

NASA

The
Journal
of the
North
American
Shortwave
Association

Volume XXXI, Number 11
November, 1991

UNIVERSAL RADIO

ANNUAL BOOK SALE

★ Every fall Universal features a special sale on our most popular titles. We work with major shortwave publishers to bring you exceptional savings on the best radio books.

Sale prices valid until 12-15-91.

☛ PLEASE ADD \$1 PER TITLE FOR SHIPPING

SHORTWAVE LISTENING GUIDEBOOK

By Harry Helms. This book contains understandable information on: selecting a SW radio, operating a SW radio, getting program schedules, antennas, time stations, pirates, and much more. With tables and diagrams. Gives you an understanding of SW radio, so you can hear history in the making. ©1991 DX/SWL.

Order #0498 \$46-96 \$14.90

SHORTWAVE CLANDESTINE CONFIDENTIAL

By Gerry Dexter. Here is the definitive guide to clandestine radio: past and present. Read about the well known clandestines of yesteryear like Radio Swan and Radio Euzkadi and about the clandestine broadcasters of today. Interesting and informative reading. ©1984 Universal Electronics. 84 p.

Order #0766 \$6-96 \$3.90

SHORTWAVE RECEIVERS PAST & PRESENT

By Fred Osterman. A concise guide to over 200 shortwave receivers manufactured in the last twenty years. Gives key information on each model including coverage, display, circuit type, performance, new value, used value, etc. Photos on most models. The Blue Book of shortwave radio values. ©1987 URR 104 p.

Order #2948 \$8-96 \$6.90



THE RTTY LISTENER

By Fred Osterman. This specialized book contains up-to-date, hard-to-find information on advanced RTTY and FAX monitoring techniques and frequencies. An interesting secondary reference for the advanced radioteletype listener. Compiles Newsletters 1 to 25. ©1991 Univ. Radio Res. 222 pages 8 1/2" x 11"

Order #0943 \$40-96 \$14.90

INSIDE THE MISSION CONTROL CENTER

By R. H. Nicholson. This book is your personal tour of the technical workings of the Mission Control Center at the Johnson Space Center. A technical and comprehensive examination of NASA's nerve center. A great book for the space or communications enthusiast. ©1991 Universal Radio Research. 96 pages 8 1/2" x 11".

Order #0030 \$44-96 \$7.90

THE WORLD BELOW 500 KILOHERTZ

By Peter Carron Jr. A handy introduction to the world of longwave listening. Covers VLF, GWEN, Loran, Omega, ELF, Lowfers, frequency use, receiver and antenna information, tuning tips and much more. Not a beacon directory. ©1985 Universal Radio Research. 64 p.

Order #0289 \$4-96 \$3.90

PASSPORT TO WORLD BAND RADIO 1992 Edition

By Larry Magne. A must-have book for every SWBC listener. Provides complete visual data on all SWBC stations from 2 to 27 MHz. See at a glance: station name, location, frequency, time, language and power. Also includes candid hard hitting reviews on SW radios. Indispensable! IBS New 1992 Edition.

Order #1000 \$46-96 \$13.90

WORLD PRESS SERVICES FREQUENCY LIST & MANUAL

By Thomas Harrington. Lists English RTTY press stations. Three different master frequency lists: by time, by frequency and by country. Chapters also review antennas, receivers and RTTY equipment. The original world press services book. Includes supplement. Fifth Edit. ©1991 Univ. Elec. 84 p.

Order #0989 \$8-96 \$6.90

SATELLITES TODAY

By Frank Baylín. Here is a complete and understandable guide to satellite television technology. Round out your knowledge of communications with this interesting and well illustrated title. This is a very informative and readable book. Second Edition. ©1986 Universal Electronics. 166 p.

Order #1325 \$9-96 \$5.90

WORLDWIDE AERONAUTICAL COMMUNICATIONS (2-28 MHz)

By R.E. Evans. DXing HF aeronautical can be exciting and productive if you know when and where to look. This absolutely accurate and up-to-date book covers all major civil and military aero freqs. from 2 to 26 MHz plus a cross-listing by country. An excellent glossary of terms is featured. First Edit. ©1991 U.R.R. 42 p.

Order #3005 \$6-96 \$4.90

HUGE NEW 92 PAGE CATALOG Our new catalog is bigger than ever, with everything that is new for the listener, ham or scanner enthusiast. Available FREE by 4th class mail or \$1 first class mail.

- Visa, MC, Discover
- Prices are subject to change.
- Used gear available.

STORE HOURS

Monday - Friday 10:00-5:30
Except Thursday 10:00-8:00
Saturday 10:00-3:00
Sunday -CLOSED-

Serving Listeners Since 1942!

Universal Radio

1280 Aida Dr. Dept. FREN

Reynoldsburg Ohio 43068 U.S.A.

Toll Free: 800 431-3939 Ohio 614 866-4267

NASWA Notes

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



Hi Gang! In this months *Journal* you will find the complete English Language Shortwave Broadcast Schedules as compiled by Tom Sundstrom. For your convenience we've put it in the middle of the book for easy removal. Thanks to Tom for the time and dedication it takes to keep this going.

Dues Increase

As much as I hate to do it, the time has come to raise the dues. Remember that postal increase back in February? Bill Oliver told me then that at some point we were going to have to raise the dues because of the postal increase. Well, that time has come. The postal increase per month was \$0.10 or \$1.20 for the year. Printing costs increased mid-summer and we now pay \$0.05 additional per *Journal*, or \$0.60 for the year. With the total coming to \$1.80, we feel we have to raise the dues \$2 effective January 1, 1992. North America goes to \$25, Central America, Caribbean, South America, and Europe goes to \$29 and Asia, Africa, and the Pacific will be \$32 per year.

**** Notice **** Save a couple of bucks and renew at the old rate until January 1.

ANARC

This year's annual ANARC gathering was held in conjunction with the Monitoring Times Convention, Oct 4-6, in Knoxville, Tenn. NASWA was represented at the convention by Ed Mauger, Fred Kohlbrenner, and Alan Johnson. They hung up our blue and white banner, passed out sample Journals, signed up some new members, and had a good time meeting all the SWLs who stopped by to say hello. Interim coordinator, Sheldon Harvey, had notified the 15 ANARC clubs many months ago about the convention and arranged for table space in the exhibit hall so that all the clubs could participate by display-

ing information about their club. Unfortunately, the end result for ANARC was poor participation. Only 5 of the clubs, CIDX, SPEEDX, AOSC, RCMA and NASWA, participated either with displays or representatives. Ed Mauger represented NASWA at the ANARC Club meeting which was chaired by Sheldon Harvey. He taped the meeting and I feel that what was covered at this meeting should be presented to you as accurately as possible. I will try to transcribe for you the events as I heard them on the tape.

Sheldon opened the meeting mentioning the poor showing by the clubs. He said that some of the clubs are having a hard time operating and that it is sometimes difficult for clubs to have representation at these events. He went on to say that ANARC itself has been in a bit of disorganization in the recent past but that he is starting to see "light at the end of the tunnel, but there is some drastic measures that have to be taken." Sheldon continued talking about clubs and club publicity. Monitoring Times new Managing Editor, Rachel Baughn, has approached the clubs and is encouraging them to participate in a new MT feature column which will provide information about the clubs to the MT readership. This new column will begin

ANARC SWL Ham Net

Tune in Sunday mornings at 10 A. M. Eastern Time on 7240 LSB for the latest in shortwave listening, DX tips, and up to the minute hobby news. Contributors share their DX tips via their own amateur radio stations or by telephoning a "gateway" station who then broadcasts the relayed tips. Net Controls Bob Brown KW3F and Dave Kirby N8JQX host an always lively gang of DX monitors. (Best heard in the eastern half of NAM)

Our Motto is - "Unlty and Friendship"

in the December issue of MT. Sheldon said that efforts that he has tried to initiate within ANARC have resulted in very little response from the member clubs. He said that simple things like requests for sending sample copies of their bulletins to go out on ANARC tables at conventions like this are ignored. He said the response to the letter he sent to the clubs explaining ANARCs participation in the MT convention was "pitiful", and only the 5 clubs responded to his letter. The clubs didn't even have to send any people; ANARC had people that were willing to pass out the club material for them. Sheldon said that if the clubs don't participate because they don't like what ANARC is or isn't doing then they should at least speak up with some input. He went on with discussing the immediate problem of the ANARC constitution requiring a vote by the member clubs before anything

can be done. If the clubs don't respond, nothing happens. He said that the ANARC constitution must be put aside so that the clubs that do care can get something done without having to wait for those that don't respond. He said that what ANARC needs right now is a "slight dose of dictatorship", "a clean slate", and "start from square one with the organization." A lengthy discussion followed outlining Sheldon's recommendation that the primary thrust of ANARC should be publicity. He proposed that a letter go out to all the member clubs stating some new requirements for ANARC membership. One requirement would be that when a club gets a new member, that along with that person's first bulletin an ANARC club list be included so that he can become knowledgeable about ANARC and the other member clubs. Secondly, if the club is represented at any kind

Calendar Of Events

- Nov 2** - American Shortwave Listener's Club (ASWLC), 16182 Ballad Lane, Huntington Beach, CA. 92649-2204. 10 AM. Contact Stewart MacKenzie (714) 846-1685
- Nov 8** - Minnesota DX Club, Hennepin Co. Govt. Center, between 5th-6th St., 3rd-4th Av. S., Minneapolis. 7-10 PM. Downstairs through doors to right, room A. Contact George Sherman (612) 432-7975
- Nov 15** - Meeting of the Boston Area NASWA Chapter, GTE Labs, Waltham, Mass. Please contact Paul Graveline (508) 470-1971 for additional information.
- Nov 15** - Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- Nov 16** - Southern California Area DXers (SCADS), Huntington National Bank Community Room, 9025 East Artesia Blvd, Bellflower, CA 90706 Contact Don Schmidt (213) 424-4634
- Nov 19** - N.E. Ohio SWLs. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. Mike Fanderys (216) 661-2443
- Dec 2** - Minn DX Club banquet, Old Country Buffet, Co. B-2 & Fairview in Roseville, MN. 6:30 PM. Tentative, call (612) 432-7975 or write Box 3164, Burnsville, MN 55337
- Feb 15** - DXpedition, Camp Omega, 10 miles NW of Faribault, MN. Heat, restrooms, AC power, room for long antennas. Afternoon till morning. More info send SASE to MN DX Club, Box 3164, Burnsville, MN 55337
- Mar 13 - 15** 5th Annual Winter SWL Festival, Kulpsville, PA. Mark your calendar and stay tuned for more info!

Members are invited to submit items to be included in this calendar to Bob Brown.

of public event they should contact ANARC headquarters for ANARC literature for distribution at the event. Another requirement would be for the clubs to contact local dealers and ask them to have a stack of ANARC club lists on the counter for their customers. Sheldon said that the ANARC bank account has a balance of \$3,400. He suggested that some of the funds go to Kirk Baxter to help maintain the ANARC computer BBS. He said that some people have been spending money for ANARC promotion and have not been reimbursed. A budget needs to be put in place.

He went on to say that when the subject came up about disbanding ANARC, the majority of the clubs spoke up and said that they didn't want that to happen. Oddly enough, that was the last Sheldon heard from most of them. Frank Terranella, ANARC's legal counsel, said, "I think there is such apathy that extends to the constitution that any changes that are made to the constitution no one will object to. What you want to do is get together exactly the changes you want to make and send out a letter saying that these are the changes I want to make and unless I hear objections otherwise this is the new constitution." Another person at the meeting suggested that Sheldon give the clubs a certain

date to respond by and if they don't respond the changes will be instituted.

More discussions followed focusing on Sheldon's publicity proposal. Sheldon talked about how membership in ANARC could be very beneficial to small clubs who financially can't afford a lot of publicity. Someone at the meeting brought up a topic that was previously discussed that the Va. Beach ANARC meeting about opening up membership in ANARC not only to clubs but to receiver manufacturers, dealers, broadcasters, magazine publishers, and individuals. Sheldon said that he saw no benefit for those other than clubs to be ANARC members. Sheldon said that he went through the files passed on to him from the previous ANARC Executive Secretary and they contained applications from clubs that had applied for ANARC membership but because of the rigid constitution they could not. He says that he sees no reason why these clubs were told that they could not be part of the organization. He said that the more you broaden your base, the more you have to draw from in resources and talents. Some history about politics, club infighting, and jealousy was brought up. A NASWA member (who I can't identify from the tape) suggested that Bill Oliver, our publisher, be involved in the

Welcome to the following new NASWA members -

Kyle Burger, Morton, PA
Rodney Bishop, Philadelphia, PA
Theodore A. Born, Decatur, IL
Robert G. Bramscher, Kenosha, WI
Frank E. Brooks II, Fredericksburg, VA
Ronnie D. Bryan, Hawkinsville, GA
Phyllis R. Budka, Schenectady, NY
Ralph Richard Cook, Kennesaw, GA
John Findlater, Los Angeles, CA
Gary A. Galo, Potsdam, NY
Roy C. Gray, Richmond, KY
David R. Husted, Minneapolis, MN
Don Hutchins, Loves Park, IL
Thornton Jacobs, Rogers, AR
Dave Jacobsen N9DVS, Elgin, IL
Stephen W. Kent, Spring Hill, FL
Michael Matus, Aptos, CA
Harry B. Meyer, New Port Richey, FL

Muhammad Nunawar Naeem, Lahore,
PAKISTAN
Anthony Orr, Reston, VA
Lowell Pankake, St. Paul, MN
Donald E. Pritchett, Garden City, NY
Robert J. Quinn, Port Penn, DE
Stephen Reininger, Barrington, RI
Jeanne H. Ridley, Knoxville, TN
Ronald K. Rosset, Aquebogue, NY
Brett Saylor, State College, PA
Robert E. Snyder, Phoenix, AZ
Steve Stenbro, Jeffersonville, IN
R. W. Stewart, Memphis, TN
Edward Streeter, New York, NY
Randy Tomer, Eureka, CA
John Vodenick, Mason, OH
Charles L. Weeks, Johns Island, SC

For NASWA members unfamiliar with ANARC, here is a brief statement of direction as defined on the current ANARC Club List.

The Association of North American Radio Clubs (ANARC) was founded in 1964. The aims of the organization are as follows:

- a) Promotion of close ties and the interchange of information among North American Radio Clubs.
- b) Communications on behalf of North American radio clubs and the listening hobby with broadcasters, equipment manufacturers and dealers, the news media and the general public.
- c) Establishment of standard which may be adopted by and for individual clubs.
- d) Establishment of resources and support for large-scale hobby wide projects.

Membership in ANARC is open to radio clubs whose headquarters and principal places of business are located in North America or the Caribbean, with at least 50 members, which have been in operation for at least 12 consecutive months prior to application and publishing bulletins on a regular basis during that period.

ANARC presently has 15 full member clubs and one associate member club. ANARC strives to work for the common good of listeners in North America. All the clubs forming ANARC are responsible volunteer organizations. ANARC is operated by a 7 member Executive Council within the guidelines stipulated in the ANARC Constitution. Each member club appoints an official ANARC representative to complete the ANARC staff.

ANARC
79 Kipps St.
Greenfield Park, Quebec J4V 3B1
CANADA

workings of ANARC. Sheldon suggested that although Bill is very good, he is a "just do it" kind of person that doesn't want to be bothered with any of the politics, the bickering etc. and that Bill was content with publishing *The Journal*.

A question was raised about how the individual club membership numbers were in comparison to 3 or 4 years ago. Someone representing RCMA said "They're dropping", Sheldon interrupted and said "In some clubs" and the fellow from RCMA went on to discuss what they are doing to attract more members. Sheldon added that RCMA was one of the clubs who did not respond to any mail from ANARC.

At this point, *Monitoring Times* Managing Editor, Rachel Baughn, excused herself from the meeting. She said that it sounded odd to her that if ANARC's goal was to support clubs and local groups she wondered how a small local group was ever going to get big enough to gain ANARC membership under the current guidelines if they couldn't get the publicity from somewhere. She said that she thought that ANARC should be there to help a small club get started. She concluded by saying that she is looking forward to MT being able to assist clubs both large and small by allowing their readership to know that these club's exist.

Discussion followed about dues. Sheldon said that he sent out a letter soliciting input about this topic. The dues used to be assessed by a certain set amount for the first 100 members and a fraction of that for the next 100 and so on. The larger the club, the more dues they paid. Also, the larger the club, the more votes they had when ANARC business needed a vote. A club like NASWA would get more votes than a smaller club like ADXR. Sheldon's letter proposed restructuring the dues to a flat amount, as an example - \$40 a year, and each club would have an equal 1 vote. Three clubs responded, one said "Too high", another said "Too low", the other said "Just right". The other clubs didn't have a thing to say about it. Sheldon went on to say that if a club was interested in publicity, \$40 was a small price to pay to get the kind of publicity that ANARC could offer. Even a club of 20 people could benefit at \$2 per member. Sheldon wants every club to have an equal share in dues and level of publicity.

Next year the club that had 20 members might have 40 and now it drops to \$1 each. The next topic was ANARC leadership. Someone mentioned that it used to be that a position on the ANARC board was something that was more sought after than individual club leadership. Sheldon said that the word went out soliciting leadership help and no one responded except Sheldon and Dave Brown who basically said he'd do it if no one else would. Sheldon reiterated the problem of the ANARC constitution not allowing him to be the leader because he was a club president. This is another change that has been proposed. There is also only 2 people that were interested in being on the executive council. The meeting adjourned with a consensus of those present that Sheldon should send out the letter with his proposals and require a response by a certain date.

There you have it NASWA. Now it is time for you to speak out about the ANARC situation. I would like some feedback from our membership to help direct how you would like us to respond to ANARC. If you write and say that we should support ANARC then please consider that ANARC cannot continue unless it has support with manpower. Sheldon cannot do it on his own and that has been a major part of the problems with ANARC. If indeed there is interest we need other people in the hobby to step forward and volunteer to help in some capacity. There were some outspoken NASWA members in attendance at this meeting. Now is your chance to write in and state how you feel. The MUSINGS mailbox is open and waiting for your comments. As of this date (10/25/91) I have not received a letter from Sheldon. If you would like an ANARC club list and information sheet, please send me an SASE and I'll be glad to send you a copy.

Musings

Tom Luskowski, 1334 E. Miner St., South Bend, IN 46616

Why all the fuss over the celebration of NASWA's 25th Anniversary as an all SWBC club when it seems shameful to me that we're bypassing a more important anniversary; the 30th Anniversary of the founding of the club. NASA, as it was first known, was formed in November 1961. The switch to all SWBC came in August 1966. While it's certainly a milestone for any hobby club to reach 25 years of service as an all volunteer organization, we should not forget those who were responsible for founding this great club 30 years ago this month. Happy 30th Anniversary NASWA! 73

Harry L. Helms, 7445 Andasol Street, San Diego, CA 92126

In October Rich D'Angelo asked for musings from Drake R-8 owners. I've had one in use here for a couple of weeks. It is every bit as ergonomically grotesque as has been reported! It's really a pain in the nether regions to have to step through each bandwidth to return to the 4.0 kHz position from 2.3 kHz, for example, or to return to AM from USB or LSB. I also intensely dislike how switching from one VFO or the other in AM causes the tuning increment and frequency display to default to 1 kHz on both VFOs. Many of the operating controls and procedures are counter-intuitive; I still haven't figured out how to set the clocks yet! I get the feeling that the Drake engineering people never really thought of the needs and preferences of their intended customers when laying out the controls and writing the system control software. But this receiver is like a Lotus automobile; it may have a zillion shortcomings of assorted severity, but when it comes down to raw performance there's not much viable competition for it. In fact, I'll go out on a limb and say that I consider its overall performance in different modes under adverse reception conditions to be the best of any receiver I have owned in my 23 years of DXing — and that include such well known ones as the 11Q180A, FRG-7, SX190, and R71A models. The R71A I owned was fully modified, including the optional FL44A 2.4 kHz crystal filter, but the R8 just blows it away in terms of ultimate selectivity (particularly when using the passband tuning) and audio quality. I really enjoy having 6, 4, 2.3, 1.8, and 0.5 kHz bandwidths as standard

on the receiver. The notch filter initially frustrated me because it is very narrow and takes a surgeon's touch to use properly. Now that I've gotten the hang of it, I love it. The synchronous detector seemed to have no effect at all on some signals, but its results in other situations — including stations right at the noise level — can make the difference between an intelligible signal and no copy. (I also like the “automatic zero beat” you hear as the PLL tries to lock on the incoming carrier!) The audio quality ranks on par with the receiver I use mainly for listening (as opposed to DXing), a Drake SW4A modified with a Sherwood 5 kHz filter. The Drake R8 is the best performing solid state receiver for BCB DX I've ever used. I can get clear copy on frequencies adjacent to my 50 KW locals — such as 680, 700, 1120, and 1140 kHz — with no trouble; the R71A failed this test completely. I've tried it a couple of mornings with my BCB loop before dawn and have been rewarded with loggings of Osaka-828 and China-1035 despite ordinary conditions. However, I must admit that I'm concerned by the recent negative review by Dallas Lankford in the National Radio Club bulletin. Dallas is an experienced BCB DXer whose opinion I greatly respect, and he reported a variety of mechanical and electrical problems apparently due to poor quality control on his model. Drake, unfortunately, had similar problems with early models of the R7 and SPR4, and it looks like the pattern is continuing. However, I'm very happy with my R8 and plan to make it my primary receiver. I think on a DX you can hear versus price ratio it's the best receiver value around today. I'm sure the NRD535 is at least marginally better, but by the time you add the necessary bandwidth filters to the 535 you've doubled the cost of the R8. I think most SWLs would be better off to get the R8 and put the money saved into their antenna system or accessories such as audio filters. 73, Harry

Dr. Harold Cones, 2 Whlts Court, Newport News, VA 23606

The Musings column is a great idea! Informal chatting goes a long way toward promoting “unity and friendship” in NASWA, as well as allowing members a chance to find others with like interests. For instance, from Jerry Berg's musing, I discovered that Jerry and I have the same interest—shortwave nostalgia (and now my wife knows that there are other long suffering wives out there). At one time I was involved with the Great Circle Shortwave Society, a group dedicated to keeping alive the memories of SWLing in the 50s and 60s. While recently going through a box that held all my old Great Circle bulletins, I came across a pile of NASWA Friendxs (or is it Friendces?) from the mid 70s to the present. It was interesting to read of events 15 years ago. I guess what surprised me most was the difference in the number of members that contributed to the bulletin then and the number that do now—one Friendx from 1976 had 14 pages of low band loggings and must have had over a hundred contributors. Just to touch off a discussion in the Musings column, let me ask this question: Why aren't there more contributors in the shortwave hobby now then there were in the mid-70s? I would guess that there are more people in the hobby now, so there ought to be more contributors. Something to think about, I guess.

NOTICE

Alex Graham called to tell us that the Mid-South Area SW Hobbyists (MASH) will meet in Memphis, TN on November 19, 1991. The time and place will be determined later. For more information, call Alex at home (901) 388-9688 or work (901) 274-2813.

FOR SALE: ICOM IC-R71A. Purchased new in 1990 and in excellent condition. Price \$750. Tom Laskowski, 1334 East Minor St, South Bend, IN 46617. Phone (219) 234-8598 from 2300 to 0100. Please ask for Tom.

WANTED: Name, address, and phone number of a good tube-model receiver doctor in the southeast United States. My R390's need a check-up and possible minor surgery. Thanks, Gerry Bishop, 126 Dyer St, Niceville, FL 32578. Phone (904) 729-1164

FOR SALE: Near mint HQ-180 with manual, \$325. Must sell to finance trip to Ecuador. MPJ All Band Shortwave Converter (for car radio) with noise silencer, \$60.00. Back issues of FRIENDX 1983-1990, \$12.00 a year. Several Atwater Kent radios, antique tubes, test gear, etc. Send SASE for list. Will trade any of the above for cash and good small digital portable and high quality recorder. Postage on items is extra. Fritz Mellberg, 1505 Central, Hawarden, IA 51023. Phone (712) 552-2458 any evening except Monday and Wednesday.

Easy Listening

Richard D. Cuff
213 Parkview Avenue
Allentown, PA 18104-5323
GENIE R.CUFF
MCI Mail 375-4854
CompuServe 71207,1604
Prodigy NCHT70A

Radio Japan

In the September *Journal*, I mentioned that I'd received background information on Radio Japan from Ian McFarland. I now have some space in the column to share some of Ian's material.

Beginnings

Radio Japan's first broadcast was on June 1, 1935 - a one-hour Japanese/English broadcast to the west coast of North America. After interruption during the American occupation of Japan after World War II, Japan reinstated shortwave broadcasting in 1952 under the Radio Japan moniker.

Radio Japan Today: Facilities

Nippon Hoso Kyokai, or NHK, Japan's only public broadcasting organization, and the producer of Radio Japan, employs 14,000 worldwide. About 200 work for Radio Japan itself on a full-time basis. This number pales in comparison to the Voice of America's 2,500 and the BBC's 3,500 employees. Radio Japan attributes this difference in part to its highly automated facilities; also, other NHK employees not part of the 200 person complement contribute to Radio Japan programs and services. The actual share of NHK expenses earmarked for overseas broadcasting is 1.7 percent - a slightly larger ratio than suggested by the headcount.

Some 80,000 letters from 160 countries are received by Radio Japan each year. Sixty percent of those letters come from Asia, particularly India, Bangladesh, and Japan.

Radio Japan's main transmitter site is in Yamata, in Ibaraki Prefecture, about 60 km (37 miles) north of Tokyo. After a major renovation project completed in 1988, the Yamata station has four 300 kW and four 100 kW transmitters, feeding 17 antenna arrays - 13 curtain antennas and 4 log periodic antennas. Another three 300-kW transmitters will be added by January 1993; three new curtain antennas directed to the Asian

continent and Southeast Asia will be part of this upgrade. The transmitter plant is actually owned and operated by KDD, the large Japanese international telecommunications company.

Radio Japan's coverage in Eastern North America is greatly enhanced through relay facilities. Four hours of Radio Japan programming is beamed to the USA via Radio Canada International's transmitters; seven and one-half hours are beamed to Central and South America daily via Radio France International's transmitters in Montiserny, French Guiana.

Radio Japan broadcasts in 22 languages daily with a total of 48 programming hours. English programs air 13 hours per day; Japanese programs air 12.5 hours.

Radio Japan Today: Programming

Radio Japan's main goal is to expand mutual understanding between Japan and other countries. Its programs are designed to provide rich information about Japan and the other Asian nations, their traditions and modern progress. Japanese language lessons, music, and a DX program are also featured.

English programming alternates with Japanese programming in the General Service, with English programming airing during odd hours. Overall, roughly 68 percent of Radio Japan's programming is on news and current affairs; 27 percent is feature programming. The remaining five percent: music and entertainment.

The 1100 UTC English broadcast beamed to North America by RCI has a new (for 1991) 30-minute news/talk program called *News Round* on weekdays; Ian McFarland cohosts *News Round* on Thursdays and Fridays (as of his late July letter). From :30 to :50 is heard *Radio Japan Magazine*, with a different feature each day. Commentary and a news summary round out the hour.

The other English broadcast relayed by

RCI can be heard at 0300 when Standard Time is in effect in North America, or 0100 when Daylight Time is in force. A 15-minute news report is followed by a 35-minute edition of Radio Japan Magazine Hour. Commentary and either a news summary or Tokyo Pop In end the hour.

A third easily heard Radio Japan English language broadcast is the 30-minute regional English service at 0300 via French Guiana. This broadcast does not change time with Standard/Daylight time shifts.

Saturdays on Radio Japan feature **This Week**, a less-structured program of news and features than during the weekday broadcasts. The Sunday broadcasts feature **Hello from Tokyo**.

Ian McFarland is currently an English Specialist in News Division I. This section of Radio Japan's operation is responsible for Japanese and English language news and current affairs programming. The News Division I takes its material from traditional wire services such as Reuters, Associated Press, and Agence France Presse, along with Kyodo and Jiji, two Japanese wire services. For English language programs, the stories are edited in English and reviewed by an English-speaking news editor to make sure translation imperfections or errors are corrected.

Much of the English language news and current affairs reporting is aired live or taped directly by the reporter, as many Radio Japan reporters are bilingual. News Division II, which produces programming for Radio Japan's twenty other language services, must rely more on programs translated and read in the studio, as live interviewees in these other languages are hard to come by.

Impressions

Since there's just a little bit of DXer in me, I occasionally overlook Radio Japan's broadcasts since they're relays via RCI. That is certainly my loss, since I always find Radio Japan programming to be keenly interesting. Radio Japan probably intersperses a larger share of economics and business news into its programming than most international broadcasters. Often times I get a far different "spin" on Japanese-American business affairs from Radio Japan than I hear on USA-based broadcasters. Much of Radio

Japan's programming represents the unique cultural heritage and philosophy of the Japanese people, and I find this to be especially interesting.

Radio Japan welcomes reception reports and program comments and suggestions. Radio Japan's mailing address: Radio Japan/NHK, Jinnan, Shibuya-ku, Tokyo 150-01, Japan.

Once again, many thanks to Ian McFarland for providing the material used here. From the tone of Ian's letter, I'm sure he'd enjoy hearing from his many friends here in North America. You can contact Ian at the Radio Japan address shown above, adding "News & Program Production Center, Division 1" to the address given in the previous paragraph.

Radio Netherlands

Several changes have been made to Radio Netherlands' program schedule. Days shown below refer to the 0030 and 0330 broadcasts only.

The UTC Wednesdays arts program is now called **Mirror Images**, with David Swatling, Dheera Sujan, and Martha Hawley joining Nevil Gray on the program.

The UTC Thursday broadcast is currently **Sitar to Salsa**, looking at "non-Western" music styles heard in Holland. As of late November, this time slot will be taken by a series of documentaries on Eastern Europe. A special Christmas documentary is then followed in January by a twelve-part series called **In So Many Words**, examining the language cultures of the European Community on the eve of EC integration.

UTC Fridays see the return of **Sounds Interesting**, profiling Holland sights and sounds, plus responding to listener questions.

UTC Saturdays see a variety of regional programs. For the North American releases, **Van Gogh's Ear** looks at Dutch counterculture and entertainment.

March 1992 will see a new Newsletter with much more programming detail than in the current semi-annual schedule. Those who received the Fall 1991 schedule will receive the newsletter automatically. If you didn't receive your own copy of the schedule, write Radio Netherlands and request their **Mailing List Form**. The Fall '91 hints at significant program and timing changes for 1992 and beyond. Radio Netherlands' address: PO Box 222, 1200 JG Hilversum, The Netherlands

November Coming Attractions - BBC World Service

The aftermath of the Persian Gulf war continues as fodder for the BBC's news analysis efforts.

After the War Was Over, highlighted last month, continues on Wednesdays at 0130, 0930, and 1715 until November 20th.

Updating the UN Charter is a two-part series assessing the interest in revising the UN charter given the new empowerment the United Nations enjoyed during the Persian Gulf crisis. Saturdays, November 2nd and 9th, 1901; repeated the following Mondays at 0101 and 1515.

Lines in the Sand investigates how relations between Middle Eastern peoples have changed after the war. This is a single 45-minute program, airing Saturday, November 16th at 1901, repeated the following Monday at 0101 and 1515.

The attention focused on the Middle East and Eastern Europe often give short shrift to Latin American affairs. **The Amazon Watershed** is a three-part series exploring the four-party conflict between the Brazilian Army, the Yanomani Indians, peasant farmers, and ranchers. One-half hour programs air on Fridays beginning November 15th at 0730, repeated at 1215 and 1930.

Murder, they wrote: A new six-part series, **Murder Most Foul**, dramatizes real-life murder accounts from the past. Thursdays beginning November 14th at 1130 and 1715, repeated Fridays at 0230. Don't listen in the dark.....

Back from the Missing

Two shortwave services have recently been regular easy catches after years of poor propagation or interference. RAE, the Argentinean shortwave service, can now be heard at 0200 UTC on 11710 kHz. That frequency has been occupied in the recent past at that time by Radio Moscow's North American Service. RAE uses the unique term "microprograms" to describe the various features within each broadcast. A recent Wednesday featured RAE's DX program. Their DX program appeared largely to be an Argentinean SWL club report on Latin American local shortwave stations. RAE's

announcers realize their service is much smaller than most English language operations; they have a touch of irreverence I find refreshing.

Also audible many afternoons is **All India Radio**, 2045 UTC at 11620 kHz. AIR emanates from the world's largest democracy, but AIR's perspective is less "Western" than most European shortwave services. AIR features a generous serving of native Indian music; a press review and news report are also part of the broadcast.

Feedback

Several months ago I asked members to share their favorite BBC programs. Interestingly, two program types stood out: quiz shows and music programs. For quiz shows, **Brain of Britain** was the favorite. While Brain of Britain is currently off the air, a travel and geography-based panel show, **Where in the World?**, currently airs Mondays at 1715, repeated Tuesdays at 0030 and Wednesdays at 0830.

As for music programs, NASWA members mentioned the **John Peel** show, which features newly released contemporary music. Saturdays 1401, repeated Tuesdays 0330 and Thursdays 0830. **Multitrack 1, 2, and 3**, three different programs on contemporary music, also were mentioned. **Multitrack 1**, Mondays at 1830, with repeats Mondays at 2330 and Tuesdays 1215, looks at the British Top 20. **Multitrack 2**, Wednesdays and Thursdays as above, features new records, interviews, and competitions. **Multitrack 3**, Fridays and Saturdays as above, looks specifically at British music.

What have YOU been listening to recently? Anything particularly interesting? Anything particularly boring? Drop me a note on electronic mail or via the US Mail.

See you next month - 73 DE Richard

Latin Destinations

Don Moore
20108 Hayes Road
Big Rapids, MI 49307



Hola amigos! Welcome to the November Latin Destinations. The DX season is here and I've been very pleased with some of the Latin loggings I've made so far. From what I see in log columns and hear on DX programs, a lot of you must be pleased, too!

Whoops, Again!

To begin this column, I have two mistakes to correct from the August one. First, some of you may have wondered about the name of that Paraguayan power plant. Let me assure you that the British pound sign is NOT a letter in Spanish! At least I can blame this mistake on computers. I type my column with PC-Write and then send the disk to Bob Brown who imports the file into Pagemaker for typesetting. Apparently the two programs aren't 100% compatible, as Pagemaker took PC-Write's accented u and turned it into a British pound sign. The only computer I can blame the second error on is my own cerebral one. The correct name of Jeff White's new station in Honduras is Radio Copan International, not Radio Maya. The Mayans were the Indians who built the Copan ruins in Honduras.

A Look At Names

One of the most confusing things in Spanish-American culture is personal names. Names simply aren't as straight forward as up here in gringo-land. Understanding how Spanish names work is very important for DXers when it comes to writing reception reports to veri-signers. If you get somebody's name wrong, they might choose not to answer your report! So, this month we're going to take an in-depth look at personal names in Spanish. For examples, I have taken veri-signers names from recent QSL columns in *The Journal*.

Traditionally, Spanish names consist of a first name followed by the father's surname and then the mother's surname - in that order. There lies the key difficulty in Spanish names;

the last name isn't the last name (i.e. main surname). Examples of this are Carlos Toledo Verdugo of Radio Nacional de Chile and Norberto Plaza Vargas of Colombia's Ondas del Ortegua. Carlos' father was a Toledo and his mother was a Verdugo. Carlos could be addressed as either Señor Toledo or as Señor Toledo Verdugo, but never as Señor Verdugo. The latter is just plain wrong.

Of course, traditions change and many Spanish-Americans consider two surnames to be a bit long for everyday use. Some people shorten their names by reducing the maternal surname to an initial, such as Ecuadorians Luis A. Gamboa T. of Radio Centro and Holgar Velastegui R. of Radio Zaracay. Others totally drop the maternal surname, such as Guillermo Pulido of Colombian La Voz de Rio Arauca and Ramiro Cubrero of Ecuadorian La Voz del Napo. Although many people initialize or delete their maternal surname in everyday life, it

In the QSL reports, don't be surprised if you see different versions of the same name for different QSLs.

remains part of their legal name at all times. In the QSL reports, don't be surprised if you see different versions of the same name for different QSLs. Not everyone is consistent; some will use the maternal surname one time, reduce it to an initial the next, and then drop it altogether another time.

In the above example, note that Luis Gamboa uses his middle initial of A. Spanish Americans also have middle names but, like us, rarely use either the names or initials. When they use their middle names, it can cause a bit of confusion. For example, there's Juan Fidel Leppe, the veri-signer at La Voz de Nahuala in Guatemala. Because we know

that Fidel is a Spanish Christian name, not a surname, we can surmise that Leppe is his paternal surname and that he doesn't use his maternal one. But, there are occasional exceptions. The president of Venezuela is Carlos Andres Perez. Andres is the Spanish version of Andrew, however in CAP's case Andres is his paternal surname, the Spanish version of Andrews.

Women's names are, of course, a bit different. Single women's names follow the same pattern as mens - first name and then the two surnames, with the maternal one often being reduced or eliminated. At marriage, however, a woman will add "de" (of) and her husband's paternal surname to her own name, for example Yolanda Plazas de Lozada of Ondas del Meta in Colombia. Yolanda's paternal surname is Plazas and her husband's paternal surname is Lozada. Like Yolanda, most women drop their own maternal surname at marriage if they haven't already done so. This is occasionally confused by certain last names that include "de" in them already, similar to the German "von". An example here is Mexican President Carlos Salinas de Gotari; de Gotari is his maternal surname & obviously not his husband's name! Occasionally married women's names will include the abbreviation Vda., as in Matilde Castro Vda. de Cevallos of Emisoras Gran Colombia in Ecuador. Vda. is the abbreviation for viuda, or widow. Matilde's late husband was a Cevallos.

More On Names

This dual surname custom may seem a bit crazy to many gringos, but it does have its advantages. In my view, the greatest advantage is a modern one - telephone books. Have you ever looked up a name in a telephone book, only to find there are twenty-seven James Mills listed? There's no problem if you're looking up Juan Garcia Moreno in Cuenca, Ecuador. There may be fifty Juan Garcias listed, but there probably isn't another Juan Garcia Moreno. And, let's not forget feminism. Latin America may be "behind the times" in many ways from a feminist viewpoint, but what feminist could argue with giving legal status to both a child's paternal and maternal surnames?

Finally, I have been very careful to refer to Spanish-American names, not Latin American names. In Portuguese-speaking

Brazil, the pattern is reversed - first name plus maternal surname plus paternal surname. So, in Brazil, the last name is the last name!

Events In Haiti

In the August column, I pointed out that Castro's Cuba was the only non-elected government left in this hemisphere. Unfortunately, the day of the coup is not completely gone, as evidenced by the recent military takeover in Haiti. I found it rather curious that as a reason for their actions, the junta said that democracy had failed in Haiti. Haiti is, of course, one of the poorest and saddest countries in the world. However, the few brief months that Haiti's first elected government held power hardly seem enough time to fail when compared to the nearly two centuries of dictatorship that brought the country to the state it is in today. The Haitian coup was brought home to us at Ferris State by the several Haitian students studying here with USAID scholarships. Some of them had family members and friends who worked for the former Aristides government. The junta has suspended all communications out of the country, and the students have no idea if their family and friends are safe. Let's hope that the situation in Haiti improves soon.

Good Works

Finally, I've just received the new 36 page catalog from Pueblo to People; 2105 Silber Road, Suite 101; Houston, TX, 77055. A non-profit organization, PTP helps organize Latin American peasant cooperatives and buys their products (mainly handicrafts & food) at a fair price for resale in North America. When I was a Peace Corps volunteer in Honduras, I saw PTP put hard cash into the hands of many poor hard-working peasant families. PTP's products are good quality & would make excellent Christmas presents. Send them \$1 for their catalog. Be sure to try the dried cashew fruit - it's great! I've also just received the new catalog from the South American Explorers Club, PO Box 18327, Denver, CO 80218. They sell a great selection of books and maps and a few handicrafts. A dollar will bring you their catalog, too. Time to go! Hasta luego & 73,

Don

Listener's Library

John Bryant, AIA
Route 5, Box 14
Stillwater, OK 74704
Compuserve 74730,2145



Hello and welcome back to the Listener's Library. I'm very sorry that I was overly confident in the speed of the US Mail last month. My October column reached the crew in Pennsylvania on Monday rather than the required Saturday. A big apology to all concerned. The DX season is finally here and it sure is great for the Old Librarian to rejoin the company of regular listeners to RRI Dili (3306.0) RRI Mataram (3222.9) and the other domestic outlets from the exotic East. So far with the very changeable solar conditions, the season has been an "up & down" affair. For those times when the DX is down, the November Library has a wide choice of new material to whet your appetite.

NEW FROM MOONBEAM MANOR

When we did a review of most of the activities of Moonbeam Press last spring, I teased Moonbeam honchos Havana Moon and (NASWA) Christine Paustian by saying that they were supporting the hobby through every media except direct broadcast satellite...well, the NASWA Listener's Library received a Moonbeam's press release and I've had a chance to catch the first two installments of...

SIGNALS!

The advent of a new radio show designed for "our kind of folks" is great news for all of us. It is also so unusual that I'd like to quote most of the press release:

"Crescent Moon Radio Productions, a subsidiary of MoonBeam Press and The Radio Collection is pleased to announce SIGNALS, a radio program featuring radio-related communications media of all kinds.

SIGNALS, hosted by writers and radio personalities Christopher King and Kristin Kaye, will bring the die-hard Radio Junkie weekly news and features on Pirates, Utilities, AM Broadcasting, Scanning, Satellites and much, much, more in a lively, professionally produced, fun and interesting show.

SIGNALS will air on shortwave via the transmitter facilities of WWCR, Nashville on the nighttime frequency of 7435 kHz at 11:35 pm Eastern Time on Saturday nights beginning Saturday, October 5, 1991, immediately following Glenn Hauser's WORLD OF RADIO.

SIGNALS crackles with a sparkling, fast-paced format, stuffed full of the things radio hobbyists would die for - from Kristin Kaye's widely followed Pirate & Ute Report which currently airs on Big Steve Cole's CROSSBAND RNI, to The M Street Update from Robert Unmacht, Editor of the prestigious M Street Journal - and everything else you can think of in between! From reports, updates and special features to humor and old time radio, SIGNALS brings that old time wonderful world of radio back to the airwaves, with the pizzazz and personality of the medium the way it used to be, fully updated with timely and essential information for the hobbyist of the 90s!"

I have particularly enjoyed the rather broadly gaited content of SIGNALS! In the first several shows, I've learned a great deal about areas of the listening hobbies (satellite radio listening, fer instance) that I'd never know of before. With the loss of Ian McFarland's show on Radio Canada, it is great to learn that we are also gaining a show which speaks directly to our interests. Tune in SIGNALS THIS SATURDAY evening!

FOR THE NON-ROCKET SCIENTIST

A few months ago I mentioned the C. Crane Company of Fortuna, California as a radio mail order house with a difference. The Library just received a copy of their most recent catalogue and it's a real winner! Bob Crane and the folks at C. Crane take a very different approach to direct marketing of radio products. The first difference is that they generally carry only two basic lines of each item - the "best made" and "the best for the money". Secondly, they provide personal, human support for every product they sell...if you have trouble understanding how to operate some widget that you bought from them, they almost insist that you call their 800 number. Thirdly, and best of all:

THEY OFFER A 30 DAY SATISFACTION GUARANTEE ON ALL PRODUCTS!

This guarantee is directly from the Crane Company itself and is in addition to the normal manufacturer's warrantee. They carry a hand-picked (you would hand-pick'em, too, if you were giving a 30 day guarantee!) selection of AM and FM radios as well as world band radios, antennas and accessories.

Our reason for including C. Crane Company in the column this month is that Bob Crane has spent a good bit of time experimenting with and evaluating simple antennas and has just published a pamphlet titled *Shortwave Antennas for the Non-Rocket Scientists*. This is an extremely informative pamphlet which covers several do-it-yourself wire antennas and compares them to manufactured wire and active antennas sold by Crane. The pamphlet is only \$3.00. I'd suggest giving C. Crane and Company a call at 1-800-522-TUNE (-8863) and ask for a catalogue (\$1.00) and for *Antennas for Non-Rocket Scientists*. If you live in Canada, the number is 1-800-521-TUNE.

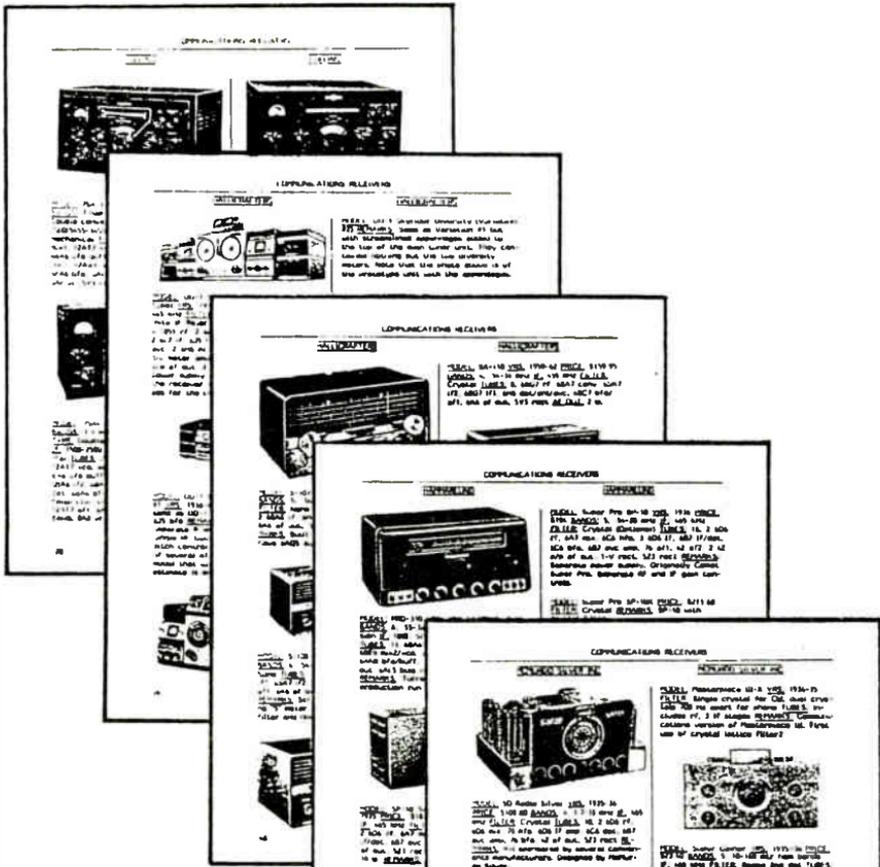
TUBED TO THE MAX!!!

I promised you that we would do a review of NASWAN Ray Moore's all-new edition of *Communications Receivers, The Vacuum Tube Era: 1932-1981*. Ray's printer was a little slower than predicted, and the almost-all-new -second-edition of the book reached the market about the first of October. Boy, it was darn sure worth waiting for

As with the first edition, this book is 8 1/2" X 11" format on coated stock and perfect bound with a glossy cardstock cover. This new edition is a totally new layout with many revisions and additions since the first printing. It features over 700 hollow-state receivers from 51 companies and contains 330 (!!!) photos. I'll reproduce a reduction of several pages of the book at the bottom of this page.

Communications Receivers, Second Edition is and always will be the definitive reference for tube technology shortwave receivers. If you are interested in the history of shortwave broadcasting and of the DX hobbies or if you even suspect that you might someday like to own one or more tube receivers, BUY THIS BOOK! Since it is self-published by Ray and RSM, *Communications Receivers* will probably only be in print for a limited period. Ray says that there will not be a 3rd Edition. That makes sense to me, for this one is virtually a complete historical record.

Here are a few sample pages:



TUBE FEEDBACK.KCABDEEF EBUT

I have received five or six times more feedback related to the two columns on tube radio gear than on any columns since we started Listener's Library almost two years ago. Obviously, they struck a sympathetic nerve in many readers.

Several people wrote asking where they might find in-depth reviews of various tube receivers. There are brief - one page or so - reviews of many of the very best of the tube receivers available as reprints from the NASWA Company Store. I'd suggest writing for the whole Reprint Catalog.

There are also a quite a few receiver reviews that can be found in the bound volumes of the amateur magazines. David Clark noticed a new advertisement for a complete bibliography of all gear reviews in *QST*, *CQ*, 73 between 1945 and 1988. It also includes reviews appearing in the British *RADCOM* magazine from 1979-88. The bibliography, arranged alphabetically by manufacturer (from A&A Engineering to Zycomm) and then by model, shows the publication, the issue date and page of a great number of fine reviews. The bibliography, titled "PRODUCT REVIEWS" is copyrighted by Didah Pubs and is available for \$12 plus \$2.50. Order no. 3347 from ARRL, 225 Main Street, Newington, CT 06111

I CAN'T HELP IT!

When the Editor-in-Chief and I founded this column, we agreed that it would be an 'enrichment' column and that we would not feature 'books that everyone buys.' Well, that is our general policy, but I can't help it...NASWA's Larry Magne's 1992 *Passport to Worldband Radio* has just been published and it is super! Every year since Larry and long-time DXer Tony Jones first published *Passport*, it has gotten better. This year, the *Passport* troops have outdone themselves.

In the front, the 92 *Passport* reviews the "Ten of the Best: Top Shows for 1992 (8 to 10 pages)" and has a super Harry Helms article "Getting Started with World Band Radio." Those articles are followed by an excellent piece on "1992's Winners: 20+ Big Signals" reviewing the programming of the top 20 SWBC stations. There is also an excellent five page review of the best atlases for reference use by SWL's. My favorite section, and probably yours, is Larry's "1992 Buyer's Guide to Worldband Radio." This 55-page section is chock full of Larry's reviews of 41 portable and 12 table top receivers. The centerpiece of the section are thankfully long reviews of Drake's new R-8 and the new

NRD-535. The last two pages of the section are an index to all of the radios reviewed in *Passport* 1985-92. The final major section of *Passport* is now called "WORLD SCAN" and is broken into three subsections: "Hour-by-Hour," "Country-by-Country," and "Channel-by-Channel". The Hour-by-Hour lists the best programming and the most reliable frequencies for many of the English language SWBC broadcasts around the world. Very handy. Country-by-Country is more or less a cross reference accessing most broadcasters quickly through country listings. A very welcome new addition to *Passport* is the extensive list of station addresses and potential verification signers published in the Country-by-Country section. (Thank you, Larry!)

The back 40 percent of *Passport* is the justly famous Channel-by-Channel listings. These 'Blue Pages' give a surprisingly accurate picture of SWBC spectrum occupancy throughout the planet in time-related bar chart form.

Passport is available now for \$16.95 from virtually all hobby outlets in North America and from many "normal" bookstores. If you pass up *Passport*, you are missing a real treat!

OLD PROCEEDINGS NEVER DIE

As you have probably noticed, *fine tuning's Proceedings 1991* is also just fresh from the publisher. It is another 300 pages of all new in-depth information photo-reduced to 200 pages. Since I am involved in the production of *Proceedings*, I'll leave any review comments to others less biased. However, for those of you who have not yet purchased any of the *Proceedings* issues, FT's Special Publications has also republished each of the first three years issues. We hope to be able to keep all three ('88, '89, and '90) in print for at least a short while. We have prepared a special large flyer which details the contents of all four issues by article subject and length. If you would like to look over the whole group before investing, just send Special Publications a SASE in care of me at the masthead address and we'll fire you back a copy of the flyer by return mail. I might also add that FT's entire operation, most especially Special Publications, is run as a non-profit organization dedicated to the service of the radio hobbies.

COME SEE US, YA HEAH?

Read a good book lately? Heard a neat CD of huanayos?? A great article about one of our target countries? Drop the Library a note and share your find with the rest of us!

Listener's Classroom

Dr. Charles A. Wootten
6113 River Road
Matoaca, VA 23803-8048
Compuserve 76476,1556



Let's continue where we left off last month in our discussion about verifications.

2. Reception Data/Program Details

Make your report as specific as possible. You should include the names of announcers. If you can catch the name of a futbol announcer, you can take home the prize! Identify the language(s) used, the program title, any advertisements, word-for-word identifications, and so forth. This will help the reader of your report to check his logs easily, and, we hope, speed your verification to you. The vast majority of radio stations keep detailed logs of all daily transmissions.

If the program that you heard was transcribed, or pre-recorded, be sure to make mention of this. You should also be aware that logs of all musical selections in many stations may be nonexistent. Consequently, you should consider using other approaches when writing your program details. Data on announcers names, program titles, identifications quoted word for word (here a tape recorder will come in handy) are more significant.

3. Details of Reception. Here we return to our one pervading idea: that of assisting the station to know how their programs are being received. In this category, two aspects of the reception are included.

First, tell the station what was thought of the programs they broadcast. Enjoyable? Mediocre? Boring? Did they hold your interest? Be frank and honest with your comments. The station will appreciate them (pro or con) as it will help them to improve their programming.

The second aspect is technical information on the quality of reception and the transmission in general. This is important as the station would like to know if its signals are getting through.

In this category, include brief summations on the following points:

A. Strength: Strength of the signal. This may be often determined best by an S-meter on your receiver. (See Reporting Code in

paragraph H.) If your receiver is not equipped with an S-meter, it is best to give a strength indication by comparing received signals to those heard on previous days. You could use signals from other transmitters in the same geographical area as the station to which you are tuned. This will enable the broadcaster to know how he is "getting through" as compared to previous days or other broadcasters.

B. Interference: Interference from other stations (QRM) is very common on the broadcasting bands. You may have already noticed this situation on the medium-wave and amateur bands as well. If there is interference from other stations, be sure to give the name of the interfering station(s) in your report. If the frequency is different than the one you are tuned to, be sure to mention this. State how serious you found the interference and how badly it interfered with the program. This information can be a great asset to the station.

C. Atmospheric Interference: (QRN) - This "scourge of the DXer" can ruin many rare DX catches. Mention if static was abnormally high during reception, whether there was a local electrical storm, if you live next door to a neon-sign factory, and so on. Remember that static levels (particularly on the lower bands) increase greatly during the summer months.

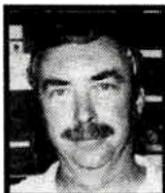
This beginner's series on completing a reception report will continue in the next issue. I appreciate the cards and letters that are in my mailbox. Although I do not have time to reply to everyone, I do value your suggestions and comments.

73 and good DXing!

NASWA Portraits

Jerry Klinck

43 Lein Road
West Seneca, NY 14224



Welcome to another Portraits, in which we visit fellow NASWA members and find out all about their history and, some personal info as well. If you haven't already, why not take a few minutes and jot down a short profile of yourself and your hobby history? You can use past Portraits, as an example, and please, if at all possible, enclose a photo. Thanks! Now off we go to the home of the Louisville Red Birds and Keith Cushing. . .

"Yes, I'm only 18. I'm one of the few teenage SWLs in a world of older and wiser hobbyists, a kitten in a world of cats. Why do I keep listening? Because there's almost nothing I enjoy more. Ever since I first comprehended the concept of long-distance radio reception, I've been hooked. I have discovered a little magic box called a radio, and you'd have a difficult time convincing me that there are no sorcerers inside. Of the many hobbies I've tried, SWL is the one I keep coming back to."

"The memory of SWL that I have is the Toshiba radio my parents bought in Germany. It had been there ever since I could remember, but as I got older, I noticed that it had three bands instead of two. Eventually, I discovered that this third band was for receiving stations from thousands of miles away. I was amazed that I hadn't heard about this before and felt that I was privy to some magical knowledge."

"Well, that feeling of wonderment evaporated and I soon forgot about SWL until I saw an ad for a Realistic SW-60. (At least I'm patriotic.) Suddenly the old memory was conjured and I asked my parents to get me one for Christmas. No luck that year, but the next year I got it. It wasn't exactly a Kenwood R-5000, but it gave me my first real exposure to the world of SWL. Soon I was buying Pop Comm and WRTH every time they were published."

"I kept noticing a radio in these publications and on the DX shows. I investigated this radio and eventually vowed to purchase one. As one needs money to buy a radio, I started my own lawn cutting service, cutting about ten yards a week and making lots of money. I wasn't

motivated by concern for living expenses but rather a desire to realize my material aim. After about two months of cutting, I received the holy grail of shortwave radios: the Sony ICF-2010 (OK, so I'm not 100% patriotic). I was in electromagnetic heaven after I figured out how to use the thing."

"Ever since that milestone purchase, my interest in the hobby has greatly expanded. Granted, there have been long periods in which I haven't SWLed, but I always come back. (I have a short attention span). For a while, I QSLED in earnest and now have a modest collection of cards. My favorite QSLs come from the pirate broadcasters; I'm intrigued by the mystery and rebelliousness. I have also added an AEA CP-100 computer patch for RTTY monitoring and an outdoor long wire antenna for superior reception. (The neighbors probably wonder about my activities)(They usually do - ed.) The only problem I've had with the hobby is the incredible number of choices. What should I listen to? Utilities, International Broadcasters, Hams? I need about six lives to listen to everything I want (and to earn enough money to buy everything I want)."

"At this point, I plan on making radio a big part of my future. This summer, I hope to get a job working in a local radio station where I can gain some experience and satisfy my insatiable curiosity. In the fall I am going away to college and my Sony will be coming with me. While there, I hope to 'promote the hobby' and start some sort of SWL organization. Who knows, our newsletter may rival NASWAs someday (friendly competition, of course). My big dream for the future is to become a station manager on a small Pacific island. Hey, I figure anything is possible with my whole life ahead of me. If there are any other teenage DXers out there who feel lonely, please write me. And if there are any station managers reading this, please hire me. My address is: Keith Cushing, 4114 Elmwood Ave., Louisville, KY 40207."

Thanks for the entertaining profile, Keith. Due to the chronological order of Portraits, some of the future-tense have become past-tense.

Till next time . . . 73 and great DX!!

Feature Article

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

A REVIEW OF FINE TUNING'S PROCEEDINGS 1991

By
RICHARD A. D'ANGELO

Fasten your seat belt. It's time to test drive this year's edition of Fine Tunings super charged hobby resource publication - PROCEEDINGS 1991. This year's PROCEEDINGS volume is more like a finely tuned sports car than a stuffy technical journal. Its sleek styling allows for some fancy handling. This year's model incorporates the latest in desktop publishing, laser printed type, and professional graphics and photos. Gone is the old comb bindings as a newer, stronger, more streamlined and professional looking binding makes this edition of PROCEEDINGS handle like a dream. Easy to handle; easy to read; easy to store - that's PROCEEDINGS 1991! Amazingly, all this comes in a package that costs less than an annual membership in any of the major hobby clubs and considerably less than a new sports car.

Last year I infiltrated the Fine Tuning organization to get an inside look at the editorial process. As I mentioned in last year's review, writing for PROCEEDINGS is not a casual affair. This year I was able to sneak onto the Editorial Review Board for another perspective on how the PROCEEDINGS editorial process works. The rigorous editorial review used by the Special Publications arm of Fine Tuning is quite impressive. All manuscripts go to David Clark for distribution to the Editorial Review Board members assigned to a feature. He selects six members of the Editorial Review Board and two staff members to review each article. Some members of the panel are selected for their expertise in an area; others are selected to represent the average reader. This group is responsible for maintaining the standard of excellence we have come to expect from PROCEEDINGS. I had an opportunity to review and comment on six features. The experience was quite interesting and enjoyable. I certainly hope I was able to add something to the process. Other members of the 1991 Editorial Review Board are Guy Atkins, Kevin Atkins, John Bryant, David Clark, Harold Cones, Gerry Dexter, Dan Ferguson, Werner Funkenhauser, Nick Hall-Patch, Don Jensen, Fritz Mellberg, Don Moman, Don Moore, Bruce Portzer, Chuck Rippel, Mitch Sams and Harold Sellers.

The Editorial Review Board makes a significant contribution to each feature article. Fritz "The Chopper" Mellberg provides the big red pencil, while other members of the panel provide technical expertise which helps round out articles with additional insights. As the DX hobby version of George Plimpton, sneaking in and out of various hobby assignments allows me to view a project from many angles. After watching the Fine Tuning Special Publications group start this process from scratch, I can say that this group has captured the hearts and minds of serious spectrum monitors with heavy hitting features on all aspects of the hobby. Without a doubt, Fine Tuning's PROCEEDINGS series continues to be the technical reference work for the shortwave hobbyist. This valuable resource 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 (34 pages)

PROCEEDINGS continues to present serious, in-depth propagation issues that hobby bulletins can't begin to touch. "Additional Notes On Tropical Band Propagation" by David Clark and John Bryant follows last years 60 page monster. While "only" 24 pages, this feature updates and expands many of the important ideas developed in their 1990 article. The results of a year long study of the "Sweet Spot" are presented with the authors suggesting that the true test of the existence of a Sweet Spot of enhanced tropical band reception will be whether it will become a tool commonly used by tropical band DXers. The authors are careful to note that additional work needs to be done. However, it is clear that many of the traditional propagation theories do not explain the findings by two of North Americas premier researchers. Rounding out this section is Bill Tippett's "Long Path and Skewed Path Propagation On The Lower Shortwave Frequencies." The author is a radio amateur that learned of PROCEEDINGS through a review in the June 1990 issue of QST. He is a dedicated low band DXer and his insights into this complex

subject are extremely interesting.

ANTENNAS (12 pages)

There is only one antenna article in this year's edition, but it is a beauty. Bob Eldridge writes about beverage antennas in his article entitled "The Wave ('Beverage') Antenna Design And Operation." The author describes the beverage antenna and how it works. If you have an interest in beverage antennas, this article is a must. He explores, in depth, the subject of directivity of various antenna patterns. Ultimately the author concludes, the true advantage of a beverage antenna is the improved signal to noise ratio over most other antennas.

RECEIVERS (39 pages)

Receiver articles have always played a major role in PROCEEDINGS. This year features another banner crop of receiver related articles. Six articles provide PROCEEDINGS readers with an interesting variety of information. Staff member Guy Atkins discusses modifications and upgrades to the JRC NRD-525. Bruce Portzer looks at the famous Racal RA-17 communications receiver while David Clark provides an appraisal of the Icom IC-R71A receiver. For shortwave listening on the go, Terry Palmersheim and John Grimley provide a look at the Philips DC-777 which has brought, for the first time, acceptable shortwave listening into the car in North America. John Bryant provides a look at the fully automated McKay-Dymek DR-333 receiver which could truly revolutionize how we tune the spectrum. Finally, George Zeller looks at the Icom R-9000. This superb receiver has everything imaginable along with a US\$4,500.00 price tag. Zeller brings his usual wit and insights into his first PROCEEDINGS effort.

PERIPHERAL EQUIPMENT (15 pages)

Toys and gadgets always fascinate the hobbyist. This year's section features a discussion of the JPS NIR-10 noise and interference reduction unit by Guy Atkins; a DXer's look at the Dymek FG-11 Fog Cutter by John Bryant; and a review of the Universal M-1000 by utility ace Chuck Yarbrough.

FEATURES (83 pages)

This is the section where the non technical types turn first - that's me! Six big features round out this year's number. First up is Kevin Atkins with a fascinating geopolitical perspective on the shortwave broadcasting scene in Bolivia. Jim Renfrew provides an interesting perspective about International Medium Wave DXing from the East Coast of North America. Harold Cones interviews Hank Bennett, a man many of today's senior hobbyists have to thank for improving their knowledge of shortwave radio. "Shortwave Radio As A Teaching Tool" is the subject of Chuck Yarbrough's feature which concludes that shortwave as a teaching tool is under used as an educational resource. Mitch Sams documents the activities of the last decade in his "Shortwave Broadcasting In The 1980's - A Hobby Perspective." This look back reflects on the many events that occurred during the 1980's through the eyes of one of North America's top DXers. Finally, the FT Staff has put together a comprehensive list of shortwave broadcast transmitter site locations which can be utilized with various PC software programs. This section alone is worth the price of admission.

Is PROCEEDINGS Worth The Price?

I've ended my review of the current volume of PROCEEDINGS each year with the same question. This year's answer is no different than prior years - Definitely, Yes! The scope and breadth of the subject matter, the rigorous editorial process and the dedication put into this project make PROCEEDINGS a "must have" publication.

PROCEEDINGS 1991 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.

Because the demand for back issues of the PROCEEDINGS series has been relentless, the Fine Tuning Special Publications crew has decided keep all editions in print at least through 1992. The first three volumes, 1988-1989-1990, are available for the same price as the 1991 edition. If you are new to the hobby, or missed the first three editions, now is a good time to act.

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

the page

COMMITTEE TO PRESERVE RADIO VERIFICATIONS

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

30th April 1938

Dear Sirs,

We thank you for your bunch of members' reports. These tally with our programmes. We do not issue regular QSL cards, but trust that this acknowledgement will suffice. We will, of course, send any of your members our regular illustrated programmes who may desire them, and in the meantime are placing your name on our mailing list to receive same.

Thanking you for your interest and trusting that some at least of your members will become frequent listeners, we are,

Yours faithfully,
for the Belgrade Short-wave Station,

Dispost.
St. Malovich.

This month to a place that has been in the news lately: Yugoslavia, where the broadcasting scene continues to retain some mystery, even in these days of 250 kw. transmitters. +++ The top card was sent to well known DXer Ray LaRocque in his capacity as representative of the Quixote Radio Club, a well known club back in those days. Their attempt to batch some reports was apparently unsuccessful. If they weren't issuing QSLs at the time, they started to soon thereafter, as the middle card for January 1 and 28, 1939 reception shows. The frequency was 6100 kHz. (sound familiar?) It was only 1 kw. at that time, however. At the bottom is a letter of later vintage: 1950. Note the political message at the bottom: "Death to Fascism -- Liberty to the People." +++ Until next time -- *B*

THE BELGRADE SHORT WAVE RADIO STATION
BELGRADE, YUGOSLAVIA

YUJA

We thank you for your report and the attention of our Station on January 2nd and 8th, 1938. We are glad to hear the pleasure of hearing again from you.

Yours faithfully
[Signature]



RADIO BEOGRAD

Br. *JK*

8. III. 1950 god

BEOGRAD

Kr. Edward F. Bellington, Jr.,
754 Bergen St.,
Brooklyn 16, New York, U.S.A.

Dear sir,

Your reception report of this station from Nov. 14th to Dec. 2nd, 1949 is acknowledged with thanks. We are pleased to note your keen interest in our news broadcasts and cordially appreciate your suggestions. Enclosed please find a program schedule of our short wave station as per your request.

DEATH TO FASCISM - LIBERTY TO THE PEOPLE.

Yours very truly,
Secretary, Radio Belgrade
[Signature]



A Committee of the Association of North American Radio Clubs

Listener's Notebook

Dan Ferguson
P.O. Box 2604
Dale City, VA 22193
CompuServe 76702,771

COPYRIGHT NOTICE - Items credited to WBI (World Broadcasting Information) are copyright by the BBC Monitoring Service and may not be reproduced without BBCMS permission.

All times, dates, and days of the week are GMT (UTC), dates are MM/DD or MM/DD/YY.

Sources: DXPL--DX Party Line, HCJB; KMH--Ken MacHarg, DXPL; QLB--Quito Log Book, DXPL; RMV--Rich McVicar, presenter, DXPL. RJDXC--Radio Japan DX Corner. RKSF--Radio Korea Shortwave Feedback. RNMN - Radio Nederland Media Network; JM--Jonathan Marks, presenter, RNMN; VG--Victor Goonetilleke, RNMN. RNZI--Radio New Zealand International; AC--Arthur Cushen, DXPL, RNMN or RNZI. SCDX--Sweden Calling DXers. Above sources monitored by Mike Fern unless otherwise noted.

AFGHANISTAN - *R. Afghanistan Home Service First Program* is on the air from 0130- 1930; on SW as follows: 4740, 4975 and 7200 Khz. throughout; 0430-0730 on 17655 and 21600; 1030-1230 on 9635, 17655 and 21600 in Pashai, Nurestani, and Turkmen; 1230-1630 on 9635 and 15255, Uzbek until 1430, then First Program. (Victor Goonetilleke, Jul-Aug UADX Bulletin, via Bruce MacGibbon on RJDXC 9/22 via Mike Fern)

ALBANIA - *Radio Tirana* dropped four languages, PP, Czech/Slovak, Hungarian and Polish, on 10/16. Other languages have had their schedules cut, but EE seems to be untouched, with six programs a day. (Richard Measham of BBCM on RNMN 10/17) **English** sked announced to Europe at 1830 on 7120, 9480; at 2230 on 9725, 7115. To NA at 0230 & 0330 on 9760, 11825. To Africa at 1630 on 9730, 11825. (WBI 10/18)

AUSTRALIA - *Radio Australia* sked: **English** 25750 0900-1100; 21775 0100-0900; 21740 0000-0730, 2130-2400; 21720 1100-1430; 21525 0100-0800; 17795 2130-0700; 17750 0000-0400, 0600-0700, 0800-0900; 17630 0000-0400, 0400-0500 Sa/Su, 0500-0900; 15365 0000-0700, 2200-2400; 15320 0000-0730, 2100-2400; 15240 0000-0930; 15170 0400-0500 (Sa/Su), 0500-0600, 0900-1200; 15160 2130-0700, 0800-1100; 13755 1430-2100; 13705 2100-2300; 13605 2200-0100, 0900-1000, 1100-1200, 1600-2130; 12000 1430-2100; 11930 0000-0800, 1100-1300, 2000-2400; 11910 1600-2030; 11880 0000-0800, 2100-2400; 11800 0830-1100; 11720 1130-1530; 9860 1430-2100; 9770 1430-1530; 9710 1100-1530; 9580 0830-1230, 1300-2100; 7240 1100-2100; 7140 0900-1000, 1100-1200; 6080 1100-1130, 1200-2100; 6060 1600-2130; 5995 1130-2100.

Other languages: **English** (to southwest Pacific) at 0800-0930 on 6080, 7240, 9710, 11930. **Cantonese** 1300-1430 on 7140 & 13605 (from 1400). **Chinese** 0400-0500 (Mo-Fr) on 15170, 17630; 1000-1100 on 7140, 13605, 15170; 1200-1300 on 7140, 13605, 15170; 1300-1400 on 13605, 15170; 2200-2400 on 13605, 15170. **French** 0700-0800 on 15160, 15365, 17750, 17795. **Indonesian** 0900-1300 on 13705, 15530; 2100-0100 on 7205 (to 2300), 9505 (to 2300), 11910 (fm 2300), 15330 (fm 2200). **Thai** 2300-2400 on 13705, 15380. **Vietnamese** 1300-1400 on 7150, 9770, 13705. **Tok Pisin** (ex Pidgin) at 0930-1100 on 6080, 7240, 9710, 11930. (WBI 10/18)

BELGIUM - *Belgian Radio & TV* (BRT) sked is: **English** 0030-0055 to NA on 13655, 13710; 0730-0755 to Eu/Au on 5910, 11695, 13675; 1000-1025 Mo-Sa to Eu/Af on 9855, 13675, 21815; 1230-1255 Su to Am on 21810; 1400-1425 to Eu/As/Am on 21815; 1900-1925 to Eu/Af on 5910, 9905, 15515 (not We/Sa); 2200-2225 to Eu/Af on 5910, 9905, 15515.

Dutch 0500-0600 to Eu/Af on 9855, 11985; 0600-0655 to Eu/Af on 5910, 15515; 0700-0725 to Eu/Au on 5912, 11695, 13675; 0830-0925 (Mo-Sa) Eu 5910, 11695, 13675; 0900-1225 Su to Eu/Af on 9855, 13675, 21815; 1100-1155 Mo-Sa to Eu/Af on 13675, 21815; 1200-1225 Mo-Sa to Eu/Af on 9855, 13675, 21815; 1300-1325 Su to Eu/As/Am on 21810; 1300-1355 Mo-Sa to Eu/As/Am on 21810; 1330-1755 Su to Eu/Af on 9855, 13675, 21815; 1500-1725 to Eu/Af on 9905, 21815; 1800-1825 to Eu/Af on 5910, 9905, 17550; 1900-2100 We/Sa to Afr on 15515; 2000-2100 Su to Eu on 5910, 9905; 2000-2055 Mo-Fr to Eu/Af on 5910, 9905, 15515 (not We/Sa); 2100-2125 to Eu/Af on 5910, 9905, 15515; 2300-2355 to Am on 13655, 13710.

French 0800-0825 to Eu/Am on 5910, 11695, 13675; 1030-1055 Eu/Af 9855, 13675, 21815; 1430-1455 Mo-Sa to Eu/As/Am on 21810; 1930-1955 Eu/Af on 5910, 9905, 15515(not We/Sa); 2030-2055 Su to Eu on 5910, 9905; 2230-2255 to Am on 13655, 13710.

Other languages: **Arabic** 1730-1755 Eu/Af 9905, 13675(Su), 21815. **German** 0830-0855 Su to Eu/Af on 9855, 13675, 21815; 0930-0955 Mo-Sa to Eu on 5910, 11695, 13675; 1130-1155 Mo-Sa to Eu on 9855; 1830-1855 Eu/Af 5910, 9905, 17550. **Spanish** 0000-0025 to Am on 13655, 13710; 1230-1255 Mo-Sa to Eu/Af on 9855, 13675, 21815; 2130-2155 to Eu/Af on 5910, 9905, 15515. (WBI 10/18)

RTBF relays it's domestic *Radio 1* program in French at 0500-0700 (Mo-Fr) and 0700-0730 on 17680; at 1200-1230 on 9925 & 21460; at 1700-1815 on 15540, 21460 kHz. (WBI 10/18)

BOLIVIA - R. Panamericana, La Paz, 6105, heard in the Philippines from 0935-1002 with fair signals. (Manfred Lepp on RJDXC 9/22) [WRTH 91 says 1000-0400 --mf]

BRAZIL - Brazil went to winter time October 20, earlier than in recent years. (df)

R. Super Roraima, Boa Vista, 590 and 4785 kHz., has been accused of playing an unsavory role in the Brazilian gold miners' conflict with the Yanomami Indians.

R. Roraima was once part of Radio Bras (the national network). It is now owned by the government of Roraima state, near the Venezuela-Guyana border. The SW outlet serves the whole state, including parts which the 10 kw MW xmtr cannot reach. (Jeff White on RNMN 9/30 via Mike Fern) [WRTH 91 says R. Super Roraima, 0900-0300 --mf]

R. Nacional Amazon, Brasilia, 6180.0, hrd fair 0920 10/8 // 11780 kHz. WRTH 91 had it on 6183.225. Early am PP talk show. After 0930, under Taiwan CBS2. (Mike Fern--CA)

BULGARIA - Radio Sofia S91 sked: **English** 0400-0615 to Eu/Af on 11720, 15100, 15160; 1830-2000 to Eu/Af on 9700, 11720, 11765, 15330, 17780, 17825; 2045-2130 to Eu/Af on 11765, 17780, 17825; 2245-0100 to Eu/NA on 9700, 11660, 15110, 15310, 15370, 17825.

Bulgarian at 0200-0300 to Am on 15370, 17825; 0400-0500 to Eu/ME/Af on 6085, 7120, 9700, 11750, 11765; 1300-1600 to Eu/ME on 9700, 11700, 11860, 15330, 17780; 1900-1945 to Eu on 6160; 2000-2030 to ME on 9595, 11870.

Other languages: 0100-0145 FF to Am on 9700, 11660; 0100-0200 SS to LA on 15110, 15310, 15370, 17825; 0500-0600 Su Gk on 6085, 7120, 9700, 11750; 0500-0600 Tk 6085, 7120, 9700, 11750; 0500-0600 SS to Eu 11700, 11765; 0600-0730 Su Tk 6085, 7120, 9700, 11700, 11750; 0600-0630 Gk Mo-Sa 6085, 7120, 9700, 11700, 11750; 0630-0700 Mo-Sa Serbo-Croatian 6085, 7120, 9700, 11700, 11750; 0630-0715 GG & 0715-0800 FF, both on 11720, 15160, 17825. 0730-0855 Su Serbo-Croatian 6085, 7120, 9700, 11700, 11750; 0900-1025 Su Greek 9700, 11700, 11720, 11750, 11860; 1000-1025 Mo-Sa Greek 9700, 11720, 11860, 15290; 1030-1130 Turkish 11720, 15290, 15330, 15385, 17780, 17825; 1130-1255 AA to ME 11720, 15330, 15385, 17780, 17825; 1530-1700 Turkish 9595, 11720, 11870; 1600-1645 Serbo-Croatian 6085, 6160, 11860, 17770; 1645-1730 Albanian 6160; 1700-1830 AA to ME 9595, 11860, 11870; 1700-1745 GG 11720, 15330, 17780; 1700-1745 PP to Eu/Af 11765, 17825; 1730-1815 Greek 6160; 1745-1830 FF to Eu/Af 11765, 17780, 17825; 1745-1830 Italian 11720, 15330; 1815-1900 Serbo-Croatian 6160; 1830-2000 Turkish 9595, 11870; 1945-2030 Albanian 6160; 2000-2045 FF to Eu/Af 11765, 17780, 17825; 2015-2100 GG 9700, 11720, 15330; 2030-2130 AA to ME 9595, 11870; 2030-2115 Greek 6085, 6160; 2100-2145 Italian 9700, 11720, 15330; 2115-2155 Serbo-Croatian 6085; 2130-2230 SS to Eu 17780, 17825; 2200-2245 Italian 7155, 9700; 2200-2245 PP to Eu/Af/Brz 11660, 11685, 15310, 15370. (WBI 9/27)

BURMA - Radio Burma has a sequence of 30 minute programs in local languages on 4725 kHz at 0930-1330. (WBI 9/27)

CHAD - R. Moundou, 5286.4 kHz, heard from 1805-1831 signoff in FF with ID and anthem. (Finn Krone, Play-DX, on DXPL 9/21 via Mike Fern)

CHINA - China went off Summer Time on 9/16.

Foshun People's BC Stn began China's first 24H bcst svc in September. Foshun PBS began in 1988 on 94.6 MHz FM. It serves the booming Pearl River (Zhu Jiang; not identified in my atlas--mf) delta near Canton, which has a large population of night-shift workers. Most programs are in Cantonese, with some national news and features in Mandarin. Music programs resemble Hong Kong DJ shows. (New China News Agency and Tooru Yamashita--on holiday in Macau--on RJDXC 10/6 via Mike Fern) [The Cantonese for FM is, you guessed it, FM.--mf]

CHRISTMAS ISLAND (Indian Ocean) - Arrangements were completed at the last minute by Gordon Darling for a special broadcast as part of the 1991 Nordic DX Test. The MW outlet, VLU2 on 1422 kHz, was relayed between 0200-0300 Sun 10/6 UTC by a 100-watt xmtr on 11765 kHz SSB. Andy Sennitt said on RNMN 10/10 that no reports of reception had yet been received

(by the contest organizers or RNMN). Reports with two IRC's should be sent to: DX Listeners' Club, P.O. Box 1969, Vika, N-0125 Oslo, Norway. (Mike Bird on RNMN 10/3 and Andy Sennitt on RNMN 10/10 via Mike Fern) As of 10/16 still no rpts of reception. The fcy & time, & pwr of only 150 watts, were against them. We hope that at least some in Asia received it. We are still waiting. (Ben Erfort, Nordic DX contest committee, and JM on RNMN 10/17)

COLOMBIA - *Rdif Nacional de Colombia* signoff with anthem at 0451 on 11822v and 17865v on 9/19. (Bruce MacGibbon on RJDXC 9/22 via Mike Fern)
Colombia

La Voz del Norte, Cucuta, was to reopen on 4875 kHz. in September. (Imber Gavia, Colombia, in Play-DX on DXPL 9/21) [WRTH 91 gives no MW sked--mf]

La Voz de los Centauros, Villavicencio, 5955 kHz, heard with fair signals at 1045 10/8; no ID, but repeated mentions of "desde Bogota" during long talk or commercial. Strong co-channel interference. (Mike Fern--CA)

DENMARK - *Radio Denmark* sked (all via Radio Norway Int'l transmitters; all programs 25 minutes; all in Danish): 0030 9640, 9645, 11850, 11925; 0130 & 0230 9605, 9615; 0330 7165, 9645, 9650, 11865; 0430 7165, 96550, 11865; 0530 7245, 9645, 9650, 11850; 0630 5980, 15175; 0730 9590, 11735, 17765; 0830 17740, 25730; 0930 21735, 25730; 1030 15165, 21590; 1130 17780, 25730; 1230 15360, 17780, 21695, 25730; 1330 9590, 17780, 21710, 25730; 1430 17790, 21705, 21710; 1530 11870, 21730, 25730; 1630 15230, 15360, 21730; 1730 9655, 15220, 17760, 21730; 1830 11875, 15220, 17760; 1930 9590, 15220, 17730; 2030 9590, 17730; 2130 9590, 15165; 2230 11850, 15195; 2330 9645, 11925. (WBI 10/4)

ECUADOR - *HCJB's Musical Mailbag* had live phone-in programs on 9/28 from 0700-0830 for Eu, 0730-0900 for the South Pacific, and 0030-0230 Sun to NA. (Bruce MacGibbon quoting World of Radio on RJDXC 9/22 via Mike Fern)

HCJB, Quito, heard with RR and JJ for Asia on 11845 kHz on 9/20; RR 1100-1130, JJ 1130-1200. (Mike Fern--CA)

La Voz de los Caras, Bahía de Caraquez, 4795 kHz, at 0153 with love songs, ID, drug store spot. Very good signals. (RMV/QLB/DXPL 10/13) [WRTH 91 says 2300-0300; PWBR 92 says 1300-0230 --mf]

ESTONIA *Radio Estonia* broadcast what was described as "the very first edition of the DX programme of Radio Estonia" in English at 2130 10/7 on 1035, 5925 & 9560 kHz. (WBI 10/11, which followed with extracts from the program, all relating to MW or FM stations in Estonia.)

Radio Estonia sked: 0800-0900 Su Finnish; 0900-0930 Su Swedish (includes Esperanto 0820-0830); 1000-1100 Sa Finnish; 1030-1100 Mo-Fr Finnish; 1600-1630 Mo-Fr Finnish; 1600-1700 (Sa) Finnish; 2100-2130 Mo-Sa Swedish (includes Esperanto 2020-2030 Th); 2130-2200 Mo English (DX program 1st Monday); 2130-2200 Tu-Fr Estonian. All to Europe, all on 1035 & 5925 kHz.

ETHIOPIA - The three pro-EPRDF radio stations that have continued to operate since EPRDF took power in Addis Ababa 5/28/91 all announce now that they broadcast from Addis Ababa. The schedules are: *Voice of the Ethiopian People for Peace, Democracy and Freedom* on 6940 kHz at 0330-0430, 1345-1445 (Su) (unconfirmed), and 1500-1600, all in Amharic. *Voice of the Broad Oromo Masses* on 6940 at 0430-0530 & 1600-1700, both IN Oromo. *Voice of the Tigray Revolution* on 7820 at 0430-0530, 1345-1445 (Sa) (unconfirmed), and 1500-1600, all in Tigrigna. (WBI 10/11)

GEORGIA - *Georgian Radio* was heard from 1900-1959 with EE on 12015 kHz. Reception was fair. The transmission was described as a test. The same 30-min pgm was repeated three times. (Masao Kato on RJDXC 9/22 via Mike Fern)

GERMANY - *Deutsche Welle* began using relay xmtrs in the USSR to serve South Asia and the Far East on 9/3. The latest [post-9/29?] schedules are as follows: English from 0200-0250 on 17620 kHz; Pashto from 0300-0350 on 17620 kHz; Dari from 0800-0850 on 17620 kHz; German from 1000-1400 on 11730 kHz; JJ from 1100-1150 on 15560 kHz; Urdu from 1400-1515 on 9875 kHz; Hindi from 1515-1600 on 9875 kHz; English from 1600-1650 on 9875 kHz; GG from 2200-0000 on *9885* kHz.

Nomura says 15560 comes from Irkutsk, which Moscow uses to East Asia on a regular basis, and signals were very good in early September. (Toshishiko Nomura and Shigenori Aoki on RJDXC 10/13 via Mike Fern)

HAITI - changed from summer to winter time the last Sunday of October. (df)

A NASWA Exclusive!

English Language Shortwave Broadcast Schedules

Compiled by

Thomas R. Sundstrom
TRS Consultants
P.O. Box 2275
Vincentown, NJ 08088-2275, USA

609-859-2447 | Fax: 609-859-3226

Pinelands RBBS: 609-859-1910

MCI Mail: 244-6376

GENie: T.SUNDSTROM

CompuServe: via MCI Mail gateway

InterNet: 2446376@mcimail.com

The *Journal* of the North American Shortwave Association

November 1991

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.

English Schedules

Tom Sundstrom

P.O. Box 2275
Vincentown, NJ 08088-2275
MCI Mail 244-6376
Fax 609-859-3226
Pinelands RBBS 609-859-1910



Prepared 10/25/91 at 12:13 AM.

Thanks to **Gordon Darling** (Papua New Guinea), **John Carson** (OK), **Kris Field** (PA), **Jonathan Marks** (R Netherlands), **Michael Pollard** (New Zealand Radio DX League), **Andy Sennitt** (WRTH), **Thomas Schaff** (WYFR) and **Munro Vorster** (R RSA).

Notes

Albania: At 0230 and 0330 to NA, R Tirana has returned to 9760 from 9580. On the east coast 11825 is a poor alternative at these times. The 1830 and 2230 UT European releases, shifted for standard time, should be easy to hear in eNA.

Ecuador: A weekly telephone call-in program will begin UTC Tuesday November 5 at 0130 (Monday, the 4th, at 8:30 p.m. EST) on the usual HCJB frequencies. Hosted by Ken MacHarg, "Open Line" will cover a variety of current events, social and theological topics. The number to call is 011-593-2-241-560 (outside the USA the international access code 011 may be different).

Germany: At 01, 03 and 05 UT to NA, **Deutsche Welle** has changed some of the frequencies from those

listed in the latest *Tune-In* and posted on some of the electronic mail systems. The implementation of the agreement to lease USSR transmitters is behind the changes here.

Iran: A NA service from R Tehran has been established, commencing at 0030 UT. I find 9022 is the best here.

New Zealand: Michael Pollard, SW editor of the NZRDXL, faxes a note that Radio for the Print Disabled, Levin, has been assigned a second SW frequency of 7290 (callsign 2XRU). Some tests are now being made using 30 watts. It will be in operation as soon as a transmitter is available, in parallel with 1602 and 3935 kHz. Reports may be sent to PO Box 360, Levin. Return postage is requested.

In closing, some faxes were difficult to read. Notably the tiny type within the WYFR schedule did not print well and there may be some typos in some frequencies. Let me know of any corrections you find.

Don't forget the 1992 *World Radio TV Handbook* will be available in early January. Those who hunt USSR transmitter sites will find a new, expanded, list that may be the most accurate one ever published.

English Language SWBC Schedules

Do you have an IBM PC-compatible computer? You don't like to cut and paste the schedules appearing each month in the Journal? You don't care to wait a month for the new frequencies? Our award-winning software is available with a telephone BBS subscription to the datafiles. The datafiles are routinely updated as changes are noted. The software also loads the VFO and memories of the JRC NRD-535, NRD-525, JST-135, Kenwood R-5000, TS-440S, TS-940S, and TS-950S. For information, send a business-size SASE or download the software catalog from the Pinelands RBBS.

All Records Included

ENGLISH LANGUAGE SW BROADCAST SCHEDULES: By Start Time

Compiled by Thomas R. Sundstrom, W2XG

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	0100	Australia	R Australia	21740	17795	17750	17715	17630	15320	15240	15160	As/Pac/PapNG		08/29/91
0000	2400	Canada	CFCX	6005								Canada	relay CFCF-600	01/28/91
0000	2400	Canada	CFRX	6070								Canada	relay CFRB-1010	01/28/91
0000	0130	Canada	R Canada Int'l/USA	9755	5960							USA	Sa&Su -0200	10/24/91
0000	0100	China	R Beijing	11715	9770							WNA/eNA	#1&2 v Mali	09/01/91
0000	0300	Costa Rica	R for Peace Int'l	21465	15030	7375						LA/NA	#1&3 USB	10/07/91
0000	0200	Cuba	R Havana	11950								Americas		05/20/91
0000	0027	Czechoslovakia	R Prague Int'l	11990	11685	7345						NA		05/06/91
0000	0030	Lithuania	R Vilnius	17690	17605	15180	11790					NA		09/21/91
0000	2400	Luxembourg	R Luxembourg	15350								Eu		04/08/91
0000	0200	Mariana Is	KHBI	17865	17555							Phil/Indon/PapNG	340/270 deg #1 Sa-Su	12/22/90
0000	0050	North Korea	R Pyongyang	15115	13760	11335						Am		12/02/90
0000	0030	Norway	R Norway Int'l	9645								NA/CA	Su & Mo only	09/22/91
0000	0230	Philippines	FEBC	15450								seAs/India		10/15/91
0000	0100	South Korea	R Korea	15575								Am		03/15/90
0000	0100	Spain	R Exterior de Espana	9630								NA		07/07/91
0000	0100	USA	VDA/Am	15205	15120	11695	11580	9775	9455	7405	6130	Caribbean/Americas	alt pgm #1,3,4,5,9	08/30/91
0000	0100	USA	VDA/E As	17820	17735	15290	15185	11760	9770	7120		eAs/seAs/Pac		09/29/90
0000	0200	USA	WCSN	9850								WAF	90 deg	08/13/88
0000	0800	USA	WHRI/2	7315								NA	42 deg	09/22/91
0000	0200	USA	WSHB/1	13760								SA	167 deg	09/22/91
0000	0200	USA	WSHB/2	7395								e&cNA/Car	25/173 deg	09/22/91
0000	0100	USA	WYFR	5985								NA	Network M-Sa	03/26/91
0000	0100	USSR	R Moscow	15355	11750	9720						World Service		09/11/91
0030	0055	Belgium	BRT	13710	13655							NA/SA		09/21/91
0030	0430	Ecuador	HCJB	21455	15155	9745						NA	#1 SSB	08/18/91
0030	0130	Iran	R Tehran	15260	9765	9022						NA		10/17/91
0030	0125	Netherlands	R Netherlands	11835	6165	6020						eNA	#1&2 v Bonaire	09/21/91
0040	0055	Venezuela	R Nacional de Venezuela	9540								SA	news/Eng Tu-Su	06/06/91

0100	0330	Australia	R Australia	21775	21740	17795	17750	17715	17630	15320	15240	As/Pac/PapNG		08/29/91
0100	0200	Canada	R Canada Int'l/LA	13720	11940	11845	9755	9535				LA	Su-Mo	10/24/91
0100	0130	Czechoslovakia	R Prague Int'l	11685	7345	5930						NA		05/06/91
0100	0150	Germany	R Deutsche Welle	11865	9770	9640	9610	9565	9515	6145	6085	NA		10/25/91
0100	0120	Italy	RAI	11800	9575							NA		03/19/88
0100	0200	Japan	R Japan	17845	17835	17810	15195	11840				GOS/Asifa/ME	#5 Sri Lanka	10/24/91
0100	0130	Norway	R Norway Int'l	9605								NA/CA	Su & Mo only	09/22/91
0100	0200	Spain	R Exterior de Espana	9630								NA		07/07/91
0100	0130	Sweden	R Sweden	11705	9795	9695						NA/As/Pac		09/24/91
0100	1500	USA	KTBH	7510								eNA		03/17/91
0100	0200	USA	VOA/Am	15205	15120	11580	9775	9455	7405	6130	5995	Caribbean/Americas		08/30/91
0100	0200	USA	VOA/E As	21550	17740	15250	15160	11705	7205	7115		eAs/seAs/Pac		03/29/91
0100	0300	USA	VOA/S As	21550	17740	15250	15160	11705	7205	7115		sAs		03/29/91
0100	0700	USA	WOCR/1	7435										10/25/91
0100	0300	USA	WYFR	15440	9505	6065						NA	#2&3 Network M-Sa	10/25/91
0100	0200	USSR	R Kiev	17690	17665	15180	12005	11790	11675			NA		09/28/91
0100	0200	USSR	R Moscow	17890	15355	11750	9720	9600	9530			World Service	#4&5 v Cuba	09/11/91
0100	0130	USSR	R Tashkent	11975	9740	7335	7325					unknown		05/27/91
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	04/05/90
0145	0200	Vatican State	Vatican Radio	9650	7125							As/AusNZ		09/22/91
0200	0300	Argentina	RAE	11710								Americas	Tu-Sa	04/07/91
0200	0300	Canada	R Canada Int'l/LA	13720	11940	11845	9755	9535				LA	Tu-Sa	10/24/91
0200	0400	Cuba	R Havana	15140	11950							Americas		05/20/91
0200	0330	Egypt	R Cairo	9675	9475							NA		07/20/86
0200	0230	England	BBC	9915	9590	7325	6175	6110	5975			WS: NA/CA/Carib		09/26/91
0200	0250	Germany	R Deutsche Welle	11945	9690	9615	7285	6035				sAs		09/22/91
0200	0300	Guam	KSDA	13720								As	Sa-Su 300 deg	03/19/90
0200	0400	N Mariana Is	KNBI	17865	17555							Phil/Indon/PapNG	340/270 deg Sa-Su	12/22/90
0200	0230	Norway	R Norway Int'l	9605								NA	Su & Mo only	09/22/91
0200	0255	Romania	R Romania Int'l	11940	11830	9570	9510	6155	5990			NA		11/08/90
0200	0230	Sweden	R Sweden	11705	9695							NA/LA		09/24/91
0200	0230	Switzerland	Swiss R Int'l	17730	12035	9885	9650	6135				NA	#1 v Brazil	10/01/91
0200	0300	Taiwan	V of Free China	15345	11860	11740	9765	9680	5950			NA/Jap/As/CA/AusNZ	#3,5,6 v WYFR	07/07/90
0200	0230	USA	VOA/Am	15205	15120	11580	9775	7405	5995			Caribbean/Americas	Tu-Sa	08/30/91
0200	0400	USA	WCSN	9350								eAf	75 deg	09/22/91
0200	0400	USA	WSHB/1	13760								SA	167 deg	09/22/91
0200	0400	USA	WSHB/2	9455								w&cNA/Mex	315/245 deg	09/22/91
0200	1200	USA	WOCR/2	7520									may move to 7490	10/25/91

0200	0300	USSR	R Moscow	17890	17840	15425	12025	11750	11730	9720	9685	World Service	#7&9 v Cuba	09/11/91
0230	0300	Albania	R Tirana	11825	9760							NA		10/25/91
0230	0300	England	BBC	9915	7325	6175	6110	5975				WS: NA/CA/Carib		09/26/91
0230	0250	Finland	R Finland	11755	9560							NA	Sa -0245	10/17/91
0230	0245	Pakistan	R Pakistan	21730	17725	17640	15115	9545				s&seAs	Slow-speed news	04/07/91
0230	0330	Philippines	R Philipinas	21580	17840	17760						eAs		08/27/91
0230	0300	Portugal	R Portugal	11840	9705	9600	9555					SA/NA	Tue-Sat	03/20/91
0230	1400	USA	KCBI	9815								Canada	authorized	03/29/91
0230	0330	USSR	R Kiev	9785								Eu		09/28/91
0230	0315	Yugoslavia	R Yugoslavia	11885	9555							wNA/eNA		09/21/91
0250	0315	Vatican State	Vatican Radio	7305	6150							NA		09/22/91
0255	0430	Netherlands Antilles	Trans World Radio	11930	9535							NA/Carib	#1 03+	11/30/89
0300	0400	China	R Beijing	11715	9770	9690						wNA/eNA	#1&2 Heli #3 Spain	08/26/91
0300	1200	Costa Rica	R for Peace Int'l	15030	7375							LA/NA	#2 USB	10/07/91
0300	0330	Czechoslovakia	R Prague Int'l	11685	7345	5930						NA		05/06/91
0300	0330	England	BBC	9915	7325	6175	5975					WS: NA/CA/Carib		09/26/91
0300	0350	Germany	R Deutsche Welle	9770	9705	9640	9605	9545	9535	6120	6085	NA		10/25/91
0300	0425	Guatemala	TGNC	3300										12/23/87
0300	0400	Hungary	R Budapest	11910	9835	6110						NA		09/29/91
0300	0330	Japan	R Japan	21610	17825	17810	15325	11870	5960			GOS/NA/CA/LA/Asia	#4 Fr Guinea #6 Can	10/24/91
0300	0330	Norway	R Norway Int'l	9645								NA	Su & Mo only	09/22/91
0300	0505	South Africa	Radio Oranje	3215										10/25/91
0300	0400	Taiwan	V of Free China	15345	11745	9765	9680	5950				NA/Jap/As/AusNZ	#4,5 v WYFR	07/07/90
0300	0400	USA	VOA/Af	21600	17715	15115	11835	9575	7405	6035		Africa		08/30/91
0300	0500	USA	WYFR	9505	6065							NA	#1&2 Network M-Sa	11/22/90
0300	0400	USSR	R Moscow	15590	15415	12025	11980	11750	11730	9720	9685	World Service	#7&9 v Cuba	09/11/91
0310	0327	Switzerland	Int'l Red Cross	12035	9885	6135						NA/CA	Tu&Fr after last Su	04/05/91
0330	0400	Albania	R Tirana	11825	9760							NA		10/25/91
0330	0430	Australia	R Australia	21775	21740	21525	17715	17630	15320	15240	15160	As/Pac/PapMG	#5 Sa-Su	08/29/91
0330	0400	Austria	ORF	13730	9870							NA/CA		09/21/91
0330	0430	England	BBC	9915	7325	5975						WS: NA/CA/Carib		09/26/91
0330	0400	Japan	R Japan	17810	11870	5960						GOS/Asia/NA	#3 v Canada	10/24/91
0330	0425	Netherlands	R Netherlands	11720	9590							wNA	v Bonaire	09/21/91
0330	0400	Sweden	R Sweden	11705	9695							LA		09/24/91
0330	0400	USSR	R Georgia	11850										09/21/91
0340	0348	Greece	V of Greece	11645	9420	9395						NA/Sweden	News/Eng ex Su	04/05/90
0340	0355	Venezuela	R Nacional de Venezuela	9540								SA	news/Eng Tu-Su	06/06/91
0350	0400	USSR	R Yerevan	15455	15180	11790						NA	News/Eng	05/05/91
0400	0615	Bulgaria	R Sofia	17825	15160	11720						World Service: NA/Af		09/29/91

0930	1030	Afghanistan	R Afghanistan	21600	17655							e&seAs/ME	#1&2 v USSR	06/22/91
0930	1000	Australia	R Australia	25750	17750	15170	13605	11800	9580	7140		As/Pac/PapMG		09/21/91
0930	1025	Netherlands	R Netherlands	11895								Aus/Carib	v Bonaire	08/08/91
0955	1020	Monaco	Trans World Radio	9480								UK	Su	09/21/91
1000	1100	Australia	R Australia	25750	15170	11800		9580				As/Pac/PapMG		09/21/91
1000	1025	Belgium	BRT	21815	13675	9855						Afr/Eu	M-Sa	09/21/91
1000	1100	China	R Beijing	17710	15440	11755						sPac		08/26/91
1000	1200	Guam	KHBN	9820								China		03/17/91
1000	1100	Guam	KSDA	11980								As	255 deg	09/22/91
1000	1100	India	AIR	21735	17865	17387	15335	15050				GOS/neAs/AusNZ		04/28/90
1000	1200	N Mariana is	KHBI	17555	13625							China/Phil/Indon	310/240 deg	03/17/91
1000	1100	South Africa	Radio RSA	15250								eAf		10/25/91
1000	1030	Switzerland	Swiss R Int'l	21695	17670	13685		9560				AusNZ		04/17/89
1000	1200	USA	VOA/Am	15120	11915	9590						Caribbean/Americas		03/29/91
1000	1100	USA	VOA/E As	15425	11720	5985						eAs/seAs/Pac		03/29/91
1000	1100	USA	VOA/ME	21615	21570	15195	15160	11740				ME/rAf/Eu		03/29/91
1000	1200	USA	WCSN	13770								Eu	60 deg Sa-Su	09/22/91
1000	1300	USA	WHRI/1	7355								Caribbean	157 deg M-Sa	09/22/91
1000	1200	USA	WSHB/1	9495								eNA	25 deg	09/22/91
1000	1200	USA	WSHB/2	9455								cSA	152 deg	09/22/91
1000	1100	USA	WYFR	5950								NA	Network M-Sa	03/26/91
1000	1030	Vietnam	V of Vietnam	15010	12020	9840								11/07/89
1030	1100	Italy	AWR Europe	7230								Eu		03/19/91
1030	1059	South Korea	R Korea	11715								eNA	v Canada	03/24/91
1030	1055	United Arab Emirates	R Dubai	21605	15435	15320	13675					Eu/N Af		05/06/91
1040	1048	Greece	V of Greece	17535	15625							Japan	News/Eng	06/26/90
1040	1057	Switzerland	Int'l Red Cross	21770	17830	15505	13635					Far East	Mo&Th after Last Su	09/21/91
1055	1330	Netherlands Antilles	Trans World Radio	15345	11815							eNA/Carib		05/20/91
1100	1200	Australia	R Australia	21720	15365	11930	9710	9580	7240	7140	6080	As/Pac/PapMG	#9 1130-	09/21/91
1100	1300	Costa Rica	AWR Costa Rica	11870	9725							CA/SA		06/19/91
1100	1200	England	BBC	15220	9515	6195	5965					WS: NA/CA/Carib		04/26/91
1100	1150	Germany	R Deutsche Welle	21600	21465	17860	17800	17765	15410			wAf		09/22/91
1100	1200	Japan	R Japan	11840	11815	6120						GOS/Asia/NA	#3 v Canada	09/08/89
1100	1200	Jordan	R Jordan	13655								wEU/NA		08/31/91
1100	1150	North Korea	R Pyongyang	11335	9977	6576						Am		12/02/90
1100	1120	Pakistan	R Pakistan	21520	17595							wEu	Slow-speed news	03/16/91
1100	1200	South Africa	Radio RSA	11900	11860	9555						Af		05/11/91
1100	1200	South Korea	R Korea	15575								ME/Af		10/03/87
1100	1130	Switzerland	Int'l Red Cross	7210								Eu	Last Su/mo	09/21/91

1100	1130	Switzerland	Swiss R Int'l	21695	17670	15505	13635				Far East		10/01/91	
1100	1200	Taiwan	V of Asia	7445							seAs		03/09/91	
1100	1200	USA	VOA/E As	15425	15155	11720	9760	6110	5985		eAs/seAs/Pac		09/29/90	
1100	1400	USA	WHRI/1	11790							Caribbean	157 deg Su	09/22/91	
1100	1200	USA	WYFR	7355	5950						NA	#2 Network M-Sa	10/25/91	
1100	1200	USSR	R Moscow	17890	17815	17765	17755	17600	15580	15535	15405	World Service	#10 v Cuba -14	09/13/91
1120	1130	Vatican State	Vatican Radio	15210	9645	7250	6245				ME/Eu	M-F	09/22/91	
1130	1200	Austria	ORF	15450	13730	11780	6155				As/NA/Eu		09/21/91	
1130	1200	Ecuador	HCJB	11925							NA		07/23/91	
1130	1225	Iran	R Tehran	11930	11790	9695	9575	7215			eAs/NE		09/21/91	
1130	1225	Netherlands	R Netherlands	21520	21480	17575	9715	5955			seAs/Eu	#2&3 v Madagascar	01/21/91	
1130	1230	Thailand	R Thailand	11905	9655						seAs		07/29/89	
1140	1155	Venezuela	R Nacional de Venezuela	9540							SA	news/Eng M-Sa	06/06/91	
1200	1300	Australia	R Australia	21720	11930	11720	9710	9580	7240	6080	5995	As/Pac/PapMG	#2 -1230	09/21/91
1200	1250	Brazil	R Bras	11745							NA/CA		12/23/90	
1200	1300	China	R Beijing	15450	15225	11660	11600	9530			sPac/eNA/seAs		08/26/91	
1200	1800	Costa Rica	R for Peace Int'l	21465	15030						LA/NA	#1 USB	10/07/91	
1200	1630	Ecuador	HCJB	21455	17890	15155	11925				NA	#1 USB #4 -1300	08/18/91	
1200	1300	England	BBC	15220	9740	9515	6195				US: NA/CA/Carib		03/30/91	
1200	1230	Italy	Italian Radio Relay Serv	7125							Eu	Su	09/29/91	
1200	1230	Mongolia	R Ulan Bator	12025	11850						Japan	exc Tu&F	03/19/91	
1200	1400	N Mariana Is	KNBI	15665	13625						Aus/seAs	195/285 deg	09/26/91	
1200	1230	Norway	R Norway Int'l	25730	21695						As/Aus/Ind	Sa & Su only	09/22/91	
1200	1225	Poland	R Polonia	11815	9535						Eu		09/27/91	
1200	1225	Romania	R Romania Int'l	17720	15365	15340					As		11/23/90	
1200	1330	USA	VOA/E As	15425	15155	11715	9760	6110			eAs/seAs/Pac		01/14/91	
1200	1400	USA	WCSN	21670							Eu	60 deg Sa-Su	09/22/91	
1200	1400	USA	WSHB/1	9495							eNA	25 deg	09/22/91	
1200	1400	USA	WSHB/2	13760							CA	182 deg	09/22/91	
1200	0100	USA	WOCR/1	15690									10/25/91	
1200	1600	USA	WOCR/2	12160									10/25/91	
1200	1300	USA	WYFR	17760	11830	7355	5950				NA	#1&2&4 Network M-Sa	10/25/91	
1200	1300	USSR	R Moscow	17815	17765	17755	17620	17600	15590	15550	15535	World Service	9600 v Cuba	09/01/91
1200	1225	USSR	R Tashkent	17740	15460	9715	7325				As		05/04/91	
1200	1230	Vietnam	V of Vietnam	15010	12020	9840							02/23/90	
1215	1330	Egypt	R Cairo	17595							sAs		08/16/90	
1215	1315	South Korea	R Korea	9750							Am		04/08/90	
1230	1300	Bangladesh	R Bangladesh	17750	15208						Eu	arrn 15200	05/16/91	
1230	1255	Belgium	BRT	21810							NA/seAs	Su	09/21/91	

1230	1250	Finland	R Finland	15400							NA	M-F	10/07/91	
1230	1255	France	R France Int'l	21645	21635	15195	15155	11670	9805		Am/Eu		05/11/91	
1230	1300	Yugoslavia	R Yugoslavia	21605	17740	17710					Aus/NA/seAs		09/21/91	
1235	1248	Greece	V of Greece	17525	15650	15625					NA/Sweden	News/Eng	12/22/90	
1300	1330	Australia	R Australia	21720	11930	11720	9770	9710	9580	7240	6080	As/Pac/PapMG	08/29/91	
1300	1400	Canada	R Canada Int'l/Carib	17820							Carib	M-F	10/24/91	
1300	1400	Canada	R Canada Int'l/USA	11855	9635						USA	M-F	10/24/91	
1300	1400	China	R Beijing	11855	11660	11600	9530				wNA/Pac/swAs		07/23/91	
1300	1400	England	BBC	15220	11820	9740	9515	6195			WS: NA/CA/Carib		09/26/91	
1300	1400	Ethiopia	V of Ethiopia	9560	7165						wAf		09/13/91	
1300	1350	North Korea	R Pyongyang	15230	13650	9640	9345	9325			seAs/Am/Eu		07/15/90	
1300	1330	Norway	R Norway Int'l	25730	9590						Af/Eu	Sa & Su only	09/22/91	
1300	1600	Philippines	FEBC	11685							seAs/India		10/15/91	
1300	1355	Romania	R Romania Int'l	17850	17720	15365	11940				Eu		09/11/91	
1300	1330	Switzerland	Swiss R Int'l	12030	9535	6165					Eu		10/01/91	
1300	1400	USA	KMLS	7355							As		09/21/91	
1300	1400	USA	WHRI/1	11790							Caribbean	157 deg M-Sa	09/22/91	
1300	1500	USA	WHRI/2	9465							NA	42 deg	09/22/91	
1300	1400	USA	WYFR	17760	13695	11830	9705	5960			NA	#1&3&4 Network M-Sa	10/25/91	
1300	1400	USSR	R Moscow	21655	17815	17765	17570	15550	15540	15155	15110	World Service	#10 v Cuba	09/13/91
1302	1502	USA	WYFR	11550							India	v VOFC-Taiwan	03/26/91	
1310	1327	China	Int'l Red Cross	11690	7480						s&seAs/Far East	Mo&Th after last Su	09/21/91	
1320	1630	Jordan	R Jordan	9560							wEu/NA		05/05/90	
1330	1430	Australia	R Australia	21720	11720	9710	9580	7240	6080	5995	As/Pac/PapMG		09/21/91	
1330	1400	Austria	ORF	15430	11780						As		09/21/91	
1330	1400	China	R Canada Int'l	9700	9535	6150	6095				eAs		10/24/91	
1330	1350	Finland	R Finland	21550	15400						NA	M-F	10/01/91	
1330	1500	India	AIR	11760	9565						GOS/seAs		04/28/90	
1330	1400	Sweden	R Sweden	21570	17740						As/Pac		09/24/91	
1330	1400	Switzerland	Swiss R Int'l	21695	17830	15505	13635	11690	7480		s&seAs/Far East	#5&6 v China	10/01/91	
1330	1400	Turkey	V of Turkey	9675							swAs		09/22/91	
1330	1400	United Arab Emirates	R Dubai	21605	15435	15320	13675				Eu/N Af		05/05/91	
1330	1400	USA	VOA/E As	15425	15155	9760	6110				eAs/seAs/Pac		09/29/90	
1330	1355	USSR	R Tashkent	17740	15460	9715	7325				As		05/04/91	
1330	1400	Vietnam	V of Vietnam	15010	12020	9840							11/07/89	
1345	1400	Vatican State	Vatican Radio	17525	15090	9600					As/AusNZ		09/22/91	
1400	1425	Belgium	BRT	21810							NA/seAs	M-Sa	09/21/91	
1400	1700	Canada	R Canada Int'l/Carib	17820							Carib	Su	10/24/91	
1400	1700	Canada	R Canada Int'l/USA	11955							USA	Su	10/24/91	

1400	1500	China	R Beijing	15165	11855	11815				sAs/wNA		08/26/91		
1400	1430	England	BBC	15220	6195					WS: NA/CA/Carib		09/26/91		
1400	1445	Finland	R Finland	21550	15400					NA	Sa-Su	10/01/91		
1400	1425	France	R France Int'l	21770	17650	11910	7125			seAs	#3&4 v China	02/10/91		
1400	1500	Japan	R Japan	11815	9535	9505				GOS/As/Am	#2 v Sri Lanka	09/09/91		
1400	1600	# Mariana Is	KHBI	13625	9530					seAs/India/China	285/310 deg	07/03/90		
1400	1500	South Korea	R Korea	9570						seAs		03/15/90		
1400	0230	USA	KCBI	15375						Canada	authorized	03/29/91		
1400	1500	USA	VOA/E As	15425	15395	15160	9760	9645	7125	6110	eAs/seAs/Pac	03/29/91		
1400	1500	USA	VOA/ME	15395	15205	9645	7125				ME/rAf/Eu	03/29/91		
1400	1500	USA	VOA/S As	15395	15160	9645	7125				sAs	03/29/91		
1400	1600	USA	WCSH	21670							Eu	45 deg	03/29/91	
1400	1600	USA	WHRI/1	15105							Caribbean	157 deg	09/22/91	
1400	1600	USA	WRNO	15420							NA/CA	20 deg (Su only)	10/25/91	
1400	1600	USA	WSHB/1	15665							eNA/Car	25/173 deg Sa-Su	09/22/91	
1400	1600	USA	WSHB/2	13760							Mex/wNA	245/315 deg	09/22/91	
1400	1500	USA	WYFR	17760	11830	9705					NA	#1&2 Network M-Sa	10/25/91	
1400	1500	USSR	R Moscow	21785	17670	17635	15590	15550	15540	15375	15155	World Service	#10 v Cuba	09/13/91
1415	1500	Bhutan	Bhutan Broadcasting Serv	5025								M-Sa		06/22/91
1420	1430	Sudan	National Unity Radio	9435								ru/EE some days		12/19/88
1430	1530	Australia	R Australia	13755	12000	11720	9860	9770	9710	9580	7240	As/Pac/PapMG		09/21/91
1430	1615	England	BBC	15205								WS: NA/CA/Carib		09/26/91
1430	1450	Finland	R Finland	21550	15400							NA	M-F	10/01/91
1430	1500	Israel	Kol Israel	17590	17575	11605	11587					wEu/eEu/NA/CA		08/30/91
1430	1600	Lebanon	V of Hope	6280	6215							ME/India	# 2 alt	01/25/90
1430	1525	Netherlands	R Netherlands	17605	17575	15150	13770	5955				swAs/Eu	#2&3 v Madagascar	01/21/91
1430	1455	Poland	R Polonia	9525	7285	6135	6095					Eu		09/27/91
1440	1455	Venezuela	R Nacional de Venezuela	9540								SA	news/Eng M-Sa	06/06/91
1445	1700	Guam	KTWR	11650								s&seAs		09/24/91
1445	1515	Mongolia	R Ulan Bator	13780	7260							India		06/22/91
1450	1515	India	AIR	9950	7412							Home Svc	news/features	01/12/91
1458	1600	Seychelles	FEBA	15330	9590							seAs		12/16/89
1500	1530	Canada	R Canada Int'l/Eu	21545	17820	15325	15315	13650	11935	11915	9655	Eu	#3,6-8 Eu 2,4&5 M-Sa	10/24/91
1500	1600	China	R Beijing	15165	11815							sAs		05/25/91
1500	1550	Germany	R Deutsche Welle	21600	17765	17735	15145	13610	11965	9735		s&c&eAf/ME		09/22/91
1500	1600	Japan	R Japan	9505								GOS/NA		09/09/91
1500	1550	North Korea	R Pyongyang	11705	9977	9640	9325					Eu/ME/Af		10/01/91
1500	1530	Norway	R Norway Int'l	11870								NA	Sa & Su only	09/22/91
1500	1525	Romania	R Romania Int'l	17745	15250	11775						As		11/22/90

1500	1555	Seychelles	FEBA	11865						seAs	Sal&Su -1540	12/16/89	
1500	1800	South Africa	Radio RSA	11880	7230					e&c&sAf		10/25/91	
1500	1515	Taiwan	WYFR	11550						India	via VOFC	03/26/89	
1500	0100	USA	KTBN	15590						eNA		03/17/91	
1500	1700	USA	VOA/E As	15425	15395	9760	9645	7125	6110	eAs/seAs/Pac		03/29/91	
1500	1630	USA	VOA/ME	15395	15205	9700	9645	7125		ME/nAf/Eu		01/29/91	
1500	1800	USA	VOA/S As	15395	9645	7125				sAs		03/29/91	
1500	1700	USA	WHRI/2	9465						NA	42 deg occ use	09/22/91	
1500	1600	USA	WYFR	17760	15215	11830				NA	#1&3 Network M-Sa	10/25/91	
1500	1600	USSR	R Moscow	21785	17670	17655	17635	15140	11840	World Service	#6 v Cuba	09/13/91	
1500	1530	Vietnam	V of Vietnam	15010	12020	9840						02/23/90	
1505	1530	Finland	R Finland	21550	15440	11755	9730	6155		Eu/ME/Afr	Sa -1525	10/17/91	
1530	1600	Albania	R Tirana	11835	9730					Af		10/25/91	
1530	1600	Australia	R Australia	13755	12000	9860	9580	7240	6080	5995	As/Pac/PapMG	09/21/91	
1530	1600	Austria	ORF	21490	13730	11780	6155			wAf/seAs/Eu		09/21/91	
1530	1538	Greece	V of Greece	17535	15650	11645				NA/Sweden	News/Eng ex Su	12/07/90	
1530	1600	India	AIR	9950	7412					Home Svc	news/features	01/12/91	
1530	1600	Sweden	R Sweden	21500	17870					NA		10/14/91	
1530	1600	Switzerland	Swiss R Int'l	21630	17830	15430	13685			ME/eAf		04/25/88	
1545	1600	Vatican State	Vatican Radio	17865	15090					As/AusNZ		06/07/91	
1600	1800	Australia	R Australia	13755	13605	12000	11910	9860	9580	7240	6080	As/Pac/PapMG	10/14/91
1600	1630	Canada	R Canada Int'l/Eu	21545	17820	15325	13650	11935	9555			Eu	#5,6 v UK #2-4 M-Sa
1600	1700	China	R Beijing	15130	15110	11575				e&sAfr	#1&2 v Mali	07/23/91	
1600	1745	England	BBC	15260	11775					WS: NA/CA/Carib		03/30/91	
1600	1655	France	R France Int'l	17850	17795	17620	15530	12015	11705	6175		Afr/ME/As/wEu	#5&6 v Gabon
1600	1650	Germany	R Deutsche Welle	17810	15595	15415	15105	11785	9615	7225	6170	sAs	09/22/91
1600	1700	Guam	KSDA	13720						India	285 deg	09/22/91	
1600	1800	N Mariana Is	KHBI	13625	11580					seAs/India	285/310 deg	03/17/91	
1600	1900	Namibia	R Namibia	3270							per MW 2-14-91	03/14/91	
1600	1630	Norway	R Norway Int'l	21730	15230					ME/Af	Sa & Su only	09/22/91	
1600	1630	Pakistan	R Pakistan	21480	17725	17555	15515	13665	11570	ME/e&sAf	Slow-speed news 1615	03/16/91	
1600	1630	Portugal	R Portugal	15425						ME	M-F	03/15/91	
1600	2100	Saudi Arabia	BC Serv of Kingdom of SA	9720	9705							07/01/90	
1600	1800	South Africa	Radio RSA	15160						wAf		10/25/91	
1600	1700	South Korea	R Korea	9870	5975					ME/Af/GOS		11/05/88	
1600	1630	Swaziland	Trans World Radio	11835	11760	11740	5055	4760		e&sAf	only 1 freq/bnd used	06/05/89	
1600	1640	United Arab Emirates	R Dubai	21605	15320	13675	11795			Eu/M Af	#1 amcd as 15400	10/07/91	
1600	1700	USA	VOA/Af	21625	17800	15580	15410	15195	11920	9575	Africa	#5 v Ascension	10/26/91
1600	1800	USA	WCSN	21640						eAf	75 deg	08/28/89	

1600	1700	USA	WHR1/1	15105	11790					Caribbean	157 d #1 Su #2 M-Sa	09/22/91	
1600	2300	USA	WRNO	15420						NA/CA/Eu	20 deg	10/25/91	
1600	2000	USA	WSHB/2	17555						Mex/wNA	245/315 deg Sa-Su	09/22/91	
1600	2300	USA	WACR/2	17535								10/25/91	
1600	1700	USA	WYFR	21525	21515	17760	15355	15215	11830	Eu/Af/NA	#3&6 Network M-Sa	10/25/91	
1600	1700	USSR	R Moscow	21785	17670	11840				World Service	#3 v Cuba	09/13/91	
1615	1630	Switzerland	Swiss R Int'l	11955						eEu		10/01/91	
1625	2200	South Africa	Radio Oranje	3215								08/31/91	
1630	1700	China	R Canada Int'l	9555	7150					India		05/24/91	
1630	1730	Ecuador	HCJB	21480	21455	15270				ME	#2 USB	08/18/91	
1630	1830	Egypt	R Cairo	15255						c&SAf		08/16/90	
1630	1725	Netherlands	R Netherlands	15570	6020					e&SAf	v Madagascar	01/21/91	
1630	1700	USA	VOA/ME	15395	15245	15205	11855	9700	9645	7125	6040	ME/rAf/Eu	04/18/91
1645	2200	South Africa	Radio Oranje	3215								10/25/91	
1700	1730	Canada	R Canada Int'l/Eu	21545	17820	15325	13650	7235	5995	Eu	#5&6 v Eu	10/24/91	
1700	1800	China	R Beijing	15225	11575	9570				e&SAfr		07/23/91	
1700	1727	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930			Eu		04/20/91	
1700	1800	Guam	KSDA	13720						As	Sa-Su 300 deg	03/16/91	
1700	1800	Japan	R Japan	15345	11815	9505	7140			GOS/ME/Af/Am/As	#1 Sri Lanka	09/09/91	
1700	1750	North Korea	R Pyongyang	11705	9977	9640	9325			Eu/NE/Af		10/01/91	
1700	1730	Norway	R Norway Int'l	9655						Eu	Sa & Su only	03/16/91	
1700	1800	Pakistan	R Pakistan	15550	11570					wEu		06/05/91	
1700	1730	Switzerland	Int'l Red Cross	7210						Eu	Mo after last Su/mo	09/21/91	
1700	1800	USA	VOA/Af	21625	17800	15580	15410	11920	9575	Africa		10/26/91	
1700	1800	USA	VOA/ME	15395	15205	11760	9700	9645	7125	6040	ME/rAf/Eu	03/29/91	
1700	1800	USA	WHR1/1	15105						Caribbean	157 deg	09/22/91	
1700	2100	USA	WHR1/2	21480						NA/Eu	42 deg	09/22/91	
1700	2000	USA	WMLK	9465							Su-Fr	08/30/89	
1700	1900	USA	WYFR	21500						Eu/Af/NA		03/26/91	
1700	1730	USSR	R Georgia	12070								09/21/91	
1700	1800	USSR	R Moscow	21845	17670	17655	11840			World Service	#4 v Cuba	09/13/91	
1710	1727	Switzerland	Int'l Red Cross	21770	17830	5525	11955	9885		Africa	Mo&Th after last Su	04/05/91	
1715	1730	Vatican State	Vatican Radio	7250	6245					ME/eAf/wEu		09/22/91	
1730	1800	Ecuador	HCJB	21480	21455	15270				Eu/ME	#2 USB	08/18/91	
1730	1800	Romania	R Romania Int'l	17720	15365	15340	11940			Af		11/12/90	
1730	1800	Vatican State	Vatican Radio	17730	15090	11625				e&SAf		05/28/91	
1800	1900	Afghanistan	R Afghanistan	15510	11845					Eu	v USSR	05/15/91	
1800	2000	Australia	R Australia	13755	13605	12000	11910	9860	9580	7240	6080	As/Pac/PapMG	09/21/91
1800	1850	Brazil	R Bras	15265						Eu		07/17/90	

1800	1830	Canada	R Canada Int'l/Af	17820	15260	13670		Af	Sa&Su -1900	10/24/91
1800	1830	Canada	R Canada Int'l/Eu	17875	15325	11945	7235 5995	Eu	#4&5 v UK	10/24/91
1800	0000	Costa Rica	R for Peace Int'l	21465	15030	13630		LA/NA	#1 USB	07/23/91
1800	2000	India	AIR	15360	11935			GOS/eAf		05/24/89
1800	1815	Israel	Kol Israel	17575	15590	11675	11587	SA/CA/Af/Eu/NA		08/30/91
1800	2000	Mariana Is	KNBI	13625				ME/NZ	285/165 deg	10/12/90
1800	2200	New Zealand	R New Zealand Int'l	15120				Pacific		08/26/91
1800	1900	South Korea	R Korea	15575				Eu		11/05/88
1800	2000	USA	VQA/Af	21625	17800	15580	15410 11920 9575	Africa		09/29/90
1800	1900	USA	VQA/E As	15395	9645	7125		eAs/seAs/Pac		03/29/91
1800	2100	USA	VQA/ME	15205	11760	9760	9700 6040	ME/nAf/Eu		03/29/91
1800	2000	USA	WCSN	21640				sAf	105 deg	09/22/91
1800	2300	USA	WHR1/1	17830				Caribbean	157 deg	09/22/91
1800	2000	USA	WSHB/1	15665				eNA/Eu	25 deg	09/22/91
1800	1900	USSR	R Moscow	21845	17670	17655	15460 12030 11940 11890 11840	World Service	#8 v Cuba	09/13/91
1800	1830	Vietnam	V of Vietnam	15010	12020	9840				11/07/89
1805	1845	Swaziland	Trans World Radio	11835	11760	11740		eAf	only 1 freq/bnd used	06/05/89
1815	1900	Bangladesh	R Bangladesh	12030	9570			Eu/ME		10/01/91
1830	1900	Albania	R Tirana	9480	7120			Eu		10/25/91
1830	1900	Austria	ORF	13730	12010	6155	5945	sAf/ME/Eu		09/21/91
1830	2000	Bulgaria	R Sofia	17825	17780	15330	11765 11720 9700	World Service: Eu/Af		09/29/91
1830	1845	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930	Eu	#1&3 Su -1857 w/#1-4	04/20/91
1830	1925	Netherlands	R Netherlands	21685	17605	15570	6020	Af	#1&2 Bon #3&4 Mad	11/15/90
1830	1900	Switzerland	Swiss R Int'l	11955	9885			Afr		10/12/90
1840	1848	Greece	V of Greece	15625	12105	11645		c&sAf	News/Eng ex Su	12/08/90
1840	1855	Venezuela	R Nacional de Venezuela	9540				SA	news/Eng M-Sa	06/06/91
1845	1945	India	AIR	15080	11860	11620	9950 9665 7412	GOS/w&nAf/wEu		10/12/91
1900	2000	Algeria	R Algiers	15215				SA		03/14/90
1900	2000	Argentina	RAE	15345				Eu/Afr	M-F	04/07/91
1900	1925	Belgium	BRT	15515	9905	5910		Afr/Eu	#1 Su&TuThF	10/15/91
1900	1930	Canada	R Canada Int'l/Af	17820	15260	13670		Af	M-F	10/24/91
1900	2000	China	R Beijing	11515	9440			w&nAfr		05/05/91
1900	2100	Cuba	R Havana	17705				Eu/Af/ME		03/31/91
1900	2000	Ecuador	HCJB	21480	21455	17790	15270	Eu	#2 USB	08/18/91
1900	1950	Germany	R Deutsche Welle	17810	15350	13790	11905 11810 11785 9765	wAf/ME		09/22/91
1900	1930	Japan	R Japan	11850	9640	9505		GOS/Oc/Am		09/09/91
1900	1930	Norway	R Norway Int'l	17730	15220			SA/NA/Af	Sa & Su only	09/22/91
1900	2000	Spain	R Exterior de Espana	15395	15375	11790	9875	Af/ME/Eu		05/21/91
1900	2015	Swaziland	Trans World Radio	5055	4760			sAf	only 1 freq/bnd used	06/05/89

1900	2000	USA	VOA/E As	15180	11870	9525				eAs/seAs/Pac		09/29/90	
1900	2200	USA	VOA/ME	15205	11710	9760	9700	6040		ME/rAf/Eu		03/29/91	
1900	2000	USA	WYFR	21515	15355					Eu/Af		03/26/91	
1900	2000	USSR	R Georgia	12015								09/21/91	
1900	2000	USSR	R Moscow	21845	17670	17655	17605	11940	11840	World Service	#6 v Cuba	09/13/91	
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	05/19/91	
1930	2000	Finland	R Finland	11755	9730	6120				Eu/ME/Af		10/17/91	
1930	2030	Iran	R Tehran	9022	6140					ME/rAf/Eu/eNA		09/27/91	
1930	2025	Romania	R Romania Int'l	11940	9750	9690	7145			Eu		09/11/91	
1930	2000	Sweden	R Sweden	15270	9655	6065				Eu/Af/ME		09/24/91	
1930	2000	Yugoslavia	R Yugoslavia	15140	6100					sAf/Eu		09/21/91	
1935	1955	Italy	RAI	11800	9710	7275				Great Britain		04/08/89	
1940	2010	Mongolia	R Ulan Bator	11850	11790					wEu		06/22/91	
1948	1955	Sudan	Sudan Broadcasting Serv	11635							news/Eng	01/25/90	
1950	2010	Vatican State	Vatican Radio	7250	5895					Eu		10/10/91	
2000	2100	Australia	R Australia	13755	13605	12000	11930	9860	9580	7240	6080	As/Pac/PapNG	09/21/91
2000	2030	Canada	R Canada Int'l/Eu	17875	15325	15140	13650	11945	7235	5995		Eu	#6&7 v UK
2000	2100	China	R Beijing	15110	11715	11500	9920	9440				w&rAf/Eu	#1&2 v Mali
2000	2100	Cuba	R Havana	15135								ME/eAf	v USSR
2000	2027	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930					Eu	04/20/91
2000	2100	England	BBC	5975								WS: NA/CA/Carib	09/23/89
2000	2030	Israel	Kol Israel	17630	17575	15640	11675	11605	11587			seAs/AusNZ/Eu/NA/CA	08/30/91
2000	2300	Lebanon	V of Hope	6280	6215							Eu/ME	exc Sa
2000	2200	# Mariana Is	KHBI	13625	9455							Aus/Japan	180/340 deg
2000	2050	North Korea	R Pyongyang	9977	9640	9345	6576					ME/Af/Eu	01/01/90
2000	2055	Poland	R Polonia	9525	7270	6135						Af	09/27/91
2000	2030	Portugal	R Portugal	11740								Eu	M-F
2000	2130	Sri Lanka	SLBC	15120	9720							Eu	08/24/91
2000	2030	Switzerland	Swiss R Int'l	9535	6165	3985						Eu	10/01/91
2000	2030	USA	VOA/Af	21625	21485	17800	15580	15410	15160	11820	9570	Africa	#6&7 v Ascension
2000	2200	USA	WCSN	13770								Eu	60 deg
2000	2200	USA	WSHB/1	15665								eNA/Eu	25 deg
2000	2200	USA	WSHB/2	17555								eSA	137 deg
2000	2200	USA	WYFR	21525	17750	15585	7355					Eu/Af	09/22/91
2000	2030	USSR	R Georgia	11760									07/24/91
2000	2100	USSR	R Moscow	15375	11930	12030	11890	11840	9880	9610		World Service	#5 v Cuba
2000	2030	Vatican State	Vatican Radio	15090	11625	9645						c&s&wAf	09/22/91
2005	2105	Syria	R Damascus	15095	12085							Eu/NA	02/03/91

2300	2350	North Korea	R Pyongyang	13650	11700					Am		02/24/91
2300	2330	Norway	R Norway Int'l	11925						NA/CA	Sa & Su only	09/22/91
2300	2310	Sierra Leone	SLBS	3316							ru/Eng	09/09/90
2300	0300	South Africa	Radio Orion	4810								08/31/91
2300	2350	Turkey	V of Turkey	11710	7185					Eu/WE	NA svc off to Z/92	09/22/91
2300	0800	USA	WHRI/1	9495						Caribbean	157 deg	09/22/91
2300	0400	USA	WRNO	7355						NA/CA	Spanish Tu-F	10/25/91
2300	0200	USA	WVCR/2	12160								10/25/91
2300	2400	USSR	R Kiev	5960						Eu		09/28/91
2300	2400	USSR	R Moscow	9855	9735	9720				World Service	#3 v Cuba (?)	09/11/91
2315	0115	India	AIR	15110	11745	11715	9910	9535		GOS/As		11/05/90
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	11645	11595	9425				SA/CA	News/Eng	05/06/91

All Records Included

ENGLISH LANGUAGE DX SHOWS: By Day of Week

Compiled by Thomas R. Sundstrom, W2XG

Shortwave DX Program	Show Xmas		Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Target Area	Notes re DX Show	Record
	Start	Start												Last
** DAY OF THE WEEK: Sunday														
DX Spot	0030	0000	Spain	R Exterior de Espana	9630							NA		03/30/91
World of Radio	0030	2300	USA	WRNO	7355							NA/CA		10/25/91
Radio World	0035	0030	Belgium	BRT	13710	13655						NA/SA		09/21/91
DX Party Line	0040	0030	Ecuador	HCJB	21455	15155	9745					NA		09/29/91
Communications World	0110	0100	USA	VOA/Am	15205	15120	11580	9775	9455	7405	6130	Caribbean/Americas		03/29/91
DXers World Meeting	0113	0100	Germany	R Deutsche Welle	11865	9770	9640	9610	9565	9515	6145	NA	Su after last Sa/mo	05/17/91
RFPI's Mailbag	0130	0000	Costa Rica	R for Peace Int'l	21465	15030	7375					LA/NA		10/07/91
DX Spot	0130	0100	Spain	R Exterior de Espana	9630							NA		03/30/91
DXers Unlimited	0140	0000	Cuba	R Havana	11950							Americas		12/15/90
RFPI's Mailbag	0200	0000	Costa Rica	R for Peace Int'l	21465	15030	7375					LA/NA		10/07/91
SW Merry-Go-Round	0220	0200	Switzerland	Swiss R Int'l	17730	12035	9885	9650	6135			NA		05/16/86
DX Asiatwaves	0230	0200	Guam	KSDA	13720							As		01/16/90
DX Party Line	0240	0030	Ecuador	HCJB	21455	15155	9745					NA		03/29/91
Radio Corner	0240	0200	Taiwan	V of Free China	15345	11860	11740	9765	9680	5950		NA/Jap/As/CA/AusNZ	part of Mailbag	10/07/91

DX Mailbag	0245	0200	Romania	R Romania Int'l	11960	11830	9570	9510	6155	5990	NA		06/27/90	
DXers World Meeting	0313	0300	Germany	R Deutsche Welle	.9770	9705.	9640	9605	9545	9535	6120	NA	Su after last Sa/mo	05/17/91
DX Log	0330	0300	Hungary	R Budapest	11910	9835	6110					NA		09/29/91
Bonaire Wavelength	0330	0255	Netherlands Antilles	Trans World Radio	11930	9535						NA/Carib		05/31/89
DXers Unlimited	0340	0200	Cuba	R Havana	15140	11950						Americas		12/15/90
Radio Corner	0340	0300	Taiwan	V of Free China	15345	11745	9765	9680	5950			NA/Jap/As/AusNZ	part of Mailbag	10/07/91
World of Radio	0405	0100	USA	WACR/1	7435									10/25/91
SW Merry-Go-Round	0420	0400	Switzerland	Swiss R Int'l	13635	12035	9885	6135				ME/NA		05/16/86
Signals	0435	0100	USA	WACR/1	7435									10/25/91
DX Party Line	0510	0500	Ecuador	HCJB	15155	9745						NA		11/04/90
DXers World Meeting	0513	0500	Germany	R Deutsche Welle	9690	9670	9535	6120	6055	6045	5960	NA	Su after last Sa/mo	05/17/91
DX Spot	0530	0500	Spain	R Exterior de Espana	9630							NA		03/30/91
DXers Unlimited	0540	0400	Cuba	R Havana	15140	11950	11760	5965				Americas		12/15/90
World of Radio	0730	0300	Costa Rica	R for Peace Int'l	15030	7375						LA/NA		10/07/91
DX Party Line	0735	0030	Ecuador	HCJB	21455	15155	9745					NA		11/04/90
DXers Unlimited	0740	0600	Cuba	R Havana	11760							Americas		12/15/90
Radio Corner	0740	0700	Taiwan	V of Free China	5950							NA	part of Mailbag	10/07/91
RFPi's Mailbag	0800	0300	Costa Rica	R for Peace Int'l	15030	7375						LA/NA		10/07/91
AWR DX Program	0815	0800	Portugal	AWR Europe	9670							Eu		03/19/91
SW Feedback	0835	0800	South Korea	R Korea	13670	7550						Eu		02/26/89
DX Corner	0930	0900	Japan	R Japan	21610	17890	15270	11840				GOS/As/Oc/Eu		04/05/90
SW Feedback	1035	1030	South Korea	R Korea	11715							eNA		03/24/91
Shortwave Panorama	1130	1130	Austria	ORF	15450	13730	11780	6155				As/NA/Eu		04/01/89
SW Feedback	1135	1100	South Korea	R Korea	15575							ME/Af		02/26/89
DX Programme	1200	1200	USSR	R Tashkent	17740	15460	9715	7325				As	Su after 2nd Sat/mo	11/05/88
SW Feedback	1250	1215	South Korea	R Korea	9750							Am		10/28/90
Shortwave Panorama	1330	1330	Austria	ORF	15430	11780						As		09/21/91
Communicator	1430	1430	Australia	R Australia	13755	12000	11720	9860	9770	9710	9580	As/Pac/PapNG		08/29/91
SW Feedback	1435	1400	South Korea	R Korea	9570							seAs		11/05/88
Shortwave Panorama	1530	1530	Austria	ORF	21490	13730	11780	6155				wAf/seAs/Eu		09/21/91
DX Corner	1530	1500	Japan	R Japan	9505							GOS/NA		04/05/90
SW Feedback	1635	1600	South Korea	R Korea	9870	5975						ME/Af/GOS		11/05/88
SW Feedback	1835	1800	South Korea	R Korea	15575							Eu		11/05/88
DX Corner	2020	2000	Israel	Kol Israel	17630	17575	15640	11675	11605	11587		seAs/AusNZ/Eu/NA/CA		08/30/91
SW Feedback	2105	2030	South Korea	R Korea	15575	7550	6480					Eu/ME/Af		11/05/88
DX Corner	2130	2100	Japan	R Japan	17890	17810	15430	11840	11815			GOS/Oc/As/Eu/ME		04/05/90
World of Radio	2130	1400	USA	WRNO	15420							NA/CA		10/25/91
World of Radio	2230	1800	Costa Rica	R for Peace Int'l	21465	15030	13630					LA/NA		07/23/91
DX Corner	2250	2230	Israel	Kol Israel	17575	15640	15100	11605	11587	9435		SA/Eu/wNA/NA		08/30/91

** DAY OF THE WEEK: Monday

R Sofia Calling	0030	2245	Bulgaria	R Sofia	17825	15370	15310	15110	11660	9700	World Service: Eu/NA	09/29/91	
SW Feedback	0035	0000	South Korea	R Korea	15575						Am	04/14/90	
DX Corner	0130	0100	Japan	R Japan	17845	17835	17810	15195	11840		GOS/Asia/ME	04/05/90	
DX Corner	0330	0330	Japan	R Japan	17810	11870	5960				GOS/Asia/NA	10/24/91	
World of Radio	0430	0300	Costa Rica	R for Peace Int'l	15030	7375					LA/NA	10/07/91	
Mailbag	0430	2200	New Zealand	R New Zealand Int'l	17770						Pacific	07/12/91	
Waveguide	0530	0500	England	BBC	9640	5975					WS: NA/CA/Carib	11/18/89	
R Sofia Calling	0545	0400	Bulgaria	R Sofia	17825	15160	11720				World Service: NA/Af	09/29/91	
Shortwave Panorama	0630	0630	Austria	ORF	6015						NA	09/21/91	
SW Feedback	0635	0600	South Korea	R Korea	15170	11810	7275				NA/GOS	09/30/90	
Communicator	0730	0700	Australia	R Australia	21775	21740	17630	15320	15240	11930	11880	As/Pac/PapMG	08/29/91
Radio World	0735	0730	Belgium	BRT	13675	11695	5910				Eu/Aus	09/21/91	
Radio World	1005	1000	Belgium	BRT	21815	13675	9855				Afr/Eu	09/21/91	
World of Radio	1030	0300	Costa Rica	R for Peace Int'l	15030	7375					LA/NA	10/07/91	
DXers Calling	1040	1000	India	AIR	21735	17865	17387	15335	15050		GOS/neAs/AusNZ	04/28/90	
Radio World	1405	1400	Belgium	BRT	21810						NA/seAs	09/21/91	
DXers Calling	1435	1330	India	AIR	11760	9565					GOS/seAs	04/28/90	
Waveguide	1630	1600	England	BBC	15260	11775					WS: NA/CA/Carib	02/17/91	
DXers Calling	1925	1845	India	AIR	15080	11860	11620	9950	9665	7412	GOS/wErf/wEu	10/07/91	
R Sofia Calling	1930	1830	Bulgaria	R Sofia	17825	17780	15330	11765	11720	9700	World Service: Eu/Af	09/29/91	
DXers Calling	2130	2045	India	AIR	15265	11715	11620	9950	9910	7412	GOS/AusNZ/wEu	11/05/90	

** DAY OF THE WEEK: Tuesday

DXers Calling	0040	2315	India	AIR	15110	11745	11715	9910	9535		GOS/As	biweekly	11/05/90
Waveguide	1115	1100	England	BBC	15220	9515	6195	5965			WS: NA/CA/Carib		12/19/88
Sweden Calling DXers	1340	1330	Sweden	R Sweden	21570	17740					As/Pac	1st & 3rd Tu/mo	09/24/91
World of Shortwave	1515	1458	Seychelles	FEBA	15330	9590					seAs		12/16/89
Sweden Calling DXers	1540	1530	Sweden	R Sweden	21500	17870					NA	1st & 3rd Tu/mo	09/24/91
DX Program	1605	1600	Poland	R Polonia									08/19/89
DXers Unlimited	1915	1900	Cuba	R Havana	17705						Eu/Af/ME		11/03/90
Sweden Calling DXers	1940	1930	Sweden	R Sweden	15270	9655	6065				Eu/Af/ME	1st & 3rd Tu/mo	09/24/91
For Radio Amateurs	2015	1930	Romania	R Romania Int'l	11940	9750	9690	7145			Eu		04/03/90
World of Radio	2030	1800	Costa Rica	R for Peace Int'l	21465	15030	13630				LA/NA		07/23/91
DXers Unlimited	2035	1900	Cuba	R Havana	17705						Eu/Af/ME		06/05/91
RFPI's Mailbag	2100	1800	Costa Rica	R for Peace Int'l	21465	15030	13630				LA/NA		07/23/91
Sweden Calling DXers	2140	2130	Sweden	R Sweden	6065						Eu/Af/ME	1st & 3rd Tu/mo	09/24/91
DX News	2230	2200	Hungary	R Budapest	11910	9835	6110				Eu		09/29/91

DX Program	2235	2230	Poland	R Polonia															08/19/89
DX Program	2330	2305	Poland	R Polonia															08/22/89
Sweden Calling DXers	2340	2330	Sweden	R Sweden	11705	9695					LA							1st & 3rd Tu/mo	09/24/91
** DAY OF THE WEEK: Wednesday																			
Sweden Calling DXers	0110	0100	Sweden	R Sweden	11705	9795	9695				NA/As/Pac							We after 1&3 Tu/mo	09/24/91
DXers Unlimited	0140	0000	Cuba	R Havana	11950						Americas								12/18/90
Sweden Calling DXers	0210	0200	Sweden	R Sweden	11705	9695					NA/LA							We after 1&3 Tu/mo	09/24/91
World of Radio	0230	0000	Costa Rica	R for Peace Int'l	21465	15030	7375				LA/NA								07/23/91
For Radio Amateurs	0245	0200	Romania	R Romania Int'l	11940	11830	9570	9510	6155	5990	NA								06/27/90
RFPI's Mailbag	0300	0000	Costa Rica	R for Peace Int'l	21465	15030	7375				LA/NA								07/23/91
DX News	0330	0300	Hungary	R Budapest	11910	9835	6110				NA								09/29/91
DXers Unlimited	0340	0200	Cuba	R Havana	15160	11950					Americas								12/18/90
Sweden Calling DXers	0340	0330	Sweden	R Sweden	11705	9695					LA							We after 1&3 Tu/mo	09/24/91
DXers Unlimited	0540	0400	Cuba	R Havana	15160	11950	11760	5965			Americas								12/18/90
DX Program	0635	0630	Poland	R Polonia															08/19/89
DXers Unlimited	0740	0600	Cuba	R Havana	11760						Americas								12/18/90
DX Special	0740	0730	Czechoslovakia	R Prague Int'l	21705	17840					As/Pac								09/19/90
Ham Radio Today	0750	0700	Ecuador	HCJB	17790	15270	11835				Eu								11/04/90
Ham Radio Today	0751	0730	Ecuador	HCJB	11925	9745					sPac								04/25/90
World of Radio	0830	0300	Costa Rica	R for Peace Int'l	15030	7375					LA/NA								10/07/91
RFPI's Mailbag	0900	0300	Costa Rica	R for Peace Int'l	15030	7375					LA/NA								10/07/91
Ham Radio Today	1020	0730	Ecuador	HCJB	11925	9745					sPac								04/25/90
DX Program	1635	1630	Poland	R Polonia															05/16/91
DX Special	1710	1700	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930			Eu								04/20/91
DX Special	1840	1830	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930			Eu								04/20/91
DXer's Special	1920	1900	Argentina	RAE	15345						Eu/Afr								04/07/91
Ham Radio Today	1920	1900	Ecuador	HCJB	21480	21455	17790	15270			Eu								04/25/90
DX Program	2005	2000	Poland	R Polonia	9525	7270	6135				Af								05/16/91
DX Special	2010	2000	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930			Eu								04/20/91
DX Special	2110	2100	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930			Eu								04/20/91
DX Log	2230	2200	Hungary	R Budapest	11910	9835	6110				Eu								09/29/91
** DAY OF THE WEEK: Thursday																			
R Sofia Calling	0030	2245	Bulgaria	R Sofia	17825	15370	15310	15110	11660	9700	World Service: Eu/NA								09/29/91
Ham Radio Today	0050	0030	Ecuador	HCJB	21455	15155	9745				NA								04/25/90
DX Special	0110	0100	Czechoslovakia	R Prague Int'l	11685	7345	5930				NA								05/23/90
Waveguide	0130	2300	England	BBC	9915	9590	7325	6175	5975		WS: NA/CA/Carib								09/26/91
Ham Radio Today	0250	0030	Ecuador	HCJB	21455	15155	9745				NA								04/25/90

DX Special	0310	0300	Czechoslovakia	R Prague Int'l	11685	7345	5930		NA	05/23/90
DX Log	0330	0300	Hungary	R Budapest	11910	9835	6110		NA	09/29/91
DX Special	0410	0400	Czechoslovakia	R Prague Int'l	11685	7345	5930		NA	05/23/90
Ham Radio Today	0520	0500	Ecuador	HCJB	15155	9745			NA	04/25/90
R Sofia Calling	0545	0400	Bulgaria	R Sofia	17825	15160	11720		World Service: NA/Af	09/29/91
Media Network	0750	0730	Netherlands	R Netherlands	11895				NZ/Aus	11/29/89
Mailbag	0830	0630	New Zealand	R New Zealand Int'l	9700				Pacific	biweekly
Media Network	0850	0830	Netherlands	R Netherlands	11895				As/Aus	11/29/89
Media Network	0950	0930	Netherlands	R Netherlands	11895				Aus/Carib	04/04/91
Media Network	1150	1130	Netherlands	R Netherlands	21520	21480	17575	9715	5955	seAs/Eu
Media Network	1450	1430	Netherlands	R Netherlands	17605	17575	15150	13770	5955	swAs/Eu
Media Network	1650	1630	Netherlands	R Netherlands	15570	6020			e&sAf	09/04/86
Media Network	1850	1830	Netherlands	R Netherlands	21685	17605	15570	6020	Af	08/22/86
Media Network	2050	2030	Netherlands	R Netherlands	13700	11660	9895		wAf	08/22/86

** DAY OF THE WEEK: Friday

Media Network	0050	0030	Netherlands	R Netherlands	11835	6165	6020		eNA	03/17/89				
Media Network	0350	0330	Netherlands	R Netherlands	11720	9590			wNA	03/17/89				
Communicator	0430	0330	Australia	R Australia	21775	21740	21525	17715	17630	15320	15240	As/Pac/PapMG	08/29/91	
Communicator	1030	1000	Australia	R Australia	25750	15170	11800	9580				As/Pac/PapMG	08/29/91	
Radio Ham Corner	1250	1230	Yugoslavia	R Yugoslavia	21605	17740	17710					Aus/NA/seAs	biweekly	09/21/91
DX Show	1615	1600	Portugal	R Portugal	15425							ME		05/08/89
R Sofia Calling	1930	1830	Bulgaria	R Sofia	17825	17780	15330	11765	11720	9700		World Service: Eu/Af		09/29/91
Mailbag	1930	1800	New Zealand	R New Zealand Int'l	15120							Pacific	biweekly	07/12/91
Radio Ham Corner	1950	1930	Yugoslavia	R Yugoslavia	15140	6100						sAf/Eu	biweekly	09/21/91
DX Show	2015	2000	Portugal	R Portugal	11740							Eu		09/27/91
R Sofia Calling	2100	2045	Bulgaria	R Sofia	17825	17780	11765					World Service: Eu/Af		09/29/91
World of Radio	2100	1800	Costa Rica	R for Peace Int'l	21465	15030	13630					LA/NA		07/23/91
DX Show	2115	2100	Portugal	R Portugal	17740							Af		09/27/91
DX News	2230	2200	Hungary	R Budapest	11910	9835	6110					Eu		09/29/91
World of Radio	2230	1200	USA	WOCR/1	15690								may be cancelled	10/25/91
Radio Ham Corner	2235	2200	Yugoslavia	R Yugoslavia	15140	6100						sAf/wEu	biweekly	09/21/91
World of Radio	2300	1200	USA	WOCR/2	12160									10/25/91

** DAY OF THE WEEK: Saturday

R Sofia Calling	0030	2245	Bulgaria	R Sofia	17825	15370	15310	15110	11660	9700		World Service: Eu/NA		09/29/91
DXer's Special	0235	0200	Argentina	RAE	11710							Americas		04/07/91
DX Show	0245	0230	Portugal	R Portugal	11840	9705	9600	9555				SA/NA		01/16/88
World of Radio	0300	0000	Costa Rica	R for Peace Int'l	21465	15030	7375					LA/NA		07/23/91

Radio Nam Corner	0310	0230	Yugoslavia	R Yugoslavia	11885	9555			NA/eNA	biweekly	09/21/91	
DX News	0330	0300	Hungary	R Budapest	11910	9835	6110		NA		09/29/91	
R Sofia Calling	0545	0400	Bulgaria	R Sofia	17825	15160	11720		World Service: NA/Af		09/29/91	
Radio World	0735	0730	Belgium	BRT	13675	11695	5910		Eu/Aus		09/21/91	
DX Party Line	0735	0700	Ecuador	HCJB	17790	15270	11835		Eu		11/04/90	
DX Party Line	0736	0730	Ecuador	HCJB	11925	9745			sPac		11/04/90	
World of Radio	0900	0300	Costa Rica	R for Peace Int'l	15030	7375			LA/NA		10/07/91	
Radio World	1005	1000	Belgium	BRT	21815	13675	9855		Afr/Eu		09/21/91	
OX Party Line	1005	0730	Ecuador	HCJB	11925	9745			sPac		11/04/90	
SW Merry-Go-Round	1115	1100	Switzerland	Swiss R Int'l	21695	17670	15505	13635	Far East		09/06/86	
Bonaire Wavelength	1130	1055	Netherlands Antilles	Trans World Radio	15345	11815			eNA/Carib		05/10/89	
DX Program	1205	1200	Poland	R Polonia	11815	9535			Eu		05/16/91	
DX Programme	1330	1330	USSR	R Tashkent	17740	15460	9715	7325	As	2nd Sat of month	11/05/88	
SW Merry-Go-Round	1345	1330	Switzerland	Swiss R Int'l	21695	17830	15505	13635	11690	7480	sAs/eAs/Far East	09/04/86
Radio World	1405	1400	Belgium	BRT	21810				NA/seAs		09/21/91	
DX Program	1435	1430	Poland	R Polonia	9525	7285	6135	6095	Eu		05/16/91	
SW Merry-Go-Round	1545	1530	Switzerland	Swiss R Int'l	21630	17830	15430	13685	ME/eAf		05/24/86	
DX Asiawaves	1630	1600	Guam	KSDA	13720				India		01/16/90	
Radio World	1905	1900	Belgium	BRT	15515	9905	5910		Afr/Eu		09/21/91	
DX Party Line	1905	1900	Ecuador	HCJB	21480	21455	17790	15270	Eu		11/04/90	
DXers Unlimited	1915	1900	Cuba	R Havana	17705				Eu/Af/ME		04/14/90	
World of Radio	1930	1800	Costa Rica	R for Peace Int'l	21465	15030	13630		LA/NA		10/07/91	
DX Spot	1930	1900	Spain	R Exterior de Espana	15395	15375	11790	9875	Af/ME/Eu		03/30/91	
RFPI's Mailbag	2000	1800	Costa Rica	R for Peace Int'l	21465	15030	13630		LA/NA		07/23/91	
DX Mailbag	2015	1930	Romania	R Romania Int'l	11940	9750	9690	7145	Eu		06/27/90	
Communications World	2110	2100	USA	VOA/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	9445				Eu	Biweekly	09/22/91	
DX Spot	2130	2100	Spain	R Exterior de Espana	9875				Eu		03/30/91	
Radio World	2205	2200	Belgium	BRT	15515	9905	5910		Afr/Eu		09/21/91	
DXers Unlimited	2215	2200	Cuba	R Havana	9710				Eu		12/01/90	
DX Log	2230	2200	Hungary	R Budapest	11910	9835	6110		Eu		09/29/91	
Radio Corner	2240	2200	Taiwan	V of Free China	11580	9852			Eu	part of Mailbag	10/07/91	
DX Radio Tips	2320	2300	Turkey	V of Turkey	11710	7185			Eu/ME	Biweekly	09/22/91	
DX Asiawaves	2330	2300	Guam	KSDA	15610				seAs		01/16/90	

BBCMS cites a report on *Radio Lumiere* that from the afternoon of 9/30 a number of stations were off the air - *Radio Nationale*, *Radio Soleil*, *Radio Cacique*, *Radio Metropole*, *Radio Anillles International*, *Radio Haiti-Inter*, *Radio Plus* and *Radio Galaxy*. Some stopped by design, some by force. Journalists (?Jean Alix Pierre Louis) and (?Harold abilis) of *Radio Anillles International*; (?Pierre Rhoda) and (?Philistin Cicony) of *Radio Cacique*; (?Michele Savard) of *Radio Nationale* - who has reportedly been missing; and Marie Lassegue, Minister of Information, have been arrested. EFE news agency reported 10/1 from Port-au-Prince that only *Radio Lumiere*, owned by the Bap.Evan.Mission of Haiti, was still operating. (WBI 10/4)

On 10/4 several soldiers looted & closed the protestant station *Radio Lumiere*, wounding five of its employees, according to a report on *Radio Haiti*. Shortly after broadcasting this information Jean Dominique, director of *Radio Haiti International*, announced he was closing the station - the antenna had been severely damaged by soldiers. Nevertheless, before closing, he transmitted for some hours & broadcast an interview with President Jean-Bertrand Aristide, during which he requested soldiers to disobey the orders of Army Commander General Raoul Cedras. *Radio Metropole*, another private station in Port-au-Prince, also closed in fear of reprisals. *RFI* (which broadcasts from a local repeater station) and *Radio Soleil*, the Catholic Church's station, also decided to close. Only the private cable television station, *Tele-Haiti*, continued to air information and connects [sic] with the US CNN net and the French speaking intl TV5 net.

The other stations in the capital also shut down, some due to military attacks, such as *Radio Cacique* and *Radio Caraibes*, whose anchorman, Jacky Carabe, was arrested by soldiers in his home & his body was found later. The community, following the crisis by radio, can now only hear shortwave stations and *Tele-Haiti*, which only covers part of the country. (WBI 10/11, from a 10/5 report of AFP news agency, Paris)

RFI-Haiti, the last independent private radio station, stopped transmitting local programs the afternoon of 10/6. The programming was relays of *RFI* and original programs. The action was prompted by letters from listeners who objected to France's attitude towards the Haitian crisis, especially the protection offered to President Aristide during the coup by Jean-Raphael Dufor, French ambassador in Port-au-Prince. (WBI 10/11, from a 10/7 report of AFP)

VOA increased programming in Creole, adding 30 minutes in the morning, at 1130-1200, and 30 minutes in the evening, at 0000-0030. This in addition to normal transmissions at 1630-1700 and 2100-2130 weekdays and 2100-2200 weekends. Returned to normal Creole schedule 10/21, moved one hour later 10/27 to match the change to winter time. (df)

INDIA *All India Radio* added 10 more hourly news bulletins, five each in English & Hindi, from 10/2. Five minute bulletins in Hindi are at 1930, 2035, 2130, 2235, 2330 gmt. English bulletins added are at 1935, 2030, 2135, 2230, and 2335 gmt. (WBI 10/4)

IRAN - *The Voice of the Islamic Republic of Iran*, Tehran, began broadcasting to North America in EE on 10/15, from 0030-0130 on 9022, 9765 and 15260 kHz. (Richard Measham, BBCM, on RNMN 10/17) [15260 is buried under BBC Ascension in EE which has solid signals in CA and is more dependable than UK transmitters.--mf]

IRAQ - *Republic of Iraq Radio's First Program* in Arabic was heard at 1230-1300 10/3 with a program "The Armed Forces", prepared by the Moral Guidance Directorate at the Defence Ministry. The program was last heard prior to the Iraqi invasion of Kuwait in 8/90. (WBI 10/11) There has been no change in the SW picture in Iraq. The only languages broadcast to other countries are Arabic and Persian, although a Baghdad FM service carries occasional short bits in EE. (Richard Measham, BBCM, on RNMN 10/17)

ITALY - *Adventist World Radio*, Forli, has EE from 0730-0800 and 1030-1100 on 7230 kHz; FF Sat/Sun 0630-0700 on 7205 kHz and 0930-1000 on 7230 kHz; GG 0800-0830 and 1100-1130 on 7230 kHz; Italian 0700-0730 and 1000-1030 on 7230; SS Sat/Sun 0600-0630 on 7205 kHz and 0900-0930 on 7230 kHz. Alternate freqs are 7125 and 7205 kHz. (Benelux DX Club on DXPL 9/21)

R. Italia International, Spoleto, 7140 kHz, 0900-1130 with IDs and dedications. (Dario Monferini, Play-DX, on DXPL 9/21)

R. Europe, Piottello, 7293v kHz, Sat-Sun 0700-1100 with relays of [the German pirate] Radio Marabou and other stations. The Play-DX DX program is scheduled 0915-0945 both days. (Dario Monferini, Play-DX, on DXPL 9/21)

R. Music, new, Box 220, I-62100 Macerata, has announced plans to operate on 7115 kHz (to Italy), 11570 kHz (EU and NA), 15105 kHz (EU and NA) and 15355 kHz (Asia and Oceania). Power and test schedules have not been announced. *R. Music* is licensed as an FM station on 93.1 MHz. (Play-DX on DXPL 9/21)

Adventist World Radio, Forli, advises that their EE broadcasts are at 0830-0900 and 1130-1200 on 7230 kHz, and Sundays 0900-1000 via R. TransEurope, Portugal, on 9650 kHz. (William Mathews, RKSF 10/13, via Mike Fern)

RAI - Radiotelevisione Italiana's W91 English sked through 3/29/92 is as follows: to NA 0100-0120 on 9575, 11800 kHz; to UK 1935-1955 on 7275, 9710, 11800; to ME 2025-2045 on 7235, 9575, 11800; to Japan 2200-2225 on 5990, 9710, 11800; in It & EE to the Medit. basin 0415-0440 on 5990, 7275. Bcsts in various langs to CA and Australia have been temporarily suspended for equip. mods. (RAI direct to William Mathews on RKSF 10/13 via Mike Fern)

JAPAN - Ian MacFarland made his first appearance on Radio Japan's DX Corner with a review of *Passport to World Band Radio* on 10/6. He will make more (but not regular) appearances on DX Corner in the future. (Mike Fern-CA)

KOREA (Rep) Sked for *Radio Korea*: **English** 0000-0100 to NA on 15575; 0045-0100 (WS news) to As on 7275; 0245-0300 (WS news) to Am on 9640, 11805, 15575; 0600-0700 to As/Am on 7275, 11810, 15170; 0615-0630 (WS news) to Eu/ME/AF on 7550, 15575; 0800-0900 to Eu on 7550, 13670; 0915-0930 (WS news) to Eu/Am on 9570, 13670; 1030-1100 to NA on 11715 (Sackville); 1100-1200 to Af on 15575; 1115-1130 (WS news) to As on 7275, 11740; 1215-1315 to Am on 9570; 1330-1345 (WS news) to As on 7275, 11740; 1400-1500 to As/Am on 9570; 1545-1600 (WS news) to ME/AF/As on 7275; 1600-1700 to ME/AF/As on 5975, 9870; 1715-1730 (WS news) to ME/AF on 9870; 1800-1900 to Eu on 15575; 1945-2000 (WS news) to As on 6135; 2030-2130 to Eu/ME/AF on 6480, 7550, 15575; 2045-2100 (WS news) to As on 5975.

In **Korean** (news) at 0030-0045 to As on 7275; 0230-0245 to Am on 9640, 11805, 15575; 0600-0615 to Eu/ME/AF on 7550, 15575; 0900-0915 to Eu/Am on 9570, 13670; 1100-1115 to As on 7275, 11740; 1315-1330 to As on 7275, 11740; 1530-1545 to ME/AF/As on 7275; 1700-1715 to ME/AF on 9870; 2030-2045 to As on 5975. Other **Korean** programs at 0300-0400 to As/Am on 7275, 9640, 11805, 15575; 0700-0800 to As/Am on 7275, 11810, 15170; 0900-1100 to Af on 15575; 1000-1100 to As on 5975, 6135, 7275; 1200-1400 to As/Am on 9570; 1700-1900 to Eu/ME/AF/As on 5975, 6480, 7550; 2100-2200 to As on 7275; 2300-0100 to As on 5975.

Other languages: 0100-0300 JJ to As on 7275; 0100-0145 PP to Brz on 9640, 15575; 0100-0145 RR to Eu on 11805; 0145-0230 SS to Am on 9640, 11805, 15575; 0600-0630 Italian to Eu/ME/AF on 13670; 0630-0715 FF to Eu/ME/AF on 7550, 13670, 15575; 0715-0800 GG to Eu/ME/AF on 7550, 13670, 15575; 0800-1000 JJ to As on 7275, 15170; 0930-1015 PP to Eu/Am on 9570, 11725, 13670; 1015-1100 SS to Eu/Am on 9570, 11725, 13670; 1100-1145 GG to Eu on 13670; 1100-1300 JJ to As on 5975, 6135; 1115-1200 Indo to Indo on 9570; 1130-1230 CC to As on 7275, 11740; 1230-1315 RR to As on 7275, 11740; 1300-1400 CC to As on 6135; 1345-1430 Indo to Indo on 7275, 11740; 1430-1530 CC to As on 7275, 11740; 1500-1545 Indo to Indo on 9570; 1545-1615 Italian to Eu/ME/AF on 6480, 7550; 1600-1645 RR to ME/AF/As on 7275, 9515, 15575; 1615-1700 FF to Eu/ME/AF on 6480, 7550; 1645-1730 AA to Eu/ME/AF/As on 7275, 9515, 15575; 1730-1815 GG to ME/AF/As on 7275, 9515; 1730-1800 Italian to Eu on 15575; 1730-1815 RR to Eur on 9870; 1815-1900 FF to ME/AF/As on 7275, 9515, 9870; 1900-1945 AA to Eu/ME/AF on 6480, 7550, 9870; 1900-1945 RR to As on 5975, 6135, 15575; 1945-2030 FF to As on 5975; 1945-2030 GG to ME/AF on 7550, 9870; 1945-2015 Italian to ME/AF/As on 7275; 2100-2300 JJ to As on 5975; 2130-2215 FF to ME/AF on 7550; 2130-2215 GG to Eu on 6480, 15575; 2200-2245 RR to As on 7275, 9640; 2215-2300 SS to Eu/ME/AF on 6480, 7550, 15575; 2245-2330 Indo to Indo on 7275, 9640; 2300-2330 Italian to Eu on 15575; 2300-2345 PP to Eu/ME/AF on 6480, 7550; 2330-0030 CC to As on 7275, 9640. (WBI 10/11)

Korea (South)

Yu Li-Na is leaving Radio Korea to return to college for a master's degree in art history. 10/13 was her last appearance on Shortwave Feedback. (RKSF 10/13)

KOREA (North) - *Kanggye Regional B/c station*, 11680 kHz., heard from 1325-1400 10/10 with Pyongyang home service. 1325-1345 was very emotional reading by man of super-Romantic Russian novel, against music track of Russian choirs and art songs. "Yoginun Pangsong imnida" at 1356, "Choson chang'un Pangsong imnida" at 1400. PWBR 91 says 2000-1800. Very good signals, but badly overmodulated. (Mike Fern-CA)

Radio Pyongyang sked (all 50 minute programs): **English** 0000 to Am on 11335, 13760, 15115; 0400 to As on 15180, 15230, 17765; 0600 to As on 15180, 15230; 0700 to ME/AF on 15340, 17765; 0800 to As on 15180, 15230; 1100 to Am on 6576, 9977, 11335; 1300 to Eu/As/Am on 9325, 9345, 9640, 13650, 15230; 1500 & 1700 to Eu/ME/AF on 9325, 9640, 9977, 11705; 2000 to Eu/ME/AF on 6576, 9345, 9640, 9977; 2300 to Am on 11700, 13650.

Korean: 0400 to As on 7200, 9345, 11735; 0500 As 15180, 15230, 17765; 0800 ME/AF/As 7250, 9505; 1000 Am 6576, 9977; 1200 As 6125, 7200, 9345; 1400 As 9640, 9977, 15230; 1600 ME/AF 6540, 9600, 11905; 1700 Eu 6576, 9345; 1800 Eu/ME/AF 9325, 9640, 9977; 1900 ME/AF 6540, 9600, 11905; 2200 As/Am 11335, 11700, 15115, 15230.

Other languages: 0000 FF As 11845, 15230; 0000 SS Am 11700, 13650; 0400 JJ As 9505, 9650, 11780; 0600 CC As 15340, 17765; 0600 FF ME/AF/As 17750, 17795; 0600 JJ As 9505, 9650, 11780; 0700 CC As 13650, 15230; 0900 JJ As 3250, 6540, 6560, 7580; 0900 RR Eu/As 7200, 9325, 9345, 11335; 0900 SS Am 6576, 9977; 1000 RR Eu/As 7200, 9325, 9345, 11335;

1100 CC As 6125, 9977, 11335; 1100 JJ As 3250, 6540, 6560, 7580; 1200 SS Am 6576, 9977, 11335; 1300 CC As 9977, 11735; 1300 JJ As 3250, 6540, 6560, 7580; 1400 FF Eu 9325, 9345, 11735, 13650; 1500 AA ME/AF 6540, 9600, 11905; 1500 RR Eu 6576, 9345; 1600 FF Eu/ME/AF 6576, 9345, 9640, 9977; 1600 RR Eu 9325, 11705; 1700 AA ME/AF 6540, 9600, 11905; 1800 AA ME/AF 6540, 9600, 11905; 1800 SS Eu 6576, 9345; 1900 FF Eu/ME/AF 9325, 9640, 9977, 11705; 1900 GG Eu 6576, 9345; 2000 AA ME/AF 6540, 9600, 11905; SS Eu/Am 9325, 11705; 2100 FF Eu/ME/AF 6576, 9345, 9640, 9977; 2100 GG Eu 9325, 11705; 2100 JJ As 3250, 9505, 9650, 11780; 2300 SS Am 13760, 15115. (WBI 10/11)

LATVIA - *Latvian Radio*, Riga, sked: 0530-0600 Latvian (repeat of 1800); 0700-0730 Su English (rpt 1830); 0800-0830 Su Swedish; 1400-1500 Russian; 1830-1900 Sa English; 1930-2000 Sa Swedish; 2030-2100 Latvian (rpt 1800); 2130-2140 Mo-Fr English/German; 2230-2300 Sa Swedish (rpt 1930). All to Europe on 5935 kHz. (WBI 10/18)

LEBANON - *King of Hope*, Marjayoun, 11530 kHz, was heard in Japan from 1400-1600* 9/16 with rel. programs in EE. Reception was fair. (Yoshiaki Hayashi on RJDXC 9/23) And in CA from 1400-1500* with weak to fair signals depending on propagation. (Mike Fern--CA)

LITHUANIA - *Radio Vilnius* sked: 0000-0030 English, 0200-0230 Lithuanian to Eu/Am on 7400, 9710, 15180, 17605, 17690. 2200-2230 Lithuanian & 2230-2300 English to Eu on 9675, 9710. (WBI 10/18) The mailing address for *Radio Centras*, the private SW station, is P.O. Box 1792, Vilnius. (William Mathews, RKSF 10/13) [No post code given. PWBR 91 spells it "Radiocentras".--mf]

MALAYSIA *Radio TV Malaysia Radio One* is sked 2200-1100 on 5965, 11930 1100-2200 on 5965, all in Malay. *Radio Four* in English on 7295 kHz at 0010-0100 daily, 0100-0500 Su-Th, 0500-0600 daily, 0600-0900 Sa-Th, 0910-1600 & 2200-2400 daily. *Radio Five* 0200-0300 Sa/Su, 0300-0515 daily, 0515-0600 Sa/Su; 0600-0700 daily; 0700-0800 Sa/Su, 0800-1600 daily, 2200-0200 daily. In Chinese, except Malay news 0900-0910, 1230-1255, 2230-2240. All on 6025 kHz. *Radio Six* 0100-0200 Sa/Su, 0200-0300 daily, 0300-0515 Su, 0515-0600 daily, 0600-0700 Sa/Su, 0900-1500 daily, 2100-0100 daily. All in Tamil, except Malay news at 1230-1255, 2230-2240. All on 4845 kHz. *RTM Sarawak*, Kuching, in Malay/Melanau at 0000-0030 on 4835, 7145; 0030-1000 7145; 1000-1600 on 4835, 7145; 2200-2300 on 4835; 2300-2400 on 4835, 7145; all daily. In Bidayuh at 1030-1500 & 2200-2400 on 5030. In Chinese & English at 0100-0600 & 0800-1000 on 7160; 1000-1500 on 4950, 7160; 1500-1600 on 4950; 2200-2300 on 4950; 2300-0100 on 4950, 7160. Local news in English at 1130-1140, 1400-1420, 2330-2340. In Iban at 1000-1100 on 4895, 5005, 6050, 6060, 7270; 1100-1500 same frequencies and 3385; 2200-2400 on 3385, 4895, 5005, 7270. *RTM Sabah*, Kota Kinabalu, in Malay on 4970 at 1000-1600 & 2200-0100. In English & Malay on 5980 at 1000-1600 & 2200-0100. Local news in English at 2300-2310. (WBI 9/27)

MALTA - The *Voice of the Mediterranean* transmits daily in EE from 1400-1500 and in AA from 1500-1600 on 11925 kHz. Repeats of each day's programs can be heard the following morning at 0600-0700 in EE and 0700-0800 in AA on 9765 kHz. MW xmsns on 1557 kHz temp. suspended for work on a new Maltese power stn being built close to the DW xmtr site. 600-kw from the MW xmtr is considered a possible hazard to workmen on nearby cranes and towers. (Rainer Geisman, DW Malta manager, in VoMed newsletter on DXPL 9/21 via Mike Fern)

NEW ZEALAND - Test xmsns from RNZI have been carried out on 11825 kHz from 1800-2200 on Sats UTC; this freq may be used in the winter of 1992. (AC on DXPL 9/21)

Kiwi Radio, a pirate station, has scheduled special broadcasts on 5850 kHz, at 0600-0730 on 10/26, 10/28 and 12/14. The address is: Free Radio for the South Pacific, P.O. Box 1437, Hastings, N. Z. (Michael Pollard, NZ DX Times, on DXPL 9/21 via Mike Fern)

The "World Band Radio Replay" catalog mentioned in PWBR 92 is actually a catalog of RNZ domestic bests in cassette form. Programs in the Radio Replay Service include music, documentaries and other features. (Tony King, RNZI Mailbox 10/13 via Mike Fern)

RNZI wants rx rpts comparing RNZI sigs to other Pacific, with rpts of QRM, as well. RNZI now has 7 different QSL cards issued on a rotating basis. RNZI *may* have changed its postage policy. "We acknowledge that we appreciate postage being sent to us, and if you can send us IRC's that certainly speeds up the process of replying to you." (Tony King on RNZI Mailbox 10/13) [The original policy was three IRC's for an airmail reply with QSL card. PWBR 92, which has a vastly expanded station address and QSL section, merely states "3 IRCs helpful." Could be anything less is returned by slow boat.--mf]

RNZI conducted a one-day test xmsn on 11735 kHz from 1800-2200 Sat. Oct. 26; results will be applied during winter skeds in 1992. RNZI continued its World Rugby Cup broadcasts from 1200-1800 on 9510 kHz into Nov., not just because NZ is playing, but because Western

Samoa (pop. 190,000) shocked everybody by qualifying for the quarter-finals with some lopsided scores against the likes of Argentina and Italy. (Tony King, RNZI Mailbag 10/13, and mlf)

NORWAY - Radio Norway International (all programs 30 minutes): **English 0000** Su/Mo to Am on 9645 or 11925; **0100 & 0200** Su/Mo to Am on 9605; **0300** Su/Mo to Am on 9645; **1200** Sa/Su to As/Af on 21695, 25730; **1300** to Eu/Af on 9590, 25730; **1500** Sa/Su to Am on 11870; **1600** to ME/Af on 15230, 21730; **1700** Sa/Su to Eu on 9655; **1900** Sa/Su to Af/Au/Am on 15220, 17730; **2000** Sa/Su to Am on 17730; **2100** Sa/Su to Am on 9590; **2300** Sa/Su to Am on 11925.

Norwegian 0000 Tu-Sa to Am on 11925; **0000** to As/Am on 9640, 9645, 11850; **0100** Tu-Sa to Am on 9605, 9615; **0200** Am 9615 (daily), **9605** (Tu-Sa); **0300** (Tu-Sa) on 9645; **0300** to ME/As/Am on 7165, 9650, 11865; **0400** Am 9650, **0400** ME/Af/As/Au 7245, 9645, 11865; **0500** Eu/Af/ME/Au 7245, 9645, 9650, 11850; **0600** Eu/ME 5980, 15175; **0700** Eu/Af/Au 9590, 11735, 17765; **0800** As/Au 17740; **0800** As/Au 25730; **0900** As/Au 21735, 25730; **1000** Af/Au/Am 15165, 21590; **1100** Am 17780, 25730; **1200** Mo-Fr to As/Au 21695, 25730; **1200** Am 15360, 17780; **1300** Mo-Fr to Eu/Af on 9590, 25730; **1300** As/Au/Am 17780, 21710; **1400** As/Au/Am 17790, 21705, 21710; **1500** Mo-Fr to Am on 11870; **1500** ME/Af 21730, 25730; **1600** Mo-Fr to ME/Af on 15305, 21730; **1600** to Am on 15360; **1700** Mo-Fr to Eu on 9655; **1700** Eu/Af/Am on 15220, 17760, 21730; **1800** Am 17760; **1800** Eu/ME/Af 11875, 15220; **1900** Mo-Fr to Af/Au/Am on 15220, 17730; **1900** Eu 9590; **2000** Mo-Fr to Am on 17730; **2000** Eu 9590; **2100** Mo-Fr to Am on 9590; **2100** Am 15165; **2200** Am 11850, 15195; **2300** Mo-Fr to Am on 11925; **2300** Am 9645. (WBI 10/4)

The Nordic DX Test transmission from *Uke-Senderen*, Trondheim Technical University, actually took place at 0829-0900 Sat 10/5 because of a transmitter failure. The regular 24-hour Rag Week broadcast schedule on 1485 and 7225 kHz and VHF began Oct. 18 and will continue for about three weeks (10/38 or 11/7.) Test xmsns from Uke-Senderen preliminary to Rag Week began Oct. 10. The station is silent in even years. Uke-Senderen received lots of mail in 1989 but the students were too busy to answer the letters, so the Norwegian DX clubs are extending some fatherly advice this year. The 7225 kHz xmtr has a power of 1 kw. Most of the programming is in Norwegian, but prepared tapes including EE announcements may be worked in at slow periods. The student stations in Oslo and Bergen may still be active, but probably only on VHF. (Ben Erfurt and JM on RNMN 10/17)

PERU - R. Andina, Huancayo, 4996 kHz, heard from 0945-1005 with poor signals. [WRTH 91 says 0900-0500*--mf] **R. San Martin**, Tarapoto, 4810 kHz, heard from 0953-1020 with fair signals. [WRTH 91 says 1000-0400--mf] (Manfred Lepp, Philippines, on RJDXC 9/22) **R. Quillabamba**, Quillabamba, 5025 kHz, at 0159 in SS with closing ID, "Radio Quillabamba agradece su amable sintonia," (R. Quillabamba appreciates your kind tuning in), and national anthem; good signals in Quito. (RMV/QLB/DXPL 10/13) **La Voz de la Selva**, Iquitos, 4825 kHz, at 0155 in SS with ad, time check and music; news at 9 pm local time. Excellent signals. (RMV/QLB/DXPL 10/13) **R. Atlantida**, Iquitos, 4790 kHz, at 0152 with political commentary on the border situation with Ecuador. Very good signals. (RMV/QLB/DXPL 10/13)

POLAND - Radio Polonia sked: **English 0630-0700** to Eu on 7270, 9675; **1200-1225** to Eu on 9525, 11815; **1430-1455** to Eu on 6095, 6135, 7285, 9525; **1600-1630** Eu on 6135, 9540; **1630-1700** to Af (unconfirmed) (no freqs given); **1830-1855** Eu on 5995, 6135, 7285, 9525; **2000-2055** Af on 6135, 7270, 9525; **2200-2255** Eu on 5995, 6135, 7270.

Polish: 0000-0100 to Eu/ME/Af (for Polish seamen) on 6095, 6135, 7145, 7270, 9525, 11815; **0400-0500** to Eu/ME/Af/Am (for Polish seamen) on 5995, 6095, 6135, 7145, 9525; **0600-0700** to Eu/ME/Af on 5995, 6095, 7145, 9525; **1300-1355** to Eu/Af (for seamen. Holy Mass Sun) on 9525, 11815; **1330-1355** (for Poles abroad) on 6095, 6135, 9540, 11840; **1530-1555** to Baltic States on 5995, 6135, 9525, 9540; **1630-1700** 5995, 6135, 9540; **1900-1925** to Eu/ME on 6095, 7285; **2100-2130** to Eu on 5995, 6095, 6135, 7145, 7285; **2200-2300** to Eu/ME (for seamen) on 6095, 7285, 9525.

Other languages: **0530-0600** GG 5995, 7285, 9675; **0600-0630** FF 7270, 9675; **1130-1200** FF 6135, 9510, 9540; **1130-1200** Music (Chopin concerts) on 5995, 9525, 11815; **1200-1225** GG 5995, 6135, 9540; **1230-1255** Italian on 6095, 6135, 9540, 11815; **1300-1355** Lithuanian on 6135, 9540; **1300-1330** SS (unconfirmed - no freqs given); **1300-1325** Ukrainian to Eu on 6095, 7145; **1400-1425** GG on 5995, 6095, 6135, 7285, 9525; **1500-1525** FF on 9525, 11840; **1500-1525** GG 6135, 9540; **1500-1530** Swedish 5995, 6095, 7285; **1530-1555** Esperanto 6095, 7285; **1530-1555** RR 11840; **1600-1625** GG 5995, 6095, 7285; **1600-1625** Lithuanian 9525, 11840; **1630-1655** Finnish 6095, 7285; **1700-1725** FF 6095, 7285, 9525; **1730-1800** Esperanto 6135, 7285, 9540; **1730-1755** Italian 9525, 11840; **1730-1755** Swedish 5995, 6095; **1800-1825** GG 5995, 6135, 7285, 9540; **1800-1825** SS to Eu 9525, 11840; **1800-1825** Ukrainian 6095, 7145; **1800-1855** RR 6095, 9540, 11840; **1900-2000** GG 5995, 6135, 7270; **1900-1925** RR 9525, 11840; **1930-1955** Finnish 6095, 7285, 9525, 11840; **2100-2130** GG 7125, 7270; **2130-2155** Esperanto 5995, 6095, 6135, 7145, 7285. (WBI 10/11)

RWANDA - *Radio Rwanda* will soon use a 100 kw sw xmt'r to broadcast throughout Af/ME, per quote from Ferdinand Nahimana, Director of the Rwandan Information Office. Says station, will also launch a second station for FF, EE and Swahili listeners. (AFP news agency, Paris, citing a report from Kigali, via WBI 10/18)

SINGAPORE - *Singapore BC Corp Radio 1* in English 2158-1605 on 5010, 5052, 11940. Radio 2 in Malay 2045-1605 on 6155, 7250. Radio 3 in Chinese 2200-1605 on 6000, 9635. Radio 4 in Chinese dialects at 1300-1605, Tamil 2200-1300, both on 7170 kHz. (WBI 9/27)

SWAZILAND - *Trans World Radio* S91 sked: English 0430-0500 on 5055; 0430-0630 on 5965; 0430-0530 on 9655; 0730-0835 on 11740; 0600-0835 on 7200, 0835-0850 on 11750 (Mo-Fr), 11740 (Mo-Sa), 7200 (Mo-Sa); 1600-1700 on 9595; 1700-1730 on 9520; 1700-2030 on 3200; 1800-1845 on 9595; 1900-2115 on 3240; 2030-2100 Sa/Su on 3200 kHz.

Other languages: 0300-0330 Ndebele on 3200; 0300-0345 Shona on 3240; 0300-0330 Swahili 9640; 0400-0430 Chewa 9655, 0400-0430 German on 5055, 5965; 0400-0415 Lomwe on 6020; 0530-0615 -0645 Sa) on 9655; 1440-1445 (-1530 Sa/Su) on 9515; 1445-1500 Yao on 11805; 1500-1515 Malagasy 9650; 1515-1545 FF 9650; 1530-1545 Lomwe 9515; 1530-1615 Tshwa 4760; 1530-1545 Urdu to SAs on 15170; 1600-1700 Chewa 9620; 1630-1700 German 4760; 1700-1800 Swahili 9595; 1700-1730 Tswana 4760; 1700-1800 Zulu 3240; 1730-1745 Sa/Su Pedi/Tswana 4760; 1745-1830 PP 4760; 1800-1830 Ndebele 3240; 1800-1845 Shona 4790; 1830-1835 Mo-Fr 4760; 1830-1900 Xhosa 3240; 1845-1900 Umbundu 7120; 1900-1930 Lingala 9520; 1900-1945 PP 7120; 1930-2000 FF 9520; 1945-1950 Mo-Fr PP 7120; 2000-2015 Sa/Su FF 9520. (WBI 9/27)

SWEDEN - *Radio Sweden* (all programs 30 minutes, unless noted): English 0100 to As/Am on 9695, 9765, 11705; 0200 to Am on 9695, 11705; 1330 to As/Au on 17740, 21570; 1530 to Am on 17870, 21500; 1930 to Eu/ME on 6065, 9655, 15270; 2130-2230 to Eu on 6065; 2330 to Eu/Am on 9695, 11705.

Swedish 0230 to Am on 9695, 11705; 0500-0715 (Mo-Fr), 0600-1000 (Su), 0600-0900 (Sa), to Eu/ME on 6065, 15390; 1100 to Eu/As/Au on 6065, 17740, 21570; 1130 to Eu/As on 6065, 9775, 15230; 1300 As/Au 17740, 21570; 1430 to Am on 17870, 21500; 1700 to Eu/Am on 6065, 9615, 17870; 1900 to Eu/ME on 6065, 9655, 15270; 2100 to Eu/Am on 6000, 6065; 2200 to Eu on 6065; 2300 to Eu/Am on 9695, 11705.

Other languages: 0000-0015 SS to AM on 9695, 11705; 0130-0145 SS Am 9695, 11705; 0145-0200 FF Am 9695, 11705; 1030-1130 Sa/Su GG to Eu on 6065; 1400-1430 RR As 9680, 17740; 1500-1515 FF Am 17870, 21500; 1515-1530 SS Am 17870, 21500; 1600-1630 RR Eu 5990, 9615; 1630-1700 Sa/Su Latvian Eu 5990; 1630-1645 FF Eu/ME 6065, 15285; 1645-1700 SS Eu/ME 6065, 15285; 1730-1745 Estonian 5955, 6065; 1745-1800 Sa/Su Estonian 5955, 6065; 1745-1800 Mo-Fr Latvian 5955, 6065; 1800-1900 GG Eu 6065, 9615; 2030-2045 FF Eu 6065; 2030-2100 RR Eu 6005; 2045-2100 SS Eu/Am 6065, 9655; 2230-2245 SS Eu/Am 9695, 11705; 2245-2300 FF Eu/Am 9695, 11705. (WBI 10/4)

UKRAINE - *R. Kiev* is using winter frequencies of 11790, 12330, 17665 and 17690 from 0000-0100. (Dale Vanderpoel on SW Echo on SCDX 9/17 via Mike Fern)

Radio Kiev advises the following EE sked upon return to standard time: 2200-2300 to Europe on 5960 and 9820 kHz; 0000-0100 [sic; actually 0100-0200 -mf] to NA on 11790, 12005, 15180, 17605 and 17690 kHz; rebroadcast to Europe 0230-0330 on 936 MW and 5905 kHz. SW. (William Mathews, RKSF 10/13, via Mike Fern) [At 0100 10/14 UTC, 11790 probably Cuba, 17605 probably Soviet Far East, both solid here. Announced sked at closing agrees with Mathews on EU and with me on NA.--mf]

Radio Nezalezhnist (Radio Independence) has been on the air from Lvov since 9/18. Sked is 1600-1700 on 936 & 11825; 1700-1800 on 11825. From 9/29 5980 kHz was to be added. For now it operates only Wednesday & Thursday, but will eventually be daily. Address is Radio Nezalezhnist, Ulitsa Vatutine 6, Lvov 290 005, the Ukraine. (WBI 10/11)

UNITED KINGDOM - *BBC* signed a landmark deal 10/9 to put World Service programs on Russian radio. The agreement, signed in Moscow by BBC World Service Managing Director John Tusa, and Oleg Potsov, Chairman of the All-Russian State Television and Radio Company, will have two 30-minute current affairs programs from BBC's Russian service on Russian radio each weekend from early 1992. They'll be fed to Moscow by satellite & rebroadcast simultaneously nationwide. John Tusa noted it was the first deal of its kind concluded between a western broadcaster and a Russian radio station, adding that it marks a new high point for the BBC's strategy of winning air time for its programs on domestic radio frequencies. (WBI 10/11, from a report on Radio Moscow World Service in English)

BBC World Service will begin broadcasts in Ukrainian next, with up to seven hours a week in the language. (WBI 10/18, citing a TASS report from London)

BBC World Service programs were disrupted for over an hour on Thursday 10/17 when its London HQ, Bush House, was evacuated because of a suspected major gas leak.

The fire alarms went off at the busiest times of the Bush House day, around 1800 UTC, when News Desk goes out in EE along with a variety of other languages. It's thought that this was the first time since WW2 that the entire World Service staff was evacuated. Staff congregated outside in their shirtsleeves as fire engines and ambulances stood by. Listeners heard emergency pre-recorded programming for over an hour. News staff rushed to BBC domestic radio HQ at Broadcasting House to set up an emergency newsroom, but before this could go on air the fire service had given Bush House the All Clear and staff began returning. The fire service now says that the offending gas leak was caused by chemicals being poured into the sewage system. (Peter Hyatt, BBC WS News Desk 0200 10/18 via mf)

USA - WWCR, Nashville, began its own media program, titled "Signals" the weekend of Oct. 5. The first broadcast was scheduled for the Monitoring Times convention Oct 4/6. Times and frequencies had not been announced as of 9/18. (Gary Bourgeois, Marquette, MI, on RNMN 9/19 via Mike Fern)

The VOA's new German svc is on SW from Munich on 3980 kHz from 0530-0600, repeated at 0630 on 1197 kHz MW. (Richard Dickson on RNMN 10/10 via Mike Fern)

The VOA is making steady progress on its plans for new relay bases overseas, according to Walter LaFleur, its director of engineering and technical operations.

WL: In 1981 we took the very grand program [for expansion] and faced [phased? df] it back to something that the Congress and Office of Management and Budget were more likely to support. At that time the centerpiece was our Morocco and Thailand stations, and those are coming along very well. The Morocco station's building is all but complete. We have ten Marconi transmitters that are in place. They have gone through the low-voltage testing on some of them. We expect them to start high-voltage testing pretty so on. It should be totally complete in the spring of 1993, although we are having a little bit of difficulty getting the antennas to the site in time.

JM: It's quite an amazing site, if I remember rightly, because you had to move earth to get the transmitter site there.

WL: That's right. The site that we were able to negotiate was a lake bed, and for several months of the year it's totally under water. So we had to, essentially, take a mountain down to build berms to put the antennas and the station on. I think ten million cubic meters of dirt were moved to provide this foundation, and they had to settle for a couple of years before we could start construction.

JM: So that's Tangier that's coming up, you say, in 1993. What else?

WL: In 1994 we'll have a station in Udorn, Thailand. It will be a seven-transmitter station with a good array of antennas for Asia.

JM: You've already got something in Thailand though. It's medium wave.

WL: Yes. We have one MW station and that's all. No shortwave. As you know, we've had very bad luck on the Liberia station. We've waited and waited, hoping to get back in to Liberia. We've about given up hope. So on an emergency basis we are putting four 100-kw SW transmitters into Botswana, and they should be operational, two of them in October and the other two in about March or so.

JM: Then you've got Sri Lanka

WL: We've reached agreement with the Sri Lankan government to rebuild our facility there. We'll be putting in three or more SW transmitters and an array of antennas.

We also plan to replace the 50-kw Botswana MW xmtr with one that will reach most of Southern Africa. It will be a 500-kw MW xmtr on the same frequency as we are now.

JM: So what's the long-term future? You're heavily investing in HF, aren't you? What about medium wave?

WL: Generally speaking, of course, as you know better than I, the MW receiver population is higher than the shortwave in most parts of the world. So where we can, we will invest in medium wave. However, shortwave still has to be the workhorse in many areas where the xmtrs are distant from the audience.

JM: You said that you're putting extra xmtrs into Botswana as soon as possible to increase the coverage left by the gap of Liberia. But what about long term?

WL: For the long term, Botswana cannot cover the continent of Africa. It's very, very large. We have some antennas looking south from Tangier. So we must find some other location. So we're shopping around for another shortwave location in Africa. If we should also be able to get medium wave out of the same station, that would be a bonus. But we are looking very hard to try to find some alternative.

JM: Are you participating in the Israel project?

WL: Well, we are going to be co-operator of the station if it is built. As you've previously reported, there are environmental issues associated with it, so the project is more or less on hold. We have been doing some alternative studies with RFE-RL to determine if there are alternatives

to Israel if the project simply can't start moving. (RNMN 10/17) 2 xmtrs at Botswana to test in October, broadcast operation should start about 11/11. Check the computer networks or VOA Fqy Division BBS (202-619-1494) for sked. I'll post it there when known. There'll be a special QSL available through the Washington address. (df)

USSR - Radio Tikhyy Okean (R. Pacific Ocean, for mariners) at 1939 9/12 in RR on 11690 kHz., the only freq found; ID at 2000. (Bruce MacGibbon on RJDXC 9/22 via Mike Fern)

Belo-Russia - Radio Belarus, Minsk, heard 0028-0100 10/14 and 10/15 (with IS and ID at start) in Belo-Russian on 11790, 15180, 17605 and 17690 kHz. 11790 and 17605 solid here; 15180 weak, 17690 under teletype QRM. List of broadcasts and frequencies at end of transmission. What I got was: 1930-2000 UTC to EU on 1215 MW (Kaliningrad), 7110, 7240, 9600 and 11970; 2230-2300 to EU on 6185, 7300, and 7420; 0030-0100 to NA on 11790, 15180, 17605 and 17690 kHz. Minsk gives its skeds in Moscow time, not UTC. Not likely to change NA sked 11/3 because R. Vilnius will keep the same four freqs after that date. (Mike Fern-CA)

RUSSIA - Ekho Moskvyy moved its sw fqy from 9535 to new 6165; sticking to Swiss fqys. The anncd sked is 0400-0700 and 1600-2000. (BBCM on SCDX 9/17) *R. Vedo*, Volgograd, has been heard signing on at 1500 on 17860 kHz. NF. (BBCM? on SCDX 9/17)

Russia's Radio is now only heard on shortwave as follows: 0000-0100 4895; 0100-0200 not heard; 0200-0300 5015, 9550, 16330 usb; 0300-0700 16330 usb; 0700-0800 9550, 9720, 16330 usb; 0800-1500 9720, 16330 usb; 1500-1600 16330 usb; 1600-1700 4820, 4895, 5015; 1700-1900 4485, 4820, 4895, 5015, 5290, 11770; 1900-2000 4485, 4820, 4895, 5015, 5290; 2000-2200 4485, 4820, 4895, 5015; 2200-2300 4895, 5015, 9210 usb; 2300-2400 4895, 5015, 5290, 9210 usb. (Mon.Research, WBI 9/27)

A further survey of freqs used by *Russia's Radio* shows addl sw fqys, such as 15365, 15255, 12045, 11935, 9550, 9525, 7175, 7105, during the period 0600-1500. (WBI 10/11)

Here come those St. Petersburg QSLs: A new station in St. Petersburg, *Radio Ala*, began broadcasting on MW and SW 10/1. Apart from news summaries, the station plays what it calls "Songs of the Birds," traditional Russian folk music. (Richard Measham and Andy Sennitt on RNMN 10/10) *Radio Ala* noted 10/1 on 7125 kHz at 0301. Same station heard at 0130 on 5040 10/4 & following nights. 7125 only positively IDd 10/1. Program consists of continuous music & RR station announcements. (WBI 10/11) The RMWS in Russian announced in the "DX Club" at 1330 10/6 that the station first went on the air at 2200 10/1. Sked given as 0730-1600 on 684, 1386 & 7400 kHz; 1630-0700 on 5040 kHz; 0700-1200 on 11925; 1200-1500 on 11920; 1530-0700 on 6055 kHz. Some frequencies to be changed in November. Transmitters on 684, 5040 & 7400 kHz are in St. Petersburg; the rest in Kaliningrad. *Radio Ala* plans to add relay stations in Yekaterinburg & Novosibirsk in the very near future, allowing reliable reception in Siberia & the Far East. The presenter said he knew the address, but would not give it because the station did not yet have staff to answer reports. (WBI 10/11) *Radio Ala* in St. Petersburg is being heard best in Europe at 1700 on 5040 kHz. (JM and friends on RNMN 10/17)

Radiostudiya Dvizheniye in Yekaterinburg (formerly Sverdlovsk) is broadcasting on 9695 kHz from *0500-1300*. It is intended as a traffic news service, but no MW frequency is announced. (Pavel Mihailov on Radio Moscow Russian WS DX program via Richard Measham of BBC Monitoring on RNMN 10/17) Founded by the Yekaterinburg branch of the Union of Journalists.

Aid to the Suffering Church, which funds *Radio Blagovest*, said it smuggled radio equipment hidden in trucks of food into the parliament 8/19, providing Russian President Boris Yeltsin equipment to communicate to supporters during the coup. WBI suggests this is a probably reference to Radio 3A, which operated from the Russian Parliament building. Viktor Aksjutsits, an MP & friend of the station's administrative officer Jose Correa, organized the operation and air force pilots loyal to Yeltsin helped establish a link between the transmitter and an antenna [and presumably also a transmitter - df] at Moscow airport so Yeltsin could make a radio address to the people of Moscow. (WBI 10/11, from an AFP news agency report out of Vatican City)

Radio DVR's W91 schedule took effect 9/29. It is: Tues-Sat 1000-1300 on 4060 USB, 5965 and 9560 kHz. Sakhalin Radio changed its schedule on Sept. *20*. It carries R. Rossii on 279 kHz MW, 4050 and 11840 kHz SW, and 67.64 MHz FM. Sakhalin Meteo (weather) is heard on 531 kHz MW. (Denis Jakov, Yuzhno-Sakhalinsk, USSR, on RJDXC 10/13 via Mike Fern) [PWBR 92, which went to press before the coup attempt, says 4050 and 11840 kHz are each 50 kw USB; PWBR says both were active 2000-1500 and carried R. Tikhyy Okean 0815-0900 under the old regime.--mf]

R. Magadan, in the Soviet Far East, has local programs, interval signal and music at 0800 on 9600 kHz; this xmtr also carries R. Anadyr at 0815. (Jeff Cozier, OZ-DX on DXPL 9/21 via Mike Fern)

R. Krasnoyarsk, 5290 kHz, [93 E 55 N] with home service in RR at 1400; local and Western pop music. (Jeff Cozier, OZ-DX on DXPL 9/21 via Mike Fern)

R. Samara, Samara, with transmitters at Togliatti, operates 0330-1630 on 6115 kHz and 1630-1900 on 11905 kHz. (Anatoly Klepov, USSR, via Speed-X 8/91 on DXPL 9/21 via Mike Fern)

Petropavlovsk-Kamchatskii, 4485 kHz, heard with good signals 0950-1015 10/8. Mixed music until 1000, then pause, then "Govorit Informatsi Radio Rossii", and 10-min newscast. No time tick or IS. Quality of relay was only fair; signal was near normal AM quality except for audio engineer's nightmare, obvious birdies in the background on a long-distance circuit. WRTH 91 says either All-Union #1 network or local programming from Petropavlovsk at this time before the coup attempt. Ufa at long. 57 E is in daylight between 1000-1300 UTC and its xmt on same freq should not be heard over long distances. (Mike Fern--CA)

Home Service feeders in Russian Far East heard on 4746 NF, 5970 and possibly 6065 kHz. between 0945-1030 10/8. (Mike Fern--CA)

The BBC signed an agreement in Moscow 10/9 to have BBC Russian Service programs carried on transmitters of *Radio Rossii* starting early in 1993. Two 30-min current affairs programs will be sent to Moscow via satellite each weekend, and rebroadcast simultaneously nationwide, reaching 70% of the population. Less than five years ago, BBC xmsns in Russian were heavily jammed. (Andy Sennitt on RNMN 10/10)

UZBEKISTAN - **R. Fergana**, 4510 kHz, from 1450 onwards, Tues thru Sat with local programs. (Jeff Cozier, OZ-DX on DXPL 9/21 via Mike Fern)

VATICAN - BBCM has heard *Vatican Radio* on new 5895 kHz to Eur 2030-0100. EE 2050-2110. VR is anncg 5935, the frequency that Vatican engineers submitted to the S91 frequency coordination meeting in Romania. The computer pointed out a clash with Riga on the same channel, so the Vatican gave way. (Andy Sennitt on RNMN 10/10 via Mike Fern)

Vatican Radio: European First Program in English at 0600-0620 to Eu on 6245, 7250; 0730-0745 Mo-Sa to Eu/ME/AF/Am on 6245, 7250, 9645, 15210; 1120-1130 to Eu/ME/AF/Am on 6245, 7250, 9645, 15210; 1715-1730 to Eu on 6245, 7250; 2050-2110 to Eu on 5895, 7250.

Other languages (to Europe, unless target given): 0250 Romanian, 0310 Bulgarian, 0330 Alba, 0345 Slovene, 0400 Croatian, 0415 Czech, 0430 Slovak, 0445 Hung, 0500 Poli, 0520-0540 G, all on 6245. 0540-0600 FF, 0620-0630 Italian, both on 6245, 7250. 0630-0700 (-0710 Su) Latin Mass, 0700-0715 Mo-Sa Italian, all on 6245, 7250, 9645, 15210. 0710-0830 Su Rel px on 6245, 7250, 9645. 0715-0730 Mo-Sa FF to Eu/ME/AF, 0745-0800 Mo-Sa AA to ME, both on 6245, 7250, 9645, 15210. 0830-0930 Su Mass in Italian on 6245, 7250; 0930-1100 Su Oriental Liturgy on 6245, 7250, 9645, 11740, 15210; 1100-1115 Su Angelus to Eu/AF/As/Au on 6245, 7250, 9645, 11740, 15210, 21515, 21650. 1100-1110 Mo-Sa Italian 6245, 7250, 9645, 15210; 1110-1120 FF 6245, 7250, 9645, 15210; 1115-1200 Su & 1300-1400 Italian both on 6245, 7250, 9645; 1400-1415 SS & 1415-1430 on 6245, 9645, 11740; 1500-1515 GG, 1515-1530 Polish, & 1530-1630 Su Rel px, all on 6245, 7250, 9645. 1530-1600 Italian (Fr) Music (Mo-Th/Sa), on 6245, 7250; 1600-1630 Mo-Sa vespers on 6245, 7250, 9645. 1630-1700 Italian, 1700-1715 FF, 1730 Albanian, 1745 Slovene, 1800 Croatian, 1815 Hungarian, 1830 Czech, 1845 Slovak, 1900 Polish & 1920-1940 GG, all on 6245, 7250. 1940-2000 Rosary on 6185, 6245, 7250, 7365, 9645, 11625, 15090. 2000-2010 Su Esperanto & 2000-2030 Italian, both on 6245, 7250, 11740. [Wonder how they do that? df] 2030-2050 FF, 2110-2130 SS, 2130-2145 PP, 2145-2200 AA, all on 5895, 7250. 2200-2310 Italian news on 5895. 2310-0100 music on 5895. (WBI 10/4)

The *European Second Program*: 0310 Armenian, 0330 RR, 0400-0415 Ukrainian, on 6185, 7365, 9755. 0420 Belorussian, 0440 Latvian, 0500 Lithuanian, 0520 Swedish, & 0540-0600(Th) Esperanto, all on 6185, 7365. 0600-0625 AA 9645, 11715, 15210; 0715-0845 Su Ukrainian liturgy, 0845-1000 Mass in Lithuanian, on 9755, 11715. 1330-1350 RR on 6245, 9645, 11740. 1700 Armenian, 1720 RR 1750-1810 Ukrainian, on 6185, 7365, 9755. 1810 Belorussian, 1830 Latvian, 1850-1910 Lithuanian, on 6185, 7365. 1910-1940 AA on 7365, 9645, 11740. 2000-2020 Mo Norwegian (Danish 1st Mo), Su/Fr Finnish, Tu-Th/Sa Swedish; 2020-2040 Romanian, 2040-2100 Bulgarian, all on 6185, 7365. 1100-2220 RR on 6175, 7365. (WBI 10/4)

Overseas Service: English 0145-0200 to Asia on 7125, 9650; 0250-0315 to NA on 6150, 7305; 0500-0530 to Af on 9695, 11625, 15090; 0630-0700 to Af on 9695, 11625, 15090; 1345-1415 to As/Au on 9600, 15090, 17525; 1545-1600 to As on 15090, 17865; 1600-1700 Mass in EE 1st & 3rd Su only, to As/Au on 15090, 17730; 1730-1800 to Af on 11625, 15090, 17730; 2000-2030 to Af on 9645, 11625, 15090; 2245-2315 to As/Au on 7305, 9600, 11830.

Other languages: 0030-0100 PP to Brz on 7305, 9610; 0100 Hindi, 0115 Tamil, 0130 Malayalam, all on 7125, 9650; 0100-0230 SS to LA on 7305, 9610; 0230-0250 FF, 0315-0400 SS, both on 6150, 7305. 0430-0500 Amharic/Tigre to Af on 9695, 11625. 0430-0500 FF, 0530-0600 PP, 0600-0630 FF, all on 9695, 11625, 15090. 1100-1130 P to Brz on 21485, 21845; 1130-1215 SS to LA on 17525, 21485. 1230-1315 CC 9600, 11625, 15090; 1315-1345 JJ 7305, 9600; 1415-1500 Viet 15090, 17525. 1500 Hindi, 1515 Tamil, 1530-1545 Malayalam, all on 15090, 17865. 1630-1700 Amharic/Tigre to Af on 15090, 17730. 1700-1730 FF, 1800-1830 PP, both

to Af on 11625, 15090, 17730. 2030-2100 FF to Af on 9645, 11625, 15090; 2130-2200 JJ, 2200-2245 CC, both on 6185, 7305. 2315-2400 Viet on 7305, 9600. (WBI 10/4)

VENEZUELA - *R. Continente*, Caracas, 5030 kHz, returned to the air 8/20 with 7.5 kw; poor signals. Also heard on 4865-4870 with severe distortion. (Jairo Salazar, Venezuela, in Radio News on DXPL 10/13)

VIETNAM - *The Voice of Vietnam* started a regular English lesson broadcast for home listeners on 9/7. It has also begun broadcasting in Miao, a local language of the region. [No connection at all with Siamese or any other cats.--mf] According to the Vietnamese daily Nhan Dan for 9/7, the EE lessons, carried on FM only, are produced jointly by the *Voice of Vietnam* and *Radio Australia*. They are scheduled at 1230-1300 on Hanoi FM, 100 MHz, whose schedule is 0000-0400 and 1000-1600.

News in Miao is broadcast on 5020 kHz [Hanoi?--mf] for North Vietnam and 6560 kHz [no QTH given] for Northwest Vietnam. Both frequencies are in use from 2200-2330, 0430-0600, and 1100-1330. Miao is scheduled at 2200-2230, 0500-0530, 1200-1230 and 1300-1330. The rest of the sked is in Vietnamese. (Isao Ugusa on RJDXC 10/6 via Mike Fern).

YUGOSLAVIA - *Radio Yugoslavia* in English at 0230-0315 to Am on 9555, 11735; 1230-1300 to As/Au/Am on 17710, 17740, 21605; 1930-2000 to Eu/Af on 6100, 15140; 2200-2245 to Eu on 6100, 9505.

Other languages: 0000-0030 SS to Am on 9720; 0130-0200 Serbo-Croatian to Am on 9555; 1600-1645 RR to Eu/As on 6100, 15175; 1700-1730 FF to Eu/Af on 11750, 15175; 1730-1815 GG to Eu on 9620; 1815-1900 AA to ME/Af on 7250, 11750; 1900-1930 RR to Eu/As on 6005, 7165; 2000-2030 SS to Eu on 7220; 2030-2100 GG to Eu on 6100; 2100-2130 Serbo-Croatian to Eu/Au on 6100, 9720; 2130-2200 FF to Eu/Af on 6100, 15180. [Does not include broadcasts from *Macedonian Radio*, via *Radio Yugoslavia* transmitters.] (WBI/10/4)

ZAIRE - *R. Candip*, Bunia, 5066.4 kHz., heard often in Denmark // 3390.1 kHz. 1830-1900. *La Voix du Zaïre, Lubumbashi*, 7203.1 kHz. heard from 1840-2001 signoff; programming in FF with African music. (Finn Krone on DXPL 9/21 via Mike Fern). *Bukavu* on 4848v kHz and *Mbuji-Mayi*, 7295 kHz, also active. (Chris Greenway, Kenya, on DXPL 9/21 via Mike Fern)

CLANDESTINE -- ANGOLA - *A Voz da Resistencia do Galo Negro* (The Voice of the Resistance of the Black Cockerel) is scheduled: 0445-0830 in P on 9700 & anncd 7295; 1100-1430 PP & vernaculars on 11830 & unconfirmed 9850; 1800-2315 on 7100 & 4880. (WBI 10/18) . *-IRAN Flag of Freedom Radio* anncd new sked from 9/23: 1630-1830 on 15100 & 15560, repeated at 0330 on 19 & 31 mb. Also at 1400-1445 on 15100, repeated at 0645 on 15100 kHz. BBCMS notes, however, that the 1630 bcst was found 9/23 on 15105 & 15555 kHz. (WBI 9/27)

The *Voice of Iranian Kordestan* on 9/21 announced a revised schedule: Kurdish at 0900-1000, repeated at 1530 & 0430; Persian 1000-1030, repeated at 1630. Frequencies not given, just 41 & 75 meter bands. (WBI 9/27) The 41 mb fqy has been increased to 10 kw, according to an announcement in Arabic 10/10 at 1715. (WBI 10/18) The station observed on 3930 kHz at 1655 10/12. At 1800 carried a program in Turkmen, which IDd as Radio Iraqi Turkmen. (WBI 10/18)

-HAITI - The BBC WS correspondent in Haiti reported on News Desk 10/15 that a two-day general strike in Port-au-Prince had been organized and coordinated by President Jean Baptiste Aristide and his supporters. A clandestine transmitter in the Dominican Republic was used Sunday 10/13. Aristide has his headquarters in Venezuela, where interviews with him were taped. The strike was scheduled for Monday 10/14 and Tuesday 10/15. Leaflets distributed in Port-au-Prince promoted the clandestine broadcasts. Most stations in Haiti are either silent or carrying only music. It seems a clandestine FM station may have broadcast in the Haitian capital on Sunday night, featuring music by pro-Aristide folk singer Charlemagne (sp?). Charlemagne was arrested 10/11 for alleged incitement of violence. (BBC News Desk at 0000 and 0200 10/15 and JM on RNMN 10/18 via mf) [No frequencies given in either story; I believe Radio Clarin had a 60m freq listed some years back.--mf]

BOOKS - The British DX Club has published the 10th edition of "Radio Stations in the United Kingdom." All British AM and FM stations are listed in frequency order, both BBC and independent, including location and transmitter power. A reference section gives each station's mail address and phone number. Other items include background info on the BBC and IBA, special events stations, test and development licenses, unofficial radio, and reception reporting. Write to: British DX Club, 54 Birkhall Road, Catford, London SE6 1TE. The price is two pounds, or five IRC's, or US\$4.00. Worth it if you plan to visit the UK. (DXPL 9/21 via Mike Fern)

--- Opinions I express are mine, not VOA's. I work there, but don't represent them here. (df)

QSL Reports

Sam Barlo
47 Prospect Place
Bristol, CT 06010



ABU DHABI: UAE Radio 17855
f/d folder QSL w/ schedule in 43 ds. for 2 IRCs. v/s Ahmed Shouly. (Carson).

ALBANIA: Radio Tirana 9375
f/d cd. (actually a piece of paper tacked to a postcard) in 4 mo. w/ schedule. (Dieterich),

ANTIGUA: Deutsche Welle 9670
f/d "Transmitter Map" cd. w/ "Tune In" magazine in 21 ds. (Galgano-NY).

ARGENTINA: RAE 15345 cd. in 92 ds. w/ personal note from Silva Sayus, English Dept. and Marcela G.R. Campos, Director. (Livingston).

ARMENIA: Radio Yerevan 17690 f/d cd. in 3 mo. (Boulden).

ASIATIC RUSSIA: Radio Moscow 13605 and 15425 via **Petropavlovsk-Komchatskie** f/d cd. in 1 mo. (Boulden). 17890 via **Irkutsk** f/d cd. in 6 wks. (Boulden). 15280 via **Zhygulyovsk** f/d cd. in 6 wks. (Boulden).

AUSTRALIA: VNG 16000 f/d folder and personal ltr. in 15 ds. (Mann-NE).

VLM 4920 f/d ltr. in 6 mo. for 1 IRC. v/s Thomas A. Rowan, Transmission Manager. (Boulden). **VLW15 15425** f/d cd. in 3 wks. for 1 IRC. (Boulden). **Radio Australia 21525** via **Darwin** f/d ltr. in 19 ds. (Boulden). **VLO 9660** via **Brisbane** n/d cd. w/ p/d ltr. in 3½ mo. for 3 IRCs.

BARBADEOS: Radio Netherlands 9590 f/d "Faces Behind the Voices" cd. in 1 mo. w/ sticker and schedule. (Millard-TX). (Christensen).

BRASIL: Swiss Radio International 17730 via **Brasilia** f/d "Solothurn" cd. in 1 mo. w/ schedule. (Millard-TX).

BULGARIA: Radio Sofia 15330 f/d cd. in 40 ds. Also rcvd. a ltr. stating that until recently the actual transmitter sites were a highly classified state secret! Site not on my QSL. Hi! (Rigas-IL).

CANADA: CKZU 6160 f/d "CBC Radio Centre" cd. in 8 ds. for \$1.00. (Fanderys-OH).

CANADA (Pirates): Radio Merlin International 6240 f/d cd. in 78 ds. for 1 IRC. Addr: P.O. Box 293, Merlin, Ont. NМ3 1W1. (Dieterich-GER).

CHINA, PEOPLES REP. OF: Yunnan PBS 4760 p/d cd. w/ ltr. in 30 ds. after a f/up rpt. (Hazzard-PA). **CPBS-1 12120** f/d cd. in 30 ds. (Hazzard). **Bei Menqqu PBS 6974** p/d ltr. in 75 ds. after 3 f/up rpts. v/s Zhang Xiang-Quen, Secretary. (Hazzard-PA). **Radio Beijing 17705** f/d "Embroidered Cloth Ornament" cd. in 57 ds. w/ paper cuts in 57 ds. (Levison-PA).

CUBA: Radio Moscow 11840 via **Habana** f/d cd. in 7 wks. (Boulden). **Radio Habana Cuba 11760** f/d cd. in 9 mo. (Boulden).

CYPRUS: BBC 21740 f/d cd. in 3 mo. for 1 IRC. (Boulden). **Cyprus Broadcasting Corporation 7180** f/d "Broadcast Building" cd. in 7 mo. for \$1.00. (Mann-NE).

CZECHOSLOVAKIA: Radio Praha 7345 f/d "Orlik Chateau" cd. in 28 ds. w/ schedule and sticker. (Levison-PA).

ДАЛЬНИЙ ВОСТОК РОССИЯ
RADIO STATION

FAR EAST RUSSIA Khabarovsk

date	friquensy	mode	UTC
2nd April '91	9560 5965 4060	AM AM SSB	0924-0968

QSL TO Gordon Darling 73!





NOTES: Chuck Roswell sent along an interesting USPO Rates and Fees chart for redeeming IRCs. It is somewhat confusing as to the price, either 4.50 or \$.70 each. It would "pay" anyone who uses the international mails on a daily basis to obtain USPS Publication # 51. It should be available at your post office...Sam. Don Hoemer has left for Europe and some great DX. He says that he has Dxed Radio Caroline on 6215 from his bathroom with only the built-in whip on the Sony SW-1. (What did you use for a ground?) Have a great trip Don...Sam. Mike Hardester sent in some great longwave QSLs from OX-360 on Bonin Island and UCM-370 in Cuba.

Ecuador: HCJB 15155 f/d "1983 Issue of HCJB Transmission Facility in Pifo" cd in 35 ds. for 1 IRC. Rcvd. 60th anniversary pennant. v/s Roger Stubbe. (Carson). Radio Nacional Espejo 4680 full color postcard of "Mt. Cotopaxi" w/ date and stamp in

4 mo. after a f/up rpt. (Lobdell-MA). Radio Federa-
cion 4960 p/d ltr. in 30 ds. for a SP rpt. and ms. v/s Prof. Albino M. Utitaj. (Hazzard-PA). Ecos del Oriente 3270 f/d "Diploma de Honor" in 5 mo. for a SP rpt. after a f/up rpt. (Lobdell-MA).
ENGLAND: BBC 17695 n/d ltr. explaining the non-QSL policy in 18 ds. for a prepared cd. sent to the Cumbria transmitter site. (Galgano-NY).
ESTONIA: Radio Tallinn 5925 f/d cd. in 45 ds. after a f/up rpt. for \$1.00
EURO PIRATE: Radio Marabu 6315 f/d cd. w/ station info. (Hazzard-PA).
 * in 53 ds. for ms. (Dieterich-GER). Free Radio Service Holland 15046 f/d orange cd., newsletters, stickers and a personal ltr. in 4



mo. v/s Peter V. addr: P.O. Box 2727, 6049 Herten, Holland. (Lobdell-MA). Live Wire Radio 15050 f/d fluorescent red cd. in 27 ds. for \$1.00. via Dublin address. v/s Bill Lewis. Also rcvd. station info., stickers, etc. (Zeller-OH).
Radio Fax 6205 f/d red/tan "Logo" cd. in 13 ds. for \$1.00. via Cranleigh address. v/s Trevor Brook. Also rcvd. station info. (Zeller-OH).

EUROPEAN RUSSIA: Radio Rosii 15630 f/d cd. in 55 ds. (Rigas-IL). Radio Beijing 7170 via Moscow f/d cd. w/ site and power as 25 kws. in 30 ds. (Rigas-IL). Radio Moscow 21785 via Arnavir f/d cd. in 11 mo. (Hosmer-MI). 15550 and 15560 via Tula f/d cd. in 11 mo. (Hosmer). 15520 via Zhigulyovsk f/d cd. in 11 mo.
GABON: Radio Japanb 15355 via Moyabi n/d cd. in 102 ds. (Hosmer-MI). Also rcvd. schedule and stickers. (Dieterich-GER). Africa No. One 9580 f/d ltr. in FR in 234 ds. for 3 IRCs. (Kurras-NY).
GEORGIA: Radio Moscow 17790 and 21725 via Tbilisi f/d cd. in 11 mo. after a f/up rpt. (Hosmer-MI).

GERMANY: Sudwestfunk 7265 f/d "Sunset" cd. in 147 ds. for \$1.00. (Mann-NE). Bayerischer Rundfunk 6085 f/d "Logo" cd. in 12 ds. (Prisco-PA).
GHANA: Ghana Broadcasting Corporation 4915 f/d "Golden Jubilee" cd. in 46 ds. Schedule was rcvd. (Livingston). same in 159 ds. for a taped rpt. and \$1.00. Schedule was rcvd. (Fanderys-OH).

NOTE: Be sure to write your name after each item.



MINISTRY OF INFORMATION AND BROADCASTING
P.O. BOX 104K, NAIROBI



Telephone: 334567
Telegrams and Cables: "VOKENG" Nairobi.

VOICE OF KENYA

FROM THE STATION ON THE EQUATOR

QSL



via Prisco

Ref. your reception report dated 8/6/91 Date 2nd July '91

We confirm with pleasure your reception report of our transmission in English in the short-wave-band at the following times 02.04-02.35

The transmission was carried on 4934 kilohertz and this was our good morning "KENYA" programme.

You may like to listen to our other transmissions carried on Kilohertz -

CARTE QSL

تقرير استماع

Date: 11 Nov 1979
 Time: 11:00 AM
 Frequency: 99.7 kHz
 Station: WJLA-TV
 Operator: [Name]
 Mode: FM
 Signal: 4
 Rpt. Quality: 4
 Propagation: V
 Antenna: [Type]
 Name: [Name]



M
 MR. KRIS M.L. FIELD
 431 BABYLON ROAD
 AMBLER, PA 19002-2302
 U.S.A.

ORIM-Mauritania

GREECE: Voice of Greece
 9395 f/d "Aegean Sea"
 cd. w/ schedule in 37
 ds. for \$1.00.(Galgano-
 NY). 9420 f/d cd. in 24
 ds. after a f/up rpt.
 (Mayberry-TX).

GRENADA: Radio Free Grenada
 15045 f/d prepared cd.
 in 265 ds. for a 1979
 reception. v/s John
 Phillips, Senior engineer.
 (Mann-NE).

GUAM: KSDA 13720 f/d cd.
 in 2 mo. w/ stickers &

station info. for 1 IRC.(Boulden).

HAITI: Radio Station 4VEH 4930 f/d cd. w/ station info. in 3 mo. on my
 third try for ms. v/s Mardy Picazo.(Hazzard-PA).

HONG KONG: BBC 15280 f/d cd. in 2 mo.(Boulden). 17830 f/d postcard in 1
 mo. direct from site for \$1.00.(Lobdell-MA).

NOTES: Mike Hardester has finally moved into his new house. Recent band scans have re-
 vealed carriers on 120 meters and much lower QRM levels than when he was in the bar-
 racks. Mike also says that if he wants to get QSLs he had better start to send out a
 few reports...This makes sense...Sam. **Carl Mann** passes on an interesting note re-
 garding the VOA QSL policy. He says that he was told by a friend who visited the VOA
 sites that one would have a better chance at a QSL if the report was sent
 directly to the site. The address for the Bethany site is as follows:
 Mr. John Vodenik (WB9AUJ), VOA Bethany Relay Station, Box 227,
 Mason, OH 45040....Thanks for the tip...Sam.



HUNGARY: Radio Budapest 9585 via Szekesfehervar f/d cd.
 w/ site in 35 ds.(Rigas-IL).

INDIA: All India Radio 11620 via Aliqarh f/d "Royal
 Couple on Camel" cd. in 171 ds.(Fanderys-OH).

IRELAND: Radio Fax 6205 f/d cd. w/ station info. and a
 personal ltr. in 14 ds. for a taped rpt. and \$1.00.
 Also under EuroPirate. (Kurrasch-NY).

KAZAKH: Radio Moscow 17720 via Alma Ata f/d cd. in 60 ds.
LITHUANIA: Radio Vilnius 17690 f/d "Land (Hazzard-PA).
 of Amber" cd. w/ schedule in 193 ds.(Mayberry-TX).

7400 f/d cd. in 202 ds. after personal visit to the
 station. (Goslow-MA).....Thank you for the very nice
 letter and enclosures...Sam.

LUXEMBOURG: Radio Luxembourg 6090 f/d cd. w/ DJ photos and station stick-
 ers in 17 ds. for 1 IRC.(Galgano-NY).

MALTA: Deutsche Welle 9565 f/d cd. in 168 ds. v/s Peter Senger.(Fanderys-
 OH). **Voice of The Mediterranean** 9765 f/d cd. in 7 mo. for \$1.00.(Mill-
 ard-TX). f/d cd. in 37 ds. for ms.(Kremer-IN).

MONACO: Trans World Radio 9480 f/d "Logo and Globe" cd. in 68 ds. for 3
 IRCs. Station pennant was rcvd.(Carson).

NEW GUINEA TERRITORY: Radio Madang 3260 f/d ltr. in 51 ds. after a f/up
 rpt. v/s J.S. Valakvi, assistant Station Manager.(Hazzard-PA). **Radio**

Verification Card

Dear Mr. HeIm

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 11.42 on 99.7 kHz on May 27 1979

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

Yours sincerely,

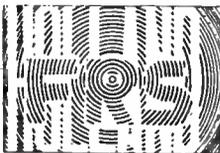
The Radio-Television Broadcasting
 Committee of the DPRK, Pyongyang

Simbu 3355 f/d pre-
 pared cd. w/ person-
 al ltr. in 2 mo.
 after my 3rd try for
 SASE direct to the
 station. v/s Gabriel
 Paiao, Station Techni-
 cian.(Hosmer-MI).
**Radio Eastern High-
 lands** 3395 p/d ltr.
 in 45 ds. after a
 f/up rpt. for ms. v/s
 Paia Ottawa, Techni-
 cian.(Hazzard-PA).

Free Radio Service Holland

INT MUSIC RADIO ON 41/48M

TO Chris Lobdell
TIME 00.58-02.27 utc
DATE May 12th 1991
FREQ. 15046 KHz
SINPO 14411



POWER 50w
AERIAL 1/2 WAVE dipole

p/d cd. w/ personal ltr. and stickers via registered mail in 219 ds. for \$1.00 and a SP rpt.(Mann-NE).

POLAND: Radio Polonia 11840 "View of Warsaw" cd. w/ personal ltr. in 106 ds. v/s Jacek Detko, English Section Editor.(Livingston).

NEW ZEALAND: Radio New Zealand International 17770 f/d "Sport in New Zealand" cd. w/ pennant and schedule in 32 ds. for 4 IRCs. (Carson).

PAKISTAN: Radio Pakistan 21480 ltr. of acknowledgement in 50 ds. v/s Syed Abrar Hussain, Frequency Management. (Livingston).

PERU: Radio Cora 4915

VERIFICATION SIGNERS: Radio Nacional de Angola 5498 Bernardino Silva e Costa, Sector de Opiniao Publical ...and...Cesar da Silva, Director de Programas. Radio Guarani Breno Guerra. Radio Cultura de Sao Paulo Thais de Almeida Dias, Chefe de Producao e Programacao. Radio Moscow (Havana Relay) Manolo de la Rosa, Producer Diexista.....via PLAY/DX.

PORTUGAL: YOA 9565 via Gloria f/d cd. in 16 ds.(Rigas-IL). Radio Portugal 9555 f/d cd. w/ decal and schedule in 5 mo.(Boulden).

ROMANIA: Radio Romania International 11940 f/d cd. w/ schedule and personal ltr. in 80 ds. (Galgano-NY). 15250 f/d "Folk Costume" cd. in 107 ds. w/ schedule.(Livingston).

RWANDA: Deutsche Welle 7225 f/d cd. in 2 mo.(Prisco).

SINGAPORE: BBC 11955 f/d "Transmitter Site" cd. direct from site in 16 ds. for \$1.00. (Kurrasch-NY).

SRI LANKA: Deutsche Welle 21650 via Trincomalee f/d cd. w/ site in 30 ds.(Rigas-IL). Radio Japan 15345 f/d cd. w/ schedule, calendar, newsletter and a wall map in 1 mo. v/s Kunitoshi Hishikawa who is also a NASWA member. (Boulden). Sri Lanka Broadcasting Corporation 15120 f/d cd. in 9½ mo. for ms. after a f/up rpt.(Kremer-IN).

SWEDEN: Radio Sweden International 21500 and 9695 f/d cd. w/ schedule in 15 ds.(Christensen-ALB).

SWITZERLAND: Swiss Radio International 9885 f/d cd. w/ schedule and station info. in 56 ds.(Christensen-ALB).

TADZHIK: Radio Moscow 15295 via Dushanbe f/d cd. in 11 mo. after a f/up rpt.(Hosmer-MI).

TURKEY: Voice of Turkey 9445 f/d "Vase" cd. in 68 ds. w/ schedule for \$1.00.(Galgano-NY).

UKRAINE: Radio Moscow 17810 via Vinnitsa f/d cd. in 11 mo. after a f/up rpt.(Hosmer-MI).

USA: Voice of America 17800 via Bethany f/d cd. w/ personal ltr. in 2 wks. v/s John Vodenik. Addr: P.O. Box 227, Mason, OH.45040.(Lobdell-MA). WWCR 7435 n/d cd. w/ schedule in 21 ds. after a f/up rpt.(Mayberry-TX).



РАДИО МОСКВА

Dear Mr. Field,

This verifies your report on the of Radio Moscow's broadcast in English

Date 10.6.1991

Time 02.00 UTC

Frequency 11780 kHz/via Tbilisi/

Best wishes from Radio Moscow
11710 kHz/via Kazan/; 11850 kHz/via Vinnitsa/

USA: Voice of Free China 5950 via **WYFR** f/d "Art Work by Orphans" cd. w/ magazine and sticker in 24 ds. (Levison).
KVOH 17775 f/d "World Map" cd. in 22 ds. after a f/up rpt. v/s Pat Kowalick. Also rcv'd. a personal ltr., sticker, book and a schedule. (Mayberry-TX). **WRNO** 7355 "Special Louisiana State Tourism" cd. w/ sticker and travel brochures in 106 ds. for SASE. (Weber-OH).



USA (Pirate): WKND 7415 f/d cd. w/ ltr. and promo sheets in 6 wks. from the Blue Ridge Summit address. (Lobdell-MA). **Radio**

Free Massachusetts 7415 rcv'd. a red, 2nd anniversary cd. in 1 mo. from v/s H.V. Short. The card is actually a photographic print on Kodak royal paper. This was for 3 ms. (Lobdell-MA). **Radio Free New England** 7415 f/d mimeo ltr. in 1 mo. for 3 ms. from the Wellsville, NY address. (Lobdell-MA). 7420 f/d "New England Map w/ Station Logo" info. sheet in 15 ds. (Zeller-OH).

UZBEK: Radio Moscow 21845 via **Tashkent** f/d cd. in 60 ds. (Hazzard-PA).
VATICAN: Radio Vatican 11830 f/d "Pope John Paul II" cd. in 53 ds. for 2 IRCs. (Carson).

YUGOSLAVIA: Radio Jugoslavija 9620 f/d "Hotel Park" cd. in 29 ds. for \$1.00. (Kurrasch-NY).

NOTES: Don Hosmer has returned from Europe where he has logged Croatia on their own transmitter. He got some great HCB QSLs from Wales and Ireland. By the time you read this Don will of closed on the cabin and started to erect a few antennas. Wish I was there...Sam. **James Galgano** noted that he recently received QSLs from the Voice of Greece and the Voice of Turkey on the same day. The envelope from Turkey was cut open on the side and also cut the QSL. Is there some sort of censorship prior to arriving in the US? **Vern Livingston** sent in a very nice letter. He uses a Grundig International 400 Satellit along with an Alpha Delta DX-SWL 90-13 meter sloper.....Sounds pretty good...Sam.

ACU Jump
 LETUJOS
 RADIAS
 IR
 TELEBIZIT
 Sam

Till next time best of DXing and keep the mailman busy...Sam.

**Your
 Sound
 Alternative**

FEBC
RADIO INTERNATIONAL
 BOX 2041 MANILA, PHILIPPINES

Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



- 2260.1h MEXICO, R. Fiesta, 9/29, 0215-0245 "La Fiesta" jingles, IDs, harmonic of 1130 kHz. XECHG, also rptd last month on 3390, another harmonic. (Alexander-PA)
- 3235 BRAZIL, R. Clube de Marilia, 10/1, 2358 tlk and ID. (Johnson-MD)
- 3275p PAPUA, R. Southern Highlands, 9/16, 1032-1051 Pidgin, EZL mx, tlk, vg PNG day. (Hazzard-PA)
- 3290 NAMIBIA, NBC, 9/27, 0132-0205 nonstop easy pops, ID in EG 0200 (Hazzard-PA)
- 3300 GUATEMALA, R. Cultural, 9/21, 1050-1115 rel pgm, "Despertando con Cristo," IDs, etc. (Newman-IN)
- 3365 CUBA, R. Rebelde, 9/16, 0901 tlk by M&W, LA mx //5025. (Grenier-NV)
- 3395 NEW GUINEA, R. Eastern Highlands, 9/17, 1050-1104 island vcls, ID 1059, vocals, SIO=252 (D'Angelo-PA) 10/1, 1050 lcl mx, drums & bird IS 1100, nx by W (Johnston-KY)
- 3904.8 SUMATRA, RRI Banda Aceh, 9/26, 2318 peak w/lively Indo pops, tlks, vcls, chime IS 2330, nx //4002.7. Ujung Pandang 4753.3 audible 2130--nearly 2 hours before sunset! (Clark-ON)
- 3905t NEW IRELAND, R. New Ireland, 9/6, 0952 anmts in PD, tlk, chimes & nx 1000, best in USB, ham QRM (Karcheski-MA)
- 3925 JAPAN, R. Tampa, 10/1, 1136 tlk in JP by M (Grenier-NV)
- 3980 WEST GERMANY, VOA via Munich, 10/11, *0530 IS, ID, nx & features, SIO=343 (Kurrasch-NY)
- 4050 KIRGHIZIA, All Union 1st Pgm, 10/2, 0055 tones & //5015 with IS and s/on (Johnson-MD)
- 4260t PARAGUAY, unid, 0900-1030, weak. Barrera rpts LV de Misiones, San Juan Batista Misiones here, maybe harmonic. (Berg-MA)
- 4433.2p SUMATRA, RRI Bukittinggi, 9/26, 2251 w/tlk. This one rptd by Asian/Australian DXers seeming to replace 4911. (Clark-ON)
- 4600 IRAQ, Baghdad here 10/2 at 0227 w/good sig. NA, tlk in AR, call to prayer (Orr-VA)
- 4695nf CLANDESTINE, R. Patria Libre, 9/15, 0029-0104* tlk, IDs, mx, s/off w/part of Colombian NA. (Alexander-PA)
- 4725 MYANMAR, Vo Myanmar, 9/29, 1144 fair w/tlk by W, then M 1145. Army st on 6570 also quite good (Clark-ON)
- 4745 CUBA, R. Moscow relay, 10/2, 0303-0330 SP and 0354-0440 RS, econ tlks, mx, folk & jazz, IDs (Jordan-PA) 9/29, 1050-1101 RS tlk, poor mod (Hazzard-PA) Also 9/29 at 1056 (Renfrew-NY)
- 4755 BRAZIL, R. Educacao Rural, 9/27, 0140-0215 PT IDs, ballads, love songs, SIO=252 (D'Angelo-PA)
- 4753.3 SULAWESI, RRI Ujung Pandang, 9/29, 2120 improving sig, tlk & mx 2135, Jak nx 2200 to NA 2209. (Clark-ON) Sorry this out of order--sp.
- 4760 VENEZUELA, R. Frontera, 9/14, 0158-0202 ID, tlks (Prisco-PA) 9/14, 0305-0315* ID, closing anmts, vcl NA (Alexander-PA)
- 4765 BRAZIL, R. Rural, 10/1, 0127 with 2 IDs before 0200. This possible w/R. Moscow move to 4745 (Johnson-MD)
- 4765 CONGO, RTV Congolaise, 10/3, 0440-0515 tlks, Afr. mx, pops, jazz, nx (Jordan-PA) 9/6, 2217-2237 ID, tlks, ment Congo natl assembly, mx (Spat-NH) 9/25 2210 strong sig & 9/25, 2247 w/Afr. mx, FR tlk, ment Congo, Brazzaville, Zaire. (Renfrew-NY) 10/11, 2233 world mx, ID, TC, ment "R. Congo Intl" (Orr-VA) 9/21, 2235 ID, NA //5985 (Alexander-PA) 9/25, 2251 upbeat mx, nx, SIO=433 w/QRN (Kurrasch-NY)

- 4770 NIGERIA, R. Nigeria Kaduna, 9/15, 0435-0450 EG rel tlk, "Christian Moment of Prayer," sked, pop mx (Jordan-PA) 9/25, 2225 pop mx, tlk abt depression, ID, nx (Johnston-KY) 9/7, 2239 mx, ID 2244, s/off anmts, NA, severe QRM from Congo (Spat-NH) 9/24, 2254 EZL mx, ID, TC, lcl nx, NA 2301* (Johnston-KY)
- 4780t DJIBOUTI, R. Djibouti, 8/18, 0301 in presumed Somali w/tlk, long chants, best in ISB to avoid CW QRM (Karcheski-MA)
- 4790 PERU, R. Atlantida, 9/16, 0920-0930 Andean mx, many IDs. (PISCO-PA)
- 4810 SOUTH AFRICA, R. Orion, 9/27, 0117-0135 "Baby I Love You" "Starting all over Again," ID 0130. (Wallace-CT) 9/29, 0045-0115 ID, "Here's the wx forecast for downtown Johannesburg," fair. (Tabatowski-IN) 9/28, 0220-0300 light pops (Lightfoot, McCartney), EG IDs (Renfrew-NY) 9/26, 0405 AK tlks, nx, piano mx (Grenier-NV) 9/8, 2253 class mx, "Stormy Weather," and phone number, wx rpt, song "You're the Voice." (Spat-NH)
- 4820 HONDURAS, LV Evangelica, 9/28, 0240-0310 gospel rock mx, ads for rel festivals, ID 0301 (Newman-IN) 9/19, 1136 tlk by M in SP (Grenier-NV)
- 4820.8 PERU, R. Atahualpa, 10/10, 0901-0932 huaynos, M w/IDs, TC, great mx, great sig (Orr-VA)
- 4830 VENEZUELA, R. Tachira, 9/13, 0305 tlks, LA mx, (Gold-NJ)
- 4835 GUATEMALA, R. Tezulutlan, 9/9, 1100-1115 mx, ID 1106, good (Tabatowski-IN)
- 4835 MALI, RTV Malienne, 9/25, 2320 tlk, ID, SIO=333 (Kurrasch)
- 4837.6v MAURITANIA, ORTM, 9/22, 0734-0800, tlk, AR mx, drifting 100 hz every 2 min. (Alexander-PA)
- 4845y GUATEMALA, R. K'ekchi', 10/12, 0138-0211 light rel mx, TC, IDs, annmts (Orr-VA)
- 4845p MALAYSIA, RTM Kuala Lumpur, 10/5, 1108 ending nx, subcont mx, tlks, severe QRM. 1st time in awhile, no sign of Ambon or Guatemala, undistorted sig too (Clark-ON)
- 4845 MAURITANIA, ORTM, 9/5, 0627 AR IS, ID, Qur'an, ID & tlk pgm (Spat-NH) 9/17, 0635-0710 call to prayer, ID, interview, SIO=353 (Cox-OR) 9/26, 2319 lengthy tlk, ID 0000, SIO=333 (Kurrasch-NY)
- 4850 CAMEROON, CRTV Yaounde, 9/5, 2221 tlk by W hairdresser in Douala abt spiked hair, tlk abt hairdresser meetings in Douala and Yaounde, IDs (Spat-NH) Good to have your logs in here--nice details too--sp.
- 4850.6 ECUADOR, R. Luz y Vida, 9/28, 0315-0342* LA mx, lite instls, s/off w/HC NA, weak. (Alexander-PA)
- 4850 UZBEK, Tashkent, 9/29, 0110 RS tlk, tones, lcl pgm w/Govorit Tashkent ID, class mx. (Johnson-MD)
- 4855.7 SUMATRA, RRI Palembang, 9/26, 2243 good sig, tlk, lcl ID 2246, RRI ID, mx, best Sumatran on 60m! (Clark-ON)
- 4863.8 MOLUCCAS, RRI Ambon, 9/29, 2130 fade in, mx, tlk by W, het on 4874.6 Sorong. Ambon absent here last 2-3 weeks. (Clark)
- 4865 COLOMBIA, LV del Cinaruco, 9/5, 0904-0921 TC, ID, rooster crow, tlks, ment Arauca, SIO=555 (Spat-NH)
- 4866p IRIAN JAYA, RRI Wamena, 9/18, 1045-1057 nonstop PNG high-land mx (Hazzard-PA)
- 4870 BENIN, ORTB, 9/17, 2223 FR mx, tlk, ID. SIO=333 (Kurrasch)
- 4874.6 IRIAN JAYA, RRI Sorong, 9/18, 1058-1145 ID, C&W mx, 1131 tlks (Hazzard-PA)
- 4875 BRAZIL, Rdf. Roraima, 9/25, 0057 tlks, W vcls, ID 0102. (Johnson-MD) 9/13, 0100 tlks, mx (Gold-NJ)
- 4880 BANGLADESH, R. Bangladesh, 9/29, 1156 subcont mx, weak but clear (Clark-ON) Also 9/26, 1208 tlk, 1st audio this season (Clark-ON)
- 4881.2 INDONESIA, unid, hrd most days by Bryant and myself, off 1202 9/19 but still on 1210+ 9/21 (Clark-ON)
- 4885 BRAZIL, R. Clube do Para, 10/7, 0430-0510 pop mx, ID 0500, fair sig (Tabatowski-IN) We've got reporters Tom Tabatowski and Tom Laskowski, both from Indiana--sp.

- 4885 BRAZIL, R. Clube do Para, 9/13, 0140 tlks & LA mx (Gold-NJ)
- 4890 SENEGAL, ORTS, 9/17, 0702-0730 FR tlk w/public health message, choral mx, SIO=455 (Cox-OR)
- 4895 COLOMBIA, LV del Rio Arauca, 9/13, 0300 tlks & LA mx (Gold) 9/14, 0430 mx, IDs, also ment Radio Cadena Nacional network (Prisco-PA) Tnx to both of you for your contributions! Also 9/21, 0945-1030 lively mx, "En Arauca, esta es LV del Rio Arauca." (Newman-IN)
- 4911 UNID, maybe RRI Bukittinggi back here 9/29, 2305 poss. Jak nx, poor & noisy, but 3231.8 & 4433.2 also hrd. Sure didn't sound like Gran Colombial (Clark-ON)
- 4914.6 PERU, R. Cora, 10/2, 0415-0435 mx, tlk, huaynos, ID, fair level, ute QRM (Orr-VA) Appreciate your input--sp.
- 4915 GHANA, GBC, 10/7, 2230-2300 EG ID, mx, nx, good (Tabatowski) 9/28, 2245-2305* EG nx, Afr chorus, brief sermon in lang, off at anncd lcl time of 1103. (Newman-IN) 9/4, 2246 nx abt admission of Mongolia to non-aligned movement (Spat-NH)
- 4920 AUSTRALIA, VLM4 Brisbane, 9/30, 1100-1140 EG nx, ID 1135, poor (Tabatowski-IN)
- 4920 ECUADOR, R. Quito, 9/13, 0230 w/LA mx (Gold-NJ) 9/6, 0255 instls, ad for "El Comercio," ID, nx (Spat-NH) 9/28, 0315-0340 ID, EZL mx, brief nx, ment they're members of Cadena Ecuador Radio (Newman-IN) 9/25, 0450 mx (Grenier-NV)
- 4931.1 UNID, maybe CH st 9/22, 1117 tlk by W, instl breaks, short IS 1130 & tlk but very weak, slightly better than Surakarta on 4931.6. (Clark-ON) Also 9/29 1159 definitely in CH, 5 or 5+1 pips 1200, theme, nx (Clark-ON)
- 4950 SARAWAK, RTM Kuching, 9/19, 1400 EG "You are tuned to RTM." TC & nx headlines (Grenier-NV) 9/7, 1400 EG with natl nx, SIO=555 (Cox-OR)
- 4952p ANGOLA, RN Luanda, 10/2, 0443 lite pops, poss ID, fair to poor sig by 0500 (Orr-VA)
- 4955 BRAZIL, R. Marajoara, 9/29, 0125 anmts, electronic chimes, ID 0130, slow pop mx (Wallace-CT) 9/13, 0215 tlk (Gold-NJ)
- 4960t INDIA, AIR Delhi, 10/2, 0027 subcont mx, tlk in lang, didn't hear EG nx that's supposed to start 0035 (Johnson-MD) 10/12, 0052-0115 subcont mx, tlks, poss. nx, W ment Delhi, more mx, weak (Orr-VA)
- 4975 CHINA, Fujian PBS, 9/19, 1145 CH tlk by M (Grenier-NV)
- 4980 VENEZUELA, Ecos del Torbes, 9/6, 0214-0234 ID, "boletin de noticias," read phone number, ad for Diario Catolica, salsa mx (Spat-NH) 9/13, 0235 mx (Gold-NJ) 9/29, 1030-1045 tlk, ID, good (Tabatowski-IN) 9/15, 1038 singing ID and ads (Grenier-NV)
- 4990 INDIA, AIR Madras, 9/30, *0000-0045* nx in Tamil, subcont mx (Hazzard-PA)
- 4990 NIGERIA, FRCN, 9/25, 2244 EG, opera mx, pips, ID, pledge & NA 2307* (Johnston-KY) 9/30, 2300 EG ID, nx (Johnston)
- 4990.9 PERU, R. Ancash, 9/22, 0510-0637* echo anmts, ID 0546, abruptly off 0637, weak. (Alexander-PA)
- 5005 SARAWAK, RTM Sibiu, 9/28, 1152 fair w/tlk, rel mx, lcl nx 1200, ment Sibiu & Malaysia, 2 pips 1215, choral segment, Qur'an. (Clark-ON) 9/26, 1216+ weak but certainly not Nepal, USB to avoid ute (Clark-ON)
- 5010 SINGAPORE, Radio One, 9/19, 1333 ads, EG W w/ID jingle pop mx (Grenier-NV)
- 5015 BRAZIL, R. Brasil Tropical, 9/29, 1000-1030, S8 sig, ID 1021 (Tabatowski-IN)
- 5015 TURKMEN SSR, All Union 1st Pgm, 10/2, 0054 tones, IS and *0100 s/on (Johnson-MD)
- 5020 NIGER, ORTN, 9/15, 0506-0520 Qur'an, tlk, AR mx, weak. (Alexander-PA)
- 5024.9 PERU, R. Quillabamba, 9/29, 0227, musica tropical and ID 0235. Rebelde was up on 5060. (Johnson-MD)
- 5025 BENIN, ORTB Parakou, 10/3, *0445 IS, NA, flute/drum mx, ID, "Ici Parakou, station regionale de l'ORT du Benin" mx pgm (Orr-VA)

5040 ECUADOR, LV del Upano, 9/13, 0220 SP tlk & mx (Gold-NJ)
 5045 BRAZIL, R. Cultura do Para, 9/13, 0225 tlks (Gold-NJ)
 0242 on 9/7, vcls, amnt, freq amnts to 0259, carrier on
 till 0302 (Spat-NH) Usually no EG pgms on these ZY
 stations but you may find an EG ID once in awhile--sp.
 9/28, 0330-0405 cool Braz. jazz, ID 0356 (Newman-IN)
 5060v ECUADOR, RN Progreso, 9/29, 0215-0240 pop mx, amnts,
 commercial for more mx, ID 0230 (Wallace-CT)
 5083.6t PERU, R. Mundo, 9/20, 0441-0501* poss nx, mx bridge,
 tentative ID, sked, poor sig (Orr-VA)
 5097 PERU, R. Eco, 9/2, 1020-1035 2M anncrs, pop mx, brief
 nx, sev. IDs, ham QRM (Newman-IN)
 5260p KAZAKHSTAN, R. Alma Ata, 9/28, 2217-2253, poor, opera mx,
 prob. Mayak pgm (Hazzard-PA)
 5320 CHINA, CPSS 1 Beijing, 10/10, 2228 CH nx ID, SIO=353 but
 strong fade 2245 (Kurrasch-NY)
 5535.5t COLOMBIA, Ecos Celestiales, 9/28, 0315-0357* phone tlk,
 ballads, folk mx, ment Colombia, s/off w/HJ NA. Weak w/
 some ute QRM (Alexander-PA)
 5570t COLOMBIA, R. Nueva Vida, 9/28, 0058-0156* ment Colombia,
 class guitar, almost certain of ID, poor. Also hrd 9/27
 0105-0150* as unid, mx pgm, brief tlk, march mx, ment
 Colombia & Colombiana, poor (Hardester-NC)
 5635nf CLANDESTINE, Sede-ya Mojahed (Iraq), 9/28, 0145 //4740,
 also on 5610 on 9/29. Moving around to escape jamming.
 *0230 since 9/29 when Iraq went off summertime. Has been
 hrd 7145 //6540 and 5635 //4750. (Johnson-MD)
 5875 ENGLAND, BBC, 10/7, 0000-0030 SP nx, ID. (Tabatowski-IN)

Here are some items from DOUG ROBERTSON's letter describing his reception of Bashkir Radio on 4485, rptd in last month's column: Is pronounced "Besh-keer" w/accnt on 2nd syllable. This freq also occupied by Petropavlovsk; however, domestic RS stations announce lcl time. Bashkir doesn't always ID & seemingly never during relay pgms such as those of Ufa. At 0716 Ufa anncr stated lcl time in Bashkir but next relayed pgm from Kamchatka and anncd evening nx, which checks because Kamchatka peninsula is UTC +12. Bashkir also relayed Moscow pgm and Vladivostok Far East Radio, also anncd as Pacific Ocean Radio. This was domestic letterbox pgm wishing various people Happy Birthday. Ads for personal computers in stores in Khabarovsk & Vladivostok. Reception very clear. Highlight of my tape was Gorbachev's long, impassioned speech. It was described as emotional and moving. When attempting to ID a station, use all available clues such as freq, lang, lcl times, good atlas reference showing time zones, the WRTH and a UTC clock. Someone may have concluded the 9/9 1st pgm was actually from Kamchatka, listed as double the power of Bashkir. Instead the local times given established Ufa instead of Kamchatka as transmitter source. Lcl pgming from Bashkir is varied w/ethnic, folk & class mx, "Besh-keer" is clearly mentioned. The bells on the hour on lcl pgm are particularly beautiful if you have an external speaker. Bashkir Radio rpts crime is worsening very rapidly, something you would not hear on RMWS.--dr Doug, KCA6XO, of course had a RS friend translate these tapes--sp.

At times we receive loggings of utility stations but these are usually not included in the column. Utility stations are those in sideband intended for two-way conversation and not for the general public. To answer another question, no I haven't given much thought to running contests. PETE GRENIER checked in as the next closest contributor to California, living in Sparks, NV, close to the border and 50 miles north of Lake Tahoe. Special welcome to FRED GOLD, TONY ORR & MR. PRISCO of PA. Also hello to SPAT of NH. Some nice detailed logs this month. Reporters from 14 states and 1 Canadian province! New Hampshire is a new one for us.

In addition to the well-known DX pgms on the air, there's a new one to check out Saturday nights called "Signals" on WWCN, 7435 kHz; I think it starts 0330 (0330 Sunday UTC time). All types of DX covered.

International Band Loggings

5901-30000 KHZ

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



- 5915 UNIDENTIFIED USSR? carrier tone to 0358, IS long series of notes, 5+1 pips 0400, into lang?, Koranic-type singing, strong Mid-east flavor (Berg MA) ED: Any help on this one? PWBR lists R Vedo, Volgograd on at 0400; Berg guesses Kazakhstan.
- 5975 ANTIGUA BBC relay in EG 0630, "Jazz for the Asking", IS, ID (Robertson CA 9/15)
- 6000 CUBA RHC in SP 2325, test xmsn to NA, tlk, IS, ID, nx, prano (Tucker GA 9/28)
- 6005 CANADA CIQC (former CFCX) Montreal in EG 1450, C&W, ID, ads, nx (Berg MA 9/29)
- 6005 ASCENSION IS. BBC relay in EG 0428, nx, ID, fgys, p (Robertson CA 10/2)
- 6010 MEXICO R MIL in SP 0315, ads, vocals, whistle ID (Renfrew NY, Hardester NC 9/28)
- 6025 DOMINICAN REPUBLIC R Amanecer in SP 2240-2325, relig mx, lite piano, ID, tlks, non-stop elevator mx (Alexander PA 9/21, Kurrasch NY 9/13, Hazzard PA 9/23)
- 6025 NIGERIA FRC Enugu in EG 2310*, nx, s/off anncts, no ID but hrd Nigerian NA (Laskowski IN 9/25) ED: Nice catch. Only 10 kw per PWBR listing.)
- 60352 COLOMBIA LV del Guaviare in SP 0014, L Am mx, ID's, fg, addr's (Prisco PA 9/14)
- 6040 TAIWAN CBCS Taipei in CH 1156, tlk by M&W, ID & IS at 1200 (Grenier NV 10/3)
- 6055nf USSR R Alla(sp?) 0450 w/RS folk mx & positive ID 0456. Rptd to be new station located in St. Petersburg, g (Kurrasch NY 10/11)
- 6055 JAPAN R Tanpa in JP 1324, street interviews, exc (Cox OR 9/7)
- 6060 GERMANY VOA relay in EG 0513, nx, features, several ID's, g (Kurrasch NY 10/11)
- 6075 COLOMBIA Caracol Bogota in SP 1000, nx, ID, ads, //6150 (Grenier NV, Newman IN)
- 60886 CHILE R Esperanza in SP 0840, relig pgm, vocals, g (Clark ONT 10/5)
- 6100 GERMANY Deut Welle in GM 0245, "Music from Germany", tlk (Gold NJ 9/13)
- 6115 CHINA VO Strait PLA #1 in CH 1125, CH mx, pips on hr, //1590 (Renfrew NY 9/17)
- 6116 COLOMBIA LV del Llano in SP 0246, nx, "Super" Network", ID (D'Angelo PA 9/11) in SP 0930, ID, upbeat LA mx (Newman IN 9/2)
- 6130 CANADA CHMX Nova Scotia in EG 0728-0822, non-stop mx, ID, nx (Kurrasch NY 9/17)
- 6130 LAOS Lao Nat R in lang 1145, childrens' choral, tlk, 7 gongs 1200, canned ID, nx for 15 min, tlk re Kampuchea, CHMX underneath no problem (Clark ONT 9/22)
- 6135 BOLIVIA R Santa Cruz in SP 0915, ID, mx, DJ, speech (Newman IN, Orr VA 10/4)
- 6140 AUSTRALIA ABC Perth in EG 0950, relaying Domestic pgms, sports (Newman IN 9/8)
- 6160 CANADA CKZU Vancouver in EG 0438, oldies (Grenier NV) ID 1317, sports medicine pgm, relay medium wave CBU 1317 (Robertson CA, Cox OR)
- 6170 CHINA VO Strait PLA #1 in CH 1125, same pgm as on 6115 above (Renfrew NY 9/17)
- 6182 BRAZIL RN da Amazonia in PT *0900, electric piano IS at s/on, dedications of BR and pop mx (Grenier NV 9/16, Newman IN 9/2)
- 6210 ITALY European Christian R in EG 0615, IS, ID, relig pgm, f (Alexander PA 9/29)
- 6250 EQUATORIAL GUINEA RN Malabo in SP 2158*, ID, pips, NA (Kurrasch NY, Renfrew NY)
- 6281 PERU R Huancabamba (tent) in SP 0214, LA mx, no ID hrd, p (Prisco PA 9/16)
- 65496 LEBANON V of Lebanon in AR 0344-0440, mix of ME & West mx, ID (Prisco, Orr VA)
- 7105 SPAIN REE in SP 2131, tlks, ID, mx, nx, domestic relay (Wolfson OH 9/25)
- 7110 CHINA R Beijing (Lhasa site) in RS 1044, tlk, IS, ID, nx (Hazzard PA 9/26)
- 7200nf? RUSSIA Karelia R in RS 0950*, tlk, fgys, skeds, RS mx (Robertson CA 9/30)
- 7205lnf? ITALY AMR V of Hope in multi-lang 0527, ID, IS, tlk, mx, p (Alexander PA 9/15)
- 7255 BOTSWANA R Botswana at 0248 t/in, IS full array of barnyard animals & cowbells, ID in EG at 0300 s/on, vg (Kurrasch NY 9/25)
- 7270 SOUTH AFRICA RSA in EG 0428, Duke Ellington mx, //11900 (Grenier NV 9/26)
- 7295nf? AUSTRALIA RA in IN 2111, "Waltzing Matilda" IS, ID, tlk, p (Johnston KY 10/1)
- 7305 VATICAN STATE VR in EG 0313, relig pgm, IS, into SP 0315 (Oliver TX 9/15)
- 7315 USA World Harvest R in CR/EG 0000-0500, Croatian R relay, ID, nx, tlk on city of Vukovar, nx (Robertson CA 10/2, Johnston KY 9/28, Wolfson OH 9/24)
- 7365 ALASKA KNLS in CH/EG 1000, IS, tlk, CH mx, ID in EG 1008, f-g (Robertson 9/30)
- 7375usb COSTA RICA RFPI in EG 0003, pgm on Alaskan Native Claims Act (Tucker GA 9/29)
- 9325 NO. KOREA R Pyongyang in EG 1505, nx, ID, martial mx, //9977 (Robertson 9/21)
- 9435 ISRAEL Kol Israel in EG 2230-2358, nx, "Spotlight" (Feinberg NY 9/7)
- 9480 ALBANIA R Tirana in EG 2200*, polit tlk, class/opera mx, f-p (Jordan PA 9/19)
- 9480 MONACO TWB in EG 0645, "Christian Brotherhood Hour", ID (Newman IN 9/15)
- 9495 USA World Harvest R w/Croatian R relay in EG/CR 0000, nx, cntry on current affairs, annod pgms on 7315 weekdays (Wallace CT 9/27, Hardester NC 9/15)

9515 ITALY RTVI Sicily in IT 0739-0830, tlks, ID, relig pgm, vg (Kurrasch NY 9/13)
 9515 BRAZIL R Novas de Paz in PT 2358, pop mx, ID at 0000 (Prisco PA 9/7)
 9535 SRI LANKA R Japan relay in EG 1414-1500, "This Week" pgm, f (Cox OR 9/28)
 9540 POLAND R Polonia in GM 1500, Chopin IS, nx, p (Flynn OR 9/20)
 9540 VENEZUELA RN de Venezuela in SP/EG 0045, ezl mx, ID in EG, fgys (Karcheski MA)
 9545 ANTIGUA D Welle relay in EG 0324, "World of Finance", exc (Robertson CA 9/25)
 9555 PORTUGAL RP in EG *0230, nx, mx, tlk on PT values, g (Robertson CA 9/26)
 9565 BRAZIL R Universo in PT 0825, pop ballads, echo effect, ID's (Newman IN 9/14)
 9570 SO. KOREA KBS Seoul in EG *1400, ID, fgy, nx, sing-along, exc (Robertson 9/20)
 9570 ROMANIA RRI Bucharest in EG 0204, nx, cmntry on currency, g (Levison PA 9/7)
 9575 MOROCCO R Mediterranee Intl in FR 0059*, live mx, NA, f-g (Karcheski MA 9/10)
 9580 ALBANIA R Tirana in EG 0245, "Albanian Press Review", f (Flynn OR 9/20)
 9580 SPAIN REE in AR *2013, IS, tlk, p (Johnston KY 9/19)
 9590 NETHERLAND ANTILLES RN relay in EG 0350, "Images", arts, exc (Flynn OR 9/18)
 9615 PHILIPPINE IS. R Veritas Asia in CH 1500, ID in EG, into Mandarin (Grenier 10/2)
 9620 YUGOSLAVIA RY in EG *0000, nx, sports, "Spotlight on Culture", mailbag pgm (Wolfson OH 9/24, Kurrasch NY 9/9, Feinberg NY)
 9630 SPAIN REE in SP 0513, nx on Croatian crisis, ID, mx, g (Robertson CA 10/2)
 9640 ANTIGUA BBC relay in EG 0455, Carillon mx, IS, ID, nx, exc (Robertson 9/24)
 9665 MALTA Relay of IRRAR Sweden in FR *0731, relig pgm, lite rock (Berg MA 9/29)
 96609 VENEZUELA R Rumbos in SP 1045, tourist promo, exc (Newman IN 9/8) in SP 2305, ID at 2307, promos, jingles, //49705 (Alexander PA 9/21)
 9665 BRAZIL R Marumbi in PT 2300, tlk, jingles, promos, ID, mx (Alexander PA 9/21)
 9670 ANTIGUA D Welle relay in EG 0524, nx, interviews, ID, exc (Robertson CA 10/2)
 9690 SPAIN R Beijing relay in EG 0307, nx, CH mx, feature (Tucker GA, Johnston KY)
 9695 SWEDEN RS in EG 0345, "New Products" (ballpoint pen), //11705, g (Flynn OR 9/19)
 9700 NEW ZEALAND RNZ in EG 0830-1050, mailbag, pop/C&W mx, ID (Grenier, Robertson)
 9705 PORTUGAL RPI in EG 0235, nx, wx, "Welcome to Portugal", g (Flynn OR 9/24)
 9705 SAUDI ARABIA BSKSA in FR 1559-1700*, IS, ID, nx, mx, f (Robertson CA 9/21)
 9710 AUSTRALIA RA in Tok Pisin *0800, nx?, exotic vocals, ID, f (Jordan PA 9/14)
 9710nf? LITHUANIA R Centras in EG 0700, spec bcst for Nordic DX Championships, full ID 0715, c/c'd 50 kw xmtr, closed at 0730 w/advice on next xmsn on 10/26 (Clark ONT 10/5, Berg MA 10/5)
 9710 LITHUANIA Lithuanian R in Lith 0417, interview, ID, dance mx, exc (Orr VA 9/23)
 9735 PARAGUAY RN de Paraguay in SP 0045, class mx, ID, nx (Prisco PA, Karcheski MA) in SP 0752, cmntry, mx, ID, QRM from D Welle (Orr VA 10/10)
 9740 SINGAPORE BBC relay in EG 1112, ID, "Newsdesk", exc (Robertson CA 10/6)
 9746 BAHRAIN R Bahrain(p) in EG 2000, pips, nx to 2005, into AR vocals to 2016, heavy QRM & splash thwarted positive ID at 2018 s/off (Clark ONT 10/1)
 9760 PHILIPPINE IS. VOA relay in EG 1105, nx, ID, "Agriculture Today" (Robertson CA)
 9765 MALTA VO Mediterranean in EG 0612, freq ID's, lcl mx, tourist info (Cox OR 9/17)
 11330 CHINA CPBS-1 in CH 0949, promos, 5+1 pips, ID, //15550 (Orr VA 10/10)
 11335 NO. KOREA R Pyongyang in RS 0949*, martial mx, ancmts, NA, f (Orr VA 10/10)
 11455 ZAIRE LV du Zaire in FR 0449, cmntry, mx bridge, ID, promos, p (Orr VA 10/10)
 11590 CHINA VO Strait #1 in CH 1200*, CH mx, 5+1 pips, //6115, 6170 (Renfrew NY)
 11610 CHINA CPBS-1 in CH 2351, CH mx, flute & orch, TC, ID, IS, drama (Wolfson OH 9/4)
 11620 INDIA AIR in EG 1905, nx, sports results, ethnic mx, g (Levison PA 9/11)
 11660 BULGARIA R Sofia in EG 0130, ID in EG, nx, organ mx, g (Levison PA 9/7)
 11685 PHILIPPINE IS. FEBC in EG 0955-1058*, interview, ID, sermon, ezl mx, //9800 (Jordan PA 10/1, D'Angelo PA 9/30) in Cambodian 1158, nx?, ID (Robertson 10/6)
 11685 FRENCH GUIANA R Beijing relay in EG 0405, nx, ID, current affairs (Robertson)
 11685 CZECHOSLOVAKIA R Prague in EG 0100, nx, class mx, sports (Levison PA, Tucker GA)
 11710 ARGENTINA RAE in EG 0205, "Polkloric" mx, tourist promos (Newman IN 9/28)
 11735 YUGOSLAVIA RY in EG 0010, nx, "Travel Around the Country", f (Flynn OR 9/21)
 11735 JAPAN R Japan in EG 2345, tlk on JP lang, ID, nx, feature (Wolfson OH 9/19)
 11750 SINGAPORE BBC relay in EG 1402-1500, sports pgm, //9740, exc (Cox OR 9/14)
 11790 ARMENIA R Yerevan in EG/AM 0242-0258*, tlk, AM mx, nx in EG (Tucker GA 9/12)
 11822 COLOMBIA R Nacional in SP 0237, LA pop format, ID, chimes (Newman IN)
 11830 BRAZIL R Anhanguera in PT 0918, promos, ads, ID, f (Orr VA 10/4)
 11900 SOUTH AFRICA RSA in EG 0425, IS, ID, w tlking re trip to Swaziland (Grenier NV)
 11915 BRAZIL R Gaucha in PT 0620, tlk, ID, TC, promo, pop mx, f (Orr VA 10/3)
 11955 ANGOLA RN de Angola in PT 0509, nx, TC 0510, clear ID's, songs (Orr VA 10/3)
 120855 SYRIA R Damascus in EG 2024, interview w/Sec. Baker, nx, //15095 (Wolfson 9/19)
 13605 UNITED ARAB EMIRATES Abu Dhabi in EG *2200, rock mx, Qu'ran readings, chants, ID's, relay of Capital Radio-FM (Feinberg NY 9/9, Newman IN 9/28)
 13660 UNITED KINGDOM BBC London in EG 2130, "Calling the Falklands" (Flynn OR 9/20)
 13685 SWITZERLAND SRI in EG 1531, nx, "Dateline" tlk on auto traffic (Grenier NV)

- 13710 UKRAINE R Vedo Volgograd(p) in RS 1700-1800*, EG lang rock, 3 min EG segment daily abt 1734, ads?, IS type chimes 1730, pulsating mx bridge, upbeat RS anncr giving numbers, mentd "Amerikanski IBM", f-g (Berg MA 9/10-13)
- 13730 AUSTRIA RAI in EG 0141, cmntry on Austrian railroads, g (Levison PA 9/20)
- 15010v VIETNAM VoV Hanoi *1000-1028*, ID, childrens'choir, //9840 (Newman IN) in EG 2035, lcl vocals, into FR 2100, nx, g (D'Angelo PA, Karcheski MA) in EG 2330, nx "welcome to Vietnam" book re Vietnam, ID (Kurraasch NY, Wallace CT)
- 15030 COSTA RICA RFPi in EG 0335, 4th anniversary phone-in pgm (Grenier NV 9/17)
- 15050 INDIA AIR in EG 1005, nx, ID, cooking pgm, movie mx (Karcheski MA, Orr VA 10/10)
- 15120nf NEW ZEALAND RNZ in EG 1832, nx, DJ, island mx, ID, TC, wx (Alexander PA 9/29)
- 15130 MALI R Beijing relay in EG 1605, nx, tlk on relations w/Mongolia (Grenier NV)
- 15140 INDIA AIR Bangalore in RS 1655, nx, sub-cont mx, ID 1715, exc (Flynn OR 9/22)
- 15160 ALGERIA RTV Algerienne in FR 1910, American pop mx, ID, vg (Kurraasch NY 9/15)
- 15170 AUSTRALIA RA in CH 1200+, nx, IS, USA pops, ID, CH mx (Jordan PA, Johnston KY)
- 15200 SEYCHELLES FEBA in Dari/Parsi 0249, speech, ID, IS, relig songs(D'Angelo PA 9/5)
- 152155 ALGERIA RTV Algerienne in AR 0238, AR mx, ID, plenty of QRM (Wolfson OH 9/19)
- 15240 AUSTRALIA RA in EG 0435, YL w/tlk on Australian pop mx scene (Grenier NV 10/3)
- 15250 ROMANIA RRI Bucharest in EG 1508, press cmntry, nx (Grenier NV 10/2)
- 15310 OMAN BBC relay in EG 1600, world nx, "News About Britain", g (Flynn OR 9/18)
- 15365nf AUSTRALIA RA in EG 0540, interview, exotic mx, nx, feature (Jordan PA 9/15)
- 15435 JORDAN R Jordan in AR 1945, AR pop mx, anncmts, ID, f-g (Orr VA 10/10)
- 16300 RUSSIA R Moscow feeder in RS 1650, pop mx, ID, IS "Moscow Nights" (Johnston KY)
- 17665 UKRAINE R Kiev in EG 0020, nx, cultural topics, sports, mx, ID (Wolfson OH 9/22)
- 176905 UKRAINE R Kiev in EG 0017, nx, ID 0017, wx rpt, "Human Factor" (Wolfson OH 9/19)
- 17740 YUGOSLAVIA RY in EG *1228, nx, IS, ID, mixing w/Tashkent (Johnston KY 9/29)
- 17745 AUSTRIA RTV Algerienne in EG 1920, non-stop rock mx, //15160, f (Flynn OR 9/22)
- 17755nf SAUDI ARABIA BSKSA in SH(p) 0455, ME instrmntls, recitations, p (Jordan PA 9/22)
- 17760 NORWAY RNI in NO *1659, IS, ID, nx (Johnston KY 9/15)
- 17770 NEW ZEALAND RNZ in EG 0300, nx, opera mx, wx, cmntry (Gold NJ, Robertson CA)
- 17795 AUSTRALIA RA in EG 0410, nx on effects of US arms cuts, interview (Gold NJ 9/30)
- 17825 JAPAN RJ Tokyo in EG 0548, Viet prisoner interview, ID, cmntry (Robertson 9/24)
- 17840nf SOUTH AFRICA RSA in EG 1631, "Bookmark", ID, "Yours & Mine", TC (Wolfson OH 9/19)
- 178644v COLOMBIA RNac Bogota in SP 2353, tlk, LA mx, gongs, //118217 (Alexander PA 9/14)
- 17891v UNIDENTIFIED stn in AR 2005-2110 t/o, nx?, ME instrmntls/vocals, many refs to Iraq, Oman, Syria, S. Arabia, recitations, seemed to ID at 15 min interval but unable to catch it, f-p (Jordan PA 10/8) ED: Too early in the day for me Rufus!
- 21465nf? COSTA RICA RFPi in EG 2300, "New Dimensions", peach tlk, f (Flynn OR 9/9)
- 21500 SWEDEN RS in EG 1536, nx, interview, sex counseling, rock mx (Robertson CA 9/21)
- 21505 SAUDI ARABIA BSKSA in AR 1135, prayers, ME vocals, dramatic tlks (Jordan 9/23)
- 21740 AUSTRALIA RA in EG 0040, mx, cmntry on a mechanical robot, g (Levison PA 9/17)
- *****

CLANDESTINE STATIONS

- 6305 LV del Cid-Guatemala 0710 IN SP, ID, Marti poetry, drama (Newman IN 9/15)
- 7355 R Periodico Pan Americano via WRNO 0200 in EG/SP, ID, tlk on Cuba (Hardester NC)
- 7435 LV de Tribuna Libre via WWCN 2300 in SP, tlks on Cuba/USSR, ID (Hardester 9/29)
- 9495 LV de al Fundacion via WHRI 0100 in SP, tlks on Cuba, mx, ID (Hardester 9/15)
- 15605 V of Iraqi Opposition 2125 in AR, AR mx, tlks, ID, //17950 (Karcheski MA 9/8)
- 15690 LV de Junta Patriotica Cubana via WWCN 2258* in SP, ID, tlks (Hardester 9/29)

PIRATE STATIONS

- 62051 Europirate R Fax 0154-0730 in EG, pop mx, ID's, mailbag, rx of other pirate stns ad for SW recur, //12255(Alexander PA 9/21, Kurraasch NY 9/24, Hardester NC 9/22)
- 62615 Europirate N Ireland relay in EG 0448, pops, ID's, f (Hardester NC 9/22)
- 7415 R Free New England in EG 0020, pop/rap mx, ID's (Alexander PA 9/21) 0430-0446* w/rock mx & req rpts to Wellsville, NY address (Berg MA 9/22)
- 7417v Radio USA at 0000 w/punk rock, ID, rebroadcast tape of KVHF (Alexander 9/29)
- *****

FOR SALE: NRD-525 extension boards. Glass epoxy, double-sided boards with correct connectors. Raises board under test above the NRD-525 chassis/card cage at a 90° angle allowing access to the component side of board. Price \$60.00. Grundig Satellit 500. Newer version with original box, etc. Ni-Cads and service manual. Price \$350.00. Terry Palmersheim, 1817 Grant Avenue South #11, Renton, WA 98055.

PRESS RELEASE

Buying A Used Shortwave Receiver

First Edition

by
Fred Osterman

Buying a used shortwave receiver can provide excellent savings but, obtaining technical and price information on non-current models can be difficult. This booklet provides the sources you need to obtain this information.

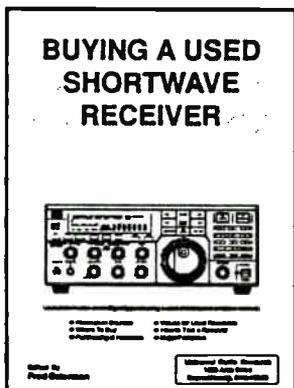
Used equipment can be purchased privately, at hamfests or from radio stores. The advantages and disadvantages of buying from each potential source is reviewed.

A six point receiver performance check list is provided to permit the quick and accurate evaluation of a receiver.

Pricing information and an overall rating score is provided for the top fifty communications receivers and the top twenty digital portables.

Technical information and photos are supplied for the top twenty-five communications receivers.

This affordable guide will provide valuable information for anyone buying a used shortwave receiver.



©1991 Universal Radio Research

20 Pages 8½" by 11"

ISBN: 1-882123-09-3

Price: \$3.95 (+\$1 shipping)

Universal Radio
1280 Alda Drive
Reynoldsburg, OH 43068
Tel: 800 431-3939 or 614 866-4267

Great Radio Reads

Secrets of Successful QSLing

The Complete Guide to

Reception Reports and QSL Collecting by Gerry L. Dexter.

How to get more QSLs -

from basics to advanced techniques. \$9.95 + \$2 s/h (\$3 foreign)

World Broadcast Station Address Book

by Gerry L. Dexter. 5th edition

Over 1,100 SWBC station addresses, most with v/s & QSL grade.

Published at \$8.95 now just \$6.95. Only \$4.95 if ordered with
Secrets of Successful QSLing. Add \$2 s/h (\$3 foreign)

Language Lab -

The Foreign Language Reporting Guide.

800 sentences, phrases and words. Create reports in Spanish,
French, Portuguese, Indonesian. (+ \$1 additional s/h foreign)

Separate editions \$12.95 ea + \$2 s/h, 2 for \$23 + \$3 s/h

3 for \$33 + \$3 s/h, All 4 for \$42 + \$4 s/h

SWL Forms

13 forms for logging, reporting, skeds, rx memories, band surveys
and more. Make all the copies you want.

\$10 + \$2 s/h (\$3 foreign)

The Pirate Radio Directory.

Authoritative survey of No. American pirates on shortwave.

Formats, frequencies, times, IDs, DJ names, addresses, QSL info.

\$8.95 + \$2 s/h (\$3 foreign)

The Clandestine File.

Complete collection of The Clandestine Confidential Newsletter.

Over 100 pages of frequencies, skeds, addresses and other info.

\$25 + \$2 s/h (\$3 foreign)

Coast Guard Radio -

A Guide to Using and Monitoring

US Coast Guard Communications.

Full listings of USCG vessels, aircraft, installations. Frequencies,
calls, addresses, weather, Notice to Mariners broadcasts
and much more.

\$12.95 + \$2 s/h (\$3 foreign)

Limited Space Shortwave Antenna Solutions.

All kinds of antenna options for those with little room,

plus valuable construction tips.

\$10.95 + \$2 s/h (\$3 foreign)

Order now from your radio book dealer or



Tiare Publications

PO Box 493

Lake Geneva, WI 53147

Visa

MasterCard

North American Shortwave Association
45 Wildflower Road
Levittown, Pennsylvania 19057

First Class Mail
U.S. Postage
PAID
Levittown, PA
Permit No. 319

FIRST CLASS MAIL

Expiration Date 2
Bill McDavitt
4912 Tyne Drive
Durham, NC 27703



The Journal of the
North American Shortwave Association

ISSN 0160-1989

Executive Director: Bob Brown, KW3F
238 Cricklewood Circle, Lansdale, PA 19446
Assistant Director: Kris Field, 431 Babylon Rd.,
Ambler, PA 19002-2302
Publisher: Bill Oliver, 45 Wildflower Road,
Levittown, PA 19057

Executive Council: Jerry Berg, Bob Brown,
Dr. Harold Cones, Gerry Dexter, Kris Field,
Glenn Hauser, Don Jensen, Bill Oliver

EDITORIAL STAFF

Editor-In-Chief: Dr. Harold Cones, 2 Whits Court,
Newport News, VA 23606

DXer's Forum: Kevin Atkins, P.O. Box 134,
Birmingham, AL 35201-0134

Easy Listening: Richard Cuff, 213 Parkview Ave.,
Allentown, PA 18104-5323

NASWA Portraits: Jerry Klinck, 43 Lein Road,
West Seneca, NY 14224

Technical Topics: Ted Benson, WA6BEJ, 426 East
Fulvia Drive, Encinitas, CA 92024

Listener's Notebook: Dan Ferguson, P.O. Box 2604,
Dale City, VA 22193

QSL Report: Sam Barto, 47 Prospect Place, Bristol,
CT 06010

Distributing Editor: Vernon Hyson, 9835 Lone Eagle
Lane, Charlotte, NC 28125

Tropical Band Loggings: Sheryl Paszkiewicz, 1015
Green Street, Manitowoc, WI 54220

International Band Loggings: Wallace C. Treibel,
357 N.E. 149th St., Seattle, WA 98155

Scoreboard: Jerry Lineback, 6361 Shore Drive,
Douglasville, GA 30135

NASWA Awards: Richard A. D'Angelo, 2216
Burkey Dr., Wyomissing, PA 19610

English Schedules: Tom Sundstrom, W2XQ
P.O. Box 2275, Vincentown, NJ 08088-2275

Listener's Library: John Bryant, AIA, Rt. 5, Box 14,
Stillwater, OK 74704

Listener's Classroom: Dr. Charles A. Wootten,
6113 River Road, Matoaca, VA 23803-8048

Destinations: Mitch Sams, 779 Galilea Court, Blue
Springs, MO 64014; Don Moore, 20108 Hayes Rd.,
Big Rapids, MI 49307; Dr. Harold Cones, 2 Whits
Court, Newport News, VA 23606

Equipment Reviews: Rich Arland, 25 Amherst
Ave., Wilkes-Barre, PA 18702

The Company Store: 2216 Burkey Dr.,
Wyomissing, PA 19610; Richard A. D'Angelo, Don
Moore, Dave Turnick

MEMBERSHIP FEES:

North America (First Class Mail) \$23.00

Overseas (Air Mail):

Central America, Caribbean, Venezuela

& Columbia \$27.00

South America and Europe \$27.00

Asia, Africa and Pacific \$30.00

All remittances must be in U.S. funds and mailed to:

NASWA
45 Wildflower Road
Levittown, PA 19057
U.S.A.

