHB	11705	9455					CA/Canada	245/315 deg	09/19/90	
0600	0700	USA	WYFR	17640	15566	13760	7355	6065	5985	Eu/Af/NA	#6 Network M-Sa	03/15/90	
0600	0700	USSR	R Moscow	21630	21625	21585	17890	17860	17625	17600	17560	WS	09/19/90
0600	0620	Vatican State	Vatican Radio	9645	6185					Eu		09/19/90	
0615	0700	Canada	R Canada Int'l	11840	9760	9760	7155	6150	6050	W Eu/Afr	M-F   #1,3,4,6 v UK	09/22/90	
0630	0700	Albania	R Tirana	9500	7205					Eu		10/14/90	
0630	0730	Australia	R Australia	21775	21525	17630	15465	15240	13705	11880	As/Pac/PapMG	08/30/90	
0630	0700	Poland	R Polonia	9675	7270					Eu		08/15/89	
0630	0700	Switzerland	Swiss R Int'l	21770	17570	15430				Afr		09/19/90	
0630	0700	USA	VOA/ME	15205	11805	11750	7325	7170	6140	6095	6060	ME/W Afr/Eu	09/29/90
0630	0700	Vatican State	Vatican Radio	21650	17730	17710				C&S Afr		03/22/90	
0645	1100	New Zealand	R New Zealand Int'l	9855						Pacific	Sa	06/20/90	
0645	0715	Romania	R Romania Int'l	21665	17805	17720	15335	11940	11810	Pac		05/20/90	
0700	0830	Ecuador	HCJB	15270	11835	9610				Eu		04/25/90	
0700	0800	Japan	R Japan	21690	21500	17890	17810	17765		GDS/As/Am/Oc/Eu/ME	#1 v Gabon	10/26/89	
0700	0750	North Korea	R Pyongyang	17765	15340					SE As		07/15/90	
0700	0835	Swaziland	Trans World Radio	11835	11760	11740	7285	7255	7200	S Afr	only 1 freq/bnd used	06/05/89	
0700	0800	Taiwan	V of Free China	5950						NA	via WYFR	08/05/89	
0700	1100	USA	KUSW	9870						Canada	70 deg   Su only	09/19/90	
0700	0800	USA	WYFR	15566	13760	7355	6065	5985		Eu/Af/NA	#5 Network M-Sa	03/15/90	
0700	0800	USSR	R Moscow	21725	21630	21625	21585	17890	17860	17625	17600	WS	09/19/90
0710	0830	New Zealand	R New Zealand Int'l	9855						Pacific	M-F	07/02/90	
0715	0830	Italy	Italian Radio Relay Serv	9815						Eu	Su	06/05/90	
0730	0800	Australia	R Australia	21775	21525	17630	15240	13705	11930	11880	As/Pac/PapMG	08/30/90	
0730	0800	Belgium	BRT	13675	11695	6035				Eu/Aus		09/17/90	
0730	0800	Bulgaria	R Sofia	17825	15160	11720				W Eu		09/19/90	
0730	0800	Czechoslovakia	R Prague Int'l	21705	17840					As/Pac		09/19/90	

0730	1130	Ecuador	MCJB	11925	9745'		S Pac		04/25/90				
0730	0815	England	BBC	9640			US: MA/CA/Carib		04/06/89				
0730	0745	Finland	R Finland	11755	9560	6120	Eu/NE/Afr		09/17/90				
0730	0825	Netherlands	R Nederland	15560	9630		NZ/Aus	v Bonaire	09/17/90				
0730	0800	Switzerland	Swiss R Int'l	9535	6165	3985	Eu		09/19/90				
0740	0925	Monaco	Trans World Radio	9485			UK	Su -1015, Sa -0955	12/08/89				
0740	0757	Switzerland	Int'l Red Cross	21695	17670	13685	9560	Australasia	Mo8th after last Su				
0800	0830	Albania	R Tirana	11835	9500			S As/Aus	08/16/90				
0800	0830	Australia	R Australia	21775	21525	17750	17630	15320	15240	15160	08/30/90		
0800	0830	Bangladesh	R Bangladesh	17850	15195			Eu		07/03/90			
0800	0930	Guam	KTWR	15200				Far East		01/05/90			
0800	1000	N Mariana Is	KHBI	15610	9530			Aus/NZ/Japan	165/340 deg	09/06/90			
0800	0850	North Korea	R Pyongyang	15230	15180			SE As		07/28/90			
0800	0900	South Korea	R Korea	13670	7550			Eu		10/03/87			
0800	0900	USA	KMLS	7365				As		09/28/90			
0800	1000	USA	VDA Europe	21615	21570	15195	15160	11735		Eu/NE	09/29/90		
0800	1000	USA	WCSN	9840				Eu	60 deg	09/19/90			
0800	1100	USA	WHRJ	7355	7315			Eu/CA/SA	42/157 deg	09/19/90			
0800	1000	USA	WSNB	13760	9455			Canada/SA	260/152 deg	03/19/90			
0800	1100	USSR	R Moscow	21725	21630	21625	17560	15540	15520	15375	09/19/90		
0827	0957	Guam	KTWR	11805				Aus		04/05/90			
0828	0855	Netherlands	R Nederland	15190				Aus	H-Sa	09/17/90			
0830	0900	Australia	R Australia	21775	21525	17750	17630	15320	15240	15160	9580	As/Pac/PapMG	08/30/90
0830	0855	Finland	R Finland	21550	17800				E As		04/07/90		
0830	0900	Italy	AWR Europe	7230				Eu		09/28/90			
0830	0925	Netherlands	R Nederland	21485	17575				Asia		09/19/86		
0830	0900	Switzerland	Swiss R Int'l	21695	17670	13685	9560		Aus/NZ		10/16/89		
0840	0848	Greece	V of Greece	17535	15625				Aus	News/Eng	04/07/90		
0900	0930	Australia	R Australia	21825	21775	17750	17630	15320	15240	15160	11880	As/Pac/PapMG	09/22/90
0900	1000	China	R Beijing	17710	15440	11755			S Pacific		05/28/90		
0900	0950	Fed Rep Germany	R Deutsche Welle	21680	21650	21600	17820	17780	15410	11740	9565	Aus/As/S&C&E Afr	05/02/90
0900	0925	Finland	R Finland	21550	17800				Aus		09/17/90		
0900	1000	Japan	R Japan	21610	17890	15270	11840		GOS/As/Oc		09/17/90		
0900	1000	Portugal	AWR Europe	9670					Eu	Su	09/19/90		
0930	1030	Afghanistan	R Afghanistan	21600	17655	9635	4940		S&SE As	v USSR exc #3	05/12/90		
0930	1000	Australia	R Australia	21825	21775	17750	17630	15240	15160	11880	9580	As/Pac/PapMG	09/22/90
0930	1000	England	British Forces BC Serv	21735	17695	15285			ME		09/07/90		
1000	1030	Australia	R Australia	21775	17715	15240	15160	9580		As/Pac/PapMG		08/30/90	
1000	1025	Belgium	BRT	21810	13675	6035			Afr/Eu	H-Sa	09/17/90		
1000	1100	China	R Beijing	17710	15440	11755			S Pacific		05/28/90		
1000	1200	Guam	KHBN	9830					China		07/25/90		



1100	1200	USSR	R Moscow	21785	21685	17830	17790	15590	15550	15540	15535	World Service	#10 v Cuba	10/13/90
1130	1200	Austria	ORF	21490	15430	13730	6155					EMA/As/Eu		03/18/90
1130	1200	Ecuador	HCJB	11740								NA		04/25/90
1130	1145	Hungary	R Budapest	15220	15160	11910	9835	9585	7220			Eu	Se	09/17/90
1130	1225	Iran	R Tehran	11790	11715	9705	9575					S/SE As/NE/India		06/30/90
1130	1200	Italy	AMR Europe	7230								Eu		09/28/90
1130	1225	Netherlands	R Nederland	21520	21480	17575	9715	5955				Eu/NE/As	#283 v Madagascar	09/17/90
1130	1230	Thailand	R Thailand	11905	9655							SE As		07/29/89
1130	1200	USA	VOA/NE	21625	15225	15160	11735					NE/W Af/Eu		09/29/90
1150	1215	Finland	R Finland	21550	15400							NA	H-F	09/17/90
1200	1300	China	R Beijing	15450	11660	11600	9670	9665				S Pac/SE As/EMA		10/26/90
1200	1400	Costa Rica	AMR Costa Rica	11870	9725							NA		12/14/89
1200	1630	Ecuador	HCJB	17890	15115	11740						NA	#3 -1500	04/25/90
1200	1400	England	BBC	11775	9915	9740	9515	6195				US: NA/CA/Carib		05/17/90
1200	1230	Italy	Italian Radio Relay Serv	9815								Eu	Su	06/05/90
1200	1300	Ivory Coast	AMR Africa	17890								Af	Su only	02/28/88
1200	1400	Mariana Is	KNBI	13625	9895							SE As/Aus/PapMG	285/195 deg	09/19/90
1200	1230	Norway	R Norway Int'l	25730	21735							S As/Far East/Aus	Se & Su only	08/23/90
1200	1225	Poland	R Poland	11815	6095							Eu		08/15/89
1200	1230	Romania	R Romania Int'l	17720	15380							As		05/20/90
1200	1330	USA	VOA/E As	15425	15155	11720	9760	6110				E As/SE As/Pac		09/29/90
1200	1400	USA	WCSB	21780								Eu	45 deg	09/22/90
1200	1400	USA	WRNO	9715								NA/CA	20 deg (Su only)	10/21/89
1200	1400	USA	WSNB	11930	9495							CA/NE Canada	182/25 deg	03/19/90
1200	1500	USA	WYFR	17750	13695	11850	6015	5950				NA	#1-3 Network H-Se	03/15/90
1200	1300	USSR	R Moscow	21800	21785	21685	17830	17790	15550	15540	15110	World Service	#9 v Cuba	10/13/90
1200	1225	USSR	R Tashkent	17740	15470	11860	9715	9600	7325			As		09/30/90
1200	1215	Vatican State	Vatican Radio	21515	17865							As/Aus/NZ	Fr only	03/22/90
1200	1230	Vietnam	V of Vietnam	15010	10200	9840								02/23/90
1215	1330	Egypt	R Cairo	17595								S As		08/16/90
1215	1315	South Korea	R Korea	9750								Am		04/08/90
1230	1300	Australia	R Australia	21775	17715	15240	11930	9580	7240	6080		As/Pac/PapMG		08/30/90
1230	1300	Bangladesh	R Bangladesh	15195	11710							Eu		09/09/90
1230	1255	Belgium	BRT	21810								NA	Su	10/14/90
1230	1255	France	R France Int'l	21645	21635	17650	15195	15155	11670	9805		Am/Afr/Ind/As/Eu	News & feat/English	11/13/89
1230	1300	Poland	R Poland	15120	11840	9525						Af		08/15/89
1230	1300	Sweden	R Sweden	21570	17740	11715						As/Pac		09/18/90
1230	1300	USA	VOA/NE	21625	21540	15400	15225	11735				NE/W Af/Eu		09/29/90
1235	1248	Greece	V of Greece	17535	15650	15625						NA/Sweden	News/Eng	06/26/90
1300	1330	Australia	R Australia	21775	17715	17630	15240	11930	11910	9860	9580	As/Pac/PapMG		09/22/90
1300	1400	Canada	R Canada Int'l	17820	11855	9635						Carib/USA	H-F	10/24/90

1300	1400	China	R Beijing	11660	11600	9670				S Pac/SE Ae		10/26/90	
1300	1325	Finland	R Finland	21550	15400					NA	N-F	09/17/90	
1300	1330	Mongolia	R Ulan Bator	12025	11850					Japan	exc TuLF	09/19/90	
1300	1350	North Korea	R Pyongyang	15230	13650	9640	9345	9325		SE As/Am/Eu		07/15/90	
1300	1330	Norway	R Norway Int'l	9585	9590					Eu	Se & Su only	08/23/90	
1300	1355	Romania	R Romania Int'l	21665	17850	15365	11940			Eu		03/27/90	
1300	1330	Switzerland	Swiss R Int'l	12030	9535	6165				Eu		09/19/90	
1300	1500	Taiwan	WYFR	15055						India	via WDFC	03/26/89	
1300	0200	USA	WVCR	15690							N-F	03/27/90	
1300	1400	USSR	R Moscow	21785	21755	21685	17830	17810	15550	15540	15460	World Service	#10 v Cuba 1330-
1300	1400	USSR	R Stn Peace & Progress	17870	17835	17635	17610	15480	15180	11900	11870	SE As	#2,5,7 from 1330
1300	1330	Yugoslavia	R Yugoslavia	21715	21635	17725	9720				Far E/NA/Aus		10/15/90
1310	1327	China	Int'l Red Cross	11695	9620						S&SE As/Far East	Mo&Th after last Su	03/18/89
1320	1630	Jordan	R Jordan	9560							W Eu/NA		05/05/90
1330	1400	Australia	R Australia	21775	17630	11930	11910	11800	9860	9580	7240	As/Pac/PapMG	09/22/90
1330	1400	Austria	ORF	15430							As		03/18/90
1330	1400	England	British Forces BC Serv	21735	17695	15195					ME		09/10/90
1330	1500	India	AIR	11760	9565						GOS/SE As		04/28/90
1330	1400	Switzerland	Swiss R Int'l	21695	17830	15570	13635	11695	7480		E Afr/India/Aus/NZ	#5&6 v China	10/12/90
1330	1400	Turkey	V of Turkey	17785							SW As		09/19/90
1330	1400	United Arab Emirates	R Dubai	21605	17865	15435	15320				Eu/N Af		07/04/90
1330	1400	USA	VDA/E As	15425	15155	9760	6110				E As/SE As/Pac		09/29/90
1330	1400	USA	VDA/ME	21570	21540	15400	15225	11905			ME/N Af/Eu		09/29/90
1330	1355	USSR	R Tashkent	17740	15470	11860	9715	9600	7325		As		09/30/90
1330	1400	Vietnam	V of Vietnam	15010	12020	9840							11/07/89
1400	1430	Albania	R Tirana	11855	9500						S As/Aus		08/16/90
1400	1430	Australia	R Australia	21775	17630	11930	11910	11880	11720	9580	7240	As/Pac/PapMG	#6 Af
1400	1425	Belgium	BRT	21810								SE As	N-Se
1400	1700	Canada	R Canada Int'l	11955								Carib/NA	Su
1400	1500	China	R Beijing	15165	11815	7405						S As/WNA	
1400	1430	China	R Canada Int'l	15210	11955							SE As & India	
1400	1515	England	BBC	9740								WS: NA/CA/Carib	
1400	1425	Finland	R Finland	21550	15400							NA	Sa&Su -1445
1400	1425	France	R France Int'l	21770	11910							SE As	#2 v China
1400	1500	Japan	R Japan	11865	11815							GOS/Am/As	
1400	1600	M Mariana Is	KNBI	13625	9530							SE As/India/China	285/310 deg
1400	1500	South Korea	R Korea	9570								SE As	
1400	1430	Sweden	R Sweden	21610	9765							As/Pac	
1400	1700	USA	KJWS	15590								Canada	70 deg/Su only
1400	1500	USA	VDA/E As	15425	15160	9760	7125	6110				E As/SE As/Pac	
1400	1500	USA	VDA/ME	21570	21540	17885	15300	15285	11905			ME/N Af/Eu	

1400	1500	USA	VOA/S As	15395	15205	9645	7125		South Asia		09/29/90			
1400	1600	USA	WCSR	21780					Eu	45 deg	04/24/89			
1400	1500	USA	WMBI	15105	9465				Eu/CA/SA	157/42 deg	09/19/90			
1400	1600	USA	WRHO	15420					NA/CA	20 deg (Su only)	10/26/90			
1400	1600	USA	WSWB	17555	13760				CA/Canada	245/315 deg	03/08/89			
1400	1500	USSR	R Moscow	21685	17830	17810	17585	15540	15460	11840	World Service	87 v Cuba	10/13/90	
1420	1430	Sudan	National Unity Radio	9435							na/EE some days	12/19/88		
1430	1500	Australia	R Australia	21775	17630	11930	11910	11800	11720	9770	9580	As/Pac/PapMG	86 Af	09/22/90
1430	1500	Austria	ORF	21490	13730	11780	6155				W Af/SE As/Eu		04/01/89	
1430	1600	Lebanon	V of Hope	6280	6215						ME/India	# 2 alt	01/25/90	
1430	1525	Netherlands	R Nederland	17605	17575	15150	13770	5955			S&E As/Eu	82&3 v Madagascar	09/17/90	
1430	1455	Poland	R Polonia	11815	9540	6135					Eu		08/15/89	
1445	1500	Vatican State	Vatican Radio	11740	9645	7250	6248				Eu		09/19/90	
1458	1600	Seychelles	FEBA	15330	9590						SE As		12/16/89	
1459	1635	Guam	KTUR	11650							India	Su -1701	10/17/90	
1500	1530	Australia	R Australia	17630	11930	11910	11800	11720	9770	9580	7240	As/Pac/PapMG	83 Af   89 -1830	09/22/90
1500	1600	China	R Beijing	15165	11815	7405					S As/MA		10/26/90	
1500	1550	Fed Rep Germany	R Deutsche Welle	21600	17765	11965	9735				S&C&E Afr		03/15/90	
1500	1600	Japan	R Japan	21700	11865						GOS/Am/Eu/NE	#1 v Gabon	05/22/90	
1500	1550	North Korea	R Pyongyang	11760	9977	9640	9325				Eu/NE/Af		07/15/90	
1500	1530	Romania	R Romania Int'l	17745	17720	15335	15250	11940	11775		As		02/19/90	
1500	1555	Seychelles	FEBA	11865							SE As	Sa&Su -1540	12/16/89	
1500	1800	South Africa	Radio RSA	15270	7230						E&C&S Afr		08/23/90	
1500	1515	Taiwan	WYFR	11550							India	via VOFc	03/26/89	
1500	1600	USA	KNLS	7365							As	exc Mon	09/28/90	
1500	1630	USA	VOA/NE	21570	21540	17885	15300	15285	11905	9700	NE/W Af/Eu		09/29/90	
1500	1800	USA	VOA/S As	15395	9700	9645	7125				South Asia		09/29/90	
1500	1600	USA	WMBI	21840	15105						Eu/CA/SA	42/157 deg	03/19/90	
1500	0200	USA	WJCR	15690							NA	Sa-Su	03/27/90	
1500	1600	USA	WYFR	17750	13695	11850	11830	5950			NA	#1-3 Network N-Sa	03/15/90	
1500	1600	USSR	R Moscow	21740	21725	21685	17810	17655	17585	11840	World Service	87 v Cuba	10/13/90	
1500	1530	Vietnam	V of Vietnam	15010	12020	9840							02/23/90	
1505	1530	Finland	R Finland	21550	15185	11820					Eu/NE/Afr		09/17/90	
1515	1530	Canada	R Canada Int'l	21545	17820	15325	15315	13650	11935	11915	9555	C&E Eu	#3,6,7,8 v Eu rlys	09/22/90
1530	1600	Albania	R Tirane	11835	9500						Af		10/14/90	
1530	1600	Australia	R Australia	17630	13745	11930	11910	11800	11720	9860	9770	As/Pac/PapMG	84 Af	09/22/90
1530	1630	Bulgaria	R Sofia	17825	15310	11735					Afr		09/19/90	
1530	1538	Greece	V of Greece	17535	15625	11645					NA/Sweden	News/Eng ex Su	06/28/90	
1530	1600	Sweden	R Sweden	21500	17880						NA		09/18/90	
1530	1600	Switzerland	Swiss R Int'l	21630	17830	15430	13685				NE/E Afr		04/25/88	
1545	1615	Mongolia	R Ulan Bator	13780	9795						India		09/19/90	

1545	1630	Pakistan	R Pakistan	21530	21480	17725	17555	15605	13665		ME/E&S Afr	Slow-speed news	1615	10/17/90
1545	1600	Vatican State	Vatican Radio	17870	15090	11715					As/Am/MZ			07/07/90
1600	1630	Australia	R Australia	17630	13745	11930	11720	9860	9770	9710	9580	As/Pac/PapMG	#4 Af   #7 -1830	09/22/90
1600	1700	China	R Beijing	15150	15110	9570					E&S Afr	#1&2 v Mali		09/08/90
1600	1745	England	BBC	15260	11775						WS: NA/CA/Carib			07/25/90
1600	1650	Fed Rep Germany	R Deutsche Welle	21680	17825	15595	15105	7225	6170		S As			10/30/89
1600	1655	France	R France Int'l	17850	17795	17620	15360	12015	11705	6175	Afr/ME/As/M Eu	#5&6 v Gabon		11/13/89
1600	1700	Gum	KSDA	11980							India	285 deg		03/19/90
1600	1800	Iraq	R Baghdad	11860							ME	targeted at troops		08/23/90
1600	1800	Il Marlane Is	KHBI	15610	11580						India/SE As	310/165 deg		09/22/90
1600	1630	Norway	R Norway Int'l	25730	15220						ME/Af	Se & Su only		08/23/90
1600	1630	Poland	R Polonia	9540	6135						Eu			08/15/89
1600	1630	Portugal	R Portugal	21530							ME	M-F		10/06/89
1600	2100	Saudi Arabia	BC Serv of Kingdom of SA	9720	9705									07/01/90
1600	1700	South Korea	R Korea	9870	5975						ME/Afr/GOS			11/05/88
1600	1630	Suaziland	Trans World Radio	11835	11760	11740	5055	4760			E&S Afr	only 1 freq/brd used		06/05/89
1600	1640	United Arab Emirates	R Dubai	21605	15435	15320	11795				Eu/M Af			07/04/90
1600	1800	USA	VOA/Af	21625	17800	15580	15410	11920	9575		Africa			09/29/90
1600	1800	USA	WCSH	21640							E Afr	75 deg		08/28/89
1600	1700	USA	WHRI	21840	15105	11790					Eu/CA/SA	#2 Su   #3 N-Se		03/19/90
1600	2400	USA	WRHO	15420							NA/CA/Eu	20 deg		10/26/90
1600	1700	USA	WYFR	21615	21525	17885	17612	15566	13695	11580	11830	Eu/Af/NA	#3,6,7 Network N-Se	03/15/90
1600	1700	USSR	R Moscow	21685	17810	17585	11840				World Service	#4 v Cuba		09/19/90
1615	1658	Gum	KTMR	17775							Africa			10/17/90
1615	1630	Hungary	R Budapest	15220	15160	11910	9835	9585	7220		Eu	M&Th		09/17/90
1615	1630	Switzerland	Swiss R Int'l	11955							E Eu			10/12/90
1630	1700	Australia	R Australia	17630	13745	11930	11855	9860	9770	9580	7240	As/Pac/PapMG	#10 -1930	09/22/90
1630	1730	Ecuador	HCJB	21480							ME			09/07/90
1630	1830	Egypt	R Cairo	15255							C&S Afr			08/16/90
1630	1725	Netherlands	R Nederland	15570	6020						E&S Afr	v Madagascar   N-Se		09/27/90
1630	1700	Poland	R Polonia	15120	11840	9525					Af			08/15/89
1630	1700	USA	VOA/ME	21570	21540	17885	15300	15245	15205	11905	11710	ME/M Af/Eu		09/29/90
1630	1700	USSR	R Stn Peace & Progress	21715	17655	15545	12055	11910	11775	11745	11630	Af/As		09/08/90
1645	1700	England	BBC	15120	11720	6040					ME	"Gulf Link"		09/16/90
1645	1930	South Africa	Radio Oranje	3215										08/23/90
1700	1800	Australia	R Australia	17630	13745	11930	11855	9860	9770	9655	9580	As/Pac/PapMG		09/22/90
1700	1800	China	R Beijing	11575	9570	7405					E&S Afr			10/26/90
1700	1727	Czechoslovakia	R Prague Int'l	11990	7345	6055	5930				Eu			05/09/90
1700	1800	Japan	R Japan	21700	11865	11815	9695	9535			GOS/Eu/ME/As/Am	#1 v Gabon		09/01/90
1700	1750	North Korea	R Pyongyang	11760	9977	9640	9325				Eu/ME/Af			07/15/90
1700	1730	Norway	R Norway Int'l	9655							Eu	Se & Su only		08/23/90

1700	1800	South Africa	Radio RSA	17790						W Afr		08/23/90	
1700	1730	Switzerland	Int'l Red Cross	7210						Eu	No after last Su/mo	03/18/89	
1700	2200	USA	KUSM	15590						Canada	70 deg	03/19/90	
1700	1730	USA	VQA/NE	21570	21540	17885	15300	15205	11905	9760	9700	NE/W Af/Eu	09/29/90
1700	1800	USA	WHR1	15105	13760							Eu/CA/SA	157/42 deg
1700	2000	USA	WMLK	9465								Su-Fr	08/30/89
1700	1900	USA	WYFR	17885	17750	13695	11830	11580				Eu/Af/NA	#1,3,5 Network M-Sa
1700	1800	USSR	R Moscow	21685	17810	17585	11840					World Service	#6 v Cuba
1710	1727	Switzerland	Int'l Red Cross	17830	15525	15430	11955	9885				Africa	MoTh after last Su
1715	1730	Canada	R Canada Int'l	21545	17820	15325	13650	7235	5995			C&E Eu	#5&6 v Eu relays
1715	1800	Pakistan	R Pakistan	15605	11570							W Eu	03/14/90
1730	1800	Austria	ORF	13730	12010	6155	5945					Af/Eu/As	09/17/90
1730	1800	Romania	R Romania Int'l	17860	17805	15365	15340					Afr	05/20/90
1730	1900	USA	VQA/NE	21570	21540	17885	15300	15205	11905	9760	9700	NE/W Af/Eu	09/29/90
1730	1800	Vatican State	Vatican Radio	21650	17730	17710						ESS Afr	03/22/90
1731	1804	Seychelles	FEBA	11820								E Afr	12/16/89
1745	2205	New Zealand	R New Zealand Int'l	15485								Pacific	M-F
1800	1830	Australia	R Australia	12000	11930	11855	9860	9710	9655	9580	7240	As/Pac/PapMG	09/22/90
1800	1850	Brazil	R Bree	15265								Eu	07/17/90
1800	1830	Canada	R Canada Int'l	17820	15260	13670						Afr	Sa&Su -1900
1800	2330	Costa Rica	R for Peace Int'l	21565	13630								Sa-Su
1800	2000	India	AIR	15360	11935							GOS/E Afr	05/24/89
1800	1815	Israel	Kol Israel	11655	11585							E Eu/W Eu	08/23/90
1800	1900	Ivory Coast	R Cote-d'Ivoire	7215									exc Sundays
1800	2000	N Mariana Is	KHBI	13625								NE/NZ	285/165 deg
1800	1830	Norway	R Norway Int'l	17755								NA	Sa & Su only
1800	1900	South Korea	R Korea	15575								Eu	11/05/88
1800	1830	Sweden	R Sweden	11900	9655	6065						Eu/Af/NE	10/02/90
1800	2008	USA	VQA/Af	21625	17800	15580	15410	11920	9575			Africa	09/29/90
1800	2000	USA	WCSN	21640								S Afr	105 deg
1800	2300	USA	WHR1	17830	13760							Eu/CA/SA	157/42 deg
1800	2000	USA	WSHB	21780								Canada	25 deg
1800	1900	USSR	R Moscow	21685	17585	17570	15175	11840				World Service	#5 v Cuba
1800	1830	Vietnam	V of Vietnam	15010	12020	9840							11/07/89
1805	1845	Swaziland	Trans World Radio	11835	11760	11740						E Af	only 1 freq/bnd used
1815	1900	Bangladesh	R Bangladesh	15255	11860							Eu/NE	03/31/90
1830	1930	Afghanistan	R Afghanistan	17745	15510	9635						Eu	#182 v USSR
1830	1900	Albania	R Tirane	9480	7120							Eu	10/14/90
1830	1900	Australia	R Australia	13745	12000	11930	11855	9710	9655	9580	7240	As/Pac/PapMG	08/30/90
1830	1855	Belgium	BRT	21810	17550	5910						Afr/Eu	09/17/90
1830	1930	Bulgaria	R Sofia	17825	15310	11680						Afr	09/19/90



1830	1900	Canada	R Canada Int'l	17875	15325	11945	7235	5995	U Eu	M-F   #485 v UK	09/22/90			
1830	1845	Czechoslovakia	R Prague Int'l	7345	6055				Eu		05/09/90			
1830	1900	Ethiopia	V of Ethiopia	9660					U Eu		01/22/89			
1830	1925	Netherlands	R Nederland	21685	17605	15560	6020		Afr	#1&2 Bon   #364 Mac	09/17/90			
1830	1855	Poland	R Polonia	11860	9525	7285	7125	6135	5995	Af/Eu	08/15/89			
1830	1900	Switzerland	Swiss R Int'l	11955	9885				Afr		10/12/90			
1835	2000	Sri Lanka	SLBC	15120	9720				Eu		07/27/90			
1840	1848	Greece	V of Greece	15625	11645				C&S Afr	News/Eng ex Su	06/26/90			
1845	1945	India	AIR	11620	7412				GOS/W Eu		07/04/88			
1845	2200	New Zealand	R New Zealand Int'l	15485					Pacific	Su	07/02/90			
1900	2000	Algeria	R Algiers	15215					SA		03/14/90			
1900	2000	Argentina	RAE	15345					Ew/Afr	M-F	07/14/90			
1900	1930	Australia	R Australia	13745	12000	11930	11855	9710	9655	7240	6080	As/Pac/PapMG		08/30/90
1900	1930	Canada	R Canada Int'l	17820	15260	13670						Afr	M-F	12/09/89
1900	2000	China	R Beijing	9440	6955							W/N Afr		10/26/90
1900	2100	Cuba	R Havana	15435								Ew/Af/ME		09/22/90
1900	2000	Ecuador	HCJB	21480	17790	15270						Eu		07/28/90
1900	1950	Fed Rep Germany	R Deutsche Welle	17810	15390	13790	11810	11785				W Afr		10/30/89
1900	1930	Japan	R Japan	15270	11865	11850						GOS/Am/Oc		02/16/90
1900	1930	Norway	R Norway Int'l	25730	21705	15235	15220					W Af/SA/Ew/Aus/NZ	So & Su only	08/23/90
1900	2000	Spain	Spanish foreign Radio	15395	11790	9875						ME/Eu		10/26/90
1900	2015	Swaziland	Trans World Radio	5055	4760							S Af	only 1 freq/bnd used	06/05/89
1900	2000	USA	VOA/E As	15180	11870	9525						E As/SE As/Pac		09/29/90
1900	2100	USA	VOA/ME	21570	21540	17885	15300	15205	11905	11710	9760	ME/W Af/Eu		09/29/90
1900	2000	USA	WTFR	21615	17885	15566	13695	11830	11580			Ew/Af/NA	#2,4,6 Network M-Sa	03/15/90
1900	2000	USSR	R Moscow	17585	17570	15375	15175	11840				World Service	#5 v Cuba	10/13/90
1900	1930	Vietnam	V of Vietnam	15010	12020	9840								11/07/89
1920	1930	Greece	V of Greece	11645	9395							Eu	News/Eng ex Su	05/12/90
1930	2000	Australia	R Australia	15160	13745	12000	11930	9710	9655	7240	6080	As/Pac/PapMG		08/30/90
1930	2000	Austria	ORF	13730	12010	6155	5945					Af/ME/Eu		03/18/90
1930	2000	Bulgaria	R Sofia	15330	11765	11660						U Eu		09/19/90
1930	1955	Finland	R Finland	15185	11755	9550	6120					Ew/ME/Afr		09/17/90
1930	2000	Hungary	R Budapest	15160	11910	9835	9585	7220	6110			Eu		09/17/90
1930	2030	Iran	R Tehran	9022	6035							ME/W Af/Ew/ENA		03/31/90
1930	2025	Romania	R Romania Int'l	11810	9750	9690	5955					Eu		06/27/90
1930	0300	South Africa	Radio Orion	3320										05/15/90
1930	2000	Sweden	R Sweden	7265	6065							Ew/Af/ME		09/18/90
1930	2000	Yugoslavia	R Yugoslavia	17840	15165	7165	6165					Af/Eu		10/14/90
1935	1955	Italy	RAI	11800	9710	7275						Great Britain		04/08/89
1945	2045	India	AIR	11860	9755							GOS/W/N Afr		05/24/89
1948	1955	Sudan	Sudan Broadcasting Serv	11635									news/Eng	01/25/90



2100	2130	Norway	R Norway Int'l	15165				Far East/Aus	So & Su only	08/23/90
2100	2130	Portugal	R Portugal	15250				Afr	N-F	10/26/90
2100	2125	Romania	R Romania Int'l	11940	11810	9750	9690	Eu		06/27/90
2100	2200	Spain	Spanish Foreign Radio	15375	15280			Afr/Eu		08/05/90
2100	2130	Switzerland	Swiss R Int'l	15525	13635	12035	9885	Afr	#3 v Gabon	03/30/90
2100	2150	Turkey	V of Turkey	9795				Eu		09/19/90
2100	0100	USA	KVOM	17775				CA/Carib	100 deg	07/25/90
2100	2200	USA	VOA/Af	21625	21485	17800	15580 15410	Africa		09/29/90
2100	2200	USA	VOA/E As	17735	15185	11870		E As/SE As/Pac		09/29/90
2100	2200	USA	VOA/ME	21570	21540	17885	15300 15205 11960 11905 11710	ME/W Af/Eu		09/29/90
2100	2200	USSR	R Kiev	9610	9600	7280	7240 7150	Eu		10/26/90
2100	2200	USSR	R Moscow	17580	12010	11860	9735 9610 9520 7175	World Service	#3 v Cuba	10/14/90
2100	2115	Vatican State	Vatican Radio	21650	17730	17710		CSSM Af		03/22/90
2105	2205	Syria	R Damascus	15095	12085			NA/Aus/NZ		03/25/90
2115	2245	Egypt	R Cairo	9900				Eu		08/16/90
2130	2200	Australia	R Australia	17795	15320	15240	15160 11880	As/Pac/PapMG		08/30/90
2130	2200	Bulgaria	R Sofia	15330	11765	11660		Eu		09/19/90
2130	2200	Canada	R Canada Int'l	17820	15150	13670	11880	Afr		01/21/90
2130	2200	Ecuador	HCJB	21480	17790			Eu		07/28/90
2130	2200	England	BBC	5975				US: NA/CA/Carib		09/23/89
2130	2200	Japan	R Japan	21610	17810	15270	11815	GOS/As/Oc/Eu		09/17/90
2200	2230	Australia	R Australia	17795	15465	15240	15160 13605 11880	As/Pac/PapMG		08/30/90
2200	2225	Belgium	BRT	15515	9925	5910		Afr/Eu		09/17/90
2200	2300	Canada	R Canada Int'l	15325	11945			W Eu		09/22/90
2200	2230	China	R Beijing	3985				Eu	v Switzerland	10/12/90
2200	2300	Cuba	R Havana	11705				Eu	v USSR   may be 11930	06/22/90
2200	0030	England	BBC	12095	9915	9590	7325 6175 5975	US: NA/CA/Carib		03/16/90
2200	2225	Finland	R Finland	15430	11755	6120		Aus/S&SE As/Af/ME/Eu		09/17/90
2200	2225	Italy	RAI	11800	9710	5990		Japan		10/14/90
2200	2230	Japan	R Canada Int'l	15440	11705			SE As	v Japan	09/23/89
2200	2400	N Mariana Is	KHBI	15405	15275			China/Jap/Phil/Indon	310/24C deg	02/25/90
2200	2205	Nigeria	R Nigeria	4990				News in Eng		10/11/89
2200	2230	Norway	R Norway Int'l	17730	15195			W Af/SA	So & Su only	08/23/90
2200	2230	Sweden	R Sweden	6065				Eu/Af/ME		09/18/90
2200	2300	Taiwan	V of Free China	11805	9852			Eu	v WFR	10/26/90
2200	2400	United Arab Emirates	V of UAE	11985	9600	6170		WNA		04/13/90
2200	0300	USA	KUSW	15590				Canada	70 deg	09/19/90
2200	2215	USA	VOA/Am	15225	11880	9640		Caribbean/Americas	N-F	09/29/90
2200	2400	USA	VOA/E As	17820	17735	15305	15290 15185 11870 11760 9770	E As/SE As/Pac		09/29/90
2200	2400	USA	VOA/ME	17885	15445	15225	11960 11905 9530	ME/W Af/Eu		09/29/90
2200	2400	USA	WCSN	15300				W Afr	90 deg	03/08/89

2200	2400	USA	USNB	17555	9465				SA/ME	Canada	152/25 deg	09/25/89		
2200	2300	USSR	R Moscow	15560	15355	12060	11930	11840	11730	11710	9610	World Service	#5 v Cuba	10/14/90
2200	2300	USSR	R Stn Peace & Progress	11980	11830	9550	9470	5905				Eu		09/19/90
2200	2245	Yugoslavia	R Yugoslavia	15165	6100	5955						Af/Aus/Eu/NA		10/15/90
2205	0710	New Zealand	R New Zealand Int'l	17675								Pacific	Su-F (F->Sa -0645)	07/02/90
2205	2225	Vatican State	Vatican Radio	11830	9615	7125						As/Aus/NZ		10/09/90
2230	2300	Albania	R Tirana	9480	7215							Eu		10/14/90
2230	2300	Australia	R Australia	21740	17795	15465	15240	15160	13605	11880		As/Pac/PapMG		08/30/90
2230	2330	Bulgaria	R Sofia	15330	11660							W Eu		09/19/90
2230	2300	Israel	Kol Israel	17575	12077	11655	11605	9435				Af/LA/NA/W Eu		08/23/90
2230	2300	Lithuania	R Vilnius	9675	6100							Eu		09/19/90
2230	2300	Poland	R Polonia	7270	7125	6135	5995					Eu		08/15/89
2230	2300	Switzerland	Swiss R Int'l	6190								Eu		09/19/90
2240	2248	Greece	V of Greece	11645								Aus	News/Eng	06/24/90
2245	2300	Ghana	Ghana BC Corp	4915	3366								ru/English	09/09/90
2245	0115	India	AIR	15110	11745	11715	9910	9535				GOS/As		04/28/90
2300	2330	Australia	R Australia	21740	17795	17750	15465	15240	15160	13605	11880	As/Pac/PapMG		09/22/90
2300	2330	Canada	R Canada Int'l	11730	9735							Carib		09/23/89
2300	0100	Costa Rica	AMR Costa Rica	11870	9725									12/14/89
2300	1345	Costa Rica	R for Peace Int'l	7375									Sa-Su USB mode	09/30/90
2300	0100	Guam	KSDA	15610								SE As	270 deg	09/11/90
2300	2400	Japan	R Japan	21610	17810	15210	15195	11835				GOS/As/Eu/ME/Af	#345 v Gabon	09/17/90
2300	2330	Lithuania	R Vilnius	17690	17665	15180	11790	11675	6100			NA/Eu		09/19/90
2300	2350	North Korea	R Pyongyang	13650	11735							Am		12/28/87
2300	2310	Sierra Leone	SLBS	3316									ru/Eng	09/09/90
2300	2350	Turkey	V of Turkey	17880	9685	9665	9445					Aus/Eu/ME/NA		09/19/90
2300	2400	USA	WHRI	13760	9495							Eu/CA/SA		09/19/90
2300	2400	USA	WRNO	7355								NA/CA/Eu	42/157 deg	08/28/89
2300	0100	USA	WYFR	15170	13695	5985						NA	20 deg alt freq	03/15/90
2300	2400	USSR	R Moscow	17700	15355	15290	11930	11730	11710	9530		NA	#283 Network R-Sa	10/14/90
2305	2355	Poland	R Polonia	7270	7125	6135	5995					Eu		08/15/89
2330	2400	Albania	R Tirana	11825	9760	6120						NA		10/14/90
2330	2400	Australia	R Australia	21740	17795	17750	15465	15240	13605	11880		As/Pac/PapMG		09/22/90
2330	0300	Costa Rica	R for Peace Int'l	7375									R-F USB mode	09/30/90
2330	2400	Sweden	R Sweden	11705	9695							LA		09/18/90
2330	2400	Vietnam	V of Vietnam	15010	12020	9840								11/07/89
2335	2345	Greece	V of Greece	12105	9425							SA/CA	News/Eng	10/26/90

## All Records Included

## ENGLISH LANGUAGE DX SHOWS: By Day of Week

Compiled by Thomas R. Sundstrom, W2XG

Shortwave DX Program	Show Xmsn		Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Target Area	Notes re DX Show	Record		
	Start	Time												Time	Start	Last
** DAY OF THE WEEK: Sunday																
World of Radio	0030	0000	USA	WRNO					7355			NA/CA		10/26/90		
Radio World	0035	0030	Belgium	BRT					13675	9925		SA/NA		09/17/90		
S&L Digest	0036	0000	Canada	R Canada Int'l					9755	5960		USA		10/26/90		
DXers Unlimited	0040	0000	Cuba	R Havana					11820			Americas		04/07/90		
DX Party Line	0050	0030	Ecuador	HCJB					25950	15155	11775	NA		04/25/90		
Communications World	0110	0100	USA	VOA/Am					15205	11580	9815	9455	6130	5995	Caribbean/Americas	
World of Radio	0215	2300	Costa Rica	R for Peace Int'l					7375						09/29/90	
SW Merry-Go-Round	0220	0200	Switzerland	Swiss R Int'l					17730	12035	9885	9650	6135	6095	NA	
DX Asiatwaves	0230	0200	Guam	KSDA					13720						As	
DXers Unlimited	0240	0200	Cuba	R Havana					11820	9505					Americas	
DX Mailbag	0245	0200	Romania	R Romania Int'l					15380	11960	11830	9570	9510	5990	NA	
DX Party Line	0250	0030	Ecuador	HCJB					25950	15155	11775				NA	
Bonaire Wevelength	0330	0255	Netherland Antilles	Trans World Radio					11930	9535					NA/Carib	
SW Merry-Go-Round	0420	0400	Switzerland	Swiss R Int'l					12035	9885	9650	6135			NA	
Listeners' Corner	0430	0400	Austria	R Canada Int'l					11925						ME	
DXers Unlimited	0440	0400	Cuba	R Havana					11820	11760	9505	5965			Americas	
DX Party Line	0520	0500	Ecuador	HCJB					15155	11775					NA	
DXers Unlimited	0640	0600	Cuba	R Havana					11835						Americas	
SW Feedback	0835	0800	South Korea	R Korea					13670	7550					Eu	
AWR DX Program	0915	0900	Portugal	AWR Europe					9670						Eu	
DX Corner	0930	0900	Japan	R Japan					21610	17890	15270	11840			GDS/As/Oc	
SW Feedback	1040	1030	Canada	R Korea					11715						EWA	
SW Club	1045	1045	Hungary	R Budapest					15220	15160	11910	9835	9585	7220	Eu	
Shortwave Panorama	1130	1130	Austria	ORF					21490	15430	13730	6155			EMA/As/Eu	
SW Feedback	1135	1100	South Korea	R Korea					15575						ME/Afr	
DX Programs	1200	1200	USSR	R Tashkent					17760	15470	11860	9715	9600	7325	As	
Listeners' Corner	1407	1400	China	R Canada Int'l					15210	11955					SE As & India	
Communicator	1430	1430	Australia	R Australie					21775	17630	11930	11910	11800	11720	9770	As/Pac/PapNG
Shortwave Panorama	1430	1430	Austria	ORF					21490	13730	11780	6155			W Afr/SE As/Eu	
SW Feedback	1435	1400	South Korea	R Korea					9570						SE As	
DX Corner	1530	1500	Japan	R Japan					21700	11865					GDS/Am/Eu/ME	

Su after 2nd Sat/mo  
occ has sked data

SW Feedback	1635	1600	South Korea	R Korea	9870	5975		ME/Afr/GOS		11/05/88		
SW Feedback	1835	1800	South Korea	R Korea	15575			Eu		11/05/88		
SWL Digest	1836	1800	Canada	R Canada Int'l	17820	15260	13670	Afr		04/15/90		
DX Corner	2020	2000	Israel	Kol Israel	17630	15660	12077	Af/W Eu/NA		08/23/90		
SW Feedback	2105	2030	South Korea	R Korea	15575	7550	6480	Eu/ME/Afr		11/05/88		
DX Show & Mailbag	2115	2100	USSR	R Kiev	9610	9600	7280	7240	7150	Eu	09/30/90	
DX Corner	2130	2100	Japan	R Japan	21610	17890	17810	15270	11815	GOS/As/Oc/Eu	04/05/90	
World of Radio	2130	1600	USA	WRNO	15420					NA/CA/Eu	10/26/90	
Listeners' Corner	2135	2130	Canada	R Canada Int'l	17820	15150	13670	11880		Afr	occ has sked data	04/15/90
Listeners' Corner	2207	2200	Japan	R Canada Int'l	15460	11705				SE As	occ has sked data	03/16/90
World of Radio	2230	1800	Costa Rica	R for Peace Int'l	21565	13630						02/02/90
SWL Digest	2236	2200	Canada	R Canada Int'l	15325	11945				W Eu		09/22/90
DX Corner	2250	2230	Israel	Kol Israel	17575	12077	11655	11605	9635	Af/LA/NA/W Eu		08/23/90
SWL Digest	2306	2300	Canada	R Canada Int'l	11730	9755				Carib		04/15/90
R Sofia Calling	2315	2230	Bulgaria	R Sofia	15330	11660				W Eu		09/19/90

\*\* DAY OF THE WEEK: Monday

DX Show & Mailbag	0015	0000	USSR	R Kiev	17690	17665	15180	12000	11790	11675	NA		09/30/90
DX Corner	0020	0000	Israel	Kol Israel	12077	11605	9635				NA		08/23/90
SW Feedback	0035	0000	South Korea	R Korea	15575						Am		04/14/90
R Sofia Calling	0045	0000	Bulgaria	R Sofia	15330	11660					NA		09/19/90
Listeners' Corner	0106	0000	Canada	R Canada Int'l	9755	5960						occ has sked data	10/24/90
DX Corner	0120	0100	Israel	Kol Israel	12077	11605	9635				NA		08/23/90
DX Corner	0130	0100	Japan	R Japan	17845	17835	17810	5960			GOS/Asia/NA		04/05/90
DX Corner	0220	0200	Israel	Kol Israel	12077	11605	9635				NA		08/23/90
DX Corner	0330	0330	Japan	R Japan	21610	17825	17810	15325	15195		GOS/Asia/NA		04/05/90
Mailbag	0430	2205	New Zealand	R New Zealand Int'l	17675						Pacific	1st & 3rd Mon/mo	07/02/90
R Sofia Calling	0445	0400	Bulgaria	R Sofia	17835	17825	15290	11735	11720		Afr/NA		09/19/90
World of Radio	0515	0315	Costa Rica	R for Peace Int'l	7375								05/05/90
Waveguide	0530	0500	England	BBC	9915	9640	5965				US: NA/CA/Carib		11/18/89
SW Feedback	0635	0600	South Korea	R Korea	11830	9570	7275				WNA/GOS		09/30/90
Communicator	0730	0730	Australia	R Australia	21775	21525	17630	15240	13705	11930	11880	As/Pac/PapMG	11/26/89
Radio World	0735	0730	Belgium	BRT	13675	11695	6035				Eu/Aus		09/17/90
Radio World	1005	1000	Belgium	BRT	21810	13675	6035				Afr/Eu		09/17/90
DX Asieweves	1030	1000	Guam	KSDA	13720						As		01/16/90
DXers Calling	1040	1000	India	AIR	21735	17865	17387	15335	15050		GOS/ME As/AusNZ	biweekly	04/28/90
Radio World	1405	1400	Belgium	BRT	21810						SE As		09/17/90
DXers Calling	1435	1330	India	AIR	11760	9565					GOS/SE As	biweekly	04/28/90
SW Club	1615	1615	Hungary	R Budapest	15220	15160	11910	9835	9585	7220	Eu		09/17/90
DXers Calling	1830	1800	India	AIR	15360	11935					GOS/E Afr	biweekly	04/28/90
DXers Calling	2120	2045	India	AIR	15255	11715	11620	9910	9550	7412	GOS/W Eu/AusNZ/Af	biweekly	04/28/90

DX Programme	2250	2230	Lithuania	R Vilnius	9675	6100			Eu	bi-weekly	10/01/90	
** DAY OF THE WEEK: Tuesday												
DXers Calling	0040	2245	India	AIR	15110	11745	11715	9910	9535	SOS/As	biweekly	04/28/90
SV Club	0230	0230	Hungary	R Budapest	15160	11910	9835	9585	9520	6110	NA	09/17/90
Waveguide	1115	1100	England	BBC	11775	9915	9740	9515	6195	5965	WS: NA/CA/Carib	12/19/88
Sweden Calling DXers	1240	1230	Sweden	R Sweden	21570	17740	11715				As/Pac	09/18/90
StL Digest	1335	1300	Canada	R Canada Int'l	17820	11855	9635				Carib/USA	10/26/89
Sweden Calling DXers	1410	1400	Sweden	R Sweden	21610	9765					As/Pac	09/21/88
World of Shortwave	1515	1458	Seychelles	FEBA	15330	9590					SE As	12/16/89
Sweden Calling DXers	1540	1530	Sweden	R Sweden	21500	17880					NA	09/21/88
DX Program	1605	1600	Poland	R Polonia	9540	6135					Eu	08/19/89
Sweden Calling DXers	1810	1800	Sweden	R Sweden	11900	9655	6065				Eu/Af/NE	09/18/90
Sweden Calling DXers	1940	1930	Sweden	R Sweden	7265	6065					Eu/Af/NE	09/18/90
For Radio Amateurs	2015	1930	Romania	R Romania Int'l	11810	9750	9690	5955			Eu	04/03/90
Sweden Calling DXers	2210	2200	Sweden	R Sweden	6065						Eu/Af/NE	09/18/90
World of Radio	2230	2000	Costa Rica	R for Peace Int'l	21565	13630						02/02/90
DX Program	2235	2230	Poland	R Polonia	7270	7125	6135	5995			Eu	08/19/89
DX Program	2330	2305	Poland	R Polonia	7270	7125	6135	5995			Eu	08/22/89
Sweden Calling DXers	2340	2330	Sweden	R Sweden	11705	9695					LA	09/18/90
** DAY OF THE WEEK: Wednesday												
Sweden Calling DXers	0110	0100	Sweden	R Sweden	9770						As/Pac	03/21/89
World of Radio	0200	2330	Costa Rica	R for Peace Int'l	7375							01/31/90
Sweden Calling DXers	0210	0200	Sweden	R Sweden	11705	9695					NA	09/18/90
SV Club	0230	0230	Hungary	R Budapest	15160	11910	9835	9585	9520	6110	NA	09/17/90
For Radio Amateurs	0245	0200	Romania	R Romania Int'l	15380	11940	11830	9570	9510	5990	NA	06/27/90
Sweden Calling DXers	0340	0330	Sweden	R Sweden	11705	9695					NA	09/18/90
World of Radio	0545	0315	Costa Rica	R for Peace Int'l	7375							01/31/90
DX Program	0635	0630	Poland	R Polonia	9675	7270					Eu	08/19/89
DX Special	0740	0730	Czechoslovakia	R Prague Int'l	21705	17840					As/Pac	09/19/90
Ham Radio Today	0750	0700	Ecuador	HCJB	15270	11835	9610				Eu	04/25/90
Ham Radio Today	0751	0730	Ecuador	HCJB	11925	9745					S Pac	04/25/90
Ham Radio Today	1020	0730	Ecuador	HCJB	11925	9745					S Pac	04/25/90
DX Program	1435	1430	Poland	R Polonia	11815	9540	6135				Eu	08/19/89
DX Special	1710	1700	Czechoslovakia	R Prague Int'l	11990	7345	6055	5930			Eu	09/19/90
DX Program	1835	1830	Poland	R Polonia	11840	9525	7285	7125	6135	5995	Af/Eu	08/19/89
DX Special	1840	1830	Czechoslovakia	R Prague Int'l	7345	6055					Eu	09/19/90
DXer's Special	1920	1900	Argentina	RAE	15345						Eu/Afr	07/21/90
Ham Radio Today	1920	1900	Ecuador	HCJB	21480	17790	15270				Eu	04/25/90
DX Special	2010	2000	Czechoslovakia	R Prague Int'l	11990	7345	6055	5930			Eu	09/19/90

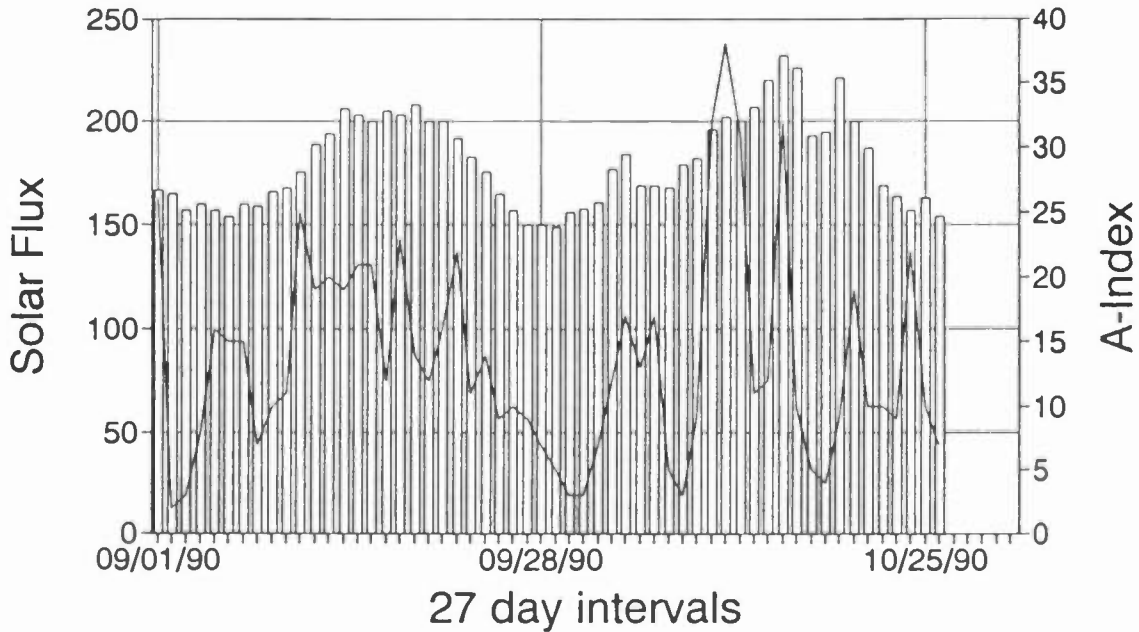
DX Special	2110	2100	Czechoslovakia	R Prague Int'l	11990	7345	6055	5930		Eu		10/17/90	
** DAY OF THE WEEK: Thursday													
Ham Radio Today	0050	0030	Ecuador	HCJB	25950	15155	11775			NA		04/25/90	
DX Special	0110	0100	Czechoslovakia	R Prague Int'l	11680	7345	5930			NA		05/23/90	
Waveguide	0130	0030	England	BBC	12095	9915	9590	7325	6175	5975	US: NA/CA/Carib	12/19/88	
World of Radio	0130	0000	USA	WRNO	7355					NA/CA		10/26/90	
Ham Radio Today	0250	0030	Ecuador	HCJB	25950	15155	11775			NA		04/25/90	
DX Special	0310	0300	Czechoslovakia	R Prague Int'l	11680	7345	5930			NA		05/23/90	
DX Special	0410	0400	Czechoslovakia	R Prague Int'l	11680	7345	5930			NA		05/23/90	
Ham Radio Today	0520	0500	Ecuador	HCJB	15155	11775				NA		04/25/90	
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	
Media Network	1050	1030	Netherlands	R Nederland	11890	6020				Aus/Carib		04/10/88	
Media Network	1150	1130	Netherlands	R Nederland	21520	21480	17575	9715	5955	Eu/NE/Ae		08/22/86	
Media Network	1450	1430	Netherlands	R Nederland	17605	17575	15150	13770	5955	S&E As/Eu		09/04/86	
SW Club	1615	1615	Hungary	R Budapest	15220	15160	11910	9835	9585	7220	Eu	09/17/90	
World of Radio	1630	1600	USA	WRNO	15420					NA/CA/Eu		10/26/90	
Media Network	1650	1630	Netherlands	R Nederland	15570	6020				ESS Afr		09/04/86	
Media Network	1850	1830	Netherlands	R Nederland	21685	17605	15560	6020		Afr		08/22/86	
Media Network	2050	2030	Netherlands	R Nederland	15560	13700	9860			W Afr		08/22/86	
DX Programme	2320	2300	Lithuania	R Vilnius	17690	17665	15180	11790	11675	6100	NA/Eu	bi-weekly	10/01/90
** DAY OF THE WEEK: Friday													
World of Radio	0000	0000	USA	WRNO	7355					NA/CA		10/26/90	
Media Network	0050	0030	Netherlands	R Nederland	15560	6165	6020			EMA		03/17/89	
World of Radio	0130	0000	USA	WRNO	7355					NA/CA		10/26/90	
SW Club	0230	0230	Hungary	R Budapest	15160	11910	9835	9585	9520	6110	NA	09/17/90	
Media Network	0350	0330	Netherlands	R Nederland	11720	9590				LNA		03/17/89	
Communicator	0430	0430	Australia	R Australia	21775	21525	17795	17750	17715	17630	15465	As/Pac/PapNG	06/15/90
Communicator	1030	1030	Australia	R Australia	21775	17715	15160	9580		As/Pac/PapNG		11/26/89	
DX Show	1615	1600	Portugal	R Portugal	21530					ME		05/08/89	
Mailbag	1905	1745	New Zealand	R New Zealand Int'l	15485					Pacific	Fr after 1&3 Mo/mo	07/02/90	
World of Radio	2000	2000	Costa Rica	R for Peace Int'l	21565	13630						02/02/90	
DX Show	2015	2000	Portugal	R Portugal	11740					Eu		10/24/90	
DX Show	2115	2100	Portugal	R Portugal	15250					Afr		10/24/90	
R Sofia Calling	2145	2130	Bulgaria	R Sofia	15330	11765	11660			Eu	1st of wknd series	09/19/90	
World of Radio	2330	2330	Costa Rica	R for Peace Int'l	7375							01/31/90	
** DAY OF THE WEEK: Saturday													
R Sofia Calling	0015	0000	Bulgaria	R Sofia	15330	11660				NA		09/19/90	



SW Club	0230	0230	Hungary	R Budapest	15160	11910	9835	9585	9520	6110	NA	09/17/90
DXer's Special	0235	0200	Argentina	RAE	11710						Americas	07/21/90
DX Show	0245	0230	Portugal	R Portugal	11840	9705	9680	9600			SA/NA	01/16/88
World of Radio	0315	2300	Costa Rica	R for Peace Int'l	7375							01/31/90
World of Radio	0400	0400	USA	WRNO	6185						NA/CA	10/26/90
World of Radio	0645	2300	Costa Rica	R for Peace Int'l	7375							02/02/90
Radio World	0735	0730	Belgium	BRT	13675	11695	6035				Eu/Aus	09/17/90
R Sofia Calling	0745	0730	Bulgaria	R Sofia	17825	15160	11720				W Eu	09/19/90
DX Party Line	0750	0700	Ecuador	HCJB	15270	11835	9610				Eu	04/25/90
DX Party Line	0751	0730	Ecuador	HCJB	11925	9745					S Pac	04/25/90
Radio World	1005	1000	Belgium	BRT	21810	13675	6035				Afr/Eu	09/17/90
DX Party Line	1020	0730	Ecuador	HCJB	11925	9745					S Pac	04/25/90
SW Merry-Go-Round	1115	1100	Switzerland	Swiss R Int'l	21770	17830	15570	13635			SE As/Aus/NZ	09/06/86
SW Club	1130	1130	Hungary	R Budapest	15220	15160	11910	9835	9585	7220	Eu	09/17/90
Bonaire Wavelength	1130	1055	Netherland Antilles	Trans World Radio	15345	11815					EMA/Carib	05/10/89
DX Programme	1330	1330	USSR	R Tashkent	17740	15470	11860	9715	9600	7325	As	2nd Sat of month 11/05/88
SW Merry-Go-Round	1345	1330	Switzerland	Swiss R Int'l	21695	17830	15570	13635	11695	7480	E Afr/India/Aus/NZ	09/04/86
Radio World	1405	1400	Belgium	BRT	21810						SE As	09/17/90
SW Merry-Go-Round	1545	1530	Switzerland	Swiss R Int'l	21630	17830	15430	13685			ME/E Afr	05/24/86
DX Asiawaves	1630	1600	Guam	KSDA	11980						India	01/16/90
Radio World	1835	1830	Belgium	BRT	21810	17550	5910				Afr/Eu	09/17/90
DXers Unlimited	1915	1900	Cuba	R Havana	15435						Eu/Af/ME	04/14/90
DX Party Line	1920	1900	Ecuador	HCJB	21480	17790	15270				Eu	04/25/90
World of Radio	1930	1800	Costa Rica	R for Peace Int'l	21565	13630						02/02/90
DX Mailbag	2015	1930	Romania	R Romania Int'l	11810	9750	9690	5955			Eu	06/27/90
Communications World	2110	2100	USA	VQA/AF	21625	21485	17800	15580	15410		Africa	09/29/90
SW Merry-Go-Round	2115	2100	Switzerland	Swiss R Int'l	15525	13635	12035	9885			Afr	05/24/86
DX Radio Tips	2120	2100	Turkey	V of Turkey	9795						Eu	Biweekly 09/19/90
Radio World	2205	2200	Belgium	BRT	15515	9925	5910				Afr/Eu	09/17/90
Listeners' Corner	2206	2200	Canada	R Canada Int'l	15325	11945					W Eu	occ has sked data 09/22/90
DX Radio Tips	2320	2300	Turkey	V of Turkey	17880	9685	9665	9445			Aus/Eu/ME/NA	Biweekly 09/19/90
DX Asiawaves	2330	2300	Guam	KSDA	15610						SE As	01/16/90

# Solar Flux & A-Index: Sep-Oct 1990

Recorded from WWV



by Sundstrom



half a century. The airtime of such broadcasts, reports the Montsane news agency, will now amount to only 30 minutes, whilst the 100 minutes, now a vacant slot, will be given over to musical and other broadcasts from Mongolian Radio.

(Editorial note: The remaining broadcast in Mongolian is relayed by Mongolian Radio from 0930-1000 gmt on 7262, 4995, 4865, 4850, 4080, and 207 kHz as part of its domestic radio service.) (via WBI 12/10)

NEW ZEALAND - Radio New Zealand's Int'l "Mailbag" program sked during New Zealand Standard Time is 0330 Mondays UTC and repeated 1805 Fridays UTC.

RNZI will remain on the 24-hour schedule until Nov. 12, as transmitter adjustments continue. 9855 signs on at 0545. (actually 0530, so I can catch the children's program "Ears" - bmm), 9690 at 0900 & RNZI may bring back a "Japanese Corner" on the Mailbag program at some time in the future. A Japanese segment of the Mailbag was a regular feature in the early 1980's on the 7.5 kW transmitter. (RNZI "Mailbag" program on 15/10 w/Tony King via Mike Fern, Covina, CA)

15485, 1652, RNZI, Bell Bird IS, then M announcer with opening announcements into "Now reading from the Bible" followed by 'Morning Hymn' at 1656-1659 then M talk to 1700 time signal into Pacific Regional News read by Ian Morrison on 22/10 (bmm). Heard 17675 from tune-in 0000 & they never did switch freqs, as mentioned above at 0530 (0545), on 23/10. (bmm)

PARAGUAY - Radio Nacional, Asuncion is again audible on its 49 metre band channel of 6025. Spanish programming is noted at 0845, in parallel w/9735. (via Radio Australia's 'Japanese DX Time' program on 13/14/10 edited by Craig Seager of the Australian Radio DX Club.)

PERU - Radio Cora 4914.5 at 1050 and again in the evening until closing at 0505. (Ernie Behr, Kenora, Ontario via Glenn Hauser on RCI's 'SWLD' 21/10)

Radio del Pacifico 9675 is verifying via J. Petronio Allauca (CIDX via Craig Edwards 'DXPRESS' column the 'Southern Cross DX Club's' "DX Post")

PHILIPPINES - FEBC in Tagalog on 15480 at 1600-1700\* to ME on 14/10. Program name was "Ugnayan" and when they gave ID it was "Ugnayan" c/of FEBC Box 1, Valenzuela, Metro Manila, Philippines. Ugnayan was explained to me as "If you have a problem you can write to them." (bmm)

SAUDI ARABIA - BSKSA starts transmissions on two more frequencies already used by Iraqi Radio - The Broadcasting Service of the Kingdom of Saudi Arabia (BSKSA) General Service from Riyadh was observed on 11990 kHz from tune-in at approximately 11025 gmt on 11th October. The same service was observed in parallel on 6055 kHz from 1645 gmt. Both these frequencies were formerly used by Radio Kuwait until Iraq's invasion of Kuwait, and - since then - have carried Radio Baghdad General Service or Voice of the Masses programmes.

The BSKSA General Service was unheard on 11th October on 15490 kHz, a frequency it has been using since about 27th September. It had moved to that frequency from 15495 kHz a few days after Radio Baghdad made the same frequency change on 23rd September, presumably in an attempt to escape interference from BSKSA. (WBI 19/10)

SPAIN - REE is announcing and using NF's as follows, via Beijing relay 11-12 in SP on 11910 ex 11915. The 12-13 broadcast remains on 9620. 11910 is also used at 1300. The station is announcing the 1100 service as for Australia but sked shows it directed to the Philippines. The REE sked, effective 30/9, also shows th following special broadcasts to the Gulf: 07-2145 on 11920; 10-2145 on 17890; 1930-2245 on 17870; 1930-2330 on 15110. All in SP. (Don Rhodes via 'Shortwave Station News' edited by Mick Ogrizek in the 'Australian Radio DX Club's "Australian DX News" 90/10)

SRI LANKA - Don Rhodes received a letter from Deutsche Welle advising that they are considering closing the Trincomalee relay station. (via 'Shortwave Station News' edited by Mick Ogrizek in the 'Australian Radio DX Club's' "ADXN" 90/10)

ST. HELENA - Special Radio St. Helena broadcast observed on shortwave. - At 2000 gmt on 6th October, a relay of the BBC World Service news in English was observed on 11092.5 kHz, in the lower side band (LBS) mode. Following

the news were several public service announcements for the island of St. Helena, and at 2012 gmt the following station identification announcement was broadcast: "This is the international service of Radio St. Helena in the South Atlantic Ocean transmitting in the mediwave and shortwave band, and you're listening to the 'Anything Goes' radio programme.."

The programme consisted of pop music with live phone calls from shortwave listeners in Europe and North America who were hearing the broadcast. At approximately 2027 gmt the announcer said "...as you people probably be aware tonight is a special broadcast in that we are also being heard on shortwave this evening. Its a special broadcast for the Store Tuna DXer's Club in Sweden..." The shortwave broadcast ended at 2100 gmt. (WBI 12/10)

11092, 2005-2100, Cable & Wireless Ltd, Per tip in "Fine Tuning" #574, checked for special test (for Nordic DX Championships) on 6/10 from 2005-2040 UTC. Carrier with bits of audio noted; fair level by 2030. Test reportedly via "SSB", but unable to tune via LSB or USB. If AM, poorly modulated carrier with possible female announcer. Music seemingly instrumental. Selection at 2055 sounded like polka or "South Pacific Island Music"! During talk by announcer, only "clear" word sounded like "shortwave." Audio ceased at 2100 and carrier off at 2105. Reportedly, also on 9338 kHz, but not even a carrier was noted. (Mike Hardester, NC) & Eric Swedberg, Portland, OR also heard them.

ST. KITTS & NEVIS - 2475Harmonic, Radio Paradise, 825 x 3. Thanks to tip in "DX Listening Digest" #28. Tuned in to religious talk at 0150. He went right through the hour but at 0201 I heard a bar of music. This was followed by station ID "This is Radio Paradise." About another 30 seconds of talk followed by a second ID then religious programming started again. "There are great differences among believers." was a typical line on 20/9 (Hans Johnson, MD)

SWEDEN - Radio Sweden's program 'Sweden Calling DXers' from November will only be on the 1st and 3rd Tuesdays. Electronic only, no more by mail. (Thanks to Joe Hanlon, NJ for phone call on this)

SWITZERLAND - Swiss Radio Int'l Sked 30/9-30/3/91: SAM: 2215-2230\*\*\*\*, 2230-23 PT, 23-2330 IT, 2330-24 GM, 24-0030 FR, 0030-01 SP on 9810, 9885, 12035, 15570.

N & Cam: 0115-0130\*\*\*\* on 6095, 6135, 9650, 9885, 12035, 17730; 0130-02 IT on 6095, 9885, 12035; 0130-02 FR on 6135, 9650, 17730; 02-0230 EG on 6095, 6135, 9650, 9885, 12035, 17730; 0230-03 GM on 9885, 12035; 0230-03 SP on 6095, 6135, 9650, 17730; 0315-0330\*\*\*\*, 0330-04 IT, 04-0430 EG, 0430-05 GM, 05-0530 FR on 6135, 9650, 9885, 12035.

Africa: 0545-0600 GM, 06-0630 FR, 0630-07 EG, 07-0730 IT on 15430, 17570, 21770.

Australasia: 0745-0800\*\*\*\*, 08-0830 IT, 0830-09 EG, 09-0930 GM, 0930-10 FR, 10-1030 EG on 9560, 13685, 17670, 21695.

Far East :1045-11\*\*\*\*, 11-1130 EG, 1130-12 FR, 12-1230 GM, 1230-13 IT on 13635, 15570, 17830, 21770.

S & SE Asia: 1315-1330\*\*\*\*, 1330-14 on 7480, 11695, 13635, 15570, 17830, 21695; 14-1430 FR on 7480, 13635, 15570, 21695; 14-1430 IT on 11695, 17830; 1430-15 GM on 7480, 11695, 13635, 15570, 17830, 21695.

Near East & E.Africa: 1515-1530\*\*\*\*, 1530-16 EG, 16-1630 FR, 1630-17 GM, 1630-17 IT on 13685, 15430, 17830, 21630.

Africa: 1715-1730\*\*\*\*, 1730-1830 AR on 9885, 11955, 15525, 17830, 21770; 1830-19 EG on 9855, 11955; 19-1930 GM, 1930-20 FR on 9885, 11955, 15525, 17830, 21770; 20-2030 IT on 12035, 13635, 15525; 2030-21 PT on 9885, 12035, 13635, 15525; 21-2130 EG on 9885, 12035, 13635, 15525; 2130-22 SP on 9885, 13635, 15525. \*\*\*\* = Romanche on Tue & Fri at 0115, 0315, 0745, 1045, 1315, 1515, 1715, 2215 & Music Mon & Thu at 0115, 0315, 0745, 1045, 1315, 1515, 1715, 2215.

Europe: 06-11, 1330-2050 on 3985; 06-2050 on 6165, 9535; 11-1330 on 12030.

Note: From 2215-01/19-2130 UTC 12035 via Gabon.

From 0115-03 UTC 17730 via Brazil

From 1315-15 UTC 7480/11695 via China (Beijing)

(via John Carson, OK)

TANZANIA - 5985, 1610, Radio Tanzania, Dar Es Salaam. Fair in English with

the evening program details. (Jerome Van der Linden, Saudi Arabia via Craig Edwards 'Shortwave Survey' column in the 'Southern Cross DX Club's' "DX Post")

TURKEY - Final D-90 HFBC Sked:

TARGET AREAS	M	KHZ	TIMES (UTC)	LANG	POWER (kw)	AZIMUTH (DEG)	REMARKS
Europe	19	15485	05-17	Turkish	500	294	Daily
	31	9640	17-23	Turkish	500	294	Daily
	31	9685	23-24	English	250	310	Daily
	31	9685	24-04	Turkish	250	310	Daily
	19	15265	06-10	Turkish	250	310	Daily
	19	15265	11-16	Turkish	250	320	Exc. Fri
	31	9795	1730-1830	German	250	320	Daily
	31	9795	21-22	English	250	320	Daily
	31	9795	22-23	French	250	320	Daily
	Balkans	49	6140	04-06	Turkish	250	295
25		11875	1030-11	Hungarian	500	312	Daily
25		11875	11-1130	Rumanian	500	319	Daily
25		11875	1130-12	Serbo-Croat	500	293	Daily
25		11875	12-1230	Albanian	500	283	Daily
41		7180	1530-16	Greek	250	267	Daily
41		7110	1830-1930	Greek	250	313	Daily
49		5980	17-18	Bulgarian	250	297	Daily
49		5980	18-22	Turkish	250	297	Daily
49		5980	22-23	Bulgarian	250	297	Daily
Middle East	25	11955	10-11	Arabic	250	152	Daily
	25	11955	11-16	Turkish	250	152	Daily
	25	11955	16-17	Arabic	250	152	Daily
	31	9665	23-24	English	250	152	Daily
North Africa	19	15160	10-11	Arabic	250	205	Daily
	19	15160	11-16	Turkish	250	205	Fri. Only
	19	15160	16-17	Arabic	250	205	Daily
	25	11775	17-23	Turkish	250	205	Daily
North West Asia	49	6120	04-05	Azerbaijani	250	25	Daily
	25	11925	05-10	Turkish	250	25	Daily
	25	11735	15-1530	Russian	500	25	Daily
South West Asia	19	15405	04-05	Azerbaijani	250	87	Daily
	19	15405	05-10	Turkish	250	87	Daily
	16	17785	13-1330	Urdu	500	100	Daily
	16	17785	1330-14	English	500	100	Daily
	16	17785	14-15	Persian	500	100	Daily
	31	9665	1930-2030	Azerbaijani	250	87	Daily
Australia	16	17880	23-24	English	500	104	Daily
	16	17880	24-04	Turkish	500	104	Daily
	16	17880	04-05	English	500	104	Daily
North America	31	9445	23-24	English	500	313	Daily
	31	9445	24-04	Turkish	500	313	Daily
	31	9445	04-05	English	500	313	Daily

Far East: 16 17785 1230-13 Chinese 500 65 Daily  
 (Thanks to Joe Hanlon, NJ for calling and letting me know sked had not taken  
 winter time into consideration - bmm)

New address: TRT Sitesi  
 OR-AN Yolu  
 Kat: 5-A  
 Ankara, Turkey  
 Phone: 90-4-1901732  
 FAX : 90-4-1901733

(via Coskun Arslan, Deputy Director General of Engineering)

UNITED ARAB EMIRATES - 11965(t), Abu Dhabi. Strange happenings here. First night to hear this (0155)//11815 and 13605 with AR music. Rechecked several times without hearing any announcements until recheck at 0213 revealed that all 3 frequencies had signed off on 28/9. (Hans Johnson, MD) 13675, Dubai Radio at \*0230 in AR. Station used to announce its frequencies in kilohertz at the start of the broadcast but now only gives the meter band. Excellent signal on 26/9. (Hans Johnson, MD)

UNITED KINGDOM - The BBC Sunday schedule for "Wave Guide" has been cancelled. It still can be heard at 0530 Monday UTC, at 1115 Tuesday UTC, and Thursday at 0130. The Sunday "Wave Guide" has been replaced by "Write On," a letterbox program presented by Paddy Feeney, at 0350 and 0750 Sundays and 2150 Saturdays. (Arthur Cushen, RNZI 'Mailbag' program on 15/10 via Mike Fern, Covina, CA)

UNITED STATES - 'World of Radio' on October 28th retimed to: Thu at 02 & 1630; Friday: 0000 & 0130; Sat: 04; Sun: 0030 & 2130. WRNO will use 7355 0000-04 then 6185 and until 0000 15420. (Glenn Hauser on RCI's 'SWLD' on 21/10)

U.S.S.R. - Plans for RSFSR radio and TV broadcasting; radio to start in November. - 'Govorit i Pokazyvayet Moskva', Moscow, in Russian 1-7 Oct 90. (Note: Mostly on TV except for this short paragraph - bmm)

It is intended that the Russian Federation radio broadcasting shall start at the beginning of November. For this the USSR Gosteleradio is allocating several hours of broadcasting time within the first, second and third programmes of All-Union Radio. Then over the course of the following year we have agreed to engage jointly in setting up a separate network of channels and transmitters for relaying Russian Federation programmes. There is a similar picture with regard to RSFSR television, too. It is a question of making available to start with a certain quantity of hours of screen time within the first and second All-Union programmes of Central Television.

In short, harmonious, joint work is taking place on the formation of the state television and radio of the RSFSR in its first stage. And things are moving forward. (WBI 5/10)

Radio Moscow reduces its Polish service by half. - Since 30th September, Radio Moscow has reduced its Polish service from eight one-hour broadcasts a day to four. Broadcasts expected at 14-15, 15-16, 18-19 and 21-22 have not been traced. Radio Moscow in Polish is now heard only as follows:

GMT	kHz
1600-1700	15260, 11830, 9890, 9640, 5905
1700-1800	15260, 11830, 9890, 9640, 5905
1900-2000	11830, 9890, 9640, 7310, 5905
2000-2100	11830, 9890, 9640, 7310, 5905

(via WBI 12/10)

VATICAN STATE - Bob Padula, Surrey Hills, Vic. reports that the "Four Voices" service from Vatican Radio is now on 15210, a new frequency. Reception was at 0800, in Italian. (via Radio Australia's 'Japanese DX Time' on 13/14/10 edited by Craig Seager of the "Australian Radio DX Club".)

VENEZUELA - 6010.6, Venezuela Radio Los Andes at 10245 w/canned ID by W in-between every song. Thanks to D'Angelo tip in "Fine Tuning" #564 for ID text. As Rich noted the station ID'd as Radio Mil Cuarenta. Also heard a time check between every song on 20/9. (Hans Johnson, MD)

VIETNAM - Craig Tyson of Western Australia reports reception of the Vietnamese regional at Playcu(sic) (probably Pleiku - I lived there for 8 months in 1968 - bmm) operating on 4787.1. Poor signals were observed from 1045 to sign-off at 1211. An identification announcement was given at 1200, in Vietnamese. (via Radio Australia's 'Japanese DX Time' program on 13/14/10 edited by Craig Seager of the "Australian Radio DX Club".)

5584v, 1130, Hoang Lien Son Broadcasting Service. Strong on this new freq ex-5610, heard from 1115-1320v and believed to be located in the provincial capital of Lao Cai//6595 weak. (Sarath Weerakoon, Colombo, Sri

Lanka via Craig Edwards 'Shortwave Survey' column in the 'Southern Cross DX Club's, "DX Post")

6254, 1130, Lai Chai (SIC) Broadcasting Service. Heard from 1115-1300 but xed with utes, quite a regular signal compared with other VT regionals. (Sarath Weerakoon, Colombo, Sri Lanka via Craig Edwards 'Shortwave Survey' column in the 'Southern Cross DX Club's "DX Post") (Probably Lai Chau - bmm)

6294, 1230, Son La Broadcasting Service. Heard here in VT from 12-14 but no trace of //4700. (Sarath Weerakoon, Colombo, Sri Lanka) & also at 1354 on 2/10 with female vocals until 1400\*. (Craig Edwards, Salisbury Sth Australia) (via Craig Edwards 'Shortwave Survey' column in the 'Southern Cross DX Club's, "DX Post")

YUGOSLAVIA - Radio Yugoslavia, Belgrade Sked:  
Times (gmt) & days..Languages, programmes, targets..Frequencies kHz/MHz/GHz

0000-0030	smtwtfs	Spanish	.....Am...	11835,9620,7220
0030-0100	smtwtfs	French	.....Am...	9620
0100-0145	smtwtfs	English	.....Am...	11735,9620
0700-****	s.....s	Multilingual Eu.....Au.....		25795,9620,7215
		for Yugoslavs working abroad		
0700-0800	s.....	Radio Sarajevo	(Serbo-Croat)	
0700-0800	.....s	Radio Novi Sad	(Hungarian)	
0800-0900	s.....	Radio Pristina	(Albanian)	
0800-0900	.....s	Radio Montenegro	(Serbo-Croat)	
0900-1000	s.....	Radio Skopje	(Macedonian)	
1000-1100	s.....	Radio Slovenia	(Slovene)	
1000-1100	.....s	Radio Belgrade	(Serbo-Croat)	
****-1100	s.....s			
1300-1330	smtwtfs	English	.....AsAuAm...	21715,21635,17725,9720
1500-1545	smtwtfs	Russian	Eu....As.....	15175,9620,7165
1545-1630	smtwtfs	Bulgarian	Eu.....	5995
1630-1700	smtwtfs	Arabic	..ME.....	11835,9620,7250
1700-1730	smtwtfs	French	EuMEaf.....	15165,9620,7215
1730-1800	smtwtfs	Albanian	Eu.....	7265,5995
1730-1815	smtwtfs	German	Eu.....	9620,7215
1800-1830	smtwtfs	Greek	Eu.....	7220
1830-1900	smtwtfs	Arabic	..ME.....	11835,9620,7250
1900-1930	smtwtfs	Russian	Eu....As.....	7240,7165,6005
1930-2000	smtwtfs	Albanian	Eu.....	1413-(via R. Pristina)
1930-2000	smtwtfs	English	Eu..AfAs.....	17840,15165,7165,6165
2000-2030	smtwtfs	Spanish	Eu.....Am..	17740, 7220
2030-2100	smtwtfs	German	Eu.....	5995
2030-2115	smtwtfs	Italian	Eu.....	7220
2100-****	smtwtfs	Multilingual Eu.....Au....		9720, 6100, 5955
		(For Yugoslavians working abroad)		
2100-2130	s.....	Radio Belgrade	(Serbo-Croat)	
2100-2130	.m.....	Radio Slovenia	(Slovene/German/English)	
2100-2130	.t.....	Radio Radio	(Serbo-Croat)	
2100-2130	...w...	Radio Sarajevo	(Serbo-Croat)	
2100-2115	...t..	Radio Pristina	(Albanian)	
2115-2130	...t..	Radio Novi Sad	(Hungarian)	
2100-2130	...f..	Radio Montenegro	(Serbo-Croat)	
2100-2130	.....s	Radio Skopje	(Macedonian)	
****-2130	smtwtfs			
2130-2200	smtwtfs	Albanian	Eu.....	882-(via R. Montenegro)
2130-2200	smtwtfs	French	EuMEaf.....	15165,9620,5955
2200-2245	smtwtfs	English	Eu..Af.....	15165,6100,5955
2300-2400	...t..	Multilingual	As..Am	9620,7240
		(programme in Yugoslav languages for Asia and Atlantic Ocean) (via WBI 19/10)		

CLANDESTINE(S) - Some anti-Iranian radios using Iraqi radio facilities no longer heard.

A number of anti-Iranian clandestine radios which broadcast via the facilities of Iraqi radio (Radio Baghdad) are no longer heard. A survey

failed to find any trace of the Free Voice of Iran, Voice of the Mohahedin-e Khalq (Voice of the Crusader) or the Voice of the Ahwaz Revolution. The latter station's frequency, 1431 kHz, has been carrying Iraqi radio's Voice of the Masses since early August.

Free Voice of Iran was last observed on 8th October. However Radio Iran (First Programme) was still being heard at 04-05 on 9545 and 7180 kHz on 15th October. On the same channels, Voice of the Movement of the Mojahedin of Iranian Baluchistan was being heard daily at a new time of 07-08 gmt. At other times these channels carry Radio Baghdad's Persian service.

The following anti-Iranian radios, which broadcast from clandestine facilities possibly in the Kurdish areas of Iran and Iraq or from outside the Iran/Iraq area, continue to be heard.

(1) Voice of Iranian Kordestan of the Iranian Kordestan Democratic Party on 4065 kHz from 1625-18 gmt.

(2) Voice of the Worker of the Iranian Revolutionary Workers' organisation - Rah-e Khargar on 4160 kHz from 1430-1530 and 17-1830 gmt.

(3) Voice of the Iranian Revolution on 6415, 4475 and 3888 kHz from 1430-1530 gmt. The freqs vary.

(4) Voice of the Communist Party of Iran on 6410 and 3888 kHz from 17-19 gmt, and on 6417 kHz from 0315-0445 gmt. Announcements in EG give the freqs as 6430, 4480, 4005 and 3610 kHz. A Friday broadcast starts at 0430 gmt.

(5) Radio Iran Toilers on 10870, 6230 and 4775 from 1530-1830 gmt. This radio emanates from transmitters in Afghanistan.

(6) Iran's Flag of Freedom (Kaviyani Banner) Radio on 15100 from 14-1445 and 1630-1820, and on 9045 from 0330-0520 gmt. This radio is believed to emanate from transmitters in Egypt.

(7) Voice of the Feda'i on 4160 from 16-17. (via WBI 19/10)

Our Kashmir - Indian authorities hunting for JKLF secessionist radio. AFP news agency, Hong Kong, in EG 1223 gmt 17 Oct 90. Excerpt from Srinagar. - Indian authorities are hunting for a clandestine radio station operated by Moslem secessionists broadcasting anti-Indian propaganda in the troubled state of Kashmir.

Listeners in the state capital of Srinagar said the radio, calling itself "Hamara Kashmir" (Our Kashmir), broadcast commentaries on the insurgency and accused Indian security forces of treating civilians brutally.

An announcement by the radio said it will operate "on different frequencies" every Friday with broadcasts in the morning and evening, listeners said.

Official sources said a hunt had been launched to trace the radio station, which observers believe is operated by the banned Jammu and Kashmir Liberation Front (JKLF), the leading secessionist organization... (WBI 19/10)

Radio SPLA - Comments on its own role after six years on the air. Radio SPLA in EG 1300 gmt 12 Oct 90. Excerpts from report -

We comment on Radio SPLA's six years on air. Today, 12th October 1990, marks the sixth anniversary of Radio SPLA. It is to be recalled that for the first one year of its foundation, Radio SPLA broadcast programmes in the EG and AR1 languages only. However, in June 1985, a year later, six Sudanese major languages were selected and used to bring programmes to most of the rural people, particularly in Southern and Western Sudan. These major Sudanese languages are Nuba, Nuer, Latuka, Dinka, Bari and Shilluk.

The idea that the SPLM/SPLA, which was formed in mid-1983, should make its call known to the Sudanese public is now achieved. Radio SPLA is one of the channels through which the movement has been and is still communicating its principles, objectives and activities to those who care to seek the truth about the movement. Indeed, Radio SPLA has proved to be the most effective, immediate, daily channel of communication at the disposal of the movement.

Over Radio SPLA the movement has been able to counter the Khartoum government's baseless and cheap propaganda, and to inform the world about the gross human rights violations in the Sudan by the regime in Khartoum. Radio SPLA is quoted by dailies, broadcasting stations and periodicals at home and abroad. One must also add that sometimes we are misquoted. The main function of Radio SPLA is to educate the public about what the struggle is all for...

On the other side, our opponents and detractors are determined to misinterpret, misrepresent, distort and sometimes deny us credibility. They



claim the SPLM/SPLA is a secessionist, racist, communist and an organisation which kills innocent people...

Among our friends Radio SPLA is not without critics. Some of our friends and sympathisers in the towns, cities and villages of the Sudan and abroad blame us for being mild on those who take pleasure in abusing the movement and its leaders. They further complain that we should expose those who are covertly carrying out anti-SPLA campaigns. Our reply to these friends is that we know alot about our enemies and we are capable of exposing them to the public, but by doing that we should have departed from our mission, that is educating the people...

Radio SPLA, like the SPLM/SPLA, has a responsibility not only to liberate the Sudanese people from an unjust system of rule, but also to liberate their minds from ideas which have always stood in the way of the national unity, equality and progress. We are dedicated to the achievement of peaceful solutions to the Sudanese problems, unless the political forces in our country allow those who do not like peace to sabotage the SPLM/SPLA's peace plans. (WBI 19/10)

Voice of June 4th - Chinese Clandestine via Taiwan on 11905.1 clear from 1630 but jammed after 1730. (Ernie Behr, Kenora, Ontario via Glenn Hauser on RCI's 'SWLD' on 21/10)

Voice of Hope - 05-06 on 3.985; 11-14 & 1430-1730 on 6.348 & 18-21 & 23-02 on 3.985. The 1430 transmission is a new one. (Toru Yamashita, Yokohama via Radio Japan 'DX Corner' on 21/10.)

Voice of the People - 0000-01, 05-06 3.912, 12-13, 15-16 on 6.600 & 18-19 on 3.912. The 1500 UTC transmission is a new one & the 1800 UTC transmission used to be heard on 6.600. (Toru Yamashita of Yokohama via Radio Japan DX Corner on 21/10.)

Voice of the Khmer - Gordon Darling, Papua New Guinea sent me two excellent magazines: "KP Bulletin" - Khmer People's National Liberation Front - No. 4, dated May 90. It is published by The Cabinet of The Khmer People's National Liberation Front.

Appeal: The Secretary-General of the Khmer People's National Liberation Front, under the leadership of H.E Son Sann, wants to publish such a kind of special bulletin as regularly as possible. But due to the lack of available fund, the Secretary-General could not promise to satisfy our lovely readers as much as we wished. Therefore we count on the patriotism and the generosity of our readers to overcome this financial constraint. All Donations to the publication of this special bulletin will be warmly welcomed by the Secretariat-General of the KPNTLF, through the address as follow: Mr. Ieng Mouly, PO Box 25, Ramindra Post Office, Bangkok, 10220 Thailand. PLEASE TRY TO HELP US SERVE YOU! They also list a phone & fax #: (662) 510-9751.

"NCR" - Non Communist Resistance - Vol 2. No. 3 dated Aug 90. The Non-Communist Resistance comprises all Khmers who are fighting for freedom and a true liberal democracy in Cambodia, particularly FUNCINPEC, ANKI (formerly ANS), KPNTLF and KPNTAF. The NCR Bulletin is produced by VOK (Voice of the Khmer) under an editorial board on which are represented the above organizations. Some convenient addresses are: (1) c/o FUNCINPEC, PO Box 12-1014, Bangkok, Thailand. (2) c/o KPNTLF, PO Box 22-25, Ramintra Post Office, Bangkok, Thailand. (3) c/o KPNTAF, PO Box 19-74, Mondaburi, Bangkok 11000, Thailand.

Voice of the Khmer Sked - Transmits worldwide on 6325 kHz shortwave, and in northern and western Cambodia on 1200 and 1250 kHz medium wave. VOK shortwave broadcasts at the following times 04-07, 09-14 & 2230-02(Sundays to 03) UTC which is Cambodian time: 0530-0900 (Sundays 1000), 11-14, 16-21. VOK - seeking peace and freedom for all Khmer people.

Voice of Sudan - National Democratic Alliance radio continues to be heard daily. The new Sudanese opposition radio which operates on behalf of the National Democratic Alliance, and which started broadcasting on 28th September, continues to be heard with its daily transmission in AR at 18-19 gmt on 11710 and 9550 kHz.

The radio generally calls itself "the Voice of Sudan, the Voice of Democracy and Peace, the Radio of the Forces of the National Democratic Alliance". It has not been heard to call itself "Radio Sudan". (WBI 19/10)

PIRATE - USA - 7415, Radio Wolf International at 0215 w/closing announcements and ID given. Said he just prepared a bunch of new QSL cards. Sign off at 0220. At 0222 a station gave a call on the same freq: "RWI are you able to hear me?" on 16/9. (Hans Johnson, MD) 73's. *Bruce*

# QSL Reports

**Sam Barto**  
47 Prospect Place  
Bristol, CT 06010



**ABU DHABI:** Voice of the United Arab Emirates 17705 and 21735 p/d folder ltr. in 3 mo. (Barto-CT).

**ADMIRALTY ISLANDS:** Radio Manus 3315 f/d prepared cd. in 35 ds. for \$1.00. v/s Raphael Karahure, Station Manager. Also received a very friendly ltr. (Hart-FL).

**ALASKA:** KNLS 11800 f/d cd. w/ sticker and pennant in 32 ds. for ms. (Hart-FL). 11715 f/d "Station House and Antenna" cd. w/ personal ltr. and sked. in 10 ds. for ms. v/s Beverly Jones. (Taylor-PA). same in 26 ds. w/ sked. and new pennant. (O'Keefe).

**ALBANIA:** Radio Tirana 9500 p/d "Adriatic Hotel" cd. w/ pin in 35 ds. (Kurrsch).

**ANGOLA:** Emisor Regional do Zaire 4885 via Bassacongo f/d \* cd. w/ friendly personal ltr. and schedule in 6 mo. for a PT rpt. on a 1982 reception. v/s Mateus Gonçalves. (Barto-CT). Radio Nacional de Angola 5323.7 f/d cd. w/

personal ltr. in 6 mo. for a PT rpt. Also received a complete schedule listing the following as active: Cabinda 4970; Zaire 4885; Uioe 4850; Malanje 4942; Bie 4895; Lunda-Sul 4860; Lunda-Norte 9953 (?) 4953 maybe?; Kuanza-Sul 7260; Benquela 6150 and 5040; Hambo 5060; Moxico 5192; Namibe 5015 and Huila 3970 and 4820/

**ARGENTINA:** Radio Continental 9115 f/d cd. w/ personal ltr. in EG w/ tourist information and a large station sticker in 1 mo. via registered mail for a SP rpt. and ms. v/s J. Valles. (Orcutt-NY).

**ARMENIAN SSR:** Radio Moscow 17570 via Yerevan f/d "Kosmos Hotel" cd. in 62 ds. (Butcher-MA).

same w/ p/d "Lenin Mausoleum" cd. in 3 mo.

v/s Olga Iroshina. (taylor).

**ASIATIC RUSSIA:** Radio Moscow 10344 via \* Irkutsk (feeder station) f/d cd. in 66 ds. (Darling-PNG). 12025 via Novosibirsk

f/d "Moskva River" cd. in 62 ds. (Butcher-MA).

21690 via Khabarovsk f/d "Council of Ministers Building" cd. w/ schedule in 3½ mo. (Lare-MI). f/d "Arbat Square"

cd. in 9 wks. (Butcher-MA). 11770 f/d cd. in 2 mo. w/ schedule. (Barto). 15180 via Komsomolsk-on-Amur cd. in 2 mo. (Barto-CT). 11710 via Petro-

pavlovsk-Kamchatskye f/d "Moscow River near the Kremlin" cd. w/ pennant and schedule in 3 mo. (Barto-CT). (Hart-FL).

**AUSTRALIA:** VL4 4920 via Brisbane f/d ltr. w/ sticker in 1 mo. for \$1.00.

**AUSTRIA:** Radio Austria International 13730 f/d ltr. w/ photo of "Schonbrunn Palace" in 85 ds. w/ schedule. (Russo-PA).

**AZERBAIJAN SSR:** Radio Baku 4785 f/d plain white paper QSL in 126 ds. (Hart).

**BELGIUM:** BRT 9925 and 13695 f/d "Le Neuvieme Art entre dans L'Art Nouveau" cd. in 3 wks. (Orcutt-NY).

**BRASIL:** Radio Inconfidencia 6010 p/d personal ltr. in 25 ds. for a PT rpt.

after several f/up rpts. v/s Isaias Lansky, Director Superintendente. (D'Angelo-PA). Radio Educadora de Braganca 4825 p/d folder cd., signed and stamped along w/ my f/d prepared cd. in 23 ds. for a

#88



Prop. Roger Arze Salmán C.P. 109-5020 KHz.  
VIA Monferini  
**Radioemisora**  
"2 DE FEBRERO"  
en su 30 aniversario • RDA. Bari-Bolivia

**RADIO Inca**  
FM 107.1  
STEREO  
Dr. Bernardo Alcedo 375 - Inca. Teléfono 72-3812 • PUBLICIDAD: Teléfono 72-5812

**VERIFICATION SIGNERS: AIR Shillong** 3255 L. Rehman. **RRI Jambi** 4927 Drs. Haji Ali Amran. **Ondas del Titicaca** 4923 Felipe Paquita M., Administrador. **Radio La Hora** 4860 Edmundo Montesinos G., Gerente General. **Radio Frecuencia Popular** 4013 Tito Pilco Mori, Gerente General. **Radio San Juan** 4731 Victor Morales Guerrero. **Radio Continental** 6055 Elizabeth Mardini de Noboa, SubGerente Regional. **Radio Moyobamba** 5015.5 Carlos Arevalo Seijas, Director. **Radio Ayaviri** 4606.5 Jose A. Solorzano Mendoza, Director. **British Forces Broadcasting Service** 13745 D.R.C. Astbury, Station Manager. **Radio Tanzania Zanzibar** 11734.5 N.M. Suleiman, Technical Department. **Radio Marajóara** 4955 Elizete Maria Dos Santos Pamplona, Directora Geral. **Radio Inconfidencia** 6010 Isaias Lansky, Director Superintendente. **CRZN** 6160 S. Williams, Chief Engineer. **La Voz del Napo** 3280 Ramiro Cubrera. **Radio K'ekchi** 4844.5 Gilberto Sun Xicol, Gerente.....via **Dario Monferini** and the **PLAY DX Bulletin**.....Sam.



**QSL**  
**Certificado de Sintonía**

Parque Industrial - P17 -  
Casilla 1984 - Tel. 39775 -  
Telex 4236  
Santa Cruz Bolivia

**RADIO "EL MUNDO" - Santa Cruz - Bolivia**

A Sr. **JOHN J. WILKINS**

Muchas gracias por su informe de recepción. Tenemos el gusto de confirmar su control de nuestra emisión en **ONDA CORTA 8.015 KHz**, 10 Kilowatts, banda de 49 metros y 1.050 KHz **Ona Media**, de fecha **27 de JUNIO de 1987**

a las **06:45** horas de **Bolivia**

**FIRMA Y SELLO**

PT rpt. This was after a f/up rpt. v/s Maria Zenaide Lisboa dos Reis. (D'Angelo-PA). **Radio Araquaiá** 4905 p/d ltr. w/ sticker and tourist data in 3 mo. for a PT rpt. v/s Maria Mazzarelo Monteiro Araujo. (Bartogar-CT). **BULGARIA: Radio Sofia** 11660 f/d cd. w/ schedule in 24 ds. for 1 IRC. (Wallace-CT).

**BYELORUSSIAN SSR: Radio Moscow** via **Orsha** 15320 f/d "Kosmos Hotel" cd. in 56 ds. w/ schedule. (Butcher-MA).

**CANADA: Radio Korea** 11715 via **RCI Sackville** cd. in 96 ds. (Darling-PNG). **Radio Canada International** 17820 f/d DIY "Forestry Research" cd. in 12 ds. w/ schedule. (Carson-OK).

**CANADA (Pirate): CFBN Fly By Night Radio** 7419 p/d "Half-Moon and Outhouse w/ Transmitter Shack" cd. and ltr. in 2 mo. for ms. (Taylor-PA).

**CHILE: CBV Time Signal Station** 8677 f/d "Coverage Map" cd. in 24 ds. for a SP rpt. and \$1.00. v/s German Valdivia Ibarra. (Hart-FL)

**CHINA, PEOPLES REPUBLIC OF: Radio Beijing** 17855 via **Shijiazhuang** f/d "Cotton Flannel Ornaments" cd. w/ paper cut outs in 28 ds. (Berglee-ND). 11840 f/d "Velvet Ornament" cd. w/ schedule and paper cuts in 45 ds. (Steinberg-KY). 15100 f/d cd. in 29 ds. v/s F.K. Fan. (Backlund). **Yunnan Peoples Broadcasting Station** 4760 via **Kunming** f/d cd. in 13 ds. for a f/up rpt. (D'Angelo-PA)....also rcvd. direct from the station "The

**10 YEARS**

**International pirate station since 1977**

**ORANG UTAN**

**QSL FOR :**

NAME **Stephen Druzak**  
RECEIVED ON **0-11 Febrgo**  
TIME **08.44 - 09.15 UTC**  
FREQUENCY **6206 kHz**  
SINPO **4444**



**THE MONKEY OF THE NETHERLANDS**  
**ON MW WITH 200 W**

Dear **MR JOHN WILKINS**

We thank you for your report and we are pleased to confirm that you have heard our programme on **8.015 KHz** on a frequency of **11715 kHz** with 1000 watts.

We hope you will continue to enjoy our programme and we welcome your further comments.

**RAIMO IIRVATAS**

•Radio Iirvanta, Turku  
17800 Helsinki Road House,  
Raitiovaara 1 (about 1 km SW)  
FINLAND  
Telephone 040 921 0091  
telex 1030 921491

**SŁUŠAJTE I ŠIRITTE FREKVENCIJU. SLOBOĐNOG HRVATSKOG RADIJA! RAIMO IIRVATAS. EMITIRA NA KRATIRIM VALDovima**

**- ZA EVROPU I HRVATSKU**  
od ponedjeljka do subote od 18 do 19 sati po srednjoevropskom vremenu, na frekvenciji 11 715 kHz, na valnoj dužini 13 metara

**- ZA SVERVREMNU, NEMIRI I AMERIŠKIM IZVANADU:**  
od ponedjeljka do subote od 12 do 13 sati po EST (Eastern Standard Time) na frekvenciji 11 715 kHz, na valnoj dužini 13 metara

**CZECHOSLOVAKIA:** Radio Praha International 7345 p/d "Orlik Chateau" cd. in 27 ds. (Kurrasch-NY). f/d "Rajec Nad Svitavou Chateau" cd. in 68 ds. w/ schedule. (Carson-OK).

**ECUADOR:** HCJB 25950 (USB) p/d "Ruco Pichincha" cd. w/ ltr. from John Beck in 28 ds. (Levison-PA). 17875 same f/d cd. in 49 ds. Schedule was rcvd. (Craig-TX). f/d cd. in 35 ds. (Backlund). 15155 f/d cd. in 23 ds. for ms. (Kurrasch-NY). 17790 f/d "Iliniza Norte" cd. w/ schedule in 16 ds. v/s Glen Volkhardt. (MacHarg-CR).

**EGYPT:** Radio Cairo cd. in 166 ds. (Darling-PNG).

**ENGLAND:** VOA Woofferton 15205 f/d cd. in 44 ds. w/ 8 page frequency \* schedule. (Backlund). British Forces Broadcasting Service 21735 (Rampisham transmitter probably)

"Persian Gulf" cd. in 19 ds. v/s Richard Astbury, Station Manager. (Paustian). 13745 nice p/d "Map" cd. in 38 ds. for \$1.00. v/s I.R. Martin, Engineering Manager. (Palmer-sheim-MN).

**EUROPEAN RUSSIA:** Radio Moscow 15185 via Serpukhov f/d "Kosmos Hotel" cd. in 56 ds. (Butcher-MA). f/d :Lenin Mausoleum" cd. in 3½ mo. w/ sticker and schedule. (Lare-MI).



**VERIFICATION SIGNERS:** ZSC Time Signal Station 5000 J.G. Nothnagel, Control Coastal Officer. Radio Sana'a 5950 Abdullah Farnhan. Radio Lubumbashi 7203 Mr. Senga Locavu, Le Chef de Service Audiovisuel / Mr. Bebe Beshelemu, Le Directeur Regional OZRT. Radio Juan XXIII 4965 Manuel Piron Pons, Encargado de Programacion. Radio Cultura Araraquara 3365 Antonio Carlos Rodrigues dos Santos, Director Artistico. RI Mataram 3223 Idris Zam Zam, BA.....via PLAY-DX...Sam.

**EUROPEAN RUSSIA:** Radio Moscow 25780 via Armavir f/d "Bolshoi Theatre" cd. in 56 ds. (Butcher-MA). 15550 via Voronezh f/d "Council of Ministers Building" cd. in 3½ mo. My 30th site confirmed. (Lare-MI). 21755 via Moscow f/d "Moskva River" cd. in 9 wks. (Butcher-MA). 17830 via Zhigulyovsk f/d "Kosmos Hotel" cd. in 52 ds. (Butcher-MA).

**GABON:** Radio Japan 21700 via Moyabi n/d "Japanese Room" cd. w/ newspaper in 37 ds. (Kurrasch-NY).

**GEORGIAN SSR:** Radio Tbilisi 5040 f/d cd. via registered mail in 4 mo. v/s Helen Aphadre. (Hart).

**GERMAN DEMOCRATIC REP:** Radio Berlin International 11890 f/d "Domplatz:Erfurt" cd. w/ schedule in 38 ds. (Carson-OK). f/d "Blaupunkt Superheterodyne" cd. in 68 ds. Also rcvd. what was probably their last DX Club bulletin. (Carson-OK). 13690 f/d cd. in 126 ds. (Levison-PA). 13770 f/d cd. w/ 6 photos in 35 ds. for 1 IRC. (Carson). 6080 via Nauen f/d cd. w/ site in 2 mo. (Rigas-IL). Y3S 4525 n/d cd. in 131 ds. for ms.

**GERMAN FEDERAL REP:** Sudwestfunk 7265 (Turnick-PA). p/d "Globe" cd. in 22 ds. for 2 IRCs. (Kurrasch-NY).

**GREECE:** Voice of Greece 11645 f/d "Northern Greece" cd. w/ schedule and travel info. in 1 mo. for 2 IRCs. (Barhydt-OR). f/d cd. in 60 ds. v/s Demetri Vafeas, Elect. Engineer. (Backlund). 12105 f/d "Halkidiki" cd. in 30 ds. and a brochure on Thassos which I visited this summer! (Rigas-IL). VOA

Kavala 15205 and 9700 cds. in 122 ds. (Darling-PNG).

**GUAM:** KTRW 11805 f/d "Studio" cd. w/ schedule and a personal note in 18 ds. v/s Sharon Cummings. (O'Keefe).

**GUATEMALA:** Radio Maya 3325 f/d cd. w/ station pennants in 6 wks. for a SP rpt. v/s Balazar Juan. (Barhydt-OR).



**Please Note:** Please make sure to write your name after each QSL item that you are sending into the QSL Column. You did all the work.....the least you can give yourself is the credit.....Sam.

**Sultanate of Oman**

Ministry of Information  
P. O. Box : 600  
Cable : Information  
Telex : 5265 INFORM ON  
Muscat



سلطنة عمان  
وزارة الإعلام  
ص. ب. ٦٠٠  
مسقط  
تلكس ٥٢٦٥ انفورم أون

Ref. MOI/DGTA/MIK/em/111/90

Date: June 9, 1990

Mr. Jerry Klinck  
43 Lein Road,  
West Seneca, N.Y. 14224  
U.S.A.

Dear Mr. Klinck,

We thank you for your letter dated February 19, 1990 together with the enclosed tape. We are very pleased to confirm that the station you monitored on 17,735 kHz was indeed Radio Sultanate of Oman.

Once again please accept our appreciation for the interest you have shown by listening to our programmes.

Yours Sincerely,

HAMED TAHYA AL-KHINDI  
Director General for Technical Affairs

Artega B., Director. Radio Difusoras Minería 4981 Dr. Jose Carlos Gomez de Espinoza, Gerente Director. Radio Santa Cruz 6135 Alvaro Puente C., Director. Radio Pioneira de Teresina 5015 Padre Toni Batista, Director. Radio Nacional de Amazonia 6180 Luiz Antonio Alves. Radio Aparecida 6135 Cassiano A. Macedo. Radio Clube Varquinha 3245 Pedro Oliva, Director Artístico....via PLAY DX.

- HOLLAND:** Radio Nederland 6020 via Flevo f/d "Bonaire" cd. in 48 ds. (Kurrasch-NY). 17605 same f/d cd. w/ site in 58 ds. (Berglee-ND).
- HONDURAS:** La Voz de Evangelica 4820 p/d cd. w/ ltr. in 5 mo. for a SP rpt. and \$1.00. (Barhydt-OR). La Voz de la Mosquitia 4910.4 f/d prepared cd. in 108 ds. for a SP rpt. and ms. v/s Larry B. Sexton, Director. (Hart).
- HONG KONG:** BBC East Asia Relay Station 21715 p/d cd. in 21 ds. for \$1.00.
- HUNGARY:** Radio Budapest 11910 f/d cd. in 37 ds. for a taped (Hart-FL) rpt. (Backlund). f/d "SWBC Club" cd. w/ schedule in 34 ds. for 1 IRC. (O'Keefe).
- ICELAND:** IMBS 15770 f/d cd. in 32 ds. (Backlund).
- ISRAEL:** Kol Israel 11605 f/d cd. w/ schedule in 50 ds. for 1 IRC. (Steinberg-KY).
- ITALY:** Voice of Europe 7340 n/d "Logo" cd. in 32 ds. for \$1.00. (D'Angelo-PA).
- JAPAN:** Radio Japan 11835 n/d "Japanese Style Room" cd. w/ schedule and a newsletter in 36 ds. (Steinberg-KY). Radio Canada International 9595, 6055 and 3925 via Radio Tanpa "DIY" cd. in 33 ds. (Darling-PNG).
- KIRGHIZ SSR:** Radio Moscow 11710 via Frunze p/d "Friendship Fountain" cd. in 3 mo. (Taylor-PA).

- KOREA, PEOPLES DEMOCRATIC REP:**
  - \* Radio Pyongyang 15115 f/d "Flower Blossoms" cd. w/ ltrs, postcards, station pennant and several other goodies in 68 ds. My rpt. was sent by a friend in Shanghai, PRC. (Berglee-ND).
- KOREA, REPUBLIC OF:**
  - Radio Korea 9750 via Kimje f/d cd. w/ site and power in 25 ds. w/ schedule. (Rigas).

Kingdom of Saudi Arabia  
Ministry of Information,  
Engineering Affairs,  
Riyadh

**Q. S. L.**

To: KRIS W. FIELD .....

Dear Listener,

Kindly accept our thanks for your listening report. We are pleased to verify our following transmissions :

Frequency : .....9720..... KHz

Time (U. T.) .....19.25 - 20.16....

Date 30 - 11 - 1988

We appreciate your cooperation and hope to hear from you again.

GULIMAN A. AL SAMMAN  
Director,  
Frequency Management.

**ANNOUNCEMENT: TIARE PUBLICATIONS** is now stocking the **World Broadcast Station Address Book**. It is available at a reduced price. This is the 5th Edition and contains the addresses of more than 1,150 shortwave broadcast stations, both domestic and international. The names of verification signers, where known, are also included. This publication also contains helpful hints on writing a reception report. For more information and a complete listing of other Tiare Publications, you may write to them at: P.O. Box 493, Lake Geneva, WI 53147....Tell them you read about it in NASWA..Sam.



**Radio Apintie**

Through Correspondence If  
Possible - Returns

Permalink January 16, 1980.

Mr. G.W. Darling,  
10 Oatley Drive,  
Caversham Park,  
Reading RG4 2GF,  
Great Britain

Dear Sir:

Thank you very much for your letter dated January 3, 1980.

It is with pleasure that we hereby confirm, that according to the information given in your report, you have been listening to Radio Apintie.

The transmitter you heard is a Philips 30 watts transmitter coupled to a 5 element omniband Smebart Log Peridic antenna with a gain of 10 db. This transmitter is meant to serve the people of our interior but it is nice to receive reports from people abroad. We also have a 5W Stereo transmitter (Stereo) of 1000 watts with 4 relay Stations (10 watts) and an AM transmitter (Stereo) of 1000 watts.

Please find enclosed a card with stamp of Permalink our capital.

Thanking you again for your reception report we remain.



P.S. We started transmitting on the shortwave band in September 1979.

**LEBANON: Voice of Hope** 6280 f/d cd. in 20 ds. (Rigas-IL).

**LITHUANIA: Radio Vilnius** 6100 f/d cd. in 55 ds. (Darling-PNG).

**MALAGASY REPUBLIC: Radio Nederland** 15560 f/d "25th Year European Space Agency" cd. w/ site in 35 ds. (Berglee-ND).

**MEXICO: XEWX La Vox de la America Latina** 15160 f/d cd. and 1tr. in 18 ds. for a SP rpt. and 2 IRCs. v/s Miguel Angel Barrientos Valadez. (Weber-OH).

**MONACO: Trans World Radio** 9480 f/d "Globe" cd. in 19 ds. for 2 IRCs. (Kurrasch-NY).

**MOROCCO: RTVM** 17595 f/d "Map" cd. in 56 ds. for 2 IRCs. v/s Tanane Mohammed Jamal Eddine. (Kurrasch-NY).

**NAMIBIA: Radio SWA** 3290 p/d "Namib Nature Park" cd. in 3 mo. for \$1.00. (Taylor-PA).

**NEW ZEALAND: Radio New Zealand International** 17675 f/d "Mt. Ruapehu" cd. w/ bookmark and schedule in 40 ds. for 3 IRCs. (O'Keefe).

**PAKISTAN: Radio Pakistan** 15605 via Islamabad f/d "Mausoleum" cd. w/ schedule in 91 ds. for 1 IRC. (Wallace-CT).

**PHILIPPINES: VOA Poro/Tinang** 17820 and 17735 cd. in 122 ds. (Darling-PNG).

**POLAND: Radio Polonia** 7270 f/d cd. w/ schedule in 33 ds. for 1 IRC. (Wall-ace-CT).

**PORTUGAL: Radio Portugal International** 9600 f/d "Ship" cd. in 1 mo. (Rigas-IL).

**SAIPAN: KHBI** 17780 f/d "Dipole Array" cd. in 25 ds. for ms. (Carson-OK).

**SAUDI ARABIA: Broadcasting Service of the Kingdom of Saudi Arabia** 15060 f/d cd. w/ 1tr., schedule and travel info. & a crisp new US \$1.00 bill (!) via registered mail in 4 wks. for a taped rpt. and ms. (Klinck-NY)....The hell with Somalia and their request for \$50.00. Each radio station in the world can send me just \$1.00...I'll be satisfied!...Sam.

**SARAWAK: RTV Malaysia** 5005 via **Sibu** f/d "Broadcast House" cd. in 7 1/2 mo. for \$1.00. (Palmersheim-MN).

**SPAIN: Radio Exterior de Espana** 11880 f/d "Barcelona" cd. w/ sticker and pennant in 45 ds. (Steinberg-KY). f/d cd. w/ pennant in 17 ds. Schedule was also rcvd. (Backlund) 15110 cd. w/ schedule in 34 ds. (Paustian). 15280 and 15395 f/d "XXV Olympiad" cd. w/ pennant, sticker and schedule in 7 wks. (Butcher).

P.O. Box 10980  
I-20110 Milano  
Italy  
phone: +39-2-266 69 71

Italian Radio Policy Service  
P.O. Box 10660  
I-20110 MILANO  
Italy

Dear listener,

via Carson

Thank you very much for your letter. Unfortunately we ran out of our special numbered QSL cards. Instead of keeping you waiting until they are re-printed, I am glad to confirm with this letter of verification your report upon the reception of IRRS-shortwave, which is in accordance with our schedule !

Date : 1/4/80  
Time : 07:22 - 08:30 UTC  
Frequency : 9860 MHz

Enclosed you can find our latest programme schedule. Please note that due to the fact that IRRS is a "Relay Station", our current programme and frequency schedule may change at any time, as new stations start using our facilities.

Finally, I want to remind you that all stations that you hear on IRRS will appreciate your comments and usually confirm your reception report if you write to them directly. Please listen to their addresses given on the air during IRRS broadcasts.

We all greatly appreciate your feedback through your letters and phone calls. Please do write again ! Thank you.

Sincerely,

*Anna B. Bochetti*  
Anna B. Bochetti,  
IRRS QSL Manager



# Radio Centrafrique

via Moloch

RADIODIFFUSION

TELEVISION

CENTRAFRICAINE



**Please Note:** When sending your reception reports to Radio Moscow or any of the Soviet Republics, IRCs or mint stamps are not really necessary. The same holds true for the eastern European countries. By all means you should send IRCs to those stations which require them.....Sam

**SPANISH MOROCCO: Radio Medi 1**  
9575 via Nador f/d cd. in 3 mo. for a FR rpt. and ms. This is my second QSL for this one reception. (Lare-MI).  
**SRI LANKA: Deutsche Welle 17860**  
via Trincomalee p/d cd. in

109 ds. for 1 IRC. (Wallace-CT). **VOA Colombo** 11705 cd. in 122 ds. for no return postage. (Darling-PNG).

**SWEDEN: Radio Sveden International 17780** f/d "Reindeer" cd. in 27 ds. (Kurrasch-NY). 21500 f/d "Stockholm" cd. w/ schedule in 26 ds. for 2 IRCs. v/s K. Maikenion. (Kurrasch-NY).

**SWITZERLAND: Swiss Radio International 9885** f/d cd. in 31 ds. (Levison).

**TAIWAN: Voice of Free China 5950** f/d "Ch'ing Dynasty Porcelain" cd. w/ schedule and sticker and booklet in 23 ds. (Steinberg-KY). 9680 f/d "Incense Perfumer" cd. in 40 ds. via US address. (Craig-TX). 17750 cd. in 31 ds. w/ schedule. (Backlund).

**TURKEY: Voice of Turkey 9445** f/d cd. in 36 ds. w/ 3 stickers and new schedule. (Steinberg-KY) f/d "Jeweled Treasure Chest" cd. w/ sticker and decal and program schedule in 41 ds. for 2 IRCs. (Kurrasch-NY).

**UKRAINIAN SSR: Radio Kiev 15485** f/d "Kiev Memorial Complex" cd. w/ "Cup, Saucer and Tea Cup" postcard along w/ a schedule in 59 ds. (Kurrasch-NY). f/d "Kiev State Museum" cd. w/ schedule in 67 ds. (Levison-PA).

**Radio Moscow 17655** via Lvov f/d "Council of Ministers Building" cd. in 52 ds. v/s Mrs. Elena Osipova. (Butcher-MA). 17765 via Ivano-Frankovsk f/d "Lenin Mausoleum" cd. in 52 ds. Brochures and schedule were rcvd. (Butcher-MA). 17670, 17695 and 17830 via Simferopol f/d cd. in 3½ mo. w/ schedule and sticker. (Lare-MI).

**USA: WINB 15145** f/d cd. w/ schedule in 86 ds. v/s John Norris. (MacHarg-CR). **WYPR 6065** f/d "Logo" cd. w/ schedule in 10 ds. for ms. (Craig-TX). **WMLK 9465** p/d ltr. in 3 mo. for \$1.00. Statement of Doctrine rcvd. on Assembly of Yahweh letterhead. v/s Elder Jacob O. Meyer. (Taylor-PA). **WCSN 11705** "DIY" cd. in 42 ds. (Darling-PNG). 13770 f/d "DIY" cd. in 24 ds. (Kurrasch-NY). **WSHR 9455** f/d "DIY" cd. in 22 ds. v/s Judy P. Cooke. (Kurrasch-NY). **Voice of America 5995** via Greenville f/d "Crosley Transmitters" cd. in 14 wks. for ms. (Wallace-CT).

**USA (Pirates): Radio USA 7400** f/d cd. #26 in 41 ds. for ms. v/s Mr. Blue Sky. Station Manager. Also rcvd. ltr. on station history. (Backlund).

**Radio EXP 7415** f/d "Paul Caruso Memorial" cd. in 16 ds. for ms. v/s Dr. Blue. (O'Keefe). **Fourth of July Radio 7410** f/d cd. for a rpt. in PIPA. (Rigas-IL) **Voice of Intoxication 7411** f/d cd. "Cardboard Cutout from a Coors Six-pack" in 30 ds. for ms. (Rigas-IL) **WKZP 7415** f/d "Don't Touch That Dial" cd. in 82 ds. for ms. v/s Sparky. Also rcvd. personal ltr. (Paustian).

### Verification Card

Dear John Kinca

We thank you for your reception report and keen interest in our programmes.

We are pleased to verify that you heard Radio Pyongyang from 11.00 to on 11.35 kHz on 16.04 1988!

Your valuable opinions on our programmes will always be very much appreciated.

Yours sincerely,

The Radio-Television Broadcasting Committee of the DPRK, Pyongyang

TO JOHN C ECKERT

We take pleasure in verifying your reception report of our transmission.

Dated 7-11 1988  
At 5:26-5:30 Hours, on 4,835 Mhz.

Many thanks for your information.

We appreciate your further reports as well as comments on our broadcast. Good Listening, DX and 73's.

Yours sincerely,

RADIO TEZULUTLAN

More to follow.....Sam.



**РАДИО МОСКВА  
RADIO MOSCU**

**QSL**

Estimado **SR SAMUEL L. BARTO**  
Localidad **BRISTOL, CONNECTICUT** País **U.S.A.**  
Acusamos recibo de su informe de recepción  
con fecha **7-9-89**, de **02.30 a 02.40.**

Sus datos son:  Correctos  
 Incorrectos  
 Con algunas imprecisiones

Con afectuosos saludos,  
**RADIO MOSCU**

**USSR: Radio Station Peace and Progress** 15180 p/d "Nikolai Karamzin" cd. in 63 ds. for 1 IRC. (Wallace-CT).

**UZBEK: Radio Moscow** 17600 via **Tashkent** f/d "Friendship Fountain" cd. in 62 ds. w/ schedule. (Butcher-MA).

**VANUATU: Radio Vanuatu** 7260 and 3945 f/d cd. in 4 mo. for an 83 reception.

**VATICAN: Radio Vatican** 9605 f/d "Vatican City" cd. in 90 ds. (Paustian). 11830 and 9615 f/d cd. w/ sticker and sticker type station pennant in 5 wks. Schedule was also rcvd. (Barto-CT). 17840 and 21485 f/d cd. w/ schedule in 2½ mo. (Barto-CT). 9645, 7250 and 6190 f/d cd. in 3 mo. (Barto-CT).

**WEST IRIAN: RRI Wamena** 4871 f/d personal ltr. in 72 ds. for ms. after a f/up rpt. v/s Max Pattimukay. (Palmer-sheim-MN).

**ZAMBIA: Zambia National Broadcasting Corporation** 11880 f/d cd. in 210 ds. after a f/up rpt. v/s W. Lukozu. (McDavitt).

**ELBC**

via Darling

**THE SOUND OF PROGRESS**

BROADCASTING TO THE WORLD SINCE 1960

LIBERIAN BROADCASTING SYSTEM  
P.O. BOX 594, MONROVIA, LIBERIA.

Hope everyone enjoyed this months QSL Column. I liked the looks of last month's bulletin. The printer must of cleaned the equipment. Hi!

The following is a brief listing of some of the abbreviations that I use in the Column:

f/d....full data	p/d....partial data
n/d....no data	sked...schedule
ltr....letter	rcvd...received
v/s....verification signer	
cd....card	mo.....month
w/.....with	wk....week
DIY....Do It Yourself "fill-in-the-blank type"	
EG....English	SP.....Spanish
PT....Portuguese	IN.....Indonesian
RS....Russian	FR.....French, etc.

Hope I didn't miss too many...Sam.  
Till next time, best of DX and QSLing.

*Sam*

**RADIO EUROPE**





# Contributors' Page

**Vernon Hyson**  
9835 Lone Eagle Lane  
Charlotte, NC 28215



## LOGGINGS CONTRIBUTORS - NOVEMBER 1990 - DEADLINE 10th of MONTH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA	NRD525 SP4 MAP
Guy ATKINS, Lion Rock Plateau, WA	R70 R390A
Kevin ATKINS, Pinson, AL	Old Hammarlund
Jerry BERG, Lexington, MA	
Mark Burns, Somerville, MA	
David M. CLARK, Newmarket, ONTARIO	NRD515 51J3 Ant
Patrick CRUMHORN, Austin, TX	NRD525 Long wire
Richard A. D'ANGELO, Wyomissing PA	R70 Alpha Delta DX Sloper
Pete DILLON, APO NY GREECE	DX400
Kris FIELD, Ambler, PA	NRD525 FL3
Mike HARDESTER, Camp Lejeune, NC	R70 A very Random Wire
Jerry JOHNSTON, Lexington, KY	NRD525 Eavesdropper
Rufus JORDAN, Pittsburgh, PA	DX302 Transoceanic
W. KARCHESKI, Holden, MA	
Jerry KLINCK, West Seneca, NY	R5000
Fred S. KOHLBRENNER, Philadelphia, PA	NRD525 FL3
Bill KURRASCH, Ontario, NY	
Harold LEVISON, Philadelphia, PA	R70
David MORBY, Clifton Park, NY	R71A
Dale PARK, Honolulu, HI	R5000 ATS803K
John PRATH, Ft. Lauderdale, FL	NRD525
Jim RENFREW, Rochester, NY	ICF2010 longwire
Larry ROYSTON, Pahoa, HI	DX440
William H. TAYLOR, Unionville, PA	R390A D2999
Peter TURAK, Whidby Island, WA	NRD525 60m Dipole
Juichi YAMADA, Nara, JAPAN	NRD525
Robert R. ZILMER, Rio Rancho, NM	NRD525 R1000

It looks like the lack of lightning season along with the sunspot activity has helped our loggings of stations. I hope all of us can reduce our "hit list" for stations needed or wanted this DX season - sharing your logs will help!

Curiosity about equipment and locations of our reporters got the best of me, so I counted the past 13 month's reporters to see which receivers were the most popular & which states had the most reporters.

For receivers:

NRD525 - 17	R71A - 10	2010 - 9	R5000 - 7	R70 - 7
DX440 - 5	HQ180&A - 5	R390&A - 4	R2000 - 3	NRD515 - 3

For reporters:	PA - 12	NY - 10	CA - 8	MI - 6	IN - 5	NC - 5
	VA - 5	WI - 5	OH - 4	WA - 4	OR - 3	

If you would check your acknowledgement, please make sure I have the right equipment listed. I would like to make this an annual survey.

**THANKS TO ALL WHO SENT IN REPORTS!**

# Tropical Band Loggings

**Sheryl Paszkiewicz**  
1015 Green Street  
Manitowoc, WI 54220



**CORRECTION:** In last month's column, the logging on 3360 for LV de Nahuala should be Guatemala, not Ecuador. Sorry! There are some great loggings this time around, so. . .

- 2340 CHINA, Fujian PBS, 15/9, 1015 w/YL tlc, low level but clear //5040. (Clark-ON) 16/9, 1210-1215 w/YL tlc //4975, poor-fair. (Royston-HI)
- 2410 NEW GUINEA, R. Enga pres., 15/9, 1047 w/tlc, poor. Most 90mb PNGs inaudible but 120mb Aussies hrd. (Clark-ON) And 30/9, 1126 w/big sig, tlc w/ment Enga, TC 1134, clean mod. Great PNG morning (Clark-ON) 30/9, 1059 w/tlcs, faint here so tentative (Field-PA)
- 2420h HAWAII, KZ00, 27/8, 0954-1000 in JP w/instds, tlcs, poor. 2 x 1210. (Royston-HI)
- 2475 CHINA, Zhejiang PBS, 15/9, 1107 w/tlcs btwn M&W, also 22/9 1055 w/mx & tlcs, most reliable CH station on 120mb (Clark)
- 2485 AUSTRALIA, VL8K, 18/9, 1357-1416 w/Amer pops, anmts, ment ABC, fair. (Tutak-WA)
- 2706.3 INDONESIA, unid, 21/9, 1123-1130 w/EZL, IN tlcs, nosedived 1130. Kusalik rptd QSLing this as RDKD2 Sumedang (Atkins-AL)
- 2904.8 LESSER SUNDAS, RPDT2 Ngada, 21/9, 1117 f/in w/tlc by W abt nx, built quickly to fair level. (Atkins-AL) Super!--sp.
- 3205 NEW GUINEA, R. West Sepik, 9/9, 1250-1300 w/lcl pops, Beatles, ID 1259, more mx, fair. (Tutak-WA)
- 3214.8 SULAWESI, RRI Manado, 30/9, 1136 w/EZL vcls, fair, first decent showing. (Clark-ON)
- 3215t SOUTH AFRICA, R. Oranje, 30/9, 0410-0415 weak w/tlc in EG, EZL mx, faded or s/off 0415, are listed for 0415\* (Atkins-WA)
- 3221.2 TOGO, RTV Togolaise, Kara, 29/9, unusually strong 2211 w/hilife mx. Sierra Leone 3316 also vly gd. (Clark-ON) 3/10, 2252 in FR w/mx, tlc in FR, ID. (Klinck-NY)
- 3241.4p MOLUCCAS, RRI Ambon, 30/9, 1140 w/Moslem recits, faded soon after. (Clark-ON)
- 3250 HONDURAS, R. Luz y Vida, 20/9, 0129 w/tlcs, ID, Latin mx (Klinck-NY)
- 3255 LESOTHO, BBC Relay, 5/10, 0300-0350 w/World, Brit & Afr nx, SIO=353. (Kurrasch-NY)
- 3265 CONGO, RTV Congolaise, 28/9, 0456-0504 in FR w/Afro pop mx, ID 0500 //4765, poor-fair but 3265 better. (Royston-HI) 7/10, 2240 w/hilife, tlcs, ment Brazzaville & Congo sev time sig dropped 2255, not noted on 4765. (Clark-ON)
- 3275t NEW GUINEA, R. Southern Highlands, 20/9, 17/9, 30/9, 1103 rare appearance here w/fade ins w/tlc in PD. (Field-PA) Kris listed this as Papua Terr. and from my available maps, I'm not sure if Mendi is in Papua or New Guinea. Anybody know for sure?--sp.
- 3280 CHINA, Vo Pujiang, 16/9, 1128 w/clx vcl //4950. Sev CH stations at best 1/2 to 3/4 hr after my sunrise (Clark-ON) 29/9, 1145-1202 pres., CH instls, tlc, anmt, orch, nx. (Paszkiewicz-WI)
- 3290 NAMIBIA, NBC, 20/9, 2255 in EG w/Western mx, ID. (Klinck)
- 3300 GUATEMALA, R. Cultural, 18/9, 0258-0315 w/ID, Back to the Bible. (Burns-MA)
- 3304.4 TIMOR, RRI Dili, 7/10, 1045 weak audio, has been hrd btwn 3304.3 & 3304.5 lately by Bryant & K. Atkins. On 30/9 was on normal 3306.1. (Clark-ON)
- 3306.1 TIMOR, RRI Dili, 1141-1200, 20/9, lagu pops, generic RRI ID, SCI, fair. (Atkins-AL) 30/9, 1435-1500 w/hymn, elevator mx, soft spoken ancr, fair mod, quick ID, SCI 1458. (Atkins-WA)
- 3315 ADMIRALTY ISLANDS, R. Manus, 30/9, 1058-1140 in PD w/C&W album side (no comment-sp), good sig, anmts. (Field-PA)

- 3315 ADMIRALTY ISLANDS, R. Manus, 9/9, 1216-1249 w/spiritual mx, TC 1235, ID 1231, ment Boroko, Manus. EG/PD tlk. Poor-fair (Tutak-WA)
- 3316 SIERRA LEONE, SLBS, 30/9, 2315-2332° EG w/piano solo, ID, TC 2325, "Words of Wisdom," anmt, NA, fair. (Morby-NY)
- 3320 SOUTH AFRICA, R. Orion, 11/10, 0230 AK/EG w/tlks, EZL mx (Karcheski-MA)
- 3324.8 GUATEMALA, R. Maya de Barillas, 29/9, 1042 SP w/choir, short anmts, fair. (Morby-NY)
- 3345 MOLUCCAS, RRI Ternate, 7/10, 1100 weak-fair w/lcl clock tones, lcl mx, fair at 1140 recheck w/clx (Clark-ON)
- 3355 NEW GUINEA, R. Simbu, 30/9, 1058-1126 in PD w/tlks, good sig as most PNGs today. (Field-PA) 1/10, 1135-1158 w/ID, tlk, flute, choir, poss ment Kundiawa (Paszkiwicz-WI)
- 3365 BRAZIL, R. Cult. Araquara, 18/9, 0315-0330 w/phone tlk pgm in PT. (Burns-MA) All I hear here is Rebelde--sp.
- 3366 GHANA, GBC-2, 3/10, 2246 EG ID, Afr. nx. (Klinck-NY)
- 3377.5 JAPAN, NHK feeder, 4/9, 1005-1015 JP w/tlks, some EG, maybe lang lessons, poor sig. (Royston-HI)
- 3385 NEW BRITAIN, R. East New Britain, 20/9, 1035-1105 in PD w/nx, happy mx, anmts by M, one by W. (Taylor-PA) 16/9, 1254-1300 EG w/lcl mx, anmts, ID 1259, anthem twice, nx, fair. (Tutak-WA)
- 3395 ECUADOR, R. Zaracay, 29/9, 0207-0223 SP w/generic LA pgm, IDs, ads, folk mx, ballads, poor sig. (Jordan-PA)
- 3395 NEW GUINEA, R. Eastern Highlands, 30/9, 1156 good w/devotional songs in PD, no sign of RRI Tanjungkarang (Clark-ON)
- 3905.1 NEW IRELAND, R. New Ireland, 30/9, 1120-1125 strong & clear w/pop mx, tlk, TC, rivaling 3205, 3385 as best PNG (Clark)
- 3925 JAPAN, RCI via NSB, 22/9, 0835 w/"Canada This Week," // 9595, 6055, poor w/lcl QRM/QRN. (Park-HI)
- 3934.8 JAVA, RRI Semarang, 30/9, 1315-1436. It took a DXpedition to pull audio out of this! Koran, speech, call to prayer, ment Semarang 1409, Indo Raya 1420, anmts. (Atkins-WA) Guy was at Lion Rock Plateau w/1500' & 1800' beverages to PNG & Java--sp.
- 3935 NEW ZEALAND, ZLXA, 4/10, 0627 tent w/sig tune, anthem, anmt, tlks seemed EG, very weak. (Clark-ON) 23/9, 0725, choral mx, tlks, lots of QRM, better than Tonga but not as good as Vanuatu. 24/9, 0630 better sig w/YL in EG but QRN & ARO QRM made it difficult. (Clark-ON) 26/8, 0820-0832 EG w/OM reading, catalog ad, poor-fair. (Royston-HI) Add this to list of EG countries in the trop bands--sp.
- 3959.8 NORTH KOREA, KCBS Kanggye, 23/9, 1105 w/1st pgm HS // 2850.1 w/KK nx, fair, no sign of RRI Palu. (Clark-ON)
- 3959.8 UNID, 1150-1155 sounded like PNG, native singing, low under ham QRM, not North Korea, suspect RRI Palu. (Clark-ON)
- 3976p JAVA, RRI Surabaya, 21/9, 1133-1145 fade w/IN tlks, mx bridges, quite a Javan opening today! (Atkins-AL)
- 3980 WEST GERMANY, VOA Relay, 28/9, 0513 EG w/ME rpt, ID, poor. (Royston-HI)
- 3985 SWITZERLAND, SRI, 28/9, 0520 FR w/tlk, mx, ID 0530, poor but little QRM. (Royston-HI)
- 3985.8 IRIAN JAYA, RRI Manokwari, 16/9, 1107 w/tlks, instl bridge lcl ID, good. (Atkins-AL)
- 3995 WEST GERMANY, DW, 29/9, 0225-0300 GM, "Wade in the Water" song, nx, rpt on ME & Germany, fair. (Jordan-PA) 28/9, 0517 GM w/drama, fair. (Royston-HI)
- 4000 CAMEROON, R. Bafoussam, 16/9, 0500 tent w/FR Catholic sce, (Renfrew-NY) 15/9, 2245 FR w/hilife mx, ID. (Klinck-NY)
- 4000.2 SULAWESI, RRI Kendari, 7/10, 1138-1215 IN w/speech, instl, SCI, TF, ID, Jak nx relay, poss. ads. (Paszkiwicz-WI)
- 4002.7 SUMATRA, RRI Padang, 16/9, 2258 poor w/YL, SCI. 1st afternoon Indo showing this season. Also a carrier on 4855.8 (Palembang) & 3904.8 (Banda Aceh) (Clark-ON)
- 4220 CHINA, Xinjiang PBS, Urumqi, 16/9, 1150 w/lcl mx, tlk, seemed RS tho Mongolian listed //4980, 5060. (Clark-ON)

- 4760 SWAZILAND, TWR, 16/9, 0358-0415\* w/IS, ID, rel pgm, weak. (Alexander-PA)
- 4765 CONGO, RTV Congolaise, 8-9/9, 2154-0002\* FR w/Afr folk mx, tlk, phone calls, ID, s/off w/NA //3265. (Alexander) 15/9, 2257 FR w/tlks, IDs, lcl mx. (Klinck-NY) 5/9, mx, anmts, NA to 2357\* Very strong. RM opened 2355 (Renfrew-NY)
- 4770 NIGERIA, 15/9, 0455 EG w/ID, Western mx. (Klinck-NY) 16/9, 0515-0530 EG w/nx, mx, faded after 0530, fair (Taylor) 1/10, 0515 EG nx by M, ID (R. Nigeria Kaduna), very good. (Morby-NY) 27/9, 2209 EG w/UN Radio pgm, ID, lite instls, (Kohlbreunner-PA)
- 4789.7 IRIAN JAYA, RRI Fak-Fak, 29/9, 1108 w/monster sig, ending Jak nx, "old" anthem, lcl ID, echo anmts, poss best ever reception. (Clark-ON) 16/9, 1135 pres. w/patriotic tlk w/ heavy echo, Indo Raya, tlk, soft pops, good. (Atkins-AL) 20/9, 1155 w/tlk, SCI (Johnston-KY)
- 4795 CAMEROON, CRTV Douala, 4/10, 2230 FR w/hilife mx, ID. (Klinck)
- 4795.4 ECUADOR, LV de los Caras, 20/9, 0158-0220 romantic ballads, ads, sev IDs, fair. (Atkins-AL)
- 4800 INDIA, AIR Hyderabad, 16/9, 1159, IS, anmt, subcont mx, audible under ute pulses. Never hrd Indian regional at max dawn in Sept. before! (Clark-ON)
- 4817.6v VIETNAM, Ha Tuyen tent, 1140 on 22/9, big carrier & thresh audio. Hanoi strong 4894.6. Ha Tuyen drifting to 4817.3, fade out 1205. Should be poss in ECNA. (Clark-ON)
- 4820 ANGOLA, EP da Huila, Lubango, 15/9, 2200 PT decent sig w/ Euro mx, ment Angola 2300 & melody but not their anthem. (Berg-MA) 23/9, 2245-2303\* tent w/Afr pops, anmt 2300, off w/anthem, very weak. (Alexander-PA)
- 4820.2 HONDURAS, HRVC, 3/10, 0200 SP w/ID, addr, rel pgm, fair. (Morby-NY) 11/9, 0216 SP w/anmts, EZL mx. (Burns-MA)
- 4820 USSR, Khanty-Mansiysk, 20/9, 2256-2320 RS w/test tones, RM IS 2259, tlk, lite mx, very weak. (Alexander-PA)
- 4825 ASIATIC RSFSR, Yakutsk Radio, 1/10, 0937-1010 RS w/tlk, 0945 TC //4940, SIO=443-433. (Yamada-JAPAN)
- 4830 VENEZUELA, R. Tachira, 11/9, 0245-0306 w/ID, Jim Croce song in SP, ads, jingles. (Burns-MA)
- 4832 COSTA RICA, R. Reloj, 10/9, 0945-0955 w/song aut Costa Rica, Tone 0950. (Burns-MA)
- 4835 MALI, RTV Malienne, 29/9, 2245 FR w/lcl mx, tlk, ID (Klinck)
- 4838 MAURITANIA, ORTM, 20/9, 2225-2335 FR w/long tlk, instl, ID, nx 2300, lcl mx, QRMing Mali. (D'Angelo-PA)
- 4840.4 VENEZUELA, R. Valera, 4/10, 0145-0200 w/mx, ads, ID 0200, fair. (Morby-NY)
- 4845 GUATEMALA, R. K'ekchi', 22/9, 0130-0200 w/tlks, folk mx, ID 0145, 0157, slow fade. (Jordan-PA)
- 4845 MAURITANIA, ORTM, 3/9, 0703 AR w/nx, AR mx. (Johnston-KY) 21/9, 2340 AR/FR cmtry on ME. (Klinck-NY)
- 4850 CAMEROON, CRTV Yaounde, 13/9, 2215 FR w/discussion, ID. (Klinck-NY)
- 4865 COLOMBIA, LV de Cinaruco, 11/9, 0325-0335 w/pop mx (Burns) 15/9, 0459 w/ID, Latin mx pgm (Klinck-NY)
- 4870 BENIN, ORTB, 13/9, 2215 FR w/tlks. (Klinck-NY) 26/9, 2250-2301\* FR w/drama, nx, ID & anthem to s/off, fair. (Morby-NY)
- 4871 IRIAN JAYA, RRI Wamena, 16/9, 1120-1130 Papuan-style mx, lcl ID, fair-good, best sig in a long time. (Atkins-AL)
- 4874.6 IRIAN JAYA, RRI Sorong, 7/10, 1106 Sunday eve EG pgm, EZL lagu/pops, pgm refs, full ID 1125. Into IN 1130 & joined Jak net 1131. (Clark-ON) 16/9, huge sig 1115 in EG w/old rock mx, short story, IN at 1131. (Atkins-AL)
- 4875 BRAZIL, Super Radio Roraima, 22/9, 0202-0400 w/IDs, lots of tlks, brass/accordion mx, FC, anmts, pops. (Jordan-PA) 6/10, 0343 w/ID (Johnston-KY)
- 4885 COLOMBIA, Ondas del Meta, 4/10, 0255-0340 w/breezy DJ, LA pops, ballads, slick promos, IDE, effects. (Jordan-PA) 10/9, 0830-0915 w/pop mx, chatty ancr, echo ads. (Burns-MA)
- 4890 GABON, RFI Relay, 15/9, 0500 FR tlks, ID. (Klinck-NY)
- 4900 GUINEA, RTV Guineenne, 21/9, 2345 FR lcl mx, ID, nx in FR (Klinck-NY)

- 4904.6 CHAD, Rdr. Nat. Tchadienne, 3/9, 0427, balafon IS, NA, ID, 1cl mx. (Johnston-KY) 15/9, 0500 FR w/IDs, 1cl mx pgm. (Klinck-NY) 22/9, 2250-2259\* FR w/hilife mx, ID, s/off w/children's chorus, instl NA. (Alexander-PA)
- 4915 GHANA, GBC-1, 30/9, 0535-0608 w/kalimba mx, EG tkl, fair by 0550, ID 0600, nx headlines. (Atkins-WA) 13/9, 2220 tkl in lang, ID, nx in EG (Klinck-NY) 27/9, 2246 EG w/1cl nx, rel pgm/mx, ID 2253 "R. One, Ghana Bx Corp" (Kohlbrener) 29/9, 2248 EG ID, Afr nx //3366. Lotto numbers. (Moby-NY)
- 4915 PERU, R. Cora, 4/10, 0100, 0425, serious tlks, IDs, ads, jingles, TC, FC, folk mx, "God Save The Queen!" (Jordan-PA) 25/9, 1025-1044 w/mx, ads, ID 1030, TCs. (Kohlbrener-PA)
- 4920 ECUADOR, R. Quito, 12/9, 0415-0430 w/freq ments of Quito. (Burns-MA)
- 4925.8 RIO MUNI, RN Bata, 23/9, 2135-2202\* SP continuous tkl by M to NA 2158. (Alexander-PA) 16/9, 2143 SP tkl abt Africa, vern mx, NA 2201. (Karcheski-MA) Vern Hyson was singingt-sp
- 4930 GEORGIAN SSR, Tbilisi, 29/9, 0225-0300 RS lite mx, Mayak IS, tkl, EZL. Most likely them as Ashkhabad in daylite by this time. Weak. (Alexander-PA)
- 4934 KENYA, KBC, 22/9, 0230 EG w/1cl mx, ID (Klinck-NY) 7/10, 2030 EZL mx, EG nx 2100, inspirational tkl, closing anmt, mx but not anthem, dead air to 2110\* (Berg-MA)
- 4955 BRAZIL, Radio Marajoara, 19/8, mx, IDs to 0514\* (Renfrew-NY)
- 4970 VENEZUELA, R. Rumbos, 12/9, 0430-0445 w/pop mx, upbeat anmts. (Burns-MA)
- 4975 BRAZIL, R. Tupi, 7/10, 2315-2336 w/tml, choir, ID, ment Brasil, Sao Paulo, speech, jingles. (Paszkiwicz-WI)
- 4978 VENEZUELA, Ecos del Torbes, 10/9, 0916-0942 w/pops & freq IDs (Burns-MA)
- 4980.5 MONGOLIA, Ulaanbataar R., 20/9, 2107-2135 in MG nx, tkl, radio gym exercises. Back on 4995 21/9 at 1345 (Yamada-JAPAN)
- 4988.5 MONGOLIA, Ulaanbataar R., 20/9, 1020-1050 in MG tkl, moved from 4995, SIO=443. (Yamada-JAPAN)
- 4990 CHINA, Hunan PBS, 1/10, 1432-1459 CH tkl, mx, 1440 ID, closing anmt to s/off. This station changed time of s/off recently, SIO=444. (Yamada-JAPAN) Your rpts are vy useful--sp
- 4990 NIGERIA, R. Nigeria, Lagos, 27/9, 2220 EG w/jazz, ID, "R. Nigeria One, Lagos," political mtry, poor. (Kohlbrener-PA) 20/9, 2245 EG w/tml abt Nigerian jazz (Klinck-NY) 4/9, 2300-2308\* EG ID as above, nx, song abt Nigeria, jingles anmts, pledge, anthem, SIO=3+53 (D'Angelo-PA)
- 5000 AUSTRALIA, VNG, 12/10, 1114 EG w/"Box 303, Canberra" (Taylor)
- 5000 UNID, 23/9, 0500-0530 in USB w/LA mx, weak, mixing w/WV & YVTO. (Alexander-PA)
- 5005.1p NEPAL, R. Nepal, 22/9, 1142 w/tml but weak. Weaker het from Malaysia here, big carrier, thresh audio poss. Bhutan 5023.1 (Clark-ON)
- 5015 BRAZIL, R. Brasil Tropical, 26/9, 0230-0252 w/pops, brass, ballads, echo anmts, voice over IDs. (Jordan-PA)
- 5019.9t COLOMBIA, Ecos del Atrato, 8/9, 0245-0330 w/LA mx, Caracol promos, DJ chat, no ID so tent. (Alexander-PA)
- 5020 NIGER, LV du Sahel (ORTN), 15/9, 0500 FR w/ID, 1cl mx (Klinck-NY) 7/9, 2150-2201\* FR w/hilife mx, ID, s/off anmts, choral NA, SIO=353. (D'Angelo-PA)
- 5034 CENTRAL AFRICAN REP., RTV Centafricaine, 13/9, 2225 FR w/tml ID & 2/10 w/blues pgm at 0430 at 3/10 w/1cl mx (Klinck-NY)
- 5034.9 BRAZIL, unid, 29/9, 0202 w/EZL mx, ads, faded by 0500. (Johnston-KY)
- 5040 ANGOLA, EP de Benguela, 28/9, 0437-445 w/tml, Afr mx, fair sig. (Royston-HI) 16/9, 0455-0515 pres, tkl, Afr pops, weak Also 2235-2300 w/pops, ballads. (Alexander-PA)
- 5047 TOGO, RTV Togolaise, Lome, 16/9, 2135 FR w/1cl mx, tkl, ID (Klinck)
- 5055 COSTA RICA, Faro del Caribe, 8/10, 0315 EG rel pgms, ID, into SP 0400. Ute QRM. (Kurrasch-NY)
- 5055.4 IRIAN JAYA, RRI Nabire, 29/9, 1145 soccer game (Clark-ON)
- 5408 CLANDESTINE, Vo Natl Army, 30/9, 1345 in lang w/singing, ment Kampuchea, more mx, poor sig. (Royston-HI)

TROPICAL TIDBITS: Wow! There sure was a good turnout this month. It's thanks to each of you for making this column possible every month. Several of you sent your loggings directly to me and I appreciate your contributions.

Dave Clark, thanks for your two envelopes of loggings plus those you sent through Vern! Thanks, too, for the info on some of the other stations you've been hearing outside the tropical bands. You have some nicely detailed loggings.

Rufus Jordan sent his loggings to me by Priority Mail to make sure he'd make the deadline! Now, that's dedication!

Mark Burns is a newcomer this month. I'm glad you sent in what you've been hearing. Mark's been a member since January and is getting back into the hobby after a long absence. He works at WCTK-FM in New Bedford, MA, a 50 kW country station. He uses a Panasonic RF-B65 with a longwire or Antennas West World Probe and Grove Mini-Tuner. He's considering trading up to a Yaesu, Kenwood or Icom and asks for suggestions. Well, they're all popular models so before making that purchase, you might want to read some receiver reviews and find out the specs on each receiver so you get the one with the most features you are looking for. Mark also mentions having traveled to Oaxaca, Mexico, a few years back and that's where he became interested in the Latin American radio stations.

Thanks, again, Bill Kurrasch of Ontario, NY. Bill says his loggings this month are a result of the segment on English broadcasts in the tropical bands which appeared here a couple months ago. Glad to hear it was helpful.

Kevin Atkins says September was good for Indonesian stations, particularly those from Java. Remember, Kevin's our new DXers' Forum chairman so I'm sure he'd be happy to hear from anyone who's interested in writing an article on some specific aspect of the DXing hobby. Kevin really can pull in that Indonesian DX and I have to look closely at the loggings to figure out whether these loggings are coming from Atkins on the East Coast or Atkins on the West Coast!

Speaking of which, Guy Atkins also checked in directly with some nice loggings--good catch on RRI Semarang. Once again, Guy's loggings were from a DXpedition at Lion Rock Plateau, WA.

Also, Kris Field and Vern Hyson continued to do a good job getting me as many loggings as possible in time for the deadline. Remember, our new distributing editor is Vern Hyson, whose address appears on the contributors' page. His deadline is the 10th of the month, but if you are running late, you may also send your loggings directly to me by the second to last Saturday of the month.

This isn't a tropical bands station but certainly not an international broadcaster either: Listeners to World of Radio or SWL Digest or members of Fine Tuning may have heard about the special broadcast conducted by Radio St. Helena on 11092.5 kHz on October 6 from 1953-2100 UTC. The broadcast was arranged by Stora Tuna DX Klubb in Sweden. I understand this was the first legitimate SWBC from this country. We appreciate the help of Stora Tuna and Radio St. Helena!

Also, the country of New Caledonia has left the shortwave bands. DXers could hear this one on 7170 in the past during the early morning hours playing pop music with announcements in French. There have been several countries which have left SW lately. Thanks to Geoff Cosier via NU for this info.

Radio Berlin shut down October 3, coinciding with German reunification. Loggings for the former West or East Germany will continue to be shown as such since they will still count as separate countries under NASWA rules. In closing, please continue your great support and Happy Thnxgvg.

# International Band Loggings

5901-30000 kHz

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



- 5995 MALI RT du Mali in FR 2220, hi-life mx, ID, nx, //4835, p (D'Angelo PA 11/9)
- 6005 CANADA CFCX Montreal in EG 2330, coverage Mohawk problem (Kohlbrener PA 26/9)
- 60148 TANZANIA VOT Zanzibar in SH 0335, chants, drums, pips, ID, nx (Clark ONT 17/9)
- 6025 DOMINICAN REPUBLIC R Amanecer in SP 2248, choir, ID, fqy, organ (D'Angelo 4/9)
- 6030 GERMANY Sddeutscher Rundfunk in GM 0510, vocals, big band, ID, nx(D'Angelo 8/9)
- 6055 RWANDA R Republic Rwandaise in FR 2040, ID, into mx (Klinck NY 30/9)
- 6085 GERMANY Bayerischer Rundfunk in GM 0046, mx, variety pgm (Klinck NY 22/9) in GM 0632, polka, yodels, ads, pips, ID, nx, pop mx, f-p (Kurrasch NY 22/9)
- 60886 CHILE R Esperanza in SP 0948, cohost tlk, soft vocal mx, ID's (Atkins AL 16/9) in SP 0850, chatter, ID's, 1 kw operating all-nite on Sat only (Clark ONT 23/9)
- 60898 CAMBODIA V of People Phnom Penh in lang 1105, nx?, f-p, //4910 (Clark 16/9)
- 61298 LAOS Lao Nat R in Lao 1035, local mx (Klinck NY 22/9) in Lao 1145, annmt 1159 ment of Vientiane, mx theme, 7 gongs, anthem mx, nx?, f/o 1207 (Atkins AL 16/9)
- 6135 SWITZERLAND SRI in EG 0418, child abuse in Switzerland etc. (Craig TX 2/10)
- 6140 AUSTRALIA VLW6 Perth in EG 1140, "Country Music in the West", ID, nx, wx, f //9610 (Kurrasch NY 30/9, Renfrew NY)
- 6150 COLOMBIA R Caracol, Neiva in SP 0555, ads, jingles, LA mx, g (Alexander PA 29/9)
- 6160 CANADA CKZK St. Johns in EG 2315, CBC relay of rock oldies, g (Kurrasch NY 15/9) in EG 0856, interview w/Ukraine immigrant, exc til DW s/on 0856 (Klinck 30/9)
- 6160 CANADA CKZU Vancouver in EG 0012, interview w/a cleric (Klinck NY 22/9)
- 6185 MEXICO R Educacion in SP 1126, tlk, martial mx, ID (Johnston KY 20/9)
- 62503 EQUATORIAL GUINEA RN Malabo in SP 2205\*, Afr mx, ID, NA (Alexander PA 23/9)
- 6295nf? SOUTH KOREA RK in KR 1003, tlk on No. & So. Korea, features, f (Yamada JP 29/9)
- 7145 ALGERIA RTV Algerienne in FR 2230, ID, Arabic mx (Klinck NY 3/10)
- 71899 YEMEN YBS in AR 0300, NA, ID, Koranic chant, mx, QRM R Swoboda (Renfrew NY)
- 7202 ZAIRE LV du Zaire in FR 0405, Afr pop mx, ID, tlks, p (Royston HI 16/9)
- 7230 ITALY AMR in EG 0534, sked, mx, "DX Corner", g (Kurrasch NY 16/9)
- 7255 NIGERIA VoN Lagos in EG 0530, ID, nx (Klinck NY 11/9) in EG 0620, tlks on lcl exports, mx fillers, ID, skeds, various nx features, f (Jordan PA 9/9)
- 7255 BOTSWANA R Botswana in EG/lang 0338, pop mx, nx, rooster crow (Kurrasch NY 9/10)
- 7412 INDIA AIR in EG 1900, ID, nx, //11620 (Dillon GREECE 8/9) in EG 2224-2230\*, ID, instrum string mx, tlks, skeds, exc (Ross ONT 1/9)
- 7670 BULGARIA Bulg R Stolnik in BG \*0258+, instrum IS, pips, ID, mx (D'Angelo PA 9/9)
- 9022 IRAN VOIRI in EG \*1930-2020\*, IS, nx, cmntry, mx, mailbag, f-g (Kurrasch 21/9) in EG 1930, IS, ID, sked, Qur'an recitation, anti-Iraq cmtry (Dillon GREECE 8/9)
- 9500 ALBANIA R Tirana in EG 0531, nx, ID's, ALB folk mx (Johnston KY 2/9)
- 9515 ITALY RAI Sicily site in IT 0557, ads, ID's (Johnston KY 22/9)
- 9540 BRAZIL R Educadora Bahia in PT 0859, mx, ID, p (Yamada JP 8/9) in PT 2315, tlks, jingles, drama, chimes on hr, ID (Paszkiwicz WI 28/9) in PT 0002\* (Renfrew NY)
- 9545 SOLOMON IS. SIBC in EG 0700, choral singing, nx, ad, spts, wx (Kurrasch NY 16/9)
- 9560 ETHIOPIA V of Ethiopia in EG 1559, cmntry, AR mx, ID, IS 3 bells (Tutak WA 9/9)
- 9570 CHINA R Beijing in EG 1707, nx, sports, ID, g (Tutak WA 23/9)
- 9575 PHILIPPINE IS. VOA relay in EG 1940, rock & reggae mx, ID's, f (Tutak WA 18/9)
- 9575 MOROCCO R Mediterranee in FR \*0744, tlk, ads, nx 0800 (Johnston KY 3/9)
- 9590nf? UNITED KINGDOM BFBS in EG 0213, pop mx, greetings to forces in Gulf, ex 9640, //7125, 13745, s/off 0229 (Alexander PA 30/9)
- 9615 NORWAY RNI in EG 0115, Norwegian travelog, ID (Klinck NY 10/9)
- 9620 CHINA SRI relay in Esperanto/EG 1303, IS, tlks, mx, into EG 1330, TC, "Dateline" "Swiss Merry-go-Round", //11695 (via China), g (Yamada JP 29/9)
- 9640 NO. KOREA R Pyongyang in EG 1712, ID, cmntry, //9977 (Tutak WA 23/9)
- 9655 THAILAND RT in EG 1130, soft Asian mx, IS, ID, fqys, f-p (Atkins AL 18/9)
- 9660 AUSTRALIA VLQ9 Brisbane in EG 0813, sports, nx, TC (Kurrasch NY, Klinck NY)
- 9680 MEXICO XEQQ Mexico City in SP 0646, ezl pops, low key annmmts, ID, f (Tutak WA)
- 9695 SWEDEN RS in EG 0200, nx, DX pgm, //11705 (Zilmer NM 3/10, Craig TX 9/10)
- 9695nf? NEW ZEALAND RNZ in EG 1400, nx, drama (Zilmer 30/9) in EG 0859, relay of Nat'l Radio, mx, tlk, comedy, exc (Yamada JP 13/9)
- 97197 ANGOLA RN de Angola in PT 0645, pops, ballads, ID, ID, nx (Alexander PA 16/9)
- 9720 SRI LANKA SLBC in EG 1929, pops, mailbag, TC, ID, f-g (Tutak WA 18/9)

97251 COSTA RICA R Lira/AWR in EG 1128, ID, relig pgm (Klinck NY 20/9) in SP 0458\*, s/off anmts in EG w/R Lira, AWR, and TIAMR ID's (Alexander PA 9/9)

97297v VIETNAM VoV in EG/Thai 1115, folk mx, into Thai 1130, mx, nx (Yamada JP 29/9)

9740 SINGAPORE BBC relay in EG 1130, ID, dramatic pgm (Klinck NY 20/9)

97502 CHILE R Minería Santiago in SP 1010, mx, tlks, canned ID (Clark ONT 23/9)

9765 MALTA VoMediterranean in EG \*0600, ID, sked, freqs, address, instrumental mx, YL DJ named Monica, "Weekly Reflections" (Johnston KY 2/9, Ross ONT 2/9)

9800 FRENCH GUIANA RFI relay in EG 0323, discussion of Liberian Civil War (Craig TX)

9860nf AUSTRALIA RA in EG 1355+, sports nx, wx, //9580, 9770, g (Treibel WA 27/9)

9860 NETHERLANDS RN in EG 2115, "Over to You", mx, //13700, 15560 (Prath FL 1/9)

9870 AUSTRIA RAI in EG 0130, pgm on Austrian wildlife (Klinck NY 10/9)

9950 INDIA AIR in HD/EG 1415, ID, tlks, nx, IS, "Radio Newsreel", f (Yamada JP 8/9)

9977 NO. KOREA R Pyongyang in EG 1118, cmntry, skeds (Kohlbrenner PA 21/9, Morby)

10510 ALBANIA R Tirana in CH 0500, sing-song tlks, classical mx, vp (Jordan PA 27/9)

110925nf ST. HELENA RSH in EG 2005-2100\*, special xmsn rptd one day only by 3 members, pop mx, phone-ins from overseas, many ID's, anncd //9338 but not heard, poorly modulated carrier (Hardester NC, Johnston KY, Field PA all on 6/10)

11660 BULGARIA Bulgarian R HS(t) in EG 0208, ethnic mx, no tlk, g (Levison PA 11/9)

11665 GUAM KTRW in CH 1430, ID, man in tlk in CH (Klinck NY 19/9)

11685 FRENCH GUIANA R Beijing relay in EG 0430, Northwest Airlines ad (Craig TX 29/9)

11715 ALASKA KNLS in EG 0800, IS, mx, tlk, mailbag, feature on jazz, Bible course promo, f-g (Kurrasch NY 16/9) in EG 0815, "Creation Moment", mx (Ross ONT 1/9)

11735 YUGOSLAVIA RY in EG 0045\*, tlks on Yugo immigration to Australia, Islamic relig growth in Yugo (Jordan PA) in EG 1840, tlk on Yugo architecture (Dillon GREECE)

11765 BULGARIA R Sofia in EG 2050, pop mx, ID, into IT 2100, //15330 (Prath FL 1/9)

11790 USSR R Yerevan in EG 0250, cmntry, ID 0257 then into Armenian(p) (Crumhorn 5/9)

11790 USSR R, Vilnius in EG 2200, nx re the Baltic republics, f (Crumhorn 7/9)

11835 SRI LANKA SLBC in EG 1114, ID, political cmntry (Klinck NY 20/9)

11835 GABON R Japan relay in EG 2310, nx to 2315, "Hello from Tokyo" (Craig TX 14/10)

11860 ALASKA KNLS in EG 1515, US pop mx, cmntry on Mideast, ID (Klinck NY 25/9)

11880 ZAMBIA RZ in EG 0510, clear ID 0516, lcl Afr mx, Sunday only (Alexander PA 23/9)

11900 SOUTH AFRICA RSA in EG 0405, nx, feature, ID, freqs, f (Kohlbrenner PA 26/9)

11940 ROMANIA RRI in EG 0419, cmntry on new govt in Romania (Craig TX 29/9)

12025 MONGOLIA R Ulan Bator in EG 1200, IS, ID, f under co-channel RMoscow (Clark ONT)

12077 ISRAEL Kol Israel in EG 2130, nx, press review, Jewish festival (Zilmer NM 3/10)

- in FR/HB 2300-2325\*, lang lessons, vocab & math problems, g (Jordan PA)

13600 IRAQ R Baghdad in EG 2003, Mideast mx, ID, nx, propaganda (Tutak WA, Craig TX)

13610 EAST GERMANY RBI in EG 0045, IS, ID, press review, mailbag, farewell bcst w/each staffer saying goodbye prior to unification (D'Angelo PA, Crumhorn 1/10)

13610 GERMANY Deut Welle in EG 0158, first bcst to NA after reunification using RBI xmters, s/on was for D Welle but "Voice of Germany" stressed (Hardester NC 3/10)

13620 IRAQ/KUWAIT Occupied Kuwait in AR 0415, polemics, patriotic vocals, speeches w/many refs to Saddam Hussein, Iraq & USA, g (Jordan PA 11/9)

13635 SWITZERLAND SRI in EG 2100, "Dateline", nx, //9885, 15525 (Zilmer NM 3/10)

13650 NO. KOREA R Pyongyang in EG 1300, nx, cmntry on reunification (Zilmer NM 29/9)

13780 GERMANY Deut Welle in EG 2100, spec pgm on reunification, //9765 (Zilmer 3/10)

149177 KIRIBATI RK in EG 0637, choral group singing, brief tlks (Kurrasch NY 16/9)

15050 INDIA AIR in EG 1000, IS, freqs, target areas, nx, f (Atkins AL 23/9)

15100 PHILIPPINES FBBC in EG/VT 1114, IS, several ID's in EG, g (Atkins AL 19/9)

15100 CHINA R Beijing in EG 0025, feature on Asian games, ID (Levison PA, Klinck NY)

15115 NO. KOREA R Pyongyang in EG 0000, nx, cmntry, TC, mx (Kohlbrenner PA, Zilmer NM)

15120 SRI LANKA SLBC in EG \*1835, fanfare, ID, freqs, drums, nx, vg (Clark ONT 16/9)

15170 IRAQ V of Egypt of Arabism(p) in AR 1830, ID, polemics, p (Jordan PA 21/9)

15180 VATICAN STATE VR in EG 0050, religious pgm, ID (Klinck NY 28/9)

15205 ANTIGUA Deut Welle relay in EG 0312, tlk re German unity, mx (Craig TX 9/9)

15245 UNITED KINGDOM BFBS via BBC in EG 0445, instrum mx, "Gulf Week", personal messages to members of armed services in the Gulf area (Jordan PA 19/9)

15275 AUSTRIA RCI relay in EG 0445, cmntry re elections in Manitoaba (Dillon GREECE 8/9)

15275 NO. MARIANAS KHBI Saipan in EG 2300, ID, world nx, relig pgm (Morby, Craig 4/10)

15285 PORTUGAL RP in FR 1201, many ID's followed by e2l mx, tlks, vg (Morby 29/9)

15350 LUXEMBOURG RL in EG 0045, mx, wx, ID (Klinck NY) in EG 0547, rock mx, wx, addr, (Tutak WA) in EG 1155, pop mx, ID, into FR 1230 (Jordan PA) in EG 2054, ID as Planet Earth's greatest commercial radio station", rock mx, g (D'Angelo PA 30/9)

15375 EGYPT R Cairo in EG 2110, political editorial, ID, nx, f (Morby 30/9)

15445nf? BRAZIL RN de Amazonia in PT 1212, "Sounds of Silence", ID's, promos (Jordan PA)

15495 IRAQ/KUWAIT Occupied Kuwait in AR 2215, Q & A pgm format w/topics on Iran and Kuwait, AR vocals, pips, ID, nx (Jordan PA 12/9) Koran in AR 1540 (Klinck NY)



15570 SWITZERLAND Red Cross BCS in EG 1040, nx re Kuwait refugees (Crumhorn TX 1/10)  
 15610 GUAM KSDA Agat AWR in EG 2300, relig pgm on family matters (Zilmer NM 27/9)  
 156144 ISRAEL Reshet Bet in HB 1100, nx, ads for Tel Aviv businesses (Atkins AL 23/9)  
 15618 ISRAEL Reshet Bet in HB 2000, nx, cmntry, rx, ads, Home Service (Zilmer NM 3/10)  
 15770v ICELAND INBS Reykjavik in IC \*2300-2329\*, nx, cmntry, //13855 (Kurrasch NY 21/9)  
 In IC 1907-1930\*, tlk by M, s/off w/usual mx bridge (Alexander PA 9/9)  
 175543v PAKISTAN RP in EG 1600, nx, cmntry, wx, //15605 (Zilmer NM 3/10, Kurrasch NY)  
 17595 MOROCCO RTV Marocaine in FR 1555, FR mx, ID (Klinck NY 16/9)  
 17625 USSR R. Yerevan in AR 0700, IS, mx, nx, tlk, p (Yamada JP 9/9)  
 17640 PAKISTAN RP in AR 0129, ID, chanting in Arabic (Klinck NY 28/9)  
 17745 ROMANIA RRI Bucharest in SP 0038, ethnic mx, steady hum QRM (Levison PA 6/9)  
 17770 QATAR QBS in AR 1705\*, 6 pips at 1700 w/last pitch higher (Renfrew NY)  
 17795 AUSTRALIA RA in EG 0135, telephone interview, ID (Klinck NY 28/9)  
 21605 UNITED ARAB EMIRATES UAER Dubai in EG 1338, pgm on AR thought (Johnston KY 29/9)  
 21610 JAPAN RJ Tokyo in EG 2115, "Let's Learn Japanese" (Craig TX 30/9)  
 21675nf? ITALY RAI in IT 1215, presumed xmsn to MidEast, ID, nx, vp (Jordan PA 3/10)  
 21675 IRAQ/KUWAIT V of Peace in EG 1735, boasts on military strength, g (Levison 15/9)  
 21695 SWITZERLAND SRI in EG 1345, nx, cmntry on GM reunification (Zilmer NM 3/10)  
 21735 UNITED KINGDOM BFBS in EG 1359\*, pop mx, ID, greetings to military in Gulf area, nx, "BFBS" jingles, //15195, 17695 (Alexander PA 29/9)  
 21770 FRANCE RPI in EG 1400, nx, weekly nx editorials (Zilmer NM 29/9)  
 21775 AUSTRALIA RA in EG 1300, nx, messages to MidEast armed forces (Zilmer NM 3/10)  
 21810 BELGIUM BRT in EG 1400, nx, wx, review of daily press, SEAsia xmsn (Zilmer 3/10)  
 25680nf USSR R Moscow in lang 1120-1345, tlks and rpts on Iraq, AR mx (Jordan PA 6/10)  
 25730 NORWAY RNI in EG \*1200, annod Sat & Sun editions of "news and views from Norway" (in English, presumably), nx, DX pgm, //21735 (Jordan PA 8/9)

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#### CLANDESTINES AND PIRATES

63194 EUROPIRATE R Stella in EG 0240-0447, ID, pop & rock mx by the Beatles et al, listener's mail, freq annmt, address (D'Angelo PA 9/9, Alexander PA 9/9)  
 73919v PIRATE Hope R Int in EG 0151-0257\*, ID, promos, rock mx, 40's mx, Blue Ridge Summit address, tlk re othe pirates (Alexander PA, D'Angelo PA, Renfrew NY)  
 7400 PIRATE Radio Free Oz in EG 0240-0314\*, wx, TC, ID's, mx rx, long tlk re mx of the 60's, Wellsville, NY mail drop (D'Angelo PA 16/9)  
 74121 PIRATE One Voice R in EG 1730, Blue Ridge Summit QTH, ID, tlk (Alexander 16/9)  
 74153 PIRATE R Wolf Int in EG 0125-0220\*, rock mx, ID's, DJ chatter, Pittsburgh addr, comely (D'Angelo PA 16/9, Alexander PA 16/9, Ross ONT 2/9, Renfrew NY)  
 7415 PIRATE WGAR in EG 0323-0326\*, s/off annmts saying this was just a 5 minute bcst said they are working on a mailing address (Alexander PA 30/9, D'Angelo PA 30/9)  
 7415usb PIRATE R Beaver Canada in EG \*0100-0145\*, IS beaver call, ID "from the big nickel in Sudbury", plugs for ACE & ODXA (Ross, ONT 22/9)  
 74166 PIRATE Radio USA in EG 0040, rock mx, ID, muffled audio (Alexander PA 30/9)  
 7419 PIRATE CFBN Fly by Night R in EG 0218\*, loon IS, Wellsville addr (Renfrew NY)  
 7420 PIRATE Pirate R New England in EG 0335, continuous loop tape ID (D'Angelo 29/9)  
 7520 PIRATE R New York Int via WOCR in EG 0100-0205, premier bcst of former water pirate now relayed by legitimate bcstr, "high energy" big production ID and pgm intro, parody & mx sels, ad for Pop Comm (D'Angelo PA 17/9, Jordan PA)  
 8057 CLANDESTINE V of Democracy in CH 1400, tlk by YL, mx (Yamada JP 30/9) Note: Mr. Yamada did not indicate whether or not an ID was noted.  
 9480 CLANDESTINE V of Libyan People in AR 2259, annod Chicago addr (Renfrew NY 5/9) also rptd on 9490 in AR 0502, ID(p), tlks, sked?, polemics (Jordan PA 18/9)  
 9700 CLANDESTINE A Voz de Resistencia do Galo Negro in PT \*0455-0540, s/on w/guitar & rooster IS, NA, tlk, nx?, ID's w/instrum flourish (Jordan PA, Alexander PA)  
 9942 CLANDESTINE La Voz del Cid - Guatemala? in SP 0135, tlk, ID, mx (Klinck NY 10/9)  
 117101 CLANDESTINE Radio SPLA Ethiopia in AR 1340-1358\*, tlk, AR mx, s/off w/ID in EG as "Radio SPLA, V of the Sudanese revolutionary armed struggle"(Alexander 30/9)  
 150507 PIRATE Hope R Intl in EG 2213-2248\*, Jefferson Airplane, Fruit of the Loom nx briefs, ACE ad, oldies, annod last bcst (Paszkievicz WI 22/9, Atkins AL 22/9)  
 15650 CLANDESTINE R Iran from Egypt in AR 0232, anti-Khomeni tlk (Johnston KY 10/9) Note: Wasn't Khomeni dead on September 10?  
 17680 CLANDESTINE V of Democratic Kampuchea from China in Kmer 0445, tlks w/several mentions of Kampuchea, f-g (Royston HI 28/9) Note: Try parallel 15110 also.

\*\*\*\*\*

# Publisher's Page

**Bill Oliver**  
45 Wildflower Road  
Levittown, PA 19057



**FOR SALE:** Drake SPR-4 receiver with all crystals. In mint condition with manual, \$275.00. You pay shipping. Stephen Leite, 190 Healy St., Fall River, MA 02723. Phone (508) 675-2830 from 2100 to 0100 UTC.

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**FOR SALE:** RBI memorabilia including 2 RBI DX Club pads, 1 RBI DX Club banner (blue print on white), RBI neck tie, address book, pennant, pin, universal calendar, large 1990 wall calendar with color pictures of the fountains of the GDR, and set of slides with German language description. Best offer. Rev. William Peake, Box 414, Buffalo Center, IA 50424. Phone (515) 562-2317.

**WANTED:** JRC NRD-525 in excellent condition and appearance. Prefer stock receiver with no options. Walter T. Oliff, Box 8, Naval Station Rota, FPO New York, NY 09540. All offers answered.

**FOR SALE:** Sony ICF SW1S Ultra-compact AM/SW/FM receiver complete with AC adaptor, stereo headphones, antenna module, antenna controller, suction cup, and case with strap. Hardly used and in mint condition. Price \$175.00. I pay shipping. Andrew Herrschaft, P.O. Box 3693, Portland, ME 04101. Phone (207) 773-1562.

**FOR SALE:** Alpha Delta Sloper DX Antenna with coax. Barely used. Price \$35.00 including shipping. Jerry Klinck, 43 Lein Road, West Seneca, NY 14224.

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# NASWA

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