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North
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Shortwave
Association

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NASWA Notes

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Packet KW3F @ WB3JOE



Happy Holidays! Here we are for another year ending *Journal* and as I look back on '91 I think you'll agree with me that this has been a very eventful year for our hobby. We had a war in the Middle East that prompted SW receivers to jump off of shelves, an attempted coup in the USSR which had its President singing the praises of the BBC on SW, and major releases of high end SW receivers from Drake and JRC that are prompting all kinds of debates and reviews in hobby circles. This has been quite a year for radio and I'm glad to be part of it. Now if I could only get some more time for listening.... Guess I'll make that a New Year's resolution...again.

I Asked For It, I Got It!

This has been a super month for member input. I've received more features, reviews, musings, letters, etc. this month than in any other month I've been involved with NASWA. It's fantastic and I hope it keeps up. I had a heck of a time getting as much of the timely information in that I could this month and if you sent something for reprint and it doesn't appear don't despair, it will soon.

Some of you sent rather long letters regarding the ANARC situation that were too long to print in their entirety in *The Journal*. Besides, unless you tell me specifically that your letter or comments are ok to reprint, I won't. If your letter contains items for reprint, tell me so. Also please consider that because of space limitations we cannot print long letters (unless of course they are a feature), and that any musings or comments for publication should be paraphrased or kept to a reasonable length. What's reasonable, you ask? Check out this month's musings for examples. I think the musings idea is going great and apparently you do to. By all means, keep them coming!

ANARC

I received some interesting letters concerning the ANARC situation. Opinions were varied about NASWA's continued participation or whether ANARC should even continue to exist. We received a letter from Sheldon Harvey which lays out a new set of guidelines and requirements necessary to be a full member club in the newly defined ANARC organization. All the current clubs must respond by December 31, 1991 with their decision either to go along with his proposals or to drop out of ANARC. If a club doesn't respond by that date, they will be considered dropped. I have asked our ANARC club representative, Dr. Harold Cones, to solicit votes from NASWA's Executive Council on this issue. I will have a full report next month on our decision.

Chapter Happenings

In November, the Philadelphia Area NASWA Chapter had some special guests, Andy Sennitt, Editor and Bart Kuperus, Associate Editor of the World Radio TV Handbook. It was a pleasure having these fellows at our meeting and listening to them talk about the handbook and the hobby. Read Rich D'Angelos report on this meeting in this

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 - "Unity and Friendship"

month's *Journal*. If your local group has anything of interest going on, please let us know about it.

Editorial Staffing

I received a letter this month from DXer's Forum editor, **Kevin Atkins**, informing me that he will have to take a leave of absence for a while from *The Journal* and his hobby pursuits. Kevin has done an excellent job for us and will be missed very much. Besides his contributions as DXers Forum editor, Kevin was largely responsible for guiding us into desktop publishing and helping to give *The Journal* the look that it has today. Besides NASWA, his work with Fine Tuning's Proceedings and the FT newsletter has always been of high quality. Thank you Kevin, for a job well done!

Because of this, we have a need to fill Kevin's shoes in DXer's Forum. Some of us have discussed ideas and we have thoughts about potential editors. **Harold Cones** is out beating the bushes for an editor. We have discussed many things including perhaps changing the column completely, going back to the Shortwave Center concept (the column as it was pre-DXers Forum) or whatever. In

the interim, we at headquarters will be attempting to keep those pages filled with interesting articles. Please, however, don't rely solely on us. If you can help with this column or have any ideas, please write and tell us.

Another change this month comes in Equipment Reviews. We all thank **Rich Arland** for giving us insights into the new toys and gadgets out there to make our hobby more enjoyable. Besides reviewing equipment in the pages of *The Journal*, Rich has always been an interesting speaker at the Winter SWL Fest and I'm sure we'll continue to see Rich participating in that event.

Filling Rich's shoes will be **Alan Johnson** of Bethesda, MD. Alan is an avid SWL, Amateur (N4LUS), and radio hardware junkie who is just chomping at the bit to get things rolling. On short notice he provided a feature on a oldie but goodie receiver, the Allied SX-190, for this month's *Journal*. Equipment manufacturers take note -- We'd like all of you to ship a sample of your new radios, filters, headphones, antennas etc. for Alan to play with and write about. WE LIKE TOYS and we want Alan to tell us about 'em. Welcome aboard Alan!

Calendar Of Events

- Dec 14** - The Washington Area NASWA will have a meeting and tour of the Voice Of America, Washington DC at 2 PM. Contact Sally Ward (703) 960-4140
- Dec 17** - Meeting, N.E. Ohio SWLs. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. Contact Mike Fanderys (216) 661-2443
- Dec 20** - Meeting, Boston Area NASWA Chapter, GTE Labs, Waltham, Mass. Contact Paul Graveline (508) 470-1971
- Dec 20** - Meeting, Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- 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.

The Voice Of NASWA

I'm sure by now many of you have heard SIGNALS, a new show about radio that appears every Sunday on WWCW 7435 kHz at 0430 UTC. SIGNALS is sandwiched between Glenn Hauser's World Of Radio (04-0430) and Big Steve's Crossband Show (0430-05), so we now have 2 hours of programming for the radio and DX enthusiast. Tough to fit it all on one side of a cassette tho... Anyway, if you've been listening, you have heard that NASWA has a short segment every other week called "From The NASWA Archives" hosted and produced by NASWA Steve Forest. If you live in Cincinnati you've probably seen Steve's smiling face from time to time on Channel 5 WLWT and many have met him at the WinterFest and other events.

Steve's a great guy and it sounds like he's having fun with this. We thank Steve for taking on this task and look forward to his reports on SIGNALS.

I think that about covers it. Remember, send in your renewal for next year (yes it can be early) and save \$2. All renewals received after Jan. 1, 1992 will be at the new rate of \$25.

On behalf of the entire NASWA staff I wish you and your families a very Happy Holiday Season!

Musings

Gerry Bishop, 126 Dyer St., Niceville, FL

Good to see a musings in the Journal. It barks back to the days of "In My Opinion", a feature missed for a long time. I can reply on a personal level to Dr. Cones' questions about contributing. It's a question of time here. 15 years ago I was single, with lots of time to DX and write about it. Nowadays, with a wife, two kids, and Uncle Sam to answer to, time isn't always there. Hell, I have trouble anymore keeping the logbook up to date. I have notes from September yet to transcribe, and QSLs for some of those receptions, too. I still enjoy the hobby immensely, and have a banged up -2001 with as much travel on it as any in the world, to attest that I DX whenever I get the chance. On another subject, I was glad to see somebody likes the Drake R8. I hope to get a new, American made receiver in '92, and retire the -8800 and one of the -390's from the shack. If Drake gets their quality control together on this one, I may join the ranks of R8 owners. A good radio doesn't have to be ergonomically sound, My experience with the NRD-525 bears that out. Finally, wither ANARC? Will it limp, impotent to a slow, choking death? Or will it rebound and become again the voice for all radio listeners in North America? This goes back to time. Does anybody have the time for this? And now I'm late for something, no doubt, and must close. 73. P.S. Good to see Brett Saylor back in the ranks!

Kris Field, 431 Babylon Rd., Ambler, PA

I've probably started verifying the Radio Moscow transmitter sites a little too late. With the failed coup and other events in the Soviet Union, I have been wondering about what is going to happen to Radio Moscow and its many transmitter sites scattered about the republics. I posed this question in a recent reception report to Radio Moscow's World Service. In reply, I was told that many letters are received at Radio Moscow with congratulations on their "victory". After the failed coup d'etat, it is expected that Radio Moscow will undergo great changes along with all other state-run mass media. Everything is speculative and at present, not much can be said about Radio Moscow's future (per the veri-signer) but I can't help but wonder....

Henry J. Michalenka, 11 Elizabeth Ann Dr., Johnston, RI

Some "Musings"...I normally have the opportunity to travel to the "Ivy League Plus" group Controllers' meetings in the spring and fall. This spring meeting was at MIT, and I took the opportunity to visit with Jerry Berg for an afternoon of DX shop-talk. Chris Lobdell also dropped in to help me gaze enviously at Jerry's shack and CPRV QSLs. Last week the meeting was at Columbia, and I visited Jeanne Ferrell at GILFER Shortwave. They have quite a display of

receivers hooked up. She let me do a side-by-side with the new Drake R-8, NRD-525 and NRD-535 receivers. She said I was the only one who preferred the 525 of the group; I think it was because the others reminded me of computers, not radios! It was great having lunch with Jeanne and getting caught up again after many years (we first met in the early 70's). Did manage to buy a new Sloper, though. Nothing like personal contact with the fellow hobby person. By the way, the next Ivy meeting is supposed to be at University of Rochester next April if anyone would like to get together.

Could someone please definitely tell me if Surinam is still on 5005! There is a tremendous ute on that channel here. I haven't seen them reported in years, and I still need a Surinam QSL!

C. Vernon Hyson, 5410 Camp Stewart Road, Charlotte, N.C.28215

I must disagree with Sheldon Harvey when it comes to opening up ANARC for membership for commercial enterprises. The benefits of having NRC or Universal Shortwave or any other provider of equipment to our hobby far outweigh any disadvantages. How seriously would they influence the aspects of our hobby? I can't think of any situation that might be negative except possibly my name getting on a mail list because of my association with SWLing. I already have a solution to that problem, used quite often, and that ye olde trashe canne. I also think smaller clubs should be allowed to join. You don't begin large unless you are a summo (sic) wrestler & then you can join anywhere you want. Hopefully during the coming year, ANARC will solve most of it's problems and be an asset to the hobby instead of a dutch uncle that no one really knows what to do with.

Joel Datz, Highland Park, IL

I would imagine that, when someone becomes a member of NASWA, it's safe to say that they are no longer in the category of "casual" shortwave listener. Your membership probably indicates that you want to know as much as possible about the SWL hobby, and in fact may know quite a bit already. Here's a recommendations that will be great fun for you and promote the SWL hobby at the same time: use your advanced knowledge to teach an introductory course in shortwave listening. I did it in early fall (just in time for the good listening season!). Working with the staff of the local high school district's Continuing Education Program, we developed a course outline and a strategy for publicizing the class (tip: don't rely only on a listing in the Course Catalog; take it upon yourself to talk it up with the staff at the nearby Senior Center, the managers of local Radio Shack stores, etc.). It was great to watch the "students" get increasingly excited about their new discoveries, and I'm certain we've added a few new participants in the hobby (maybe even a few new members for NASWA!). Teaching the course was as much fun as doing some good listening. Try it...you'll like it. Just remember; it's ALL a mystery to your students; they don't even realize what they can listen to. So start at the beginning.

Richard Wallace, Danbury, CT

I just upgraded from a DX-440 to a R71A. I thought I'd done a good job at isolating AC line interference but was surprised when the R71's circuitry pulled in 3-5dB in the amplified mode. Needless to say, DXing the tropicals that use less than 5KW was next to impossible. For the R71, using a powerstrip with the filter built in wasn't enough. I connected two RFI snap chokes on the AC cord three inches from the receiver input. That did the trick... A source of RFI that drove me nuts for awhile was the heater on the aquarium. That's just as noisy as a hairdryer... Qsl return rate is very low for me also... I guess answering requests for verifications isn't in the job descriptions of station personnel...but then again I received a real nice letter from Iquitos, Peru. That makes it all worthwhile.

Rich D'Angelo, 2216 Burkey Dr., Wyomissing, PA 19610

Finally, after years of talking about going on a DXpedition, I got my chance. Recently Dave Valko, Hans Johnson, Dave Turnick and I challenged the elements and propagation while attempting a DXpedition. Actually, we really didn't encounter any problems. The cabins at

Gifford Pinchot State Park, located just south of Harrisburg, PA, provided an excellent setting for a DXpedition. In fact, the entire experience was wonderful - DXing, friends and questionable eating habits. Did you know that Hans Johnson can eat a 1 1/2 pound package of Oreo cookies in less than a day? Thanks to Dave Valko for arranging the show.

It's amazing the difference of listening in a remote location can do for DXing. Conditions over the 25-27 October weekend were far from spectacular. However the lack of local noise pollution made serious DXing possible. Indian regional stations on 60 and 90 meters were possible Friday and Saturday evenings. I enjoyed listening to oldies from Singapore around 2200 UTC on 5052 kHz. That's something I don't get to hear at home. Afternoon Indonesians were heard too. Morning conditions featured some outstanding openings to Peru with Radio Eco-5097 kHz over riding the usually dominant RTTY QRM. Once daylight arrived on Sunday morning, it was all over. The last official act was to call in our results to Big Signal for the ANARC SWL Net that morning. Boy, can that guy drool over the telephone! My logs from that DX filled weekend appear in this month's log report columns. All in all, it was a terrific listening experience and I would recommend the adventure to any DXer.

Welcome to the following new NASWA members -

Bill Ansell, Vero Beach, FL
G. Baranchuk, Summit Hill, PA
William Behrends, Encinitas, CA
Jane P. Brophy, Dryden, NY
Dick Brown, Pierceton, IN
Raul Carazo, Brooklyn, NY
Martin J. Conzemius, Highland, MI
Steven D. Cooper, Worthington, OH
Bruce Danielson, East Lyme, CT
John M. Devlin, Red Bank, NJ
M. L. Flannagan Jr., Charlottesville, VA
Donald Fox, Norwood, MA
Gary Fredericks, Salem, OR
Paul S. Friend, New York, NY
Joe Garza, Los Angeles, CA
Thomas N. Holan, Montville, NJ
Yuutchi Ishida, Saitama, JAPAN

Carolyn Y. Johnson, Brooklyn, NY
Masao Kato, Aichi, JAPAN
Jon R. Kelly, Silver Lake, OH
Jon Klinedinst, York, PA
Scott Larsen, Concord, CA
Christopher Melugin, Wichita, KS
David L. Millard, Stuart, FL
Fred Moore, Trevose, PA
Walter Raskofsky, Bloomfield, NJ
Eric Rels, Kenmore, WA
Ari Riikonen, Lappeenranta, FINLAND
James Roggentine, Crest Hill, IL
David Rosinsky, Francis Creek, WI
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Gale Strode, Kansas City, KS
Ronald Wagner, Redondo Beach, CA

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I'll pay shipping on all items. Contact: Hans Johnson, 7529 Red Cravat, Columbia, MD 21046. (410) 381-5691 No Collect calls please.

Philadelphia Area NASWA Chapter Report Special Guests: Andy Sennitt and Bart Kuperus By Richard A. D'Angelo

The Philadelphia Area NASWA Chapter has been meeting for over a year on the third Friday of the month during the DX season. Normally, it's just the usual gang of eccentric DXers and listeners that enjoy an opportunity to socialize with other hobbyists. November's meeting was a little different. For the first time we had some special guests - Andy Sennitt, Editor of the World Radio Television Handbook ("WRTH"), and Bart Kuperus, Associate Editor of the WRTH. Thanks to participation from the National Radio Club ("NRC") and SPEEDX, this meeting represented a good cross section of hobbyists.

As many of you know, the WRTH is published in January of each year. The "DXers Bible" as it has come to be known, is the one "must have" in every shortwave listeners shack. The care, dedication and experience from decades of information gathering have made this book an invaluable resource. Andy and Bart were in the Philadelphia area to finish up the 1992 edition which will be available in January from all the familiar shortwave outlets. Although they are still entering information into the data base for the Handbook, they were able to take some time off and join us at our Chapter Meeting at the Holiday Inn in beautiful Kulpsville, PA. Incidentally, the Kulpsville Holiday Inn will once again be the location of the Winter SWL Festival scheduled for 13 - 15 March 1992.

Hobbyists began drifting in around 7:15PM. Many of the regulars were there such as Ed Janusz and Don Thornton (both are members of the SPEEDX Board of Directors), Dan Cashin, Jon Cohen, Bill Oliver, Kris Field, Harold Levison, Bob Montgomery, Ed Mauger and many more. Some newcomers were present too such as Dave Schmidt and Pat Cassidy of the NRC. Attendance was approximately twenty five for the evening which is slightly larger than the usual number.

Nimble Tom Sundstrom met our guests and quickly whisked them off to some unseen corner of the hotel. Apparently Tom thought our distinguished guests needed a briefing prior to meeting the gang. The meeting began in it's usual informal style which allowed attendees to catch up on the latest news and gossip prior to the "official" portion of the evening. Around 8:00PM, Big Signal Brown formally opened up proceedings with an announcement that Andy and Bart would be at tonight's meeting. Arrangements had been made only a few days prior to the meeting. Therefore, it was a complete surprise to most of the regulars that the WRTH team would be at our meeting. Eventually Tom thought Andy and Bart were ready to meet the throng. Thankfully, he was able to find his way back to our meeting room with Andy and Bart. After Tom introduced our guests things began to roll.

Andy and Bart were good enough to subject themselves to an intense two hour question and answer period which was the highlight of the meeting. The lively exchange of information made this perhaps the most interesting Chapter Meeting to date. Andy talked at length about the preparation process of the handbook and the move toward computerization of many sections. The data base is totally computerized at the moment. He candidly discussed some of the political problems that occasionally crop up despite the WRTH's best efforts to keep a low profile. Some very interesting and informative discussions about the current status of broadcasting in Russia and South Africa highlighted the evening. The editors acknowledged that for the first time the WRTH will present Russian transmitter site data from information supplied from Radio Moscow at frequency coordination meetings with other broadcasters! It is anticipated that this data will get better and better as Radio Moscow works with other broadcasters in coordinating allocation of the spectrum.

After two hours we let Andy and Bart up for some air. Informal conversations continued for quite some time after that. So did some official picture taking and gift giving as Bob Brown presented Andy and Bart with 25th Anniversary Mugs and T Shirts. Watch next month's *Journal* for a complete review of the question and answer session that took place. Special thanks go out to Andy Sennitt and Bart Kuperus of the World Radio Television Handbook for making the November 15, 1991 Philadelphia Chapter Meeting a special event.

DXer's Forum

Please submit all contributions to:
Dr. Harold Cones
2 Whits Court
Newport News, VA 23606
CompuServe 71570,411

As was mentioned in Bob Brown's NASWA Notes, we all would like to thank Kevin Atkins for the fine job he did while editing DXers Forum. Until we can find another editor, we are going to use this space to feature any input that we receive from the membership that might have been used previously as Special Features. Prior to this space being called DXers Forum it was known as Shortwave Center and was essentially pages devoted to miscellaneous features contributed by the members that contained items of interest to the SWL and SW DXer. We are looking for more features and input from all of you to help keep this column going. Don't be shy, if you have a thought or idea for input to this column, please put it down on paper and send it to me, Dr. Harold Cones, 2 Whits Court, Newport News, VA 23606.

This month we have an interesting station profile of 4VEH in Haiti from Kris Field. We also have another report on the new Drake R8 from veteran DX'er Jerry Berg. I think you'll find the report from this dyed in the wool hollow state DX'er very interesting. The R8 has created quite a bit of interest lately and we have a few more observations from club members that we will run in future issues. Just in case you are wondering why all the R8 reviews and non for the new JRC NRD535; I understand that our new equipment reviewer Alan Johnson is preparing one for next month.

Is That *Really* Haiti I'm Hearing?

by Kris Field

In the fall of 1989, along with other SWL's, I was hearing a station on 4930 kHz from about 1030 to just past 1100 UTC. I'm still not sure whether it was propagation, or what, but a relatively strong signal would just "appear" out of the blue any time past 1030 UTC with a program already in progress, and announcements in a French-like language. At 1100 each day, bells or chimes and what sounded like a station ID were heard.

I was already thinking this was the reactivated 4VEH from Haiti broadcasting in Creole, but couldn't get a real clear ID, no matter how hard I listened or how many times I played tapes back. I was fairly sure I was hearing Cap Haitien mentioned at the top of the hour, so I sent a reception report in hopes of verification that this was 4VEH.

Imagine my disappointment when a letter was returned with historical information about 4VEH but no verification. Disappointed, yes; did I give up, no! Along with the information I received was the address for The Oriental Mission Society International, Inc. the owners of 4VEH headquartered in

Greenwood, Indiana. Right here in the good old U.S.A.!

I was soon on the telephone inquiring who I might talk to about my reception of 4VEH. I found myself talking to Mr. Bob Erny, the Vice President of Field Operations for OMS. Were they broadcasting in September of 1989? Where could I send a tape of one of the broadcasts I heard? And other questions. Mr. Erny was travelling to Haiti in the near future and would be glad to carry my tape with him for the station personnel to listen to. So off went a copy of my original reception report and a sample tape of some of the broadcasts I'd been hearing.

I finally received a letter from Mardy Picazo at 4VEH! Mardy and his wife, Rachael, work at 4VEH and were happy to confirm that I had heard one of their Bible broadcasts in Creole. Accompanying this nice, personal letter was a full data QSL card verifying my reception from September, 1989!

Information about the station arrived along with the QSL. I read all of it and found other sources of information about Haiti. I thought

I'd enjoy sharing some of my findings with you in the following station and country profile.

4VEH: The Evangelistic Voice of Haiti

Radio station 4VEH was founded in 1950 by Rev. G.T. Bustin who was with the East & West Indies Bible Mission. Their broadcasts originated in the back room of a simple church. Its mission: to broadcast to the people of Haiti, the Dominican Republic, Cuba and others living in the East & West Indies. (When I think about the Caribbean or the islands of the East & West Indies, I think about all of the wonderful resorts listed in the travel section of the newspaper. What I found out about the island of Haiti and the living conditions of its inhabitants was quite to the contrary. A little background might be appropriate.)

Haiti - The Island Nation

Haiti shares the western third of an island with the Dominican Republic just southeast of Cuba in the Caribbean Sea. In the 1700's it was a rich French colony of sugarcane and coffee plantations. Haiti, today is inhabited by approximately 6.4 million people and is one of the world's poorest countries. Income is low to nonexistent, illiteracy high, and superstition and voodoo are a way of life for many Haitians. The once rich farmland and forests of the country are mostly gone and erosion continues to strip the soil. Factories provide some employment, and any farmers that are left tend only small plots to feed their own families.

Many Haitians have left Haiti and work as migrant farmhands in the sugar cane fields of the Dominican Republic and farms of other countries in Central America. Those that have left Haiti seeking better lives elsewhere find themselves all but enslaved in the migrant work camps they live in. They work long hours for less than subsistence wages and cannot earn enough to pay their debts to the camps and are thus stuck there just trying to keep themselves alive while longing for home.

La Voix Evangelique d'Haiti is primarily a religious broadcaster. But along with the religious messages of hope and peace come various programs containing news of world

*Giving the winds
a mighty voice...*



events, hurricane warnings, local issues and important programs to help Haitians develop economic and agricultural skills to better their standard of living.

In 1958, Rev. Bustin relinquished his ownership of 4VEH to OMS International, Inc. The station had moved out of the church where it began to its own studios in Vaudreil. The transmitters were located seven miles away beside the Cap-Haitien harbor, on salt flats ideal for transmitting. In 1961, a 10

kilowatt transmitter went on the air. A second 10 kilowatt transmitter entered service in 1969. Initially the programs were transported from the studios to the transmitter building until an FM transmitter link was established in 1965. This allowed broadcasting directly from the studios.

In 1967 Radio 4VEH began broadcasting in two languages simultaneously; Spanish or English on one frequency, and French-Creole on another. To further help get its message to the people, radios built by Bible school students and pre-tuned to only receive 4VEH were distributed to people in rural, hard-to-reach areas of Haiti. This distribution was discontinued several years later when tunable radios became more readily available.

In 1973, 4VEH opened an office and a studio in Cap-Haitien where it shares facilities with the OMS operated Good News Bookstore. Its staff employs more than 20 Haitians and in 1977, one native born Haitian, Gaudin Charles took over as director of the station.

In 1990 Radio 4VEH celebrated its 40th anniversary as a broadcaster. Per Mr. Erny of



OMS International, the station began as a shortwave broadcaster, but has not been able to remain active 100% of the time in recent years. According to the letter I received in March, 1991, during the previous 9 months, the local utility company had failed to provide dependable electricity. Other common government services like water, telephone and police protection were also mostly ineffective or nonexistent. Without electric power, Radio 4VEH which broadcast with 1200 watts on 4930 kHz in the 60 meter band,

has not been able to be kept in operation. Broadcasts on 1030 kHz and 840 kHz (10 kW each) had been cut back to a 3.5 hour broadcast schedule each day. Its FM broadcast on 95 MHz with 10 watts, was using battery power.

The OMS publication for February, 1991 4VEH TRANSMITTER claimed that schools had been closed since December, 1990 and "Hit Lists" with names of those to be killed circulated. The Director of 4VEH and its Chief Administrator's names were reported to be on this list.

What's ahead for Radio 4VEH is uncertain. I spoke again with Mr. Bob Erny, at OMS International, Inc. in early October, 1991. With the coup that took place, he says that the situation has been very tense; there has been rioting and burning all over Haiti.

4VEH has historically remained totally neutral to the politics in Haiti over the years. Even when pressured to broadcast propaganda, the station has remained firm and said no. In the long run, this has proved to be an asset to 4VEH. They stay in good with everyone.

The station along with a church, is built inside a kind of a compound consisting of a low stone wall and some hedges. Medical personnel, and approximately 8 missionary families affiliated with 4VEH live in the compound. It's very interesting that when threatened with violence, the surrounding community of Haitians have gathered to defend the station, its personnel and the missionaries. This certainly displays their support for Radio 4VEH and the work it does.

The recent political upheaval has forced the station personnel and the missionaries to be on a constant alert, and ready for evacuation at any time. Women with children left the island in early October shortly after the coup took place.

Having spent decades being ruled by the Duvalier family and other dictators, oppression and unrest are nothing new to the people of Haiti. 4VEH has persevered for 40 plus years on shortwave. As we see shortwave stations around the world disappearing due to unrest, financial cutbacks, moves to satellite systems, etc. one can only hope that 4VEH is eventually able to return to shortwave. Its listeners in the Caribbean have grown to depend on it as a window to the world and rely

on its message of hope and better times to come. The current FM and AM transmissions take care of the local population, but shortwave could provide wider coverage for transplanted Haitians and let the rest of the world know more about daily life in this country.

If you would like further information about Radio 4VEH, the following addresses may be used:

Radio 4VEH: The Evangelistic Voice of Haiti

P.O. Box 1
Cap Haitien, Haiti, West Indies

Radio 4VEH: The International Radio Voice of
of
OMS International, Inc.
Box A
Greenwood, IN 46142

I'd like to thank Mr. Erny of OMS International, Inc. and the Picazo's for the information they provided that helped make this article possible.

RIP VAN WINKLE MEETS THE DRAKE R8 [or, "Where's the Bandsread On This Thing?"]

by: Jerry Berg

Birthdays are getting tougher, but this one was offset by a nominally surprise gift of... a new Drake R8! Do you think putting the brochure on the refrigerator and reminding the XYL that they were two weeks behind in shipping was unsubtle?

Anyway, being a hollow stater [HQ-180A, R390A], this is not just a new receiver, it is a change in DX lifestyle. Here are my impressions after a week of use.

Reception In General. Others have said the rx is quiet and I agree. I can't detect any background hiss whatsoever. There's the usual microprocessor dull "popping" as you tune around, but it's not particularly bothersome.

Mode, Bandwidth And Ergonomics. Drake has taken a lot of hits for how some of the controls and defaults are set up, but they have corrected the bigger problems and those remaining aren't that serious, at least to me.

The rx offers six modes of operation—AM, FM, CW, RTTY, LSB and USB. You choose among these by a single push button. You have to cycle through all the positions in forward sequence to move from one mode to another, i.e. to get from USB to LSB you have to push the button five times. The bandwidth switch operates similarly, with five bandwidths—6.0, 4.0, 2.3, 1.8 and 0.5 kHz. To get from 2.3 to 6.0, you must depress the switch three times.

This arrangement was probably more of an inconvenience when the rx defaulted to certain manufacturer-set bandwidths every time you switched mode, requiring you to reset bandwidths constantly. This is no longer the case, however. Bandwidth defaults are now user set and remain as you set them until you change them.

You get used to the multiple presses on mode and bandwidth pretty quickly, but Drake ought to either permit you to eliminate seldom-used positions (thus reducing the length of the switching cycle) or use a switch that cycles through the positions automatically while the switch is being held down (a single press).

The bandwidths were well selected for SWBC work. I usually stay in 2.3 while tuning around. The audio remains surprisingly decent in 2.3 and 1.8. I'm not sure just how steep the skirts are, but they seem okay (although on this count the R8 does not outperform an HQ-180A equipped with a Q-multiplier, an arrangement which will split hairs several times over).

The R8 has two VFOs. This (to me) is a real novelty. If you are listening to a station using VFO A, you can press a button and continue tuning with VFO B while your original station remains in VFO A. You can then switch back and forth between the two channels with the press of a button. This is a great convenience for checking parallel frequencies.

Passband Offset. This is a very nice and very effective feature, a little like listening in USB or LSB AM on the HQ-180A (sidebands are independently selectable in all modes, including AM, on the HQ-180A). It moves the bandpass across the carrier frequency, often tuning out interference from stations outside the bandpass. It also enhances fidelity and thus improves intelligibility (highs are emphasized as the bandpass moves away from center position). This is an important feature.

Notch. This is my only major complaint with the set. It's an audio notch, by definition not nearly as good as an IF notch. It helps on some hets, but its performance is not even close to that of the notch on the HQ-180A, which can get rid of almost anything. If there is an "R9," it should have an IF notch.

Tone Control. A single control. It helps, but it needs a broader range, especially on the bass side (to help moderate normal signal background noise). Separate bass and treble would be better.

Synchronous Detector. This is impressive. It improves the signal almost every time, often significantly, and it's often the lesser signals that benefit the most. It will lock on to even weak signals. On weaker signals this takes a few seconds (I kind of like hearing it "homing in"), but on better signals the lock is virtually instantaneous. And once it's locked it really holds on. It disengages if you change frequency, but turning the passband offset control, even rapidly, will not shake it. And if you have the synchro on when you turn the set off, it will switch on automatically a few seconds after you next power up.

AGC. It's two position, slow and fast, plus off. You will usually use fast. The decay time in slow is good; there is no loss of signal, even momentarily.

Preselector. It makes a difference, but like all preselectors it increases the background noise along with the signal. I generally tune with it off, and when I turn it on I sometimes reduce the RF gain a bit. You can use the preselector anywhere above 1.8 MHz (another change; earlier versions were useable only above 5 MHz).

The preselector button also has an attenuator position which reduces the level of very strong signals. However, the rx appears to have very good strong signal handling ability and I have yet to come across a signal that needed attenuation.

Noise Blanker. It has a wide and a narrow position. I haven't yet found anything to test it on (narrow is supposed to help with ignition noise, wide with woodpecker noise). Let's face it—these aren't usually worth much.

ECSS. I've always thought it was kind of gimmicky, but having a rx that facilitates it makes you a believer. ECSS is easy on the R8 and often improves readability significantly.

Audio. It's very good, even with the internal speaker, but if you're a "speaker DXer" (I am) you should use an outboard speaker for maximum performance (and to avoid beaming a lot of the audio up to the ceiling—as usual, the speaker opening is on the cabinet top). In mid-November Drake was still not shipping its own matching speaker. Even with an external speaker, the R8 is not going to make your room resonate quite the way the old tube sets do, however. There's an "internal/external/both" switch on the rear panel for speaker selection.

Frequency Selection. There are three basic ways of moving around (other than with the

memories)—you usually use a combination of the three:

(1) You can turn the main tuning knob to the desired frequency. It would be better if the knob were to the left of the keypad instead of to the right, but The knob is fairly light but the tuning is smooth, not toy-like, and there is no backlash. The knob has a finger detent permitting you to spin from place to place pretty quickly with one finger. The faster you turn the knob, the faster the receiver's rate of tuning, which is nice. But when you stop, it stops—there's no overshoot.

(2) You can use the two up and down buttons to the left of the tuning knob to increase or decrease frequency. Having these to the left of the knob is nice because you can move your thumb from the knob detent to these two buttons in one movement. Single depressions of these buttons move the frequency 100 kHz. If you hold the button down, the frequency will change at a speed of roughly one MHz. per second.

(3) You can enter the desired frequency on the keypad. When using the keypad you must enter a dot between the thousands and hundreds digits, plus another dot to "enter" the frequency. For example, to go to 15070 you enter 1-5-DOT-0-7-0-DOT. You need not enter trailing zeros, e.g. 1-5-DOT-0-7-DOT will also take you to 15070, 1-5-DOT-DOT will take you to 15000, etc. Drake should drop the first (MHz./kHz.) dot.

And while there is this unnecessary MHz./kHz. dot, there is no dot before the "first decimal place" where one is needed. Instead of [6005.23], you get [6.00523]. Drake ought to change this too.

The frequency comes up instantly after the second (entry) dot. If you forget to enter the second dot, the rx will automatically move to the desired frequency after a few seconds.

I guess the original software did not provide a "clear" function if you wanted to abort a keypad frequency entry, but it does now. You can cancel a keypad frequency entry by pressing F-DOT.

Frequency Readout. The digital display will read to 0, 1 or 2 decimal places, and readout seems to be right on the money. I believe a problem with the early software was that it permitted readout in AM mode only to 1 kHz. (zero decimal places). Now you can read out to 0, 1 or 2 decimal places in all modes, including AM, and select any one of the three as the default display readout for that mode. As noted above, the default bandwidth for each mode stays as you set it until you change it.

The tuning rate of the main tuning knob changes with the number of decimals displayed. The tuning rate is, of course, much slower when you have selected 1 or 2 place decimal readout than if you are in zero decimal position. This obviates the need for too fine a touch while tuning.

Other Keypad Functions. Besides frequency selection, the keypad is used to enter and delete memories, select scanning options, select and set the clocks, dim the display, select alternate display functions, etc. Most keypad entries as well as most other button presses sound a beep. If you prefer silent running, the beep can be disabled, also from the keypad.

Memories. Never having had a set with more than five memories, this is a real novelty for me. It's probably not the most intuitive arrangement that could have been devised, but then I still can't program my VCR either.

There are 100 memories, each of which holds just about everything there is: frequency, mode, bandwidth, AGC setting, preselector, antenna, notch on/off, noise blanker, even synchro. The memories can be partitioned into 10 blocks of 10. Each block is called a list, and the lists are numbered 0, 1, 2, 3, etc. You can access the memories in various ways by the keypad, the two

up/down keys or the tuning knob. I find the knob the most convenient. You call up whatever memory you want to start with and just "dial through" the list, or part of it. I can now dial through all those empty PNG channels in no time.

Scanning. The rx will scan in three "modes" and three "methods." The "modes" are: scan all memories, scan all memories within a block (or blocks), and scan between any two frequencies. The "methods" available for each scan are: stop the scan at the first carrier detected and end the scan, stop at each carrier for five seconds, and stop at a carrier and stay there until the signal drops for five seconds, then move to the next. It will probably take me years to figure this stuff out, but I can't see scanning having much importance to SWBC types anyway.

Cabinet, Etc.: The layout is clean, the display understandable. The controls are small by HQ-180/R390 standards, of course, but decent when compared with some of today's other receivers. Concentric controls aren't my favorite, but they do have a nice feel to them on the R8. The rubber keypad keys also feel solid, but the six under-the-display push buttons seem flimsy—time will tell whether they hold up. The good news on these six, however, is that they don't have to be hit head on to engage, so they work well on the fly. Maybe there was a method to Drake's madness. +++ You can select regular or dim display lighting, or turn the display off altogether, from the keypad. +++ Some have complained that the cabinet metal is too light, but frankly I wouldn't have noticed it—it's your basic consumer electronics weight cabinet. Receiver cabinets, like car bodies, aren't what they used to be, but this one seems okay to me. +++ Although it heats up a bit after several hours use, the R8 basically runs cool. The cabinet is usually warm in only one spot. +++ Fold down legs elevate the front of the unit by two inches, a nice touch that permits you to rest your hand on the desktop and operate comfortably. +++ There are a number of antenna inputs on the rear panel, and you can switch between two antennas from the front panel, also nice. +++ There are two constant-level audio output jacks (not affected by the volume control) for tape recording. +++ Among other useful rear panel features: a DC connector for portable (auto) operation, a four position AC voltage selector (in case you take your set to Europe), a DIN connector for timed operation of a tape recorder (which the R8 permits), and an RS-232C standard interface connector. I have heard conflicting views on the ease, or lack thereof, of developing computer software for this set. Drake says they're coming out with software for IBM compatible "to allow enhanced operation." Ditto a VHF converter for 35-55 and 108-174 MHz. +++ The manual: Not much technical data, but it explains how everything works. If I didn't know anything about shortwave listening per se, however, I wouldn't want to have to learn it from this manual. The manual contains several pages of RS232C interface information.

Miscellaneous. **Drift:** The R8 is rock steady. If it drifts at all, I can't detect it. +++ **The S-meter:** It's a real meter, not a digital replica, and the readings feel just about "right." +++ **Clocks:** There are two, and they show hours, minutes and seconds, but they are accessible only by pressing two keys and then they appear for only three seconds. The clock is continuously visible on the rx display only while the set is plugged in but turned off! Drake definitely has to rethink this.

Gremlins. I've found two so far, an unwanted, apparently internally generated signal of some kind on 15049 (uncomfortably close to those 15050 Europirates), and a weak "whistle" every 5 kHz. between 6000 and 6100 kHz. only. Hmmm... But whatever happened to all those birdies between 6200 and 6300 that I used to know and "love"? Not a trace of them.

Overall. Do I like the set? Definitely. Am I likely to hear anything on it that I couldn't hear on the hollow staters? Yes, but more because of the receiver's ECSS capability and the memory-facilitated ease of being able to quickly check frequencies than because of any increase in rx sensitivity or selectivity. The set is a lot of fun to operate, and I like being able to move around the bands quickly. The R8 is a great way to enter the modern receiver age. But I'm leaving my "A's" right where they are.

Easy Listening

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'Tis The Season...

Aside from being a news junkie, I enjoy shortwave broadcasts highlighting different cultural traditions around the world. Christmastide affords a unique opportunity to compare how different peoples celebrate Christmas, and what different traditions are associated with the Christmas season.

This time of year also provides opportunities for year-end reviews. I've always enjoyed year-end reviews, whether they be local, national, or international in content. The primary reason: I enjoy the opinions of others as to what the major news stories have been over the past year. Sometimes my list of stories differs from the broadcaster's list. Here are some listings from the program guides on seasonal programs of interest.

BBC World Service

Meridian, the World Service's arts program, features an international "performance" Christmas party on December 24th at 2030, repeated Christmas Day at 0630 and 1130. One week later, Meridian reviews memorable moments from the arts in 1991. Meridian's scope isn't limited to the UK, as other exhibits and venues are explored.

In Praise of God looks at traditions of the Advent and Christmas seasons throughout December. Those familiar with the Episcopalian/Anglican and Catholic traditions of Advent may find the series particularly interesting. Sundays, 1030 and 1715, repeated Mondays at 0030.

Words of Faith features harpist Mary O'Hara reflecting on the colors of Advent during Words of Faith's Sunday programs. These air at 0540, 0809, and 2025.

Omnibus looks at the power and beauty of bells in its 18th December editions (0030, 1001, 1930); the life and legacy of Good King Wenceslas is explored on the Christmas Day program (1930 and 2330, repeated Thursday at 1215).

Quiz fans: **Screenplay**, a film quiz

program, begins an eight-week stint on Monday, December 23rd at 1715, repeated Tuesday at 0030 and Wednesday 0830. This 23rd December program includes extracts from a long list of films having a Christmas setting. The following week's program shows up at different times: 0330, 0830, and 1715 on Monday, December 30th; a third repeat airs Tuesday, December 31st at 0030.

Her Majesty Queen Elizabeth continues a nearly 60-year old tradition on Christmas Day with a message to the Commonwealth. **The Queen's Christmas Message** airs at 0900, 1500, and 2300; North American frequencies normally closing at 1500 (15260, 9515, and 6195 kHz) are extended for the Queen's message.

Sports Roundup takes Christmas Day off, but Colin Maitland will take a season-inspired look at **The Funny Side of Sport** on its Christmas Day editions, 0315, 1245, and 1745.

Much as many Americans celebrate Thanksgiving Day with NFL Football, Boxing Day (December 26th) sees a big football (soccer to us) program in England. It's covered in a special edition of **Sportsworld** at 1615.

Drama is not ignored in the BBC's Christmas programming; **A Christmas Cracker** looks at some of the literature, drama, and poetry of the past. Many long-accepted Christmas traditions are explored in the play.

Off the Shelf, a three-part rendering of "The Shepherd", Frederick Forsyth's story abridged for radio, on December 25th through 27th. 0430 and 1430 UTC.

A vintage comedy favorite, **The Men from the Ministry**, is the source of three 30-minute episodes beginning December 11th. A special Christmas Day edition airs at 1530, and is repeated the next day at 0030 and 1030.

Holiday music is also featured on the World Service, as the King's College Festival of **Nine Lessons and Carols** airs on Christmas

Eve at 1502, and is repeated Christmas Day at 0030 and 0930. This continues a broadcast tradition dating back more than 60 years.

In 1991 year-end reviews:

The comedy satire team *Two Cheers* takes an irreverent look at the year that was in its *Two Cheers for 1991*, Wednesday, January 1st at 1530, with repeats Thursday at 0030 and 1030. A portion of the satirical review of 1991 appears in the December issue of *London Culling*; judging by this excerpt, the program looks like a winner.

1991 In Sport is also reviewed in Paddy Feeny's *Sports Review of 1991*, Christmas day at 2220, repeated December 26th at 0230 and 0630, and on December 28 at 1430.

Other Seasonal Specials

Radio Netherlands has a special documentary in its 0030/0330 UTC December 26 English program. That's Christmas night here in North America. Pete Myers will present a special documentary looking at events over the past decades during Christmas Week.

HCJB will have several programs with a Christmas theme. On Tuesday, December 24, "Dateline 90" will travel back in time to Bethlehem for an "interview" with the participants of the first Christmas. Every Wednesday (to North America) in December, "Happiness Is" has a Christmas theme. Christmas carols from around the world will be featured on December 11; a special dramatization of life and activities at Christmas time will air on December 18; December 25, the English Language Service staff members will describe their own designs of Christmas cards.

The Friday editions of "Happiness Is" also feature Christmas themes; the December 13 program looks at Ecuadorian customs and foods during the holiday season. The December 20 program has a special Christmas drama. Both "Dateline 90" and "Happiness Is" are featured as the second half-hour in the *HCJB*-produced block *Studio 9*, shown at 0030/0230/0500 to the Americas.

Deutsche Welle will report on Christmas in Germany during the holiday season; no special times or programs are shown, but the Wednesday, December 25th 0100/0300/0500 and December 26th programs will probably

have special Christmas content.

Other BBC World Service Highlights

The Birth of The Big Bands is a four-part series beginning on Sunday, December 15th at 0230, repeated 1615 and the following Monday at 0730.

The World Service has several programs commemorating the 200th anniversary of Mozart's death; most are multi-part series that will begin before you've received your December *Journal*, but will continue thereafter.

Mozart: Prodigy of Nature uses Mozart's own diaries, letters, and family memoirs to separate myth from truth in Mozart's life and accomplishments. This nine-part half-hour series begins Tuesday, December 3rd at 1030 with repeats Fridays at 0030 and 1715.

The Mozart Phenomenon analyzes Mozart's music, personality, piano skills, and composing methods in a nine-part 15-minute series beginning Saturday, December 7th at 0745, repeating Mondays at 0145 and Tuesdays at 1445.

The Mozart Years features compositions of Mozart's contemporaries, including Salieri, J. S. Bach's sons, Cimarosa, and Paisiello. This five-part series begins Sunday, December 1st at 1515, with repeats Tuesdays at 0815 and 2315.

Around the Bands

The Thursday 0030/0330 broadcasts on *Radio Netherlands* through 19 December will have documentaries on Eastern Europe during the 31-minute feature segment following "Newline." The contributions of Dutch investment to the average person's quality of life will be explored.

HCJB has inaugurated a new weekly 45-minute telephone call-in program, *Open Line*, Tuesdays at 0130. Ken MacHarg will host, and plans to offer a variety of subjects for discussion, including current events, social and theological topics, and guest interviews. From the USA and Canada, dial 011-593-2-241-560. To keep phone charges down, the phone won't be answered until just before you go on the air.

Deutsche Welle's "Living In Germany" on December 15th at 0100/0300/0500 will look at the Distinguished Service awards

process, a process that is probably similar to the Presidential Medal of Freedom here in the USA. Approximately 6,000 Germans are honored with Distinguished Service crosses each year.

Many stations omit their current affairs programming on their weekend broadcasts; Radio Sweden does the opposite in their Saturday 1530 broadcast, with a nicely packaged "This Week in Sweden" addressing Nordic developments in greater detail than in their weekday news analyses.

Radio Moscow

The continuing implosion of the Soviet economy was bound to impact Radio Moscow's English language services eventually; the following information was posted to GENie by Jim Frimmel.

"As of December 1st, Radio Moscow World Service will be altering its programming because of budgetary constraints. It specifically concerns the North American Service, which will be integrated in the World Service, though some of its most popular programs will remain intact.

"Our North American Listeners will continue to enjoy Joe Adamov's Mailbag on Saturdays and Sundays on 19 and 22 hours GMT after the news bulletin. The Top Priority feature can be heard at 1930 hours GMT on Fridays, Saturdays, and Sundays.

"Our North American listeners will also have a large choice of musical features on various days of the week at 2030 and 2230 hours EST. At 23 hours EST during the week, we will have various features such as Newmarket, Mailbag, Science and Engineering, Russian by Radio, Audio Book Club, and Culture and the Arts."

It would seem that the ratio of music to news/feature programming during the North American Service times will be closer to the ratio during Radio Moscow's World Service broadcast hours. The current affairs programs "Update", "Outlook", and "News and Views" weren't specifically highlighted in the block above.

Shortwave RadioGuide News

NASWA's John Figliozzi dropped a line reminding me the next update of John's Shortwave RadioGuide will soon be available from the NASWA Company Store. The update will incorporate schedule changes brought about by summer time/winter time changes, as well as schedule adjustments such as the Radio Moscow information shown above. John also is adding articles on changes in the shortwave broadcast scene, best places to listen to regional news, and suggestions on the best examples of different program types. John will also be adding rough frequency information for broadcasters that have developed reliable frequency usage patterns. With so much programming available nowadays, the RadioGuide helps me "zero in" on a particular program type or broadcaster.

Feedback

Aside from John Figliozzi's note, and except for the usual junk mail and bills, my mailbox was pretty quiet this past month. Your comments and suggestions on the column are always welcome.

Best Wishes for a happy and healthy holiday season. Happy new year!

Until next month, 73 DE Richard

SW Radio Listeners Tour To China

This summer, Bruce MacGibbon was invited to visit R. Beijing as the only U. S. winner of the Radio Beijing Chengde Cup Travel Knowledge Competition. He had such a good time being wined and dined by the tourism folks that he has decided to try and promote a SW Radio Listeners Tour to Shanghai, Beijing, Chengde and Xian for 10-14 days in the Fall of 1992. He has enlisted the aid of Glenn Hauser who will help with and accompany the tour.

The estimated all inclusive cost of the trip is \$1399 including air transportation from the west coast of the U.S. East coasters can expect to add \$200. Bruce is compiling a list of names of people that are interested in going on this tour. He will get in personal contact with each person that replies. Write to Bruce at 2295 NE Juniper Ave., Gresham, Oregon 97030

Listener's Library

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



Well howdy! It's December already, with the worst year on record for dawn DX from North America to Asia. Here in the Center of the Continent, we did not have a Fall Indo season at all, and the fabled Subcontinental Season has started out equally poorly. On the other hand, my (former) friends who tend to DX in the evenings report some absolutely fabulous catches from Africa, Latin America and even Asia. And my mother always told me that it was the EARLY bird that catches the worm!

THE BRIGHTER SIDE: FBTO

On the brighter side, the dearth of dawn DX has let the old Librarian really dig into the books and magazines. I've spent a great deal of time reading articles of specific interest to SWLs in back issues of the radio amateur magazines. I had a real 'Open Sesame' experience when I discovered a totally automated data base/bibliography of all articles ever written in all major US amateur magazines. Called "From Beverage to Oscar," this wonder is keyword searchable in very sophisticated ways. Would you like a list of all of the Beverage antenna articles ever published in the US? FBTO will darn sure tell you...starting with Dr. Harold Beverage's article in the November 1922 issue of *QST*! Would you like to read the reviews, published at the time of their introduction, of the Drake R-7A from the 1970s or the National HRO of 1930s? Well, a dive into the FBTO database and a trip to your local main library will open a whole new world! I'll review FBTO further in January. In the meantime, the database is available for \$79.95 from Didah Publications or The HR Bookstore. (1-800-457-7373)

The price shocked me, at first. However, FBTO is the product of a TREMENDOUS amount of effort - unpaid effort - by a single man -- Richard J Rosen, P.E., K2RR. Compiling, keywording and inputting the almost 4 megabytes of information was truly a labor of love. With FBTO, Mr. Rosen has and is a lasting contribution to all of the radio hobbies! You might ask your local library to purchase FBTO as a reference for all patrons interested in radio.

STOP THE PRESSES

Elton Byington of New York has made several really fine contributions to the Library in our first two years. He checked in recently via Compuserve with the following absolutely super review:

Empire of the Air The Men Who Made Radio.

by Tom Lewis New York: Harper Collins Publishers, 1991. 421 pp. \$25.

Lee de Forest, Edwin Howard Armstrong, David Sarnoff, are names from the history books we that read in school. They each spring to life in this beautifully readable companion book to Ken Burns's PBS-TV documentary of the same name. [See following review....JHB]

Lee de Forest is widely known as the inventor of the triode, the three-element vacuum tube that stands as the seminal device of radio as we know it. De Forest's 1906 invention allowed for the first time the amplification of electrical currents, yet the inventor had no clear idea of how it worked. Howard Armstrong, on the other hand, did understand the workings of de Forest's "audio." He used that knowledge to transform the little glass bulb into the key invention of the first half of the century.

In 1912 Armstrong reasoned that he could improve the amplification of the audio by returning a portion of the amplified signal to the tube's input circuit, thus allowing it to be amplified again. By closely controlling the amount of feedback applied, enormous amplification could be achieved. The amount of feedback was critical, however: a little too much and the circuit began to oscillate, becoming, in effect, a transmitter. The principle of regeneration was born.

Seven months younger than Armstrong, David Sarnoff was at the time a wireless telegraph operator for the American Marconi Company in New York. Sarnoff was no ordinary telegrapher; he grasped early on the concept of "broadcasting,"

as opposed to the point-to-point nature of wireless telegraph.

Born in a Jewish shtetl in central Russia in 1891, Sarnoff emigrated to the United States with his mother in 1900; they joined his father, who had left Russia several years before in search of a better life. The family settled into the teeming ghetto of the Lower East Side, near the East River.

Life was tough for immigrants at the turn of the century, but the young Sarnoff was determined to make the most of it. In a very few weeks, he had learned English well enough to read a newspaper. Although his formal education stopped in 8th grade, he was a voracious reader and was technically adept enough to understand the arcane aspects of the radio "art."

Author Tom Lewis paints a vivid picture of the three men and of the era. Their collisions in law courts -- protracted affairs that consumed vast amounts of money and manpower for nearly 40 years -- are the stuff of legend. Lee de Forest is portrayed as an opportunist, appropriating others' inventions as his own; suing Armstrong for the rights to regeneration, and winning in the Supreme Court -- twice.

Lewis contends de Forest's motivation was money: the inventor was obsessed with it throughout his long life. Although he came from far more modest circumstances, David Sarnoff's drive was not for money, but rather for the power that money bestows.

Sarnoff became a titan of industry, an enormously powerful man, yet he never became truly wealthy. But, says Lewis, David Sarnoff was obsessed with his own legend: his oft-told story implying his was the sole wireless link with the sinking Titanic in 1912; his wish to be known as the founder of the Radio Corporation of America; his visionary "radio music box" memo of 1916; his fervent desire for a second star to cap his military service during World War II.

Major Howard Armstrong -- who earned his military rank for his tireless work during World War I -- went far beyond the design principle of regeneration to develop the superregenerative and then the superheterodyne receiving circuits. He also went on to design and build the wideband frequency modulation system used for radio

and TV broadcasting today. His visionary ideas applied during the development of FM even included a system of signal multiplexing that made today's stereo broadcasting possible. The rights to and income from each of his achievements were disputed in the courts, and he jumped to his death from an apartment window in 1954 when he could no longer take the pressure of litigation. (His widow would win all his suits during the late 1950s.)

According to Lewis, David Sarnoff's greatest accomplishment was his guidance of RCA through the development of all-electronic television, first black and white, then color. It took great courage to face down his shortsighted and profit-hungry board of directors and his stockholders to develop these new communications media. He convinced them all to forego short-term profits to assure a stronger, more lucrative RCA in the future. He persevered, changing the world in the process.

And Yale-educated Dr. Lee de Forest continued to invent: a system of recording sound on movie film; a radio-guided bomb; a telephone answering machine. None were successful. Yet his experimental introduction of a wire grid between the filament and the plate of a Fessenden Valve earned him the title Father of Radio.

We should all remember that the state of the radio transmitting art in 1919 was the huge, mechanical Alexanderson Alternator, capable of developing a continuous-wave carrier of 200 kW at a frequency of 100 kHz. A year later, licensed broadcasting began in America, changing the world forever.

Tom Lewis has told his story well: he makes you wish you could have met some of these men in person.

Thanks so much, Elton! *Empire* is a wonderful book. I'm half way through it, myself. If you are interested, check in the New Books section at you local library or invest \$25 in this superb book.

In the past several months, I have been picking up rumors that *Empire of the Air* was being made into a television production by Ken Burns of *Civil War* fame. Not long after Elton checked in with the *Empire* review, NASWA's Eric J. Johnson of PA checked in with the following true....

*****NEWS FLASH*****

I had the great privilege last night of seeing a sneak preview of "Empire of the Air" the newest film by Ken Burns (of PBS's recent 'hit' broadcast "The Civil War"). The showing was hosted by author of the book and co-producer of the film: Tom Lewis.

This film is fascinating, both because it tells much of the now forgotten history of radio, and because it captures much of the mystique of the medium. It tells the story of the development from Marconi's radiotelegraphy to powerful commercial medium. The story is told as a simultaneous biography of three men: Dr. Lee de Forest, E. H. Armstrong, and David Sarnoff.

The author, Tom Lewis introduced the film as an American version of the Greek Tragedy, which I found a very apt description. It is a complicated tale of greed, the history of innovation, technology, and individual greed, pride and heroism. This program is terrific, and everyone will want to watch it! Lewis himself was quite fascinating, and clearly a fan of the magic of the radio medium. PBS plans the broadcast for the evening of January 29, 1992. Check you local PBS listing.

Thank you, Eric. You were most fortunate to see the sneak preview. Thanks so much for sharing it with all of us!

ELECTRIC RADIO

I heard a rumor about 18 months ago that there was a new publication called ELECTRIC RADIO and that it was published in the intriguing town of Hesperus, Colorado. For some reason, I didn't chase the rumor down; I got a real shock when Harry Helms sent me his copy of the June 1991 issue to review for Listeners Library. ELECTRIC RADIO, "Celebrating a Bygone Era," is published for amateur radio operators and others who appreciate vintage (tube) radio equipment. The magazine hopes to stimulate the collecting of and interest in this kind of gear; it provides information regarding the modification, repair and building of (tube) equipment. ELECTRIC RADIO has very good feature articles. The April 1991 issue had an article on the acquisition of a Viking II amateur transmitter to be used (on 4910v) by HRXK, La Voz de Miskito. There was also an interesting feature on a mystery Collins transceiver

prototype, which was never mass-produced, but which was found for sale in a ham fest.

In the April issue, the monthly "Reflections Down the Feedline" column provides background/introduction to the sub-sub radio hobby of the radio tube collecting. The April "Electric Radio in Uniform" column contained an eight (!) page article on the development, design, use and restoration of the BC-611, the original WWII - walkie-talkie! Even though this article was somewhat slanted to radio amateurs and to military radio buffs, I still found it fascinating reading. Didja know that the all-glass miniature 'peanut' tubes were likely developed for the walkie-talkie as the worlds first hand held transceiver! For NASWans, the centerpiece of the article line up is surely the excellent technical review of the vaunted R-390-A. The 40 page Electric Radio (same size - format as the Journal) also contains an excellent sections titled "Collecting/Repair/Restoration...Tips" and an interesting "Letters" page.

If you are into collecting vintage communication receivers like I am, maybe the very best part of the magazine is the Classified Advertisement section. In the June 1991 issue, probably typical, this 10 page long(!) 'back o'the book' section is exclusively devoted to TUBE GEAR.

Frankly, if your major interest in gear is tube communications equipment, your money is by far best invested in ELECTRIC RADIO rather than either *Antique Radio Classified* (mostly vintage consumer gear) or *Ham Trader Yellow Sheets* (general ham gear). If you are a tube SW radio nut this is a Listeners Library *BEST BUY*

Sample copies of ELECTRIC RADIO are obtainable from the publisher for \$2.00. Subscriptions via Second Class Mail are \$20.00 per year and via First Class costs \$30.00. Order from ELECTRIC RADIO, Box 57, Hesperus, CO 81326 and tell 'em the Librarian sent ya.

There is just enough room to wish each of you the happiest possible holiday season!

73's John B.

African Destinations

Dr. Harold Cones

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Newport News, VA 23606
Compuserve 71570.411



This month I would like to do something different-and a bit unusual-with the *African Destinations* column. Rather than take you far away, I would like to steal some of John Bryant's thunder and take you to the library. Feeling that the listening hobby is more enjoyable when one possesses some knowledge of the target area, I have assembled a reference list designed to help with your understanding of African history, culture and affairs. Let me know what you think.

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Over the past year or so you have seen references in *The Journal* for Compuserve, GENIE, Pinelands RBBS etc. If you own or have access to a computer and a modem, you can join in on some very interesting discussions related to our radio hobby. This month we are going to give you a little insight into GENIE, an online service owned and operated by General Electric Information Services. Many NASWA members frequent this service regularly and as you will see, the price can't be beat.

What is GENIE?

The GE Network for Information Exchange (GENIE) is an international computer information service offering hundreds of on-line services. Under GENIE Star*Services, for \$4.95 per month you can enjoy unlimited non-prime time access to the professional and hobby bulletin boards (including the RADIO RoundTable BB), electronic mail, games, and many more features. Non-prime time access to software libraries, real-time conferences, and RoundTables not covered under Star*Services carry a low, low hourly charge of \$6.00, a bargain by any measure! Non-prime time is 1800-0800 local time weekdays and all day weekends and holidays. Plus, there is no sign-up fee!

The Radio, Electronics, and Broadcasting RoundTable (RADIO RT) consists of a bulletin board, software and file libraries, and a real-time conference area devoted to all aspects of radio electronics. The RT staff are seasoned professionals and/or accomplished hobbyists, assuring you of the most dedicated and competent service. Bulletin board discussions are lively and informative. The software libraries have hundreds of megabytes of useful tools, frequency lists, schedules, and more. And every Sunday evening the RADIO RT gathers in real-time conference for a LIVE shortwave listening session. Get DX tips from the best!

For more information, call 1-800-638-9636 (voice).

To sign up, follow these simple steps:

1. Set your communications software for half-duplex (local echo) up to 2400 baud. Use 8 bits, one stop bit, and no parity (8N1).
2. Dial 1-800-638-8369 toll-free. At connection, enter HHH without hitting the return key.
3. At the U#= prompt, enter XTX99574,GENIE, then press the return key.
4. Have a major credit card or your checking account number ready.

Listener's Classroom

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



Continuing with our series on completing a reception report, we started discussing in the last issue the Details of Reception. Mentioned were Signal Strength, Interference (QRM), and Atmospheric Interference (QRN).

D. Closely allied with atmospheric interference is a general assessment of "conditions." Nebulous judgments such as "good," "poor," or "bad," really do no one any good. State exactly why reception conditions are as they are. What is different in reception from other days? Are there solar storms? Is there a lack of stations from the same part of the world on the bands? An abundance? Was the band in a position of opening or perhaps closing to that sector of the world?

E. Fading: (OSB) — Did the signal's strength remain constant? Keep in mind that only your local FM station really has a constant signal. All others have a tendency to fade or wobble; some more than others. Fading is a propagational effect and, in most cases, if serious enough, can be corrected by a change in frequency to a different band. But a station has to know about it. Fading details are: (frequency of fading "F/M" = Fades per minute

5 - Nil	0-1 F/M
4 - Slow	1-5 F/M
3 - Moderate	5-20 F/M
2 - Fast	20-60 F/M
1 - Very Fast	Greater than 60 F/M

F. Modulation/Signal Quality: An assessment of the modulation and general quality of the received signal is useful to the station. Some stations have used defective audio equipment and never realized it until an enterprising DXer informed them of it. Distortion in the voices, poor musical reproduction (Rap, Rock, and C&W notwithstanding), under (or over) modulated signals can all be noted by the astute DXer and reported.

G. General: Any other details regarding the reception which the DXer feels are pertinent may be included after the above basics. For example, did the station's frequency drift (i.e., not remain on one constant frequency)? Be careful in assessing this aspect of reception, however, as many receivers also drift. It is important not to confuse the two. Receiver drift is minimized after an initial warmup period. This may be up to an hour or so in the older tube receivers. (Yeah, yeah. But the audio quality of those old guys are really great!) Another point that could be determined is, did the signal "cut out" (intermittent breaks in transmission) from time to time. At one time a few Middle Eastern stations would do this frequently.

H. Reporting Codes: Finally, a brief word regarding reporting codes. These codes are a numerical evaluation of a station's received signal. Their one disadvantage is that they are generally inadequate as far as expressing detailed information. The reporting code which has remained popular over the years is the SINPO code. In fact, many stations have requested this code be used. Originally developed by Deutsche Welle (the old Voice of Germany, Cologne, "West" Germany) the code designates five separate readings from one to five each, for each letter of SINPO. "S" stands for strength; "I" for man-made interference; "N" for noise by static; "P" is for propagational disturbances including fading or flutter (caused by trans-polar reception); and "O" for overall rating. This last rating, "O", is determined by adding together the first four readings and dividing by five. The chart will be outlined in the next issue. If you are not a member of NASWA you will need to immediately subscribe so as to not miss an exciting chapter in the Journal.

Two fine DXers have sent me material on their use of PC's in their pursuit of rare DX. A few more are needed in order to round out a good Listener's Classroom on the subject. Write today!

NASWA Portraits

Jerry Klinck
43 Lein Road
West Seneca, NY 14224



Hi to all again! Hope everyone is digging in to all that great autumn DX . . . I hope to join you again in about a month. Thanks to all who answered my plea for "map help". I just sent in my order to the USGS for a six-section monster . . . just the right size! And now, our guest NASWAN for this month, Cris Hazzard of New Hope, Pennsylvania.

"Although I grew up with an old Normende shortwave radio in my house, I didn't discover its' power till I was about 13. I remember punching the SW button, and there was a multi-lingual ID from Radio Prague. That was when I was hooked. A year later I saved up enough money for a small Phillips portable. At that time, my best logging was Radio Tashkent."

"Soon after I wrote to Radio Canada for a program schedule and I received a whole packet of goodies introducing shortwave radio. I rushed out and bought the WRTH, and I found the address for NASWA. I joined and really got hooked. Soon I was receiving my first QSLs from REE and Swiss Radio International."

"When I couldn't hear any more stations on my portable, I spent \$200.00 on a used Kenwood R-600 and a Sony AN-1 antenna. This opened up a whole new spectrum of stations. Now I had reports going out to Radio Rumbos (which only recently replied after 3 years) and Africa No. 1. As my countries verified swelled to 50 or so, NASWA awards started going up in my shack."

"When I'm not listening, I race bicycles (like Greg Lemond) and go to school at Penn State. Unfortunately, I race from spring to fall and don't get much time to listen." [Isn't that the nice thing about our hobby? It's always there to come back to, like an old friend. - ed.] "Two years ago I started racing in Europe occasionally so I bought a Sangean ATS-803A. I use this radio for

most SWLing and I mostly listen to BBC, RFI, Deutsche Welle in German and lately Croatian Radio."

"My main interest is definitely DXing though. In the fall of 1990, I became 'hardcore', stumbling out of bed every morning, dazed and confused, to hear far away stations that operate with less power than my microwave. Which is exactly why it is so much fun and rewarding. [I have been trying to explain that to my ladyfriend - ed.] My main interests now are in Southeast Asia and Ecuador. I have managed to hear quite a few Papua-New Guinea stations but have had less luck with the Indos. For this DX season, I have a new inverted V up and, hopefully the Indos will be in better."

"Lastly, I would like to thank everybody at Fine Tuning, the Journal and the whole gang from ANARC Net for doing a great job."

Thanks for writing in Cris, it's always fun to hear from the younger DXers . . . conjures up memories of 30 years ago. We've got some very interesting PORTRAITS coming up in the next few months and I hope to submit a feature on the life & times of a research and development technician at the Voice of Nigeria soon also.

Cris also notes that he hopes his profile is about the right length, but that is hard to judge because of the different format. This is understandable and all I can say is, when you send in your profile, try to make it a little on the long side. We can always edit it down to size.

Meanwhile, the drywall is all sanded and ready to paint, the floors are ordered, the trim is stained and THE ANTENNAS ARE UP! As my eldest daughter says: "THAT'S THE IMPORTANT part, right dad?"

If you haven't already done so, maybe the upcoming holidays will afford you a chance to sit down for a few and write a few lines about yourself, how you started in the hobby and the parts you like most. Also, please enclose a photo of you and/or your shack. Let hear from some of you NEW MEMBERS!



Equipment Review

Alan Johnson N4LUS
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Bethesda, MD 20817
CompuServe 76665,1756

ALLIED/RADIO SHACK SX-190

CAVEAT EMPTOR: There are two versions of this receiver which are identical in external appearance. The SX-190 is the SWL version and the AX-190 is the ham-band only amateur version. The AX can be converted to a SX, but a full set of new crystals to do this will cost as much as the radio itself.

The SX-190 came out during the early 1970's, shortly after Tandy had acquired the Allied trademark. It listed for \$250 and from the information I can find, appears to be a good radio. Its main competitor was the Drake SPR-4 to which it resembles very closely both in circuit design and operation. It was, however, about half the price of the SPR-4. It is all solid-state and can operate from 12 VDC as well as 120 VAC. It is dual conversion with a crystal-controlled first oscillator and a tunable VFO as the second conversion oscillator. It covers nine 500 kHz bands: 80, 40, and 20 meter ham bands, the 49, 31, 25, 19 and 16 meter international broadcast bands and the CB band. There are provisions for adding two additional 500 kHz segments of the user's choice, one in the range of 3-10 mHz and one between 10 and 30 mHz. Also, one can substitute another crystal for the CB range. These crystals are no longer available from Tandy, but I was able to obtain them from JAN crystals. Adding or changing a tuning range also requires adding a parallel capacitance across the crystal, the value of capacitance being given by a graph in the manual. The main analog dial is marked in ten kHz increments and a skirt on the tuning knob is calibrated in one kHz increments. A 100 kHz/25 kHz crystal marker is included for accurate dial calibration. A Q-multiplier circuit can be used as a CW peaking filter or an all-mode notch filter. There is a FET front end tuned by a very sharply tuning manual preselector, yielding good sensitivity figures, as well good image and IF rejection. Reception modes are AM, USB, LSB and CW with SSB/CW demodulation handled by a product detector with a crystal-controlled BFO. There is only a single IF bandwidth of 4/10 kHz at -6/-60 dB provided by a mechanical filter. This is a good compromise value for SWBC DX'ing, but is less useful for utility work, although the Q-multiplier adds a small degree of narrower selectivity. There is a front-panel headphone jack and a tape-out jack on the rear panel. The matching SP-190 external speaker was available as an optional accessory, for \$19.95.

When the SX-190 was first introduced, it was enthusiastically greeted by the hobby and amateur press as an excellent value. Many still consider it to be the best receiver that Radio Shack ever sold. It was especially noted for its prowess as a DX-grabber on the tropical bands, once it was set up to tune these segments. Favorable articles on the radio continued to appear in FRENDX up to about 1982. One problem that people noted with the radio was front-end overload on the 49 and 31 meter bands, which was curable with judicious use of the RF gain control, which is actually an attenuator before the 1st RF amplifier stage. Hams who used the AX-190 noted problems with the AGC, S-meter, BFO injection level and unwanted sideband rejection level when the set was used for SSB reception. These problems were addressed in articles in the March and July 1973 issues of CQ magazine by relatively simple circuit modifications. An article in the January 1978 issue of 73 Magazine gave instructions on adding a two stage RF pre-amplifier (not recommended for SWL use) and a November 1981 73 article described how to substitute a Collins mechanical filter for the stock filter. The wide-open interior design of the 190, with both sides of the printed circuit boards accessible, makes such modifications easy to implement. Re-alignment can be a bit of a problem, as all of the slugs in the coil cans are sealed with wax, except for the VFO calibration trimmers, which are all that most users will need to "touch-up".

The radio is fairly large, measuring 15" wide x 7" high x 10" deep. The few controls are widely spaced and equipped with large knobs. Operation is very simple: turn the unit on, select the band and mode of choice, peak the preselector for maximum noise and tune in the signal. The preselector is marked in 1 mHz increments in two bands. By off-tuning the preselector, a range of frequencies 5.3-5.8 mHz higher than the marked crystal frequency can be tuned, although the dial will read backwards. For the most accurate dial calibration, the 100 or 25 kHz crystal marker nearest the desired frequency can be used. On my SX-190, just setting the calibration once at mid-band is quite adequate, yielding dial readings 2 kHz high at the top end of the dial and 2 kHz low at the low end. The tuning knob covers 50 kHz per revolution. Its heavy weight makes spinning across a band quite fast, while its 3 1/4" diameter makes fine tuning a breeze. Audio output is quite adequate, although fidelity is somewhat limited by the relatively narrow filter. I find that I usually off-tune most strong stations by about 1 kHz to increase the treble. The narrow filter really pays off when interference is present, however. I don't find the Q-multiplier to be very effective, either in the peak ("select") mode to narrow selectivity or in the notch ("reject") mode to reduce heterodynes. Perhaps I need to check the alignment of the Q-multiplier. The usable sensitivity is very good, making the 190 a good performer with almost any antenna. Circuit noise is low, due to the lack of a synthesizer.

These radios are rarely seen on the used market. I don't know whether it just wasn't a big seller or if people are holding on to them. (Ed Shaw in the April 1977 FRENDEX declared "I have two and will not part with them.!!") The average price seems to be \$75-\$125 depending on condition. Copies of the service manual are available from Tandy National Parts. It's a fun and effective performer, whose ease of use makes it an ideal way to introduce a newcomer to the hobby and whose low-power consumption (10 watts with the dial lights on) makes it a candidate for field use.

fine tuning Special Publications is pleased to announce the publication of the definitive references for those interested in DXing the beguiling and romantic islands of Indonesia:

fine tuning/OZDX

1992

SURVEY OF SHORTWAVE BROADCASTING ACTIVITY IN INDONESIA

The Survey was first published in 1984 and has been updated and republished biannually. The 1989 Survey was a joint effort of it and the Australian group OZDX. The 1992 SURVEY has been almost totally rewritten by the well known DXers David M. Clark and John Bryant. They drew from their own extensive logs, those of OZDX, as well as those of other DXers around the world. This year, for the first time, *The Survey* benefits from the extensive loggings of Indonesian DXer Aboe N. Thalief. *The Survey* contains two sections. The **By Frequency** database lists location, power, full schedule for most and extensive notes. The **By Location** section rearranges the data to aid in DXing narrow openings. The database is current as of November 1991 and is, by far, the most complete reference ever published on current SWBC activity in Indonesia. Over 25 pages and 280 station listings. \$5.00 US + \$1.00 shipping and handling.

DXer's Handbook INDONESIA

by John H. Bryant

The DXer's Handbook: INDONESIA was first published in 1985 and has been out of print since 1987. Most DXer's of Indonesia consider John Bryant's Handbook THE essential reference when DXing or SWLing these fabled lands. John is an East/Southeast Asian expert professionally and brings these insights plus years of DXing experience to bear while demystifying the broadcasting system of INDONESIA. This book, updated in 1991, was written as a long term reference. It contains a concise profile of Indonesia, a followed by chapters outlining the history of the country, governmental structure, a chapter on the organization of shortwave broadcasting and a guide to decoding Indonesian station ID's. Tips on obtaining QSL's are offered as well as discussion of preparing your own Indonesian QSLs and an extensive cut-and-paste library of Indonesian graphics. There is an extensive narrative and guide to the Indonesian stations on New Guinea Island, as well as maps and indices unavailable outside Indonesia. Appendices contain more on governmental structure, sunrise and sunset times and handy conversion charts for converting frequency to wavelength. The Handbook is 35 pages long in a photo-reduced format (equivalent to 55 single spaced pages) and is available for \$7.00 + \$1.00 shipping and handling.



SPECIAL OFFER!

Order both *The Survey* and *The Handbook* as a set and 'WE PAY THE FREIGHT.' Receive a \$14.00 value for \$12.00. Payment in US funds or checks drawn on US banks. Orders to FT's Special Publications, c/o Bryant's Rt.5, Box 14, Stillwater, OK, USA, 74074

NASWA Awards

Richard A. D'Angelo
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Before we begin with this months list of award reciprients, I want to announce that Paul Buer and John Bryant have joined Messrs. Berg, Dexter, Field, Herkimer and Kapinos on the NASWA Awards Committee. As many of you know, Paul and John have been very active in the program over the years. Their vast knowledge of DXing and awards activities will be a major asset to the program. Welcome aboard!

All Continent "ORP" DXer (Lowest Powered Shortwave Station From Each Continent)

Robert C. Brown, Lansdale, PA 5 KW Endorsement... Looks like "Big Signal" can hear, and verify, the little signals!

All American DXer (15 Different Licensed Shortwave Broadcast Stations in the United States, Including Alaska and Hawaii)

John M. Kapinos, Shrewsbury, MA
Robert L. Landau, Secaucus, NJ
Donald M. Hosmer, Dearborn, MI
Terry J. Palmersheim, Renton, WA
Dino Bloisse, Jersey City, NJ

All Germany DXer (10 Different Shortwave Broadcast Stations From "Germany")

Benjamin Krepp, Watertown, MA

Arab World DXer (15 Different Countries That Use Arabic As The Major Lanaguage)

Robert L. Landau, Secaucus, NJ
Benjamin Krepp, Watertown, MA

Australian DXer (7 Different Shortwave Broadcast Stations In Australia)

Brian J. Boulden, Fairfield, CA

DXer de Pacifica (10 Different Oceania Broadcast Radio Countries)

Steve Forest, Cincinnati, OH

Ecclesiastic DXer (15 Religious Oriented Shortwave Broadcast Radio Stations)

Colin Nagengast, Minneapolis, MN
Brian J. Boulden, Fairfield, CA

International DX Listener (50-100-150-200 Countries Heard On Shortwave)

William Schmitz, Washington, DC
Richard A. D'Angelo, Wyomissing, PA 200 Country Endorsement
Brian J. Boulden, Fairfield, CA

Master British Commonwealth DXer (40 Broadcast Countries That Are Or Have Belonged To The British Commonwealth)

Paul Buer, Miami, FL 50 and 60 Station Endorsements!!!
Walter J. Karcheski, Jr., Holden, MA
Donald M. Hosmer, Dearborn, MI 60 Station Endorsement!

Master European DXer (35 Different European Broadcast Radio Countries)

Cris Hazzard, New Hope, PA

ORTF DXer (6 Shortwave Broadcast Stations That Have Been Controlled By The ORTF)

Steven R. Lare, Holland, MI
Richard A. D'Angelo, Wyomissing, PA

Pirate DXer (10 Unlicensed Hobby Pirate Shortwave Broadcast Stations)

Guy Connor, Philadelphia, PA 75 Station Endorsement!
Terry J. Palmersheim, Renton, WA 50 Station Endorsement!

What a month! Actually, two months since I get the month off, column wise, in November and May. However, you folks didn't take time off as the award applications kept rolling in. On to page 2 because there's much, much more.....

Round The Clock Continental DXer (1 Shortwave Broadcast Station In Each Continent In A 24 Hour Period)

Anthony Scott Helm, Kansas City, KS

Senior British Commonwealth DXer (30 Broadcast Countries That Are Or Have Belonged To The British Commonwealth)

Daniel Prisco, Scranton, PA

Richard E. Hankison, Prairie Village, KS

Senior China DXer (5 Different Provinces And Autonomous Regions of China/Taiwan)

Cris Hazzard, New Hope, PA

Richard A. D'Angelo, Wyomissing, PA

Senior DX Centurion (100 Different Broadcast Radio Countries)

Larry Kramer, Brighton, CO

Senior Ecclesiastic DXer (25 Religious Oriented Shortwave Broadcast Stations)

Robert L. Landau, Secaucus, NJ 30 and 35 Station Endorsements

Senior European DXer (25 Different European Broadcast Radio Countries)

Jack F. Nibecker, Guadalajara, Mexico

Senior Papua New Guinea DXer (10 Shortwave Broadcast Stations in 3 Broadcast Radio Countries Controlled By Papua New Guinea)

Donald M. Hosmer, Dearborn, MI

Richard A. D'Angelo, Wyomissing, PA

South American Continental DXer (10 Different South American Broadcast Countries)

Robert L. Landau, Secaucus, NJ

Richard A. D'Angelo, Wyomissing, PA

Soviet Sphere DXer (10 Different Broadcast Radio Countries In The Soviet Union)

Donald M. Hosmer, Dearborn, MI

Tropical Band DXer (50 Broadcast Countries Between The Tropics Of Cancer And Capricorn Operating On Shortwave Below 6,000 kHz)

Steven R. Lare, Holland, MI

Richard A. D'Angelo, Wyomissing, PA

World Wide DXer (50 Different Broadcast Radio Countries)

Brian J. Boulden, Fairfield, CA

Awards Tidbits

A big welcome to Awards Program newcomers Colin Nagengast, Brian Boulden and Bob "Big Signal" Brown. Congratulations to Bob Landau on his first Peruvian QSL. Beware! Peruvians can become habit forming! Bob also discovered that on rare occasions I sometimes forget to sign an award certificate! After nailing the difficult ORTF DXer award with RFO, French Guiana, Steve Lare warned that his Tropical Band DXer application would be coming soon. Well, it did!!! That's quite an accomplishment. Kap reports that it was quite a search to unearth his 15 QSL's for the All American DXer award. Some managed to elude his grasp (QSL's with legs not doubt!) but 15 was enough for the award. Cris Hazzard reports that his QSL's normally come in groups. Larry Kramer notes that replies from stations take a lot longer than the old days. Also, the middle east seems to be a trouble spot, QSL wise, these days. Chip Karcheski is getting discouraged by the lean reply rate however when a rare QSL arrives it gets the juices flowing again. Don't give up hope - keep at it guys! Jack Nibecker finally received a reply from Yugoslavia after 10 months and three tries. One more QSL to go for his All American DXer award. Speaking of three tries, Cris Hazzard mentions that Estonia took that many attempts in getting Radio Tallinn to verify. Guy Connor is another proud recipient of a QSL from Northern Ireland. Dan Prisco needs some cooperation from the mailman; he needs only one of his three outstanding reports to arrive that would qualify for the Arab World DXer award. Don Hosmer reports some interesting listening while travelling through Europe. Brian Boulden is close to several more awards after only one year in the hobby. Nice going, Brian! Scott Helm is rapidly closing in on a number of awards. Forty nine reports in the mail should bring some interesting results. Steve Forest is closing in on the DX Centurion award. Steve also reports being very happy with his Phillips DC-777 receiver. I've heard a lot

of good reports about the DC-777. Rich Hankison is happy to report some nice QSL's arriving from Africa recently. This good news followed some slow summer months. Ben Krepp reports that the Jonathan Marks and Vassily Strelekov visit to the NASWA BAD guys meeting in September was a complete surprise arranged by Tom Walsh and Lou Josephs. All they were told at the beginning of the meeting was that two surprise special guests would be part of the program. Quoting from Ben's letter, "Marks and Strelekov strolled in right in the middle of a talk by Jerry Berg on DXing Indonesia." That's quite an unusual story. Most people stroll out during one of Jerry's talks, hi!

This was a busy two month period with 22 hobbyists earning 40 awards in 23 different categories while participating in the club's awards program. This is one of the best showings I can remember. I'll have to check with Kap whether this is the best turnout of all time. Great job gang!

Country List and Awards Program Booklet Updater

The following are additions and significant notes:

- 1) Maple Leaf DXer Award: add CJCX from Moncton, New Brunswick. [Thanks to Bob Landau for the above item.]

The following are additions and deletions to the British Commonwealth and Arab World lists distributed this year:

- 2) British Commonwealth List: delete Cayman Islands, North Borneo, Trucial States and Togo; add Abu Dhabi (U.A.E.), Admiralty Islands, Andaman and Nicobar Islands, Cyprus (Turkish Republic of North Cyprus), Dubai, Goa, Kashmir (India), Sharjah (U.A.E.), Tonga and Wales.
- 3) Arab World List: delete French West Africa (Niger) and Trucial States; add Abu Dhabi (U.A.E.), Dubai (U.A.E.), French Somaliland (Djibouti) and Sharjah. [Thanks to Paul Buer for above updates.]

Additions, deletions, corrections and updates to the Country List and Awards Program booklet are enthusiastically received by yours truly. Please do not hesitate to send me any information you have. Thanks.

AWARDS COMMITTEE UPDATE

The newly formed Awards Committee has begun considering some new awards ideas. Many of the ideas being considered came from our participants in the program. Earlier this year four new awards were added to the program from original ideas submitted by the membership. It's a team effort gang! If you have any ideas send them along.

I have received a number of suggestions concerning our lists of eligible countries for certain awards. Many award program participants have requested that future updates of the Country List and Awards Program booklet contain all such lists. This sounds like a good idea. Speaking of lists, Bob Landau has completed the first cut at developing a list of countries that are eligible for the Tropical Band DXer and Senior Tropical Band DXer awards. I hope to have this list before the Awards Committee for review prior to its release. Thanks to Bob for a job well done.

Watch future editions of this column for announcements about any new awards or endorsements.

The current edition of the NASWA Country List and Awards Program booklet is still available for only US\$2.00 worldwide. Requests can be sent either to Bill Oliver in Levittown or to me. This graphically appealing working document was designed by Kevin Atkins. The entire NASWA Country List (except Australia, hi!) is laid out by continent by "NASWA Country Name" and the common name in use today. Also, the awards are divided into five sections. The booklet currently offers 55 different awards to challenge the newcomer and the veteran award collector. Order your copy today before it slips your mind.

Remember, each award costs only US\$2.00 in North America and US\$3.00 overseas (additional overseas awards applied for at the same time cost only US\$2.00 each). Endorsement stickers are available for US\$0.50. International Reply Coupons (IRC's) at a rate of US\$0.50 are also acceptable.

73 - RAD

NASWA Awards Program: Have you sent in an application lately?

Listener's Notebook

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'Tis the season to say we hope you enjoy the holidays. 'Tis also the season to say thanks to Mike Fern for all the work he does digging up so much of the information you see in these pages!

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

AFGHANISTAN - *Radio Afghanistan* sked: English 0930-1030 to As on 9635, 15140, 17720; 1800-1900 to Eur on 6145, 7215, 9635. 0730-0930 Pashto/Dari on 9635, 15140, 17720; 1230-1330 Urdu, 1330-1430 Baluchi/Pashto, 1430-1700 Pashto/Dari, all on 4940, 9635. At 1600-1630 Arabic o 9790, 11715. To Europe at 1630-1730 Pashto/Dari, 1730-1800 German, 1900-1930 French, all on 6145, 7215, 9635. (WBI 11/15)

ALBANIA *Radio Tirana* This sked solely from monitoring after progressive reduction in broadcasting output during 1991. There may be additional broadcasts and/or frequencies which were not traced during the survey. All HF frequencies subject to variation of up to 5 kHz. English at 0230-0300 & 0330-0400 to Am on 9760 & 11825 kHz; 1530-1600 to Af on 9730, 11835; 1830-1900 to Eu on 7120, 9480; 2230-2300 to Eu on 7215, 9725.

Albanian at 0000-0400 on 6120, 7300, 9760; 0900-1100 (to 1200?) on 6185; 1500-1700 on 5960; 2000-2200 on 7155, 9725.

Other transmissions: 1230-1300 Serbo-Croat on 7270; 1400-1430 French to Af on 11835; 1430-1500 Greek on 7270; 1500-1530 German on 7260, 9630; 1630-1700 Greek on 7170-??; 1630-1700 Romanian on 7120, 9480; 1700-1730 Arabic on 7120, 9480; 1700-1730 Bulgarian on 5985, 7170; 1700-1730 German on 7260, 9375; 1730-1800 Russian on 9480, 11960; 1730-1800 Serbo-Croat on 5985, 7170; 1800-1830 French on 7120, 9480; 1800-1830 Turkish on 7260, 9500; 1830-1900 Romanian on 8260, 9500; 1900-1930 Arabic on 9480; 1900-1930 Bulgarian on 6080; 1900-1930 French on 7155 (unconfirmed); 1930-2000 Russian on 9480; 2000-2030 French on 7260, 9500; 2000-2030 Italian on 7190; 2030-2100 German on 7260, 9375; 2030-2100 Serbo-Croat on 7190; 2100-2130 Turkish on 7310, 9500; 2130-2200 Spanish on 9500; 2200-2230 Serbo-Croat on 5960, 7190. (WBI 11/1)

ARGENTINA - *R. Argentina al Exterior*, Buenos Aires, 11710 kHz, heard in JJ with fair signal at 0925-0940 11/7; talk on Uruguay, 2 tangos. Titles of tangos are given in SS, which should help with report detail. WRTH 91 says 1000-1100, but this was an hour earlier. (Mike Fern--CA)

ALGERIA - *R. Algeria* has English 1900-2000, announced 9640, 9685, 15215, but only heard in Oregon on 15160 & 17745. (BMM on RJDXC 10/27)

AUSTRALIA - Latest fact sheet from VNG shows 6 kw used on 5000 & 8638 kHz; 3 kw on 12984 kHz; and 5 kw on 16000 kHz. The latter operates 2200-1000 gmt. The other three operate continuously. (Marion Leiba, VNG Users Consortium, via Ben Krepp, Watertown, MA)

BAHRAIN - *R. Bahrain* hrd on 9746 at 1350 w/AA mx, 1430 S & AA nx; 1435-1440 f/o more mx; weak but clear 11/3. Also 2000-2006* some days; yy weak, w/QRM. (Ernie Behr)

BELGIUM - *BRT* to Africa 2200-2225 exc Wed/Sat on 15510 kHz; to Southeast Asia 1400-1425 daily on 21810 kHz. (Hiroaki Nakada on RJDXC 11/3)

BHUTAN - *BBS*, Thimphu, on 5025 at 1406-1500*, noted 10/19 & 29 w/fair-good sig. Format is sub-cont type music, EE at 1415 w/world & local nx, sometimes weather; local anmts, various types of music. 10/29 had special pgm on Bhutan's annual Buddhist celebrations. Several IDs: "You are listening to the news from Bhutan Broadcasting Service" and "English Service of BBS coming to you from Thimphu, Bhutan. (Ron Howard, Carmel, CA)

BOLIVIA - *R. Minería*, Oruro, 4986.7 kHz, heard in Argentina at 0006 with futbol, // *R. El Mundo*, Santa Cruz. (Julian Anderson, Pampas DX, on DXPL 11/9)

R. Florida, Samaipata, 3370.5 kHz, suspended operations in 1990. *R. El Condor*, Uyuni, 4856.7 kHz, was inactive when I was in Uyuni in August. FM operates 1100-0200 (Su -2200) *R. Difusora Tarabuco*, Tarabuco, 5217 kHz, is inactive. May return to the air. Former sked was 1400-1800 & 2000-2400 (Su 1300-1700). This is correct name. *R. El Espectador*, Potosi, 5910 kHz, no longer exists. It was closed by the government. (Takayuki Inoue Nozaki, Relampago DX, 10/91) [Hope I translated these items correctly. My Spanish is no better than my English, & you see every month how bad that is! -df]

BOTSWANA - *R. Botswana*, Gaborone, 7255 kHz at 0250 with cowbell, cow and rooster IS, anthem, English ID, programs in Setswana. (Marie Lamb, Brewster, NY, on DXPL 10/26)

VOA - (see Nov LN) The date was pushed back. And even at press time things are still a bit uncertain, but it looks like we'll see the start of VOA HF broadcasting from Botswana on 12/6 at 1600 gmt. Latest schedule is 7265 English 0300-0500; 11940 English 0300-0430; 15370 Portuguese 0430-0500 & 2200-2300; 15445 English 1600-2200; 17705 Swahili 1630-1730 (Mo-Fr); Portuguese 1730-1830; 17870 French 1830-2200 daily, except Hausa 2030-2100 Mo-Fr. (VOA) When you read this it will be too late to catch the first day broadcast, but hopefully you'll have caught the announcement on Radio Nederland's Media Network, Glenn Hauser's World of Radio, or from one of the computer networks.

CANADA - The Ontario DX Association is now the official verification signer for *CFRB* (1010 kHz) and *CFRX* (6070 kHz). The club will receive, check and verify reception reports to the stations. Signers are Steve Canney and John Grimley. Reports can be sent to the stations c/o ODXA, P. O. Box 161, Station 'A', Willowdale, Ontario M2N 5S8 Canada. (Harold Sellers, in DX Ontario, 11/91)

CIOC is the new call of onetime *CFCF*, Montreal, 600 kHz MW. The call of its SW outlet, *CFCX* on 6005 kHz is unchanged. (Mike Brooker via CIDX and DXPL 11/2)

R. Austria Int'l's EE programs are relayed by Sackville on 6015 kHz from 0530-0600 and 0630-0700. (Bill Matthews on RKSF 10/27)

CHINA - A commercial b/c station seems to be operating in South China, claiming six channels on AM, SW and FM. The *Hua Yi Radio Co.* began operating 11/1 in Fuzhou, Fujian province. Its transmissions are directed at Southeast Asia, Europe, Hong Kong, Macau and Taiwan. The news story from Hsinhua (New China) News Agency did not mention frequencies, but the hours are said to be 1000-1800, and the programs are in Chinese for Chinese abroad. (Richard Measham, BBCM, on RNMN 11/7) [A possible ID to watch out for is "Hua Yi kwang po kong s'er." See LN for 9/91--mf]

Hubei PBS Provincial Service is sked 0850-1530 and 2125-0615 on 3940 kHz. *Guangxi PBS* sked 0925-1600 & 2150-0515 on 4915 kHz. *Sichuan PBS First Programme* sked 0345-0550, 0945-1515, 2155-0135 on 6060, 7225 kHz. *Sichuan PBS Second Programme* sked 0950-1315 & 2150-0530 in Chinese, Tibetan & Yi on 5900 kHz. (WBI 10/25)

CUBA - Erik Koie, editor of WRTH's English Newscast section, got through to Arnie Coro of Radio Habana Cuba about 11/4. Coro said RHC's 2200 EE xmsn to Europe, exclusively via a Soviet relay, will be stopping shortly, so it should not be listed in WRTH. This could mean that RHC is going to stop its relays via the Soviet Union.

JM: This could affect the USSR's relays through Cuba.

Andy Sennitt: Yes indeed. In fact those Cuban frequencies of Radio Moscow were coordinated at the August meeting in Romania; they are there in the Charts. So anything that's happened since must have happened at fairly short notice. (JM and Andy Sennitt on RNMN 11/7)

CYPRUS - A staff member of Radio Nederland's frequency bureau reports good reception of *British Forces Broadcasting Service* on 15670 kHz USB at *1630*. This station feeds news to British troops stationed in the Middle East. (RNMN 10/31)

CZECHOSLOVAKIA - *R. Prague* reported in early November that Parliament has passed a bill ending the state monopoly on broadcasting. A Federal Board of Broadcasting has been set up to grant and withdraw b/c licenses. Eighty applications have been filed; 16 licenses have been granted. Radio Prague International will be a federal agency financed from the federal budget; at present it is financed from the budget of the Czech Republic. (Julius Herrmanns, Holland, on RNMN 11/7) There's some concern that RPI won't get all the money it wants. More from Prague next week. (JM on RNMN 11/7) I've been in that club since I first learned that was something called money! [df]

ECUADOR - *R. Central*, Riobamba, is being heard in Quito on three harmonics, 2340, 3510, and 4680 kHz around 1125 in mid-October. *R. Nacional Espejo*, Quito, 4680 kHz, is still silent. *R. Tucuban*, pirate, in or near Onya, 4212 kHz, putting good signals into Quito; at 0021 with "El Maestro in Casa", educational program, and soup recipe. Strong telegraph QRM from WLO New Orleans in the evening; best around 1130. *R. Popular*, Cuenca, on 4774 kHz with terrible audio; assigned freq. is 4800; apparently major transmitter trouble. Church service at 1159. Excellent strength but very hit-or-miss, distorted modulation. *R. Centinela del Sur*, Cuenca, seems to have settled on 4899 kHz; good around 1100; no longer shifting to 4890 as they were in August. *Emisoras Gran Colombia*, Quito, 4911 kHz, still silent. (RMV/QLB/DXPL 10/26)

The *Radio Sucre* network, which was silenced a year ago by a Presidential decree, has returned to the air. The decree resulted from broadcast of a news story, which *R. Sucre* could not back up, about a member of the President's family taking part in arms deals. *R. Sucre* has stations in Guayaquil (700 kHz 50 kw.), Quito (900 kHz, 10 kw), Esmeraldas (1230 kHz, 5 kw), Machala (1500 kHz, 3 kw), Cuenca and Porto Viejo. [Latter two not in WRTH 90; may be FM--mf] The Ecuadorian Congress passed a bill in September allowing *R. Sucre* to return to the air. The Radio Assn. of Ecuador had also passed a resolution that the decree was an act of political retaliation, because national security had not been violated. The owner borrowed some tubes and put at least one station back on.

Instituto Ecuatoriano de Telecomunicaciones, the Ecuadorian equivalent of the FCC, said *R. Sucre* had jumped the gun, and told them to shut down again. IETEL's director said that rights to *R. Sucre*'s frequencies had had first to be returned to the national government, then to the armed forces, then to Central University and the Transit Commission of Guayas Province (where Guayaquil is). These concessions would be carried out once certain legal requirements were met. *R. Sucre* remained on the air. The broadcasters' association took *R. Sucre*'s side in the matter. On Oct. 9, Guayaquil Day, all radio stations in Guayaquil, Ecuador's second largest city, shut down for an hour. *R. Sucre*'s director, Victor Arroba, moved into a tent at the Guayaquil xmitr site and said he would stay there until the amnesty for *R. Sucre* was accepted all around. *R. Sucre* apparently got permission to broadcast on four frequencies, Guayaquil, Quito, Cuenca and Porto Viejo. The frequencies for Esmeralda and Machala are assigned to the armed forces, but Arroba says *R. Sucre* will broadcast on all six frequencies, claiming the frequencies belong to its network and no one else.

The government then asked *R. Sucre* to be less aggressive in its demands because of the current border controversy with Peru. (Hoy and Telegrafo, Ecuador dailies, on DXPL 10/26)

R. Nacional Progreso, Loja, 5062v kHz, has issued a pennant to mark 33 years on the air. It is available only for reports on the program "Circulo Dominical" (Sunday Circle) at 1100-1300 Sun, which must be addressed to the program at *R. Nacional Progreso*, Casilla -V-, Loja. *La Voz del R. Tarqui*, 3280 kHz, irregular on SW, does QSL; address reports to Boris Cornejo, Casilla 877, Cuenca. Reports for *R. Luz y Vida*, 4850 kHz, are being answered by Miss Jolly Pardo, Casilla 222, Loja. The veri signer for *La Voz del Upano*, Macas (2 programs, 4 freqs in 49 and 60m bands) is Sor Luz Benigna Torres. (Leonel Pedro Torre H., Ecuador, in Pampas DX on DXPL 11/9)

HCJB inaugurated a regular weekly call-in program 11/4-5. "Open Line" is sked at 0130 Tues UTC and will be devoted to topics in religion and daily life. The first program was devoted to the topic of anger and had on board at *HCJB* a Christian counselor, Jim Pierce. (DXPL 11/2)

HCJB on 15140 at 2200-0500*, over Cuba since 10/20 has a defective transmitter, putting out a strong hissing noise all over 19 m band. (Ernie Behr) (They must have found & corrected it, as I cannot hear any problem from it here in Virginia in late November. [df])

Voz del Upano, Macas, 5019.8 kHz, active at last on this new freq. Noted 10/14, 0016-0020; //5040. (Julian Anderson, via NU)

EGYPT - *Radio Cairo*'s Persian svc obs on 11560 at 1330-1530, vice 1745-1945. (WBI 10/25)

ETHIOPIA - A revised schedule for the pro-EPRDF stations announcing as from Addis Ababa: Amharic Amharic (VEPPDF - *Voice of the Ethiopian People for Peace, Democracy and Freedom*) at 0330-0430, 1345-1445 (Su) and 1500-1600, all on 6940 & 8000 kHz. Oromo (VOBON - *Voice of the Broad Oromo Masses*) at 0430-0530 & 1600-1700 on 6940 & 8000 kHz. Tigrigna (VOTR - *Voice of the Tigray Revolution*) at 0430-0530, 1345-1445 (Su), and 1500-1600 on 6770, 7450 & 7820 kHz. (WBI 11/8)

FINLAND - *VOA*, *BBC* & *Deutsche Welle* began broadcasting on 103.7 MHz FM in Helsinki at the end of October. (BBCM on RNMN 10/31)

FRANCE - *Africa No. 1*, based in Gabon, opened an FM relay in Paris 11/1 on 107.6 MHz. from a transmitter atop the Eiffel Tower [which must now look like a fin-de-siecle cactus with all those antennas--mf] (BBCM on RNMN 10/31)

GERMANY - *Deutsche Welle* broadcasts in Chinese from 1200-1320 on 15525 kHz. The relay transmitter site is thought to be Novosibirsk. (Shigenori Aoki on RJDXC 10/20) Novosibirsk on 15525 also carries Radio Moscow's Korean transmissions, before and after the DW Chinese relays. (Tooru Yamashita on RJDXC 10/20)

GUAM - *Adventist World Radio* marked its 20th anniversary in November with four special programs on its history. These were broadcast in late October and early November via KTWR on 11980 and 13720 kHz on 10/27, 11/3, 10, 17. A special QSL, a replica of AWR Europe's first QSL in 1971, is being used to mark the anniversary. (Dave Smith, Contact, on DXPL 10/26)

AWR, KSDA, Guam, has revised its EE schedules as follows: Daily, 2300-0100 on 15610; 1600-1700 on 11980 kHz. On Sat/Sun additional EE broadcasts are scheduled from 0200-0300 and 1700-1900 on 13720. DX Asia Waves may be heard at 1615 and 2215 Sat UTC, and at 0215 Sun. To mark the completion of 20 years of SW broadcasting by Adventist World Radio, a special commemorative QSL will be available from all AWR stations. The card incorporates the design of the first AWR Europe QSL issued in 1971. AWR Asia plans to add new languages in the near future, possibly including Uzbek, Tatar, Kazakh, Kyrgyzian, and Pushtu. (Bill Matthews on RKSF 10/27)

HONDURAS - *HRMH, La Voz del Junco*, on 6075.03 from 1100 w/ID, many ads & LAM songs till 1230 fade out; clear 10/16. Not *1200 as per WRTH 91. (Ernie Behr)

Sani Radio, Puerto Lempira, 6299.3 kHz, heard in Argentina at 0000 with ID in SS. (Julian Anderson, Pampas DX, on DXPL 10/9)

HUNGARY - Dennis Herner, HA5DD, DX editor at Radio Budapest, died late in October. Dennis will no doubt be remembered as a personality who helped to establish long-lasting good relations between R. Budapest and national and international DX organizations and clubs over the years, and cherished for his promotion of the development of the international DXing movement. He will be sadly missed. In tribute to Dennis Herner, R. Budapest will continue to keep the DX Show going. (Len Scott, Radio Budapest, on ASWP 11/10)

ICELAND - *INBS* is still operating 24 h on 3925, 6100 & 9265 kHz & still testing English at 0730. (Simon Hamer, Wales, & AC on RNZI Mailbox 10/13) [or 9268? df]

INDIA - *AIR* on 15185 from 1745 in AA program, 1945 FF & SAs mx to 2030*; vy strong 11/7. Maybe via Bangalore. (Ernie Behr) *AIR's* English transmission to Australia at 1000-1100 has moved from 15335 to 15050 kHz NF. (AC on RNZI 10/31)

INTERNATIONAL WATERS - Abie Nathan, proprietor of "The Voice of Peace", went to jail again, for six months, in Israel in mid-October for the usual reason, meeting with Palestinians. Israel Radio has reported that Histadrut, the Israeli labor union/cooperative/conglomerate, is trying to buy an interest in "The Voice of Peace." (Jerusalem Post 10/19 via Mike Fern) [WRTH 91 says Nathan's operation is registered as a charity in the U.S., but it sells time in Israel to pay the salaries of engineers and DJs.--mf]

Radio Caroline newlines report that Bob Geldof, British artist and charity festival promoter, visited the Ross Revenge recently. Ronan O'Rahilly, managing director of R. Caroline, claims he has found a Third-World country which is *not* a member of the International Telecommunications Union. He says this country has accepted an application for a license to operate an international service from the Ross Revenge. Geldof would invest in the project and the station would promote famine relief. R. Caroline claims the station would then be legal, enabling offices and supplies in the UK. (Contact via DXPL 10/26) [Venda or Zenda??--mf]

IRAN - *The Voice of the Islamic Republic of Iran* is heard from sign-on at 0230 on 15260 kHz in an unID language. (Ernie Behr, NASWA, on RKSF 10/27)

IRAQ - Transmission of the *Voice of Palestine* has resumed from Baghdad on 1197, 1377 and 1431 kHz from *1620-1700. Programs produced by the PLO have not been traced as yet. These xmsns stopped when Iraqi sites were disabled in the Gulf War. (BBCM on RNMN 10/31) Fqys then join main AA svc of *Republic of Iraq Radio*, already on 4600 & 9722 kHz. (WBI 10/25) The Kurdish svc is now on 6550, ex 6540, //1197. The main pgm in Arabic continues to be heard on 9723 and either 4600 or 4610. From 1400 also on 1377 & 1431. Also reported to use 11740 & 11755 during the evening. (WBI 11/22) Heard with fair signals on 4600 at 0227, signing on with anthem, ID and call to prayer. (Tony Orr, Reston, VA, in Fine Tuning via DXPL 11/2)

ISRAEL - The *VOA* relay base in Israel was dealt another blow in mid-October when the Knesset's finance committee told the government to take a fresh look at the entire project. The Finance Ministry had asked for 2.3 million shekels to pay for a study of the proposed station's

effects on bird migration. Finance committee member Avraham Burg, who opposes the station, said "The Soviet Union is already democratic, and there is no longer any justification" for the new station. (Jerusalem Post 10/19 via Mike Fern)

Voice of Israel D91 sked: **English** 0500-0515 to Eu/Am on 11587; 1100-1130 to Eu/Am on 17545; 1430-1458 Su-Th to Eu/Am on 11587, 11605, 15640, 17590; 1800-1815 to Eu/Am on 11587, 11675, 15640, 17575; 2000-2030 to Eu/Am and 2230-2300 to Eu/Am, both on 7465, 9435, 11585, 11605, 11675, 17575. **Arabic** 0400-2215 on 738, 5900, 5915, 9815, 15095, 15480, 17545. **Hebrew** 0400-0605 to Eu/Am on 9388, 11587 (not 0500-0530), 13750, 15617; 0605-1355 to Eu/Am on 9388, 13750, 15617 and 17545 (not 1100-1200); 1355-2310 to Eu/Am on 9388, 13750, 15590 (to 1430), 15617. **Yiddish** 1700-1755 to Eu/Am on 9435, 11605, 15640, 17575, as well as 11587 & 11675 to 1725, when they go into Easy Hebrew, followed by Spanish at 1745-1800. Other languages: **Bukharian** 1430-1445 & **Georgian** to 1500 on 15590, 17575 (also 11587, 11605, 15640, 17590 Sa/Su). **French** 0515-0530 on 11587; 1130-1200 on 17545; 1815-1830 on 11587, 11675, 15640, 17575; 2030-2100 & 2130-2200 on 7465, 9435, 11585, 11605, 11675, 17575. **Hungarian** 1815-1830 on 9435, 11605. **Ladino** 1845-1900 on 11587, 11675. **Persian** 1500-1600 Su-Fr on 11605, 15640, 17575. **Romanian** 1800-1815 on 9435, 11605; 1830-1845 on 11587, 11675. **Russian** 1400-1425 on 11587, 11605, 15640, 17575, 17590; 1500-1600 on 11587, 15590, 17590 (also 11605, 15640, 17575 Fr/Sa); 1600-1655 on 11587, 11605, 15590, 15640, 17575, 17590; 1830-1955 on 7465, 9435, 9845, 11605, 17575 (also 11587 & 11675 from 1900); 2100-2125 on 7465, 9435, 11585, 11605, 11675, 15590. **Tal** at 1500-1515 Su/We on 11587, 15590, 17590. **Yemenite** at 1330-1355 Mo-Th on 15640. (WBI 11/15)

ITALY - RAI Radio I, Caltanissetta, Sicily, 6060 kHz, heard at 0132 in Italian with classical and EZL music. At 0200, news in II, EE, FF, GG. Fair signals but QRM from English-speaking station on 6065. (Marie Lamb, Brewerton, NY, on DXPL 10/26)

Adventist World Radio, Forli: on 7205 kHz Sa/Su at 0630 Swedish, 0700 Spanish, 0730-0800 French; daily at 0800-0830 in Italian. On 7230 daily at 0830 in **English**, 0900-0930 German; Sa/Su at 0930 Swedish, 1000 Spanish, 1030 French; daily at 1100 Italian, 1130 **English**, 1200-1230 German. (WBI 11/8)

RAI W91 sked: **English** 0100-0120 to Am on 9575, 11800; 0425-0440 to Eu/ME on 5990, 7275; 1935-1955 to Eu on 7275, 9710, 11800; 2025-2045 to ME on 7235, 9575, 11800; 2200-2225 to As on 5990, 9710, 11800. **Italian** 0140-0305 to Am on 9575, 11800, 11905, 15245; 0415-0425 to Eu/ME on 5990, 7275; 0435-0510 to Af on 15330, 17795, 21560; 1400-1425 to Am on 17800, 21560; 1410-1730 to Eu/Am on 17800, 21515, 21535, 21690; 1430-1455 to Malta on 5990, 7235; 1555-1635 to Eu on 5990, 7290, 9575; 1700-1745 to ME/Af on 7235, 9710, 15385, 17780, 21690; 1830-1905 to Am on 17780, 21560; 2230-0100 to Am on 9575, 11800, 11905, 15245.

Other languages: **Albanian** 2000-2020 on 5990, 7235. **Amharic** 0415-0435 on 15330, 17795, 21560. **Arabic** 0535-0555 on 11800, 15330, 17795; 1430-1445 Mo-Sa on 6060, 9515; 1750-1810 on 7235, 9710; 1910-1930 on 9710, 11800, 15340; 2025-2045 on 7275, 9710. **Bulgarian** 1540-1600 on 7235, 9710. **Czech** 1815-1830 on 7290, 9710; 2135-2155 on 6010, 7275. **Danish** 2000-2020 Su/Tu/Th on 7275, 9710, 11800. **Esperanto** 2000-2020 Sa on 7275, 9710, 11800. **French** 0120-0135 to NA on 9575, 11800; 1430-1455 on 7290, 9575, 11905; 1630-1655 on 7235, 9710. **German** 1535-1550 & 1750-1825 on 5990, 7275, 9575. **Greek** 1520-1540 on 7235, 9710. **Hungarian** 1935-1955 on 5990, 7235. **Lithuanian** 0445-0505 on 5990, 7275. **Polish** 1845-1905 on 7290, 9710; 2210-2225 on 6010, 7275. **Portuguese** 0120-0135 on 11905, 15245; 2110-2130 on 5990, 7275. **Romanian** 0510-0530 on 5990, 7275; 2135-2155 on 5990, 7235, 9710. **Russian** 0330-0345 on 5990, 7275, 9710, 11800, 11905; 0535-0555 on 5990, 7275; 1605-1625 on 7235, 9710. **Serbo-Croat** 1500-1520 on 5990, 7290, 9575; 1910-1930 on 5990, 7275. **Slovak** 1830-1845 on 7290, 9710; 2155-2210 on 6010, 7275. **Slovene** 1520-1535 on 5990, 7290, 9575. **Somali** 0510-0530 on 15330, 17795, 21560; 1640-1655 on 15385, 17780, 21690. **Spanish** 0100-0120 on 9575, 11905, 15245; 0305-0325 on 9575, 11800, 11905, 15245; 2050-2110 on 5990, 7275. **Swedish** 2000-2020 Mo/We/Fr on 7275, 9710, 11800. **Turkish** 1500-1520 on 7235, 9710. **Ukrainian** 0350-0410 on 5990, 7275. (WBI 11/15)

JAPAN - Radio Japan's Canada relays began the following winter schedule on 10/27 and 28: in Japanese on 6120 kHz from 1200-1300 10/27, ex 1000-1100; in EE on 5960 kHz from 0300-0400 10/28, ex 0100-0200. **Radio Japan's** English transmissions for NA/CA/SA from 0300-0400 and 0500-0600 moved to 11870 ex 15195 kHz on and after 11/3. (RJDXC 10/20)

KOREA (North) - North Korea's two national services, **Korean Central B/c Station** (KCBS) and **Pyongyang B/c Station** (PBS), have made some changes recently. The twenty-minute [!] concert version of the Praise to Kim Il Sung, formerly broadcast daily after the National Anthem, has been dropped by both networks. [I bet they got bags of letters pleading to restore it.--mf] The anthem is now followed by a freq annc. PBS had been promoted as home service network no. 2. PBS' new opening anncet begins "Good morning, our compatriots in South Korea." Neither

station mentions all of its freqs at sign-on. KCBS announces 819 MW and 6100 and 9665 kHz SW. PBS mentions 657, 684, 729, 801, and 855 MW and 6250 and 6400 kHz SW. (Tooru Yamashita on RJDXC 11/10)

LATVIA - *Latvian Radio* on 5935 from *0357 IS, NA, talk & mx; fair 10/19; same day from 2120 non-stop pgm of SAs mx till 2200; vy strange, but must have been Latvia; from 2200 talk & orch mx, 2230 Swedish talk to 2300*. (Ernie Behr)

LEBANON - The new 25m transmitter of High Adventure Ministries at Marjayoun on 11530 kHz announces as "Wings of Hope" to distinguish itself from "King of Hope" on 48m. It puts a good signal into New Zealand at 1900 with a long EE announcement. Reception reports are wanted; the mailing address is Box 3379, Limassol, Cyprus. Most programs are in Russian, but there is EE at 1930. (AC on RNZI 10/31)

LIBERIA - The current sked of ELBC, Monrovia, 7275 kHz, is: daily 0655-1000, 1155-1900; Sun 0655-1900. ELBC expects to get new xmtrs for MW, SW and FM. (Noah A. Bordolo Sr., Deputy Director-General, Liberia B/C System, to RMV on DXPL 10/26)

The US Director of Sudan Interior Mission, Larry Fehl, says in a letter that equipment necessary for local FM bcsts has arrived at ELWA. A former garage is being rebuilt as a temporary studio. They expect to soon be on FM to the Monrovia area. They plan to ship a 10 kw shortwave transmitter to Liberia as soon as a stable government is formed. Cost to purchase, ship & install the sw xmtr is \$195K. (Marlin A. Field, MI)

LIBYA - *Voice of the Great Arab Homeland* hrd back on 15235, from 2030 w/AA nx, //15435 & 17725; all strong, but low audio 11/6. This is the stn rptd as R.Jordan in Nov R. (Ernie Behr)

LITHUANIA - *R. Centras*, [pronounced tsen-trahs] the first commercial b/c station in Lithuania, makes use of free time on Lithuanian Radio's second AM channel. It is on the air weekdays from 10 am to 3 pm; Saturdays, from 3 pm to 6 pm, and on Sundays from 4 pm to 7 pm. Its on-the-air slogan is "Studio R" (Studio air-ah, phonetically). It has six synchronized xmtrs on 1107 kHz with a total output power of 230 kw, and five other xmtrs of 4 kw each. The Second Program of Lithuanian Radio (and thus Studio R) can be heard in all Lithuanian cities as well as through the cable radio network. Pop and rock music account for 85% of the program time. News bulletins are broadcast every 30 min. Five-minute items on football, chess, future highlights in Lithuania's cultural life, etc., are scattered throughout the broadcasts. The current contract with Lithuanian Radio expires 12/31/91, but the station expects to continue even if a satisfactory agreement is not reached before then. R. Centras has acquired its own FM stereo transmitter and has been assigned the (East Europe FM band) frequency of 67.94 MHz. R. Centras has plans to lease its transmitters to foreign radio stations, religious, etc., which are interested in reaching Lithuania's multi-lingual audiences. DX clubs in other countries, as well as individual DXers, will be able to apply to R. Centrus for program time on its SW frequencies. Studio R reaches a large audience whose ages range from 13 to 40. A public opinion survey in May found that Studio R rated +33 on a scale of -100 to +100, only one point behind the external (sic) service of R. Vilnius and the mid-day police update. R. Centras is a self-financing company. Heavy losses in the spring were replaced by profits in early autumn. Profits are being plowed into technical improvements. Some staff members believe that commercials and request shows affect the programming standards, since very often they have to give in to the unrefined tastes of their audience. But manager Rimantas Pleikis (former editor of Radio M-1, the unofficial youth station) says "There is no need to lose heart very much. If you want your station to be able to exist financially, you'll have to satisfy the tastes of your audience." (R. Vilnius Listeners' Club 10/27 via Mike Fern)

Over 30 postage stamps and 13 covers have been issued since Lithuanian independence was re-established in March 1990 (sic). Two more postage stamps on endangered bird species were released in November. Lithuania's stamps are printed in Germany. They have become an important source of hard currency, and are often used as a substitute for hard currency by Lithuanians. The Lithuanian PTT has 30 commercial agents worldwide. One US agent (who seems to have Canada and Mexico as authorized sales territory, but not the US) is Erik Lehmann, (?Kent Research) Wholesale Postage Stamps, P.O. Box 86, Hewlett, NY 11557. (Radio Vilnius Listeners' Club 10/27 via Mike Fern)

R. Vilnius Listeners' Club is offering free trips to Lithuania as part of its very active and very involved program. Candidates for each year's trip(s) are chosen by various activity groups within the membership. For full details write R. Vilnius for a copy of the Listeners' Club rules. The Listeners' Club broadcast is scheduled at 0000 UTC on the fourth Monday (Sunday US target date) of each month. (R. Vilnius Listeners' Club 10/27 via Mike Fern)

Radio Vilnius sked: **English** at 0000-0030 on 7400, 9710, 15180, 17605, 17690; at 2230-2300 on 9675, 9710. Lithuanian at 0200-0230 on 7400, 9710, 9750, 15180, 17605, 17690; and at 2200-2230 on 9675 & 9710 kHz. (WBI 11/8)

LUXEMBOURG - *R. Luxembourg* will end a long history of broadcasting in EE on MW for the UK (on 1440 kHz) on 12/31. GG will replace EE during the evening. However, R. Luxembourg will continue with a satellite service in EE, and EE will still be heard on SW on 15350 kHz for NA. (JM on RNMN 10/24)

MEXICO - *XEFT, La Voz de Vera Cruz*, 9445.73, from 1200 SS tk, ads & mx to 1300 f/o; weak but clear 10/15; not hrd evenings due QRM, but carrier/het goes off around 0100*, apparent s/off. 11/12 on 9546.3 to 1330 f/o. (Ernie Behr)

MOROCCO - *RTM* was on 17890.34 in early Oct, from 2000 AA nx & mx to 2200*, fair 10/5, but gone a week later; //15335 was much stronger to 0100*. *Rufus Jordan's unID in Nov LR on 17891v. (Ernie Behr)

NETHERLANDS - The Dutch PTT has issued a series of stamps honoring the 100th birthday of the Philips Glow Lamps Mfg. Co. (Norman Hill, DC, on RNMN 10/24)

Radio Netherlands made several frequency and xmr site changes Sun 11/3 to avoid frequency conflicts with Moscow. (The Russians made similar changes.) They are: EE to Asia at 1130-1225 kHz on 17580 NF ex 17575 kHz. At 1430-1525, 17605 kHz. has been dropped. 5955, 13770 and 15150 kHz, all Flevo, were augmented by 13700 and 17580 kHz, both Madagascar. (JM on RNMN 10/31)

PERU - *R. Chota*, Cajamarca, 4890.3 kHz, heard in Argentina at 2342 with huayno music, ID and time check. *R. San Miguel*, Cuzco, 4965.8 kHz, at 0926 with ID and "Peru Folklorico." *R. Andina*, Huancayo, 4995.8 kHz, at 0219 with time check, ID, dance music. *R. Azangaro*, Azangaro, 7033.2 kHz, at 0022 with talk on local unemployment; heard daily in Argentina, but drifts upward badly. (Julian Anderson, Pampas DX, on DXPL 10/9)

R. Villurica, Huancavelica, 4805 kHz, at 2216 with soccer broadcast. *R. Atahualpa*, Cajamarca, Peru, 4821 kHz, at 1130 with ID and regional news. *La Voz de la Selva*, Iquitos, 4825, with news; item about cholera. Newsreader Mery [sic] Blas Rojas at LV de La Selva is an active DXer, so address your reports to her. (Rafael Rojas ?Boinchinos, Lima, Peru, in Pampas DX via DXPL 11/9)

R. La Voz de Celendin, Celendin, 4485 kHz; operates 1030-0100. Director is Fernando Vasquez Castro. Address: Plaza de Armas, Celendin. *Estacion Tarapoto*, 5015.4 kHz; correct addr is Alegria Arias de Morey 334, Tarapoto. (Takayuki Inoue Nozaki, Relampago DX, 10/91)

POLAND - The *Polish Scouting Radio Station*, also known as *Polish Pathfinders Radio*, has reappeared on 7205 kHz around *1530-1700. In 1984 it disappeared from SW and was replaced by a program for Scouts on the Polish home service. (BBCM on RNMN 10/31)

Radio Polonia's winter schedule no longer lists broadcasts in AA or Danish. All other languages, except Lithuanian and Russian, have been cut back. Although the new service in Ukrainian has been taken into account, overall output from R. Polonia has dropped from 285 hours to just under 188 hours. (ASWP 11/10)

PORTUGAL - *Radio Renascenca* on an apparent new morning best to Europe 0500-0700 on 6100 kHz w/PP domestic svc rly, noted 10/17. Also on 9680 at 1800-2000. *For the American and African continents we broadcast also on 9600 kHz." [Time not given df] (WBI 10/25)

Adventist World Radio, via Radio Trans Europe xmters at Sines, uses 9605 kHz Su at 0600 in krainian, 0630 Russian, 0700 Serbian, 0730 Slovene, 0745 Macedonian, 0800 Croatian, 0830-0900 Romanian, 0930-1000 Arabic, 1000-1030 Bulgarian. On 9670 Su 0700-0800 Polish, 0800-0900 German, 0900-1000 **English** (*World DX News* 0915-0930). (WBI 11/8)

QATAR - *QBS Doha* on new 11750.3v, from 1830 AA pgm Quran & NA to 2126*; good 10/5. Also on 21555.5 w/AA pgm, mx & nx to 1707*; het from EE, 11/2. (Ernie Behr)

RWANDA - *Radio Rwanda* is to install a new Swiss-built 100-kw SW transmitter, twice the power of its present xmr, according to Information Director Ferdinand Nahimana. The new xmr is intended to provide coverage throughout Africa and the Middle East. It will also allow Radio Rwanda to operate on two channels, increasing its coverage to audiences outside Rwanda. R. Rwanda broadcasts in FF, EE, Kiswahili and Kinyarwanda. (Reuter on DXPL 10/19)

SAUDI ARABIA - *BSKSA* on new 11685 & //9885, from 2130 AA pgm & NA to 2301*; powerhouse sig since 9/17, maybe new 500 kw xmr. Also on new 15240 from 0600 w/Quran,

0630 AA tlk, vy strong 11/11. On 11730 from 1400 in Farsi to 1553*, strong 11/2. On 9738.3v from 1400 AA pgm, NA to 2302*, vy weak 11/8; a few days later on 9738.6v; must be low power xmtr. (Ernie Behr)

SEYCHELLES - FEBA Radio sked: 7270 kHz at 0000-0200; 9565 1833-1903; 9590 at 0130-0155, 1402-1600; 9660 1830-1900; 9765 at 0000-0100; 9770 0158-0228, 1700-1730; 11755 0230-0245; 11805 1733-1748; 11810 0315-0400; 11815 0158-0300; 11820 1613-1730; 11840 1800-1830, 1903-2003; 11860 1630-1800; 11865 1315-1400, 1414-1615; 11930 1628-1658; 15120 1800-1830; 15125 1100-1145; 15145 0330-0400; 0400-0430 We-Su; 15200 0230-0330; 15325 0345-0500, 1345-1400, 1414-1458; 15330 1500-1600; 15430 0915-1015, 1130-1200; 15445 1215-1345; 17760 0515-0530. Not all daily. English is 1500-1600 Tu-Sa on 9590 & 15330, and 1500-1555 (Sa -1615) on 11865. (WBI 11/22) Anyone know why they use the odd start/stop times? [df]

SOUTH AFRICA - Radio RSA sked: English 0400-0500 on 7270, 11900, 15230; 1000-1100 on 15230; 1100-1200 on 9555, 11860, 11900; 1500-1600 on 7230; 11880; 1600-1800 on 7230, 11880, 15160. In French at 0300-0500 on 11920, 15120, 15365; 0500-0700 on 15120, 15365, 17815; 1800-2000 on 11880, 15365. In Portuguese at 0400-0500 on 7230; 0500-0500 [-0600? df] on 11920; 0600-0700 on 15145; 2000-2100 on 4965; 2100-2200 on 11950. Swahili at 1400-1700 on 11900, 15365. Also Chichewa at 1500-1800 on 5960; Lozi at 1500-1800 on 9555; and Tsonga at 0900-1000 Sa/Su on 9585 kHz. (WBI 11/8)

SPAIN - The Spanish World Service of Radio Nacional de Espana was heard on 5970 and 6055 kHz between 0250 and 0500 11/9. 5970 kHz was very strong and made BBC Antigua on 5975 almost unusable at 0300; an unusual co-channel signal on 5975 with 1000 Hz tone did the rest of the job. The RNE signal on 5970 did not seem to affect Radio Habana Cuba on 5965 as much, even though RHC is a good 12-18 db weaker than Antigua. Freq anncs just after the hour did not give sites of the RNE xmtrs, but 5970 was so strong in comparison to BBC Antigua that it could not have been in Europe with normal propagation. Condx on 11/9 were active to storm. (Mike Fern--CA)

Radio Exterior de Espana sked in English: 0000-0200 & 0500-0600 to Am on 9530; 1900-2000 to Eu/ME/Am on 9530, 9675, 9685, 9875; 2100-2200 to Eu on 9875.

World Service in Spanish: 2300-0200 to Am on 6055, 6125, 9620, 11945; 0200-0400 on 5970, 6055, 6125, 9530, 9620; 0400-0500 to Eu/Am on 5970, 6055, 6125, 7105, 9530; 0500-0600 to Eu/ME/Au on 6020, 7105, 9650, 11730, 11890; 0600-0700 to Eu/ME/Au on 6020, 6140, 7105, 9650, 11730, 11890; 0700-0900 to Eu on 11790, 11920, 15395; 0900-1000 to Eu/ME/Am on 11790, 11920, 12035, 15395, 17755, 17815-Su, 17845, 17890, 21555; 1000-1400 (Port nx 1015-1020) to Eu/ME/Am/As/Am on 9620 (-1200), 11790, 11910 (1200-1400), 11920, 12035, 15240 (-1100), 15395, 17755, 17815-Su, 17845, 17890, 21555; 1400-1600 to Eu/ME/Am on 11790, 11920 (-1500), 12035, 15395, 17755, 17815-Su, 17845, 17890, 21555; 1600-1700 to Eu/ME/Am on 9620, 9685, 17755, 17815-Su, 17845, 17890, 21555; 1700-1900 to Eu/Am/Am on 9620, 9685, 17755, 17815-Su, 17845, 21555; 1900-2000 to Eu/Am/Am on 7105, 9620, 9745, 11880, 12035, 17755; 2000-2200 to Eu/Am on 7105, 9620, 9745, 11880, 12035; 2200-2300 to Eu/ME/Am on 6130, 7105, 9580, 9685, 9745, 11880, 12035. (WBI 11/15)

Other languages: Arabic 1700-1900 on 6130, 9580; 2015-2200 on 6130, 9580, 9685. French 1800-1900 on 9685, 9875; 2000-2100 on 9675, 9875; 2300-2400 on 9530. German 1730-1800 Mo-Fr on 6020, 9685, 9875. Ladino 0240-0300 Fri on 9620; 0415-0435 Fri on 9690; 1805-1835 Thu on 12035. Russian 1700-1730 Mo-Fr on 6020, 9685, 9875. Spanish from the anary Is at 2200-2300 on 6125. (WBI 11/15)

SUDAN - National Unity Radio, Khartoum, 5935 kHz, at 1500 10/4 with woman giving the news, mentioning the Revolutionary Command Council. (BMM on RJDXC 10/27)

SWAZILAND - Trans-World Radio, Manzini, 9655 kHz, heard from 0358-0430*; handbell IS; African-language program, then Bible lesson in EE at 0430. (Marie Lamb, Brewerton, NY, on DXPL 10/26)

TURKEY - Turkish Police Radio, Ankara, is being heard on 7370 kHz *0430-0500* with music and an ID on the hour. (Robert Ross, ON, in Fine Tuning via Bill Matthews on RKSF 10/27)

UNITED KINGDOM - BBC has reduced the length of its tuning signal transmissions from 4 min 30 sec to 1 min 30 sec. (Andrew Marsden, BBC Ascension xmtr engineer, in a letter to Mickey Delmage, AB, in CIDX Messenger for 10/91 on DXPL 11/2)

USA - *Armed Forces RTS* feeder on 7570 kHz LSB, at 0446 with public service spots and talk show; location unknown, excellent signals, not heard next night. (Marie Lamb, Brewerton, NY, on DXPL 10/26)

Free Croatian Radio is heard on WHRI, Noblesville, IN, 7315 kHz, at 0100 and 0345. EE at 0345, Croatian at 0400; Red Cross message in EE at 0407, followed by nx in Croatian; apparently continued in Croatian until 0500. The address was given as: Free Croatian Radio, 3611 Wood St., Chicago, IL 60609. (Tom Correo, Milwaukee, WI, on DXPL 10/26)

USSR - *Vasili's Weekend* resumed on *Radio Moscow* the weekend of 10/25; advertised releases are 2130 Sat UTC and 0030 Sun UTC; the program is repeated quite often Sat and Sun. Vasili Strelnikoff has an evening show on Ekho Moskvy, 1206 kHz, 250 meters (the studio is 250 m. from Lenin's Tomb). He describes it as "American morning radio on a Sunday night in Moscow" done by two Muscovites, himself and Gregori Krichowski, who is also an announcer in the French section of R. Moscow. Two sidekicks deliver very good impersonations of Gorbachev and Yeltsin. The 100 kw SW relay is on 6135 kHz. The core staff of Ekho Moskvy or 'Radio M' are young presenters formerly with Radio Moscow's French Service. (JM and VS on RNMN 10/24)

Radio Ala, St. Petersburg, was not announcing a mail address in late October because it doesn't yet have the staff to answer the mail. (JM on RNMN 10/24)

Deutsche Welle is using Soviet relay bases at Zhigulevsk and Novosibirsk. Zhigulevsk carries transmissions to South Asia in EE and vernaculars; from 1430-1650 on 9875, with EE 1600-1650; from 0200-0250 on 17620 kHz. These two frequencies were not announced by DW between 9/28 and 10/5. In late October DW did announce the frequencies but did not say they were Soviet relays. (VG and JM on RNNN 10/24)

At the time of the coup, *All-Union Radio* had four networks: First Program, Second Program, Mayak (Lighthouse) and Orfey (Orpheus, serious music). At the end of August, *Radio Rossii*, which had been broadcasting 5 or 6 hours a day as part of the Second Program, began broadcasting 24H. Since the Second Program had covered the entire USSR on freqs from LW to FM, R. Rossii can be heard in all the other republics as well.

The next change in mid-September affected all Soviet broadcasting. All-Union Radio was reduced to three networks, which have names instead of numbers. The new networks are Orbita (news and general programming), Mayak (news and music network), and Orfey (cultural and serious music). Orbita was the name of All Union Radio's First Program to distinguish services for areas east of the Urals and those to the west. The four Orbita channels were east of the Urals. Also in mid-September, regional stations began relaying R. Rossii in time slots previously used for All-Union Radio. Most stations [outside Moscow?--mf] have stopped carrying Union Radio altogether. Feodor Brezhnikov, a DXer in Irkutsk, wrote a Japanese listener that this change took place at 2100 9/17 or midnight Moscow time.

Now that R. Rossii is being relayed by regional stations, Moscow's Second Program's frequencies have been incorporated into Orfey. All this points to a decline in All-Union Radio's status. Since Orbita doesn't broadcast on that many frequencies, most people find it easier to pick up R. Rossii. The fact that most regional stations have stopped relaying Orbita, All-Union Radio's key network, suggests that they find it unnecessary. [Or that Boris Yeltsin's decrees can be enforced.--mf]

Cuba and Afghanistan were still being relayed by Radio Moscow as this was written.

Since the USSR has more SW transmitters than any other country in the world, more countries are likely to follow *Deutsche Welle* in using Soviet transmitters as relays. (Yoshinori Kato on RJDXC 10/27)

Radio Studia Dvizhenie [carefully spelled out by RMV--mf], Yekaterinburg (ex-Sverdlovsk), Radio Studio Traffic, operated by the Radio Company of the Union of Journalists, on 9695 kHz Mon **-1400; Thurs 0330-0900; Sat 0630-0800. (Feodor Brezhnikov, Irkutsk, USSR, on DXPL 10/26)

RM: Pavel Mihailov led off his DX Program on *Radio Moscow's Russian World Service* 11/3 with this announcement: Since the fate of our service is developing very unfavorably, we are not printing or sending out frequency or program schedules for any of our transmissions. All our listeners are earnestly requested not to send in requests for new schedules, as we will not be answering them. At the end of the program when he was talking to some DXers in Moscow (on the phone?), he said: "If the Anti-Christ wins and our service has to close down, we just have to keep in contact by telephone." Mihailov was referring specifically to the Radio Moscow World Service in Russian. But there are rumors around about the fate of Radio Moscow in general.

JM: At the moment RMI is funded by the Soviet--by all the republics together, isn't it?

RM: Yes, indeed. Another worrying aspect of it all is that some of the Union ministries will be closing down on 11/15. Precisely what effect this will have on the Ministry of Communications or on Gosteleradio, I'm afraid I don't know. (JM and Richard Measham, BBCM, on RNMN 11/7) (Richard Measham, BBCM, on RNMN 11/7)

R.Pamyat, sponsored by an extreme right-wing movement, is operating on 7230 kHz from 1530-1700 and on 6145 kHz from 0000-0130. It began operating in late September. The sponsoring movement blames the Jews and the Masons for the situation the USSR is in. The address is: Radio Station Pamyat, Moscow 113535, P.O. Box 23. (JM and Richard Measham, BBCM, on RNMN 11/7) In WBI 10/25 they gave 12040 kHz for the 1530-1700 program, but noted 11/22 that it had changed to 7230 at the beginning of November. [df]

Business Radio Rezonans, Moscow, began broadcasts 11/4 w/programs directed at the business and stock exchange community & will carry ads in Russian, English, German, Polish, Slovak, French and Czech. transmitters on 1395 and 684 kHz are in Ufa and St. Petersburg, respectively. There will be a mw channel in Moscow in the new year. Editor-in-Chief is Yelena Danilova. Address is 127 427 Moscow, ul Koroleva 19. Telephone: Moscow 215-6456 or 217-9454. Fax: Moscow 215-0174. Telex: Moscow 114-532. Sked: 0500-0700 on 684, 1395, 11850; 1300-1400 on 11850 (Moscow area only); 2000-2200 on 684, 1395, 11850. (WBI 11/8) Has a good signal in the UK. (Richard Measham, BBCM, on RNMN 11/7)

Radio Ala, St. Petersburg, takes its name from the initials of its owner. It has not announced an address because it does not want letters; no staff to handle listeners' mail. After 11/3 the approximate sked is: daytime, 11965 // 7400 kHz; evening and night, 6155 // 5040 kHz. (Richard Measham, BBCM, on RNMN 11/7) One address for R. Ala, St. Petersburg, is: R. Ala, Moscow 113326. [No street or box number given] R. Ala began broadcasting 10/10. It specializes in bardic songs from Russian classic romances, which require a background in Russian history. Transmitters on 684, 5040 and 7400 kHz are in St. Petersburg; xmtrs on 1386, 6055, 11920 and 11925 kHz are in Kaliningrad. Programs are recorded at night in the Spanish-language studio of R. Moscow. All SW xmtrs are thought to be 100 kw. (Pavel Mihailov, Radio Moscow DX Program; Ekho Moskvyy DX program; via Sergei Nikishin, Moscow, on DXPL 11/9) Sked is 5040 kHz at 1630-1800 & 2200-0700; 6155 at 1530-0700; 7400 at 0730-1530; 11965 at 0700-1500. (WBI 11/8)

Deutsche Welle's Indonesian service is being relayed by ?Irkutsk on 7315 kHz between 2230-2320. (Shigenori Aoki on RJDXC 11/10) DW's JJ service from 1100-1150 moved 11/3 from 15560 to 7380 kHz NF, which also carries Moscow in JJ from 1000-1100. (Yoshiaki Hayashi on RJDXC 11/10)

Voice of the People, 3912 kHz, targeted at North Korea, heard 1435-1450 11/7 with talk by woman and classical music; weak under CA amateur QRM. One hour earlier than 1500-1600 sked in Passport 92. I got to work on time, so my clock was correct. (Mike Fern-CA)

The 10/14-20 editions of the radio & TV program magazine, *Sem Dney*, printed a list of stations in the RSFSR which carry *Russia's Radio*. Most frequencies are believed to also carry local programming. The sw frequencies are: *Bashkir SSR* 4485 0100-2300; *Magadan Oblast* 5940, 7320, 9530, 9600, all 1900-1800; *Mari-El SSR* 7200 0300-1515; 15165 1545-0100; *Murmansk Oblast (Monchegorsk)* 0300-0100; *Pern Oblast* 6165 0100-1440, 11770 1500-2300; *Maritime Kray* 5015 2100-1900; *Samara oblast (Samara)* 9550 0300-1700, 15215 1730-0100; *Sakhalin oblast* 4050 1900-1700, 11840 1900-1700; *Tyumen oblast* 4520 (*Khanty Mansiysk*) 0100-2300, 4895 0100-2400; *Khabarovsk kray* 4610 (*Komsomolsk-na-Amure* 2100-2000; 7210 (*Khabarovsk*) 2100-2000. WBI then quotes: "On the territory of the RSFSR it is also possible to receive Russia's Radio programmes on the 25, 31, 41 and 49 metre shortwave bands." (WBI 10/25)

Adygey Radio, Maykop; broadcasts in the Bzadog dialect of Adygey, one of the Circassian languages, to the Middle East, at 1930-2000 Friday on 7305 (to 11/2), 5905 (from 11/3), or 7130 (from 3/1). One hour earlier in the summer. (WBI 10/25)

Kabardino-Balkar Radio, Nalchik; broadcasts at 1930-2000 Sunday to the Middle East on 7305 (to 11/2), 5905 (11/3 - 2/29), 7130 (from 2/1); one hour earlier in summer. (WBI 10/25) The choice of frequencies suggests these two are from the same site, probably neither Maykop, nor Nal'chik. [df]

All Union Radio - Radio 1 sked is: 0300-0700 on 5910, 6000, 6080, 9540 (usb), 11815, 11945, 13760 (usb), 13820 (usb); 0700-1700 on 4055, 5910, 7240, 9540, 11815, 11945, 13760 (usb), 13820 (usb); 1700-0100 on 4055, 5775 (usb), 5910, 6035, 7140, 13820 (usb), all Russian. (WBI 11/22)

All Union Radio - Radio 2 sked: 0000-0200 on 7220, 7255, 9615; 0200-0500 on 7220, 7255, 9640; 0500-0600 on 7220, 7255, 9640, 11840, 15750 (usb); 0600-0700 on 7220, 7255, 9570, 9640, 11840, 15630 (usb), 15750 (usb); 0700-0900 on 7220, 9570, 9640, 11840, 15630 (usb), 15750 (usb); 0900-1100 on 7220, 9570, 9640, 11840, 11925, 15630 (usb), 15750 (usb); 1100-1300 on 7220, 9570, 9585, 9640, 11840, 15630 (usb), 15750 (usb); 1300-1600 on 7220, 9570, 9585, 9640, 9790, 11840, 15630 (usb), 15750 (usb), 21765; 1600-1800 on 6805 (usb),

7220, 7255, 9585, 9640, 11840; 1800-2100 on 6805 (usb), 7220, 7255, 9640; 2100-2400 on 6805 (usb), 7220, 7255, 9585, 9615. All Russian. (WBI 11/22)

Radio Echo (RR: Ekho Moskovy) sked: 0400-0700, 1500-1700 Sa/Su, 1700-2100, all in Russian on 1206 and 6035 kHz. Also possibly 2100-0300 Fri/Sat only. (WBI 11/22)

ARMENIA - **Radio Yerevan** D91 sked: 0330-0350 Armenian & 0350-0400 English on 7400, 9750, 15180, 17605, 17690. 0900-0950 Armenian & 0950-1000 French on 15455, 15485. 1500-1600 Russian on 4810, 4990, 6065. "Reception reports requested on UG7VA 14175 kHz" [whatever that means. -df]. 1600-1730 Kurdish, 1730-1830 Armenian, 1830-1930 Arabic, 1930-2200 multi-lingual (Armenian, Turkish, Persian), all on 4810, 4990, 6065, 7390. To Europe 2200-2250 in Armenian, 2250-2300 French, both on 7440, 9480. To Am at 2300-2350 Armenian & 2350-2400 Spanish, both on 9480, 11980, 12060. (WBI 11/15)

AZERBAIJAN - **Radio Baku** external service sked: on 6110 & 6135 kHz at 0430-0515 Persian, 1200-1245 Persian, 1300-1400 Turkish, 1400-1600 Azeri, 1600-1700 Turkish, 1700-1800 Arabic. (WBI 11/8)

BELORUSSIA - **Radio Minsk** D91 sked: Belorussian at 0030-0100 to Am on 7400, 15180, 17605, 17690; 1930-2000 Mo/Tu/Th/Fr on 1215, 6010, 6090, 6175, 7420 (German same time Su/We/Sa); 2230-2300 on 5950, 6165. (WBI 11/15) The Belorussian Supreme Council on 9/19 endorsed the new name of the nation, the Republic of Belarus. (FBIS-SOV-91-183 quoting TASS, 20 Sept 91, via Mike Fern) [The tractor was named after the country, not vice versa. Minsk radio now calls itself "Radio Belarus" or "Radiostantsi Belarus."--mf]

GEORGIA - Monitoring observations show Georgian domestic radio on 7125 is on a restricted sked. Noted 10/18, 21-23 w/s/on 0500. On 10/17, 18, 21, 22 had an intermission 1100-1400. News is Georgian is generally at 0500 & 1400. (WBI 10/25)

KAZAKHSTAN - **Radio Alma-Ata** sked: on 5915 & 6135 in Kazakh at 0000, 0100, 1330, 1400, 1500, 1600; English at 0130 & 1630; all 30 minute programs. Also English 2230-2300 on 3955, 4395, 5035, 5260, 5945, 5960, 5970, 5985, 6060, 6075, 6125, 6130, 7115, 7235, 7240, 7280, 7320, 9505, 9550, 9705, 11825, 11920, 15215, 15270, 15315, 15385, 17605, 17715, 17730, 21490. (WBI 11/22)

UKRAINE - **Radio Kiev** sked: English 0100-0200 to NA on 7400, 9800, 15180, 17605, 17690; 0245-0345 to Europe on 4825; 2200-2300 to Eur 2200-2300 on 6020 (9820 also anncd). German 0345-0445 on 4825, 1800-1900 on 6010, 6020, 6090; 2100-2200 on 6020 (9820 also anncd). Ukrainian 0300-0330 & 0400-0430 on 7400, 9750, 15180, 17605, 17690; 0445-0545 on 4825; 1900-1930 & 2000-2100 on 6010, 6020, 6090; 2300-2400 to NA on 7400, 15180, 17605, 17690; 2300-0030 to Europe on 5960, 9820. (WBI 11/22)

UZBEKISTAN - **Radio Tashkent** external service sked: On 5930, 5955, 7190 & 7265 kHz at 0100 English, 0130 Dari, 0200 Pashto, 0230-0330 Uzbek. / On 5945, 9540, 15470, 17745 at 1200 English, 1230 Urdu, 1300 Hindi, 1330 English, 1400 Urdu, 1430-1500 Hindi. On 5935, 5945, 7165, 7285 at 1520 Dari, 1550 Uzbek, 1630 Persian, 1700 Arabic, 1730 Uzbek, 1830 Persian, 1900-1930 Arabic. On 5915 & 6135 with 30 minute programs in Uighur at 0030, 1230, 1430, 1530 & 2330. (WBI 11/8)

VENEZUELA - **Radio Nacional**, 9540 kHz, carried an interview with Haiti's President Aristide in SS at 1120 10/19. R. Venezuela also broadcasts in (Haitian) Creole on the weekends. A rumor was circulating in Miami that President Aristide would use R. Nacional to address Haiti. Maybe R. Nacional de Venezuela was the clandestine station used to organize the October strike. (Tim Hendel, FL, on RNMN 10/24) Maybe a combination of Venezuelan and Dominican Republic transmitters. (JM on RNMN 10/24)

YEMEN - The *Voice of Palestine* (Saut al Thawra al Filistin) is heard in AA around 1800 on 792 kHz with fair to good signals, but with co-channel QRM from VOA, Kavala, Greece, also transmitting to the Middle East. The same program is carried from 1600-1800 on 15205 kHz. (Victor Goonetilleke on RNMN 10/31)

YUGOSLAVIA - A station on 1413 kHz with ID which sounded like "Radio Television Pristina" was heard the week of 10/20. This station (Pristina 1, 1000 kw.) in Kosovo was supposed to be silent, but was heard in Holland at *1700* with Balkan music and news on the hour. It's thought the station was silenced by the Serbs when they took over in Kosovo. No confirmation from normal channels that the station is back on. (Julius Herrmanns and JM on RNMN 10/24)

A high-powered MW transmitter in Croatia has appeared on 1557 kHz, until recently used by a 20 kw local station at Osijek which seems to have been destroyed by Serbian forces. 1557 kHz now carries programming from Croatian Radio, most of it in Croatian. Dario Monferini in Italy reports news in EE at 2200 followed by news in GG. The program was not // 9830 kHz. 1557 kHz may be at Zadar or Tovarnik. (JM and Julius Herrmanns on RNMN 10/24)

CLANDESTINE -- CHINA The *Voice of China* (VoC) is located on Taiwan, uses a transmitter of Taiwan's Central Broadcasting System (directed at mainland China) and is heavily jammed by the PRC. The CBS news theme is always played at a low level at the end of each broadcast. In September VoC began asking for listener mail near the end of each daily transmission. Its address is: PO Box 11696, Berkeley, CA 94701, USA. This replaces an address in Walnut Creek, CA. VoC transmits from 2100-2200 on 15280 kHz. (Tooru Yamashita on RJDXC 10/27)

The *Voice of Taiwan*, a clandestine station apparently located on that island, began broadcasting 10/23 on 9990 kHz in EE, JJ, CC, and a Chinese dialect, possibly Amoy. The EE ID is "You are listening to the Voice of Taiwan. Here is the news from Taipei, Taiwan." On 10/23 it was tuned in at 1305, in JJ which ended at 1322. Then came a 10-min EE program and music. The station closed down at 1353. On 10/24 and 10/25 transmissions began with a Chinese dialect at 1400, then Standard Chinese at 1434, JJ at 1500, and EE at 1525, closing at 1600. All programs on 10/24 and 10/25 were repetitions of those on 10/23. The VoT strongly opposes the Kuomintang, Taiwan's ruling party, and some policies of other Taiwan parties. Its JJ presenter, Mr. Wu Wo-Tien, says the station was first planned two years ago. Many Taiwan opposition groups, including the Democratic Progressive Party, have run illegal radio, TV, and cable operations for several years; they are frequently rousted by the police. Wu Wo-Tien also works for a clandestine TV station, "TV Voice of Democracy," which said that SW broadcasts to the rest of the world, including Japan, would begin in October. The Voice of Taiwan says it would not be surprised to be arrested at any time. They even announce their address and fax number: +886 2-522-2080. (Shigenori Aoki, Tetsuya Kondo and Tooru Yamashita on RJDXC 10/27)

IRAN - Iran's Flag of Freedom Radio operates at 0330-0525 on 9045, 9250, 11470, 15556; 0645-0730 on 11470, 15105; 1400-1445 on 11470, 15105; 1630-1825 on 9355, 11470, 15100, 15565. All in Persian, with some items in Azeri. The station is pro-monarchist and hostile to the government of Iran. The transmitters are believed to be located in Egypt. (WBI 11/8)

IRAQ - Radio of Iraqi Rep/V of Iraqi People hrd on 9568 since 11/11 using this new ID: "Idha'at ul-gumhuriya al-Iraqiya fi Baghdad, Saut as-Shaab al-Iraqiy", from 1400 AA tk & mx to 1600 f/o; same day on 15602 & 17955 from 1830 in AA, but also uses 17950 or 17960. *Flag of Freedom Radio* hrd again on old 15555, in Farsi at *0330-0524* & *1630-1824*.; fair sig 10/5. (Ernie Behr) *Voice of Iraqi Kurdistan* announced sked from 11/17: 1400-1500, repeated at 0430-0530 on 3970 & 5545 kHz. The stations broadcasts on behalf of Mas'ud Barzani, leader of the Democratic Party of Kurdistan. (WBI 11/22)

MOZAMBIQUE - A station broadcasting in Portuguese and Chissena, calling itself the Voice of Renamo [Port: A Voz da Renamo] was observed on 9990 kHz 10/22 at 1500-1600 & 10/23 at 0500-0530. Renamo is the acronym for the Mozambique National Resistance Movement, which is hostile to the government of Mozambique.

A Renamo radio had operated under the title Voice of the Mozambique National Resistance* from a transmitter possibly in the Mozambique/South Africa area until March 1984. Between 1980 and 1983, the station used the name "Voice of Free Africa". This station had its origins in an identically named station which operated from a transmitter in Swelo, Rhodesia [now Zimbabwe], from 1976-1980. (WBI 10/25) Believed to operate from Gorongosa, in Central Mozambique. (WBI 11/1)

SUDAN - Radio SPLA noted 10/20 & 21 to have resumed broadcasting. Had been unheard since 5/27, the day before EPRDF forces entered Addis Ababa and took control of the Voice of Ethiopia, whose facilities had been used by Radio SPLA. Both days was heard 1300-1400 on 11710 with 30 minutes each in English & Arabic. Not heard on 9550, the other frequency previously used by Radio SPLA. Used the same ID as before: "Radio SPLA, the voice of the Sudanese revolutionary armed struggle". An announcement described the transmission as a "test broadcast". (WBI 10/25)

JAMMING - Levels of jamming, particularly in the Middle East, increased shortly before the Madrid peace talks started 10/30. There may be no connection, but with jamming you never know.

JM: According to the Voice of America's chief frequency management engineer Bill Whitacre, the VOA probably suffers the most from deliberate interference.

BW: We are still jammed in the Middle East. We have only just found this out ourselves. It is very limited in scope and effectiveness. We're concerned, but we're not making any fast changes because of it.

JM: Overall jamming levels in the Middle East dropped suddenly in mid-January because of the Gulf War. Allied forces knocked out several xmit sites in Iraq specifically designed to block broadcasts from foreign stations. Now the jamming level is starting to increase again. So it's fair to assume that the QRM is coming from Iraq.

BW: To the best of our knowledge, it is. Very coarse direction-finding done by one of our monitors on a survey in the area indicated that it was in that direction. We know of no other country in the region that would have any reason to jam our services.

JM: It would appear that the xmitrs that were knocked out during the Gulf War are back on the air, right?

BW: At least some of them.

JM: Victor Goonetilleke in Sri Lanka has more information about interference to programs relayed from VOA stations in Greece and Bahrain.

VG: On Mon 10/28, I suddenly started hearing jamming on VOA Bahrain on 1350 kHz. The jamming came up suddenly around 1810 during the regular EE program for the Middle East. At 1915 the jamming suddenly ceased. At 1900 VOA Bahrain had gone over to Arabic.

JM: Which is rather peculiar, because most jamming in the Middle East up to now has been directed against Arabic b/cs and not against English.

VG: VOA from Rhodes has been heavily jammed at least for the last two months daily, and that includes not only the Arabic programming to the Middle East on 1260 kHz MW, but also their entire English language block. So the prime listening time in the Middle East, on MW, from VOA, has been subjected to severe jamming, especially on 1260 kHz. VOA Rhodes starts fading in here in Colombo around 1500 UTC, and the jammer is there right from the start, until well past 2000 UTC which is almost 1:30 am here.

JM: Is the jamming effective?

VG: At times the jamming is very effective, especially 10/28, Bahrain was almost completely knocked out by the new jamming. On 10/29 the jamming was not so severe.

JM: Are broadcasts from Syria jammed too?

VG: The main broadcast from Syria beamed towards Iraq is always severely jammed on 825 kHz.

JM: Bill Whitacre points out that the Middle East is still not a major source when it comes to deliberate shortwave interference.

BW: In China, the situation is a bit worse. The jamming is more effective, it's more pervasive, and it affects just about all of our frequencies at one time or another that are on the air. The BBC in China is definitely still being jammed, we don't think quite to the extent that we are. (VOA has made) repeated official objections to the ITU as well as approaches to the Ministry in Beijing and, in fact, we even had some people from the Chinese Embassy here to VOA to listen to sounds recorded from our remote monitoring system. They very dutifully took notes but would admit to nothing. (RNMN 10/31)

PROPAGATION - Since early September Cary Oler, associated with a group called *Solar Terrestrial Dispatch*, has been posting to the *rec.radio.shortwave* newsgroup on the Usenet computer network a daily "broadcast" of solar and geophysical indices. I get the data, together with a brief summary of related events, and expected propagation conditions, direct to my CompuServe ID and routinely re-post it to Message Section 0 (General Discussions) in the HamNet Forum on CompuServe. There's also a weekly *Solar Terrestrial Forecast and Review* from the same group which is posted in Library 3 in HamNet. Tom Sundstrom also gets the material and makes it available in his Pinelands BBS.

Ham Radio Nets - Dave Rood, KA9SRU, of Oxford, WI and Dave Zantel, N9EWO, launched a Sunday net for SWLs on 28400 kHz upper sideband. Trial dates were Nov. 10-17-24 at 1600-1700 Sun UTC. The frequency was chosen to allow participation by US Novice and Technician licensees. Try 10 kHz either side if the channel is otherwise occupied. (DXPL 10/19)

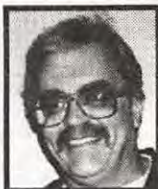
Publications - *WRTH Downlink* has ceased publication in its current format with the Autumn 1991 issue. Plans for one or more new publications will be announced in WRTH 92.

SOURCES: ASWP--Austrian Short Wave Panorama, ORF; DXPL--DX Party Line, HCJB; KMH--Ken MacHarg, DXPL; QLB--Quito Log Book, DXPL; RMV--Rich McVicar, presenter, DXPL; LMV--Lisa (Mrs. Rich) McVicar, DXPL. RJDXC--Radio Japan DX Corner. BMM - Bruce MacGibbon, RJDXC. RKSF--Radio Korea Shortwave Feedback. RNMN--Radio Nederland Media Network; JM--Jonathan Marks, presenter, RNMN; VG--Victor Goonetilleke, RNMN. RNZI--Radio New Zealand International Mailbox. AC--Arthur Cushen, DXPL, RNMN or RNZI. SCDX - Sweden Calling DXers. Above sources monitored by Mike Fern unless otherwise noted.

Any opinions I express here are mine, not those of VOA, where I work. Enjoy the holidays & we'll be back in January. df

QSL Reports

Sam Barlo
47 Prospect Place
Bristol, CT 06010



ABU DHABI: Capital Radio 17855 folder cd. was rcvd. from the Voice of the UAE Radio in 22 ds. for 2 IRCs. My rpt. was directly to Capital Radio. (Darling-PNG). Voice of the UAE 15305 p/d ltr. in 2 mo. w/ schedule. (Millard-TX).

ALGERIA: Radio Television Algiers 7245.9 via Ouled Fayet p/d cd. in 4 mo. w/ schedule. (Barto).

ANTIGUA: Deutsche Welle 17810 f/d "Reunification" cd. w/ schedule in 7 wks. (Barto-CT).

ASCENSION ISLAND: BBC 9600 ltr. rcvd. in 3 yrs. This was 67 ds. after a f/up rpt. to the site for \$1.00. v/s Andrew Marsden, Transmitting Engineer. (Darling-PNG).



Carnarvon f/d ltr. for 13745 w/ n/d cd. in 2 mo. (Barto-CT). VNG 16000 f/d folder cd. in 18 ds. w/ station information for 1 IRC. (Kurrasch-NY).

BELGIUM: BRT 13710 f/d "St. Ursula" cd. in 76 ds. for \$1.00. (Gal-gano-NY). 13720 same cd. in 4 mo. w/ station information on * joining the DX Club. (Wallace-MA). Radio One 17680 via RTBF f/d cd. in 74 ds. (D'Angelo-PA).

BOLIVIA: Radio Libertad 5004 p/d personal ltr. in 63 ds. for a SP rpt. * and \$1.00. Also rcvd. 2 station pennants and a few stickers. v/s Carmina Ortiz H., Jefe de Publicidad y RRPP. Addr: Casilla 5324, La Paz. (D'Angelo-PA). Radio San Gabriel 6080 f/d cd. in 4 mo. w/ a personal ltr. for a SP rpt. Schedule was rcvd. (Field-MI).

BONAIRE: Radio Nederland 15560 f/d "Special SSB Broadcast" cd. in 2 mo. (Wallace-MA).

BOTSWANA: Radio Botswana 7255 f/d "Herdsoy Milking a Cow" cd. in 187 ds. for 3 IRCs.

BULGARIA: Radio Sofia 11660 (Kurrasch). f/d cd. w/ station schedule in 107 ds. for 1 IRC. (Dieterich-GER).

BYELORUSSIA: Radio Moscow 15470 via Orsha f/d cd. in 11 mo. after a f/up rpt. (Hosmer-MI).

CANADA: Radio Korea 9650 via RCI-Sackville n/d "Pond" cd. in 5 mo. w/ schedule. (Wallace-MA).

Radio Japan 5960 via RCI-Sackville f/d cd. w/ site in 3 wks. Also rcvd. a calendar and pennant for answering their DX quiz correctly. (Wallace-MA).

CELEBES: RRI Ujung Pandang 4753.2 n/d "Ujung Pandang Harbour" cd. in EG in 11 mo. for an IN rpt. and ms. v/s Drs. H. Harmyn Hussein. (Name?)

CHILE: CE608 Radio Esperanza 6088.6 p/d ltr. in 4 mo. for a SP rpt. v/s Ray Woerner.

CHINA, PEOPLES REPUBLIC OF: (Barto-CT). Radio Beijing 9690 f/d cd. in 27 ds. w/ newsltr. (Cobo-TX)....Spain relay???..Sam.

Deutsche Welle
Informationssender für die Welt
via Wayberry



Radio and TV from Germany

Radio y Televisión desde Alemania

Radio e Televisão da Alemanha • Radio et Télévision d'Allemagne



Radio Korea

Dear Mr. D'Angelo!

We verify Your reception report

Date 31/12/1989

Time 23.30-23.59 UTC

Frequency 7400 kHz

With best wishes

RADIO MINSK

CLANDESTINE: La Voz de La Fundacion

* 9495 via **WHRI** f/d cd. w/ sticker in 27 ds. for ms. and a SP rpt. **Addr: The Cuban American National Fundacion, P.O. Box 440069, Miami, FL 33144, (Hardester-NC).** **Voice of the Khmer** 6325 f/d folder in 10 wks. after several f/up rpts. **Addr: P.O. Box 22-25, Ramendura P.O., Bangkok, 10220. (Field-MI).**

COSTA RICA: Radio For Peace International 7375 "Special FM mode" cd. w/ ltr. in 3 mo. for \$1.00. (Wallace-MA). **TIHB Radio Reloj** 6005.5 and 4839.5 f/d "Clock/Logo" cd.

VERIFICATION SIGNERS: Radio New York International 15029 via **Radio For Peace International** Tina Shields. **Radio Rebelde** 3365 Noemi Cairo Marin, Secretaria. **Radio Catolica Nacional** 5030 John A. Siguenza, Director Adjunto. **HD210A** 3810 Fausto Lopez Villega, Capitan de Corbeta. **Emisoras Gran Colombia** 4910 Cesar Farah Romero, Director General. **HCJB** 15270 Richard McVicar. **Radio Bangladesh** 15647 Mr. Munshi Ahsan Kabir. **Radio Parakou** 5025 J. Da Matha, Le Chef de la Station Regionale. **Radio Eco** 4409 Carlos Espinoza Gonzales Cortez. **Addr: Correo Central, Reyes, Beni.** **Radio Ilimani** 6025 Gladys de Zamora, Secretaria. **Radio Panamerica** 6105 Daniel Sanchez Rocha, Director. **Radio Inconfidencia** 6010 Manuel Emilio de Lima Torres, Director Superintendente. **Radio Educadora da Bahia** 9540 Antonio Luis Almada, Director...via **PLAY/UX.**

in 7 wks. for a SP rpt. (Barto-CT). **Radio New York International** 7375 * via **RPPI "Gunslinger"** cd. in 3 mo. for ms. (Wallace-MA). 21465 f/d cd. in 9 ds. for ms. (name?)

CUBA: Radio Habana Cuba 5965 f/d "RHC DX Club QSL" cd. in 6 mo. for a rpt. on their SSB test. (Berg-MA). same cd. in 6 mo. w/ station calendars. My cd. says #1! Yea! (Wallace-MA). f/d "Model airplanes" cd. in 6 mo. (Lare-MI).

QSL
Certificado de Sintonia
Estação **RADIO ALVCRACA DE FARIANTS LTDA**
Para **ROJLAND ARCHER**

Agradecemos o seu relato de recepção. Confirmamos a exatidão dos seus detalhes de nossa emissão no dia 30/10/98 entre as 6:12 e 6:45 horas na frequência de 4.965 qHz. com 5.000 watts.

CZECHOSLOVAKIA: Radio Praha International 6055 and 7345 via **Litomysl** f/d cd. in 7 wks. (Barto-CT). 9605 via **Velke Kostolany** f/d cd. w/ site in 1 1/2 mo. (Barto-CT). 5930 via **Rimavska Sobota** f/d cd. in 7 wks. (Barto)

7345 f/d "Orik Chateau" cd. in 24 ds. (Kurrasch-NY). f/d "Karlstejn Castle" cd. in 20 ds. for 2 rpts. (Kurrasch-NY).

DENMARK: Quality Radio [Dutch address, but postmark and, it is believed, * location are Denmark] sent usual "Girl-Holding Radio" cd. and info. sheet in 14 mo. for a rpt. on a second logging that I sent just a few days before receiving their QSL for my first logging. (Berg-MA).

DOMINICAN REPUBLIC: Radio Barahona 4930 n/d form ltr. different from my first reply and stressing Radio Barahona International. This was my second reply to one rpt. (D'Angelo-PA). same ltr. w/ sticker 5 mo. after I rcvd. my first QSL. (Berg-MA). Same here from this station...Sam. Apparently the station is sending out greetings to its older listeners "reporters" w/ little gifts "stickers" in order to boost publicity for the station.

ECUADOR: HCRG1 Radio Melodia 3375 * f/d cd. in 8 mo. for a SP rpt. on a 1976 reception. (Barto-CT). **HCJB** 25950 f/d "Studio" cd. in 2 mo. for \$1.00. (Wallace-CT).



WJMK

RADIO FREE NEW ENGLAND



OSL #10
PRINT FOR FREE LABOR

TO:		DEAR FEMALE LISTENER:			
CHRISTOPHER LOBDELL		THANK YOU FOR YOUR REPORT. IT IS GREATLY APPRECIATED. PLEASE CONT LISTENING AND WRITE AGAIN SOON.			
DATE:	FREQ:	MODE:	POWER:	TIME:	
Sept 13, 1991	7415 kHz	AM	100 WATTS	3:40-3:46	REC

- EL SALVADOR:** Radio El Salvador 9587 n/d ltr. in 36 ds. for a SP rpt. This * after 7 yrs. of attempts/ v/s Maritza Toruno. (Paszkiwicz-WI).
- ENGLAND:** BFBS 15390 via Rampisham and 17695 via Davenport p/d cd. in 6 mo. v/s Richard Astbury, Station Manager. (Barto-CT).
- EUROPEAN RUSSIA:** Radio Moscow 17810 via Moscow cd. in 68 ds. (Darling-PNG). 15210 f/d cd. in 68 ds. (Darling-PNG).
- EUROPIRATE:** Live Wire Radio 6282 f/d hot-pink cd. v/s Bill Lewis. Station * uses 120 watts. Also rcvd. sticker, ltr. and info. on the station. Addr: 30 Pinewood, Ballybrack, Dublin, Ireland. You can still use 21 Green Park, Bath BA1 1HZ, England...but if you use this address address the report to



- * Mr. Bill Lewis. (Berg-MA). Radio FAX 12255 and 6205 f/d cd. w/ info. sheets and a personal note in 20 ds. for \$1.00. v/s Trevor Brook. (Hardester-NC). Radio Harmony 6305 p/d "Texas - The Lone Star State" cd. in 39 ds. for 3 IRCs. Also rcvd. station info. Addr: P.O. Box 7, Venus, TX 76084. (Dieterich-GER). f/d cd. in 5 wks. for a taped rpt. Also rcvd. same cd. as above along w/ a form ltr. v/s Richard A. Montgomery, Jr. (Berg).
- FINLAND:** Radio Finland 15185 f/d prepared cd. * in 42 ds. for \$1.00. Also rcvd. numerous stickers, schedules, several glossy magazines and other items after years of no luck. (Kurrasch-NY). n/d "Four Seasons" cd. in 46 ds. for ms. (Galgano-NY). (Galgano-NY).

- FRANCE:** RFI 5990 f/d cd. in 56 ds. for \$1.00. 5055 p/d "Traditional House" cd. in 6 mo. for a FR rpt. and \$1.00. Stickers were rcvd. (Lare-MI).
- GABON:** International Red Cross Radio 12035 via Moyabi f/d cd. w/o site in 3 mo. (Wallace-MA). Radio Japan 15355 via Moyabi f/d "Broadcasting Center" cd. w/ site in 2 mo. Schedule and sticker were rcvd. (Wallace-MA).
- GERMANY:** Deutsche Welle 13610 f/d "Reunification" cd. w/ site as Julich in 3 1/2 mo. (Field-MI). same freq. but for Leipzig w/ f/d cd. in 7 wks. (Barto-CT). 15275 via Wertachtal and 11795 via Julich f/d cds. in 2 mo. (Barto-CT). VOA 15215 via Wertachtal f/d cd. w/o site in 3 wks, then, w/o sending a f/up I received a f/d cd. in different handwriting w/ the site indicated! (Wallace-MA). VOA-Europe 15195 via Munich f/d "Liberty Bell" cd. w/ site in 5 wks. (Craighead-KS) f/d "Discovery" cd. w/ poster, folder, stickers, etc. in 4 mo. after a f/up rpt. (Berg-MA). 21570 via Wertachtal f/d cd. in 4 mo. (Berg-MA).

RADIO "ECOS DEL ORIENTE"
LA VEZ EN LAZOS ALIADOS
REPUBLICA DEL ECUADOR

CONCEDE EL PRESENTE
DIPLOMA DE HONOR
Christopher L. Lobdell

Por su testimonio de sintonia confirmándolo como un oyente feliz.

Logo: Agno. 1991
Presidente
SECRETARIA

- GHANA:** GBC-1 4915 f/d cd. w/ schedule in 32 ds. (Kurrasch-NY).



РАДИО МОСКВА

MOZAMBIQUE: Radio Mozambique 4872 and 5020 f/d ltr. in 1 mo. after a f/up rpt. in PT for 2 IRCs and \$1.00. (Flosi-BRASIL).
MONACO: Trans World Radio 9480 f/d "Map" cd. in 39 ds. w/ pennant and schedule for 1 IRC. (MacHarg).

Dear Mr. Hart,

This verifies your report on the reception of Radio Moscow's broadcast in Russian
Date 17-9-89
Time 13.40-14.29 UTC
Frequency 18195 kHz (SSB)

MONGOLIA: Radio Ulan Bator 4995 via **Choi-balsan** cd. w/ schedule and postcards in 104 ds. (Darling-PNG).

NEW BRITAIN: Radio East New Britain 3385 f/d cd. in 366 ds. for ms. v/s Esekia Mael who says they have a backlog of rpts. (Hosmer-MI).

NEW GUINEA TERRITORY: Radio Sandaun 3205 p/d ltr. in 35 ds. for \$1.00. v/s Gabriel Deckwalen, Station Manager. (Name?) (Morby-NY).

NEWFOUNDLAND: CKZN 6160 f/d "Map" folder cd. in 15 ds. w/ schedule
NEW ZEALAND: Radio New Zealand International 17770 f/d cd. in 27 ds. for 1 IRC. Also rcvd. schedule, tourist info and NZ map. (Dieterich)

NORTHERN IRELAND: Northern Ireland Relay Service 6273 f/d "Antrim Coast Road" cd. in 170 ds. for \$1.00. v/s Andy Craig, Engineer. (D'Angelo-PA). 6272.4 f/d cd. in 5 mo. of sweating for \$1.00. (Wallace-MA). f/d "Sunset" cd. in 5 mo. for \$1.00. (Morby-NY). f/d cd. in 3 mo. (Barto-CT). 6261.5 f/d ltr. w/ info. sheet and postcard in 30 ds. for \$1.00. 80 watts! Addr: NIRS, 14 Stone Row, Coleraine, Co. Londonderry BT52 1EP, N.I. (U.K.). (Hardester-NC).

NORWAY: Radio Norway International 17740 f/d "Ardal Aluminum Works" cd. w/ 1989 schedule! in 657 ds. (Hardester-NC).

OMAN: Radio Oman 11890 f/d "Studio" cd. in 19 mo. w/ site indicated as **Muscat** (Wallace). same in 1 1/2 yrs. w/ site indicated as **Salalah**. v/s Rashid Haroon. (Wallace).

THIS CONFIRMS that Samuel Barta heard Secret Society Radio on November 26, 1979 at 22.08 to 22.12 (GMT) on 6850 kHz. Tune Your Receiver Carefully and Look for Another Broadcast from Secret Society Radio. ANTENNA: Cut Dipole TRANSMITTER: HALL/ENFERS 11-40 POWER: 50 WATTS LOCATION: ?????????????? 7410 Q.S.L. 6850
Secret Society Radio
Your Rock-N-Roll Connection

PERU: Radio Satellite 6725 f/d cd. w/ personal ltr. in 9 mo. for a SP rpt. and \$1.00.150 watts! v/s Sabino Llamo Chavez, Gerente. (Lobdell-MA). f/d "Certificado de Sintonia" in 4 mo. on my 18th try!!! (Field-MI). **Radio Cora** 4915 my 2nd

QSL arrived by registered mail in 6 mo. after the first QSL. v/s Juan Ramirez Lazo. (Berg-MA). **Radio Imagen** 4970 p/d ltr. in 115 ds. for a SP rpt. v/s Jaime Rios Tapullima, Gerente General. (MacHarg).

PHILIPPINES: Radio Pilipinas 21580 cd. w/ schedule in 20 ds. for 2 IRCs. (Darling-PNG). **FEBC DZB2** 3330 via **Haco-Mondoro** cd. w/ schedule and other pamphlets in 104 ds. for 2 IRCs. (Darling-PNG). **FEBC Radio International** 11995 f/d "Eagle" cd. in 3 mo. w/ schedule. (Barto).

PORTUGAL: Radio Portugal 9555 f/d "Old World Map" cd. w/ schedule in 22 wks. for 1 IRC. (Datz-IL). **Adventist World Radio** 9670 via **Sines** f/d cd. w/ pennant, stickers and schedule. (Dieterich-GER). **Deutschlandfunk** 15155 via **Sines** n/d "European Country Automobile Badges" cd. in 10 wks. (Craighead-KS). **Radio Renascenca** 9600 f/d blue cd. in 2 mo. (Wallace-MA).

ROMANIA: Radio Romania International 11940, 17720, 15365 and 21665 p/d cd. in 3 mo. w/ schedule and a personal ltr. (Barto-CT). 15335 cd. w/ schedule in 44 ds. after a f/up rpt. (Darling-PNG).

RWANDA: Deutsche Welle 17860 f/d "Reunification" cd. in 7 wks. (Barto-CT).

SABAH: RTVM - Kota Kinabalu 4970 f/d cd. in 4 mo. (Barto-CT).



SABAH: RTVM - Kota Kinabalu 4970 f/d "Map" cd. in 57 ds. v/s Benedict Janil, Director of Broadcasting. (Lawrence-CA).

SICILY: Radio Uno 9515 via Caltanissetta n/d cd. in 184 ds. (D'Angelo-PA).

SOUTH AFRICA: Radio RSA rcvd. a very nice 8x12" blue, silver and black "Certificate of Listenership" which was awarded to mark the 25th anniversary of their first transmission in 1966. (Berg-MA).

SPAIN: Radio Exterior de Espana 11880 f/d cd. w/ schedule in 36 ds. for 1 IRC (returned). (Datz-IL).

SRI LANKA: Deutsche Welle 21650 f/d "Reunification" cd. in 1 mo. (Wallace-MA).

SULAWESI: RRI Ujung Pandang 4753 n/d personal postcard in 6 mo. after a f/up rpt. (Lobdell).

SWAZILAND: Trans World Radio 11742 f/d cd. in 1 mo. for 3 IRCS. v/s L. Stavropoulos. (Boulden).

SYRIA: Radio Damascus 15095 f/d cd. w/ sticker and the "Syrian Times" news ltr. in 118 ds. for 3 IRCS. (Christensen-ALB). f/d "Map" cd. in 94 ds. for \$1.00. (Lawrence-CA). 12085 f/d cd. w/ newsltr. via registered mail in 10 mo. (Prisco-PA).

TANGIER: VOA 21625 f/d "Crosley Transmitter" cd. in 17 ds. (Lawrence-CA).

THAILAND: Radio Thailand 9655 f/d "Fruit Market" cd. w/ ltr. and station pennant in 11 mo. v/s Hubpa Laemluang, Chief of External Services. (Name?)

UKRAINE: Radio Moscow 21800 via Simferopol f/d cd. in 68 ds. (Darling-PNG). 11750 via Lvov f/d "Lenin Monument" cd. in 35 ds. (Kurrasch-NY). 12070 via Vinnitsa f/d cd. w/ site in 35 ds. (Kurrasch-NY).

USA: KTUN 7510 f/d "TUN Antenna" cd. in 3 mo. (Barto). * **WCSN** 9840 f/d cd. in 2 mo. (Boulden). **Croatian Radio Zagreb** 9495 and 7315 via **WHRI** f/d black and silver "Buildings w/ Antennas" cd. in 3 mo. (Craighead-KS).

VOA 13740 via Bethany f/d "50th Anniversary" cd. w/ personal ltr. in 8 ds. v/s John Vodenik. (Millard-TX) Berg in MA

recommends sending your rpt. to P.O. Box 227, Mason, OH 45040 in care of the v/s. Station welcomes rpts. **Radio Free New York** 7520 via **WWCR** n/d cd. in 1 1/2 mo. (Wallace-MA). **VOA Europe** 9600 (presumed site is **Greenville**) p/d "Bicentennial Stamps" cd. in 3 mo. (Craighead).

USA (Pirates): He Man Radio 7412 f/d cd. in 5 wks. for ms. (Bolitho-ONT). **Action Radio** 7415 f/d "Map of Nebraska" cd. in 3 wks. v/s A.

J. Michaels. Use Wells-ville address. (Field-MI). **WKND Radio Animal** 7415 f/d cd. w/ station info. sheet. Personal ltr. was rcvd. 100 watts. (Field-MI). **Defiance 90** 7416 f/d cd. w/ info. on Anarchist Black Cross in 6 wks. for ms. Report to Box 109. (Bolitho-ONT). **Radio Free New England** 7420 f/d "Map" QSL #8 in 2 wks. w/ info. sheet. 100 watts. Station says their name is **WGNK/R.F.N.E.** (Berg-MA). **WLIS** 7410 f/d cd. in 1 mo. for ms. Report to Box 109. (Bolitho-ONT).

SODRE
SERVICIO OFICIAL DE DIFUSION RADIOELECTRICA
REPUBLICA ORIENTAL DEL URUGUAY. Montevideo. Marcadas 823

via Nelson George

CXA 4 - 8.125 Kcs. CXA 6 - 0.020 Kcs.
CXA 10 - 11.805 Kcs. CXA 14 - 15.300 Kcs.

1476 MILL. 6026 COATS

Radio Shack
Puntos de Venta de Radio Shack en la America del Sur
118000 10414, 10415, 10416, 10417, 10418, 10419, 10420, 10421, 10422, 10423, 10424, 10425, 10426, 10427, 10428, 10429, 10430, 10431, 10432, 10433, 10434, 10435, 10436, 10437, 10438, 10439, 10440, 10441, 10442, 10443, 10444, 10445, 10446, 10447, 10448, 10449, 10450, 10451, 10452, 10453, 10454, 10455, 10456, 10457, 10458, 10459, 10460, 10461, 10462, 10463, 10464, 10465, 10466, 10467, 10468, 10469, 10470, 10471, 10472, 10473, 10474, 10475, 10476, 10477, 10478, 10479, 10480, 10481, 10482, 10483, 10484, 10485, 10486, 10487, 10488, 10489, 10490, 10491, 10492, 10493, 10494, 10495, 10496, 10497, 10498, 10499, 10500

El Puyo, agosto 07 de 1983

Radio Shack
David Archer, Manager
1511 Newmarket Park
Beltsville, MD 21741
Estados Unidos de Norte America

De nuestras consideraciones:

Los amigos de Radio Rio Amazonas tambien se alegraron de recibir y agradecer por el regalo de nuestra radio emisora que fue enviada con la programación difusionada en la fecha que usted nos ha informado.

Respecto a su comentario y las dudas que plantea por el retraso en respuesta a su mensaje, permito que por limitaciones de personal no se ha podido hacerlo con la debida oportunidad, apreciamos nuevamente su interés hacia la programación y el tiempo que ha tomado para escribirnos.

Compartimos con usted que Radio Rio Amazonas es una emisora oficial que inició sus labores el 12 de febrero de 1981. El estudio principal está ubicado en Mucuna, parroquia rural y habilitada especialmente por gestión de otro amigo.

Desde 1977 funciona un taller a través de una capellania instalada en la casa de la parroquia del Curato, por medio de la cual realizamos programas de evangelización desde Mucuna y Puyo. Los cultivos por momentos se programan en el equipo móvil desde Ingua y sus alrededores de la zona amazónica, que dista de Mucuna de aproximadamente 100 km.

Laboramos diariamente en las 1870 hrs de la zona curato, banda internacional de los 60 metros. Nuestra emisora de difusión en el momento actual desde las 1800 a 7300 programación en idioma español de 1800 a 1930 en castellano; la segunda emisora desde las 1800 a 1830 emitida en español y de 1830 a 2300 en castellano.

En reconocimiento a su mensaje adjuntamos un brochure de nuestra emisora como un recuerdo de la estación que iniciamos hoy.

Atentamente,
Por Radio Rio Amazonas
Prof. Mario C. Siles D.
GEMEP.

USA (Pirates): **WORK** 7412 f/d cd. w/ personal note in 5 wks. for a rpt. to Box 452 and ms. (Bolitho-ONT). **Revolutionary Voice of Plainsville** 7415.7 f/d cd. in 3 wks. (Field-MI). **East Coast Beer Drinkers** 7415 f/d ltr. in 4 1/2 mo. (Field-MI). **Radio Blandx** 7411 f/d personal ltr. w/ a f/d red DX Condom in 9 wks. for a rpt. to Box 109. v/s D.J. and G.D. (guess who). Station also sent a second blue DX Condom for correctly identifying a few musical selections. (Bolitho-ONT). **Voice of Laryngitis** 15050 f/d "The best damn radio station you'll ever hear" form ltr. in 3 wks. for a rpt. to the Wellsville address. (Berg). **WAZU** 7412.5 f/d call letter logo sheet in 153 ds. (Zeller-OH). **WCYC** 7415 n/d ltr. w/ technical station info. in 27 ds. (Zeller-OH). **KGUN America** 7415 p/d ltr. w/ photo of a Big Boy restaurant in 2 mo. v/s Douglas McDonald. (Bolitho-ONT).

USSR: **Radio Moscow** 17695 f/d "Peoples Friendship House" cd. w/ schedule in 73 ds. (Pennisi-NJ). **Radio Beijing** 9740 f/d "Silk Figurine" cd. in 3 mo. I sent the cd. back for the site and it was returned marked USSR. Stickers were rcvd. along w/ a small Beijing bear pin. (Wallace-MA). 9690 f/d folder cd. in 2 mo. (Field-MI). **UZBEK: Radio Moscow** 21485 and 17860 via **Tashkent** f/d cd. in 68 ds. (Darling-PNG).



*Till next time,
best of DXing.*

PLEASE NOTE: If any of our members are interested in looking at an illustrated listing of station badges, pins, pens, etc. (some over 30 years old) just drop me a line...Sam.

Sam

We gratefully acknowledge your report on
 station Radio Blandx
 frequency 7412.5
 date 30 March 1987
 time 22 15 1230 (local)

RADIO YUGOSLAVIA
 P.O. Box No. Biskupice 8
 11000 Beograd
 YUGOSLAVIA

Richard A D'Angelo
 2216 Bursley Drive
 07066 Wyomissing PA
 USA

We have once again come to the end of another QSL Column. During the past several years, many of you have written to me expressing your thoughts about the Column. We have tried to incorporate many of them into the QSL Column. I like to think we have been successful. Thank you for your contributions and ideas...Sam.

Date June 6, 1990

To Mr. Rigas

Many thanks for your QSL/reception report of our programme
 on 4/20/90 at 100 UTC
 on 13.69 MHz at metres
 We look forward to hearing from you again soon!

Königs Wusterhausen
 50 kW **Radio Berlin International**
 The Voice of the German Democratic Republic

NASWA Scoreboard

Jerry Lineback
6361 Shore Drive
Douglasville, GA 30135



JERRY A. LINEBACK, EDITOR
6361 Shore Drive
Douglasville, Georgia 30135

December 1991

Greetings and welcome to another issue of the SCOREBOARD. You may participate by sending me your DX totals. C/H = Countries Heard and C/V = Countries Verified. This quarter the SPOTLIGHT is on Africa. Please update your totals at least once a year to remain listed on the SCOREBOARD. Country totals are according to the NASWA Radio Country List. Next deadline is February 15 for the March issue with the SPOTLIGHT to be on Asia. On to the statistics.

Name, State	Total		Africa		Best African QSL
	C/H	C/V	C/H	C/V	
Gordon Darling, P/NG	235	229	64	62	Radio Cordac
Edward Kusalik, Alb.	231	227	65	64	Reunion 2446
Marlin Field, MI	227	223	64	63	Mt. Kenya NYERI
Jerry Berg, MA	225	224	63	63	R Clube Tenerif
William Flynn, OR	225	208	61	54	V3USE Mauritius
Harold Cones, VA	223	214	58	55	R. Comores
Terry Palmersheim, WA	221	204	50	50	OZRT Lubumbashi
Nobuaki Takahashi, Japan	221	189			
Mitch Sams, MO	221	171	62	42	Rural Liberia
Steven Lare, MI	220	185	59	42	St. Helena
Al Miller, OH	217	209	60	56	Sao Tome
John Sgrulletta, NY	215	215	61	61	Comoros Is.
Del Fye, FL	212	197	58	52	Zanzibar
Kevin Atkins, AL	211	185	57	46	Mauritius
Ron Howard, CA	210	190	53	47	Gambia
Kirk Allen, OK	209	200	55	48	R. Mogadishu
Rick Krzemien, CA	209	195	35	16	Benin
Donald Hosmer, MI	209	177	58	43	Malawi
Paul Buer, FL	208	197	58	53	LV Isla Palma
Sheryl Paszkiewicz, WI	206	197	55	52	Sierra Leone
Jerry Lineback, GA	205	108	59	31	Swazi Music R.
Robert Ross, Ont.	199	176	55	41	R. Halgan
Frank Orcutt, NY	199	157	59	40	R. Cordac
Mike Hardester, NC	197	184	50	43	Malawi 3380
Tom Daly, NY	197	45	54	6	Malawi
Fred Kohlbrenner, PA	186	156	50	32	St. Helena
Henry Michalanka, RI	184	153	53	37	Mauritius
Jerry Klinck, NY	183	152			
Hadley Cress, VA	182	8			
Tom Laskowski, IN	177	141	55	39	Burundi
Peter Tutak, WA	175	131	50	34	Cape Verde, Is.
Greg Hart, FL	173	124	43	22	Chad
Ichiro Maruo, Japan	172	105	40	13	SWABC
Rev. John Eckert, PA	171	154	46	35	R. Senegal
Kevin Klein, WI	166	73			
Andy Rugg, Que.	165	150	44	36	TWR Swaziland
Charlie Washburn, ME	165	139			
Allan R. Loudell, DE	165	130	42	24	TWR Manzini
Carl Mann, NB	157	140	35	28	Lesotho 4800
Thomas Ross, IL	152	130	37	26	St. Helena
Daniel Prisco, PA	152	126	37	27	Malawi
Cris Hazzard, PA	151	122			
Bill Taylor, PA	148	114	37	18	Uganda HS
Carl Radtke, WA	147	147	34	34	Rhodesia

Name, State	Total		Africa		Best African QSL
	C/H	C/V	C/H	C/V	
David Edger, VA	147	120			
David Morby, NY	146	37	37	4	R. Orion
Roger Morby, NH	143	1	37		
Jim Smallwood, AL	140	112			
Robert Landau, NJ	137	120	35	25	ETLF
Robert A. Wallace, CA	134	103	27	16	RTN Malagasy
Mark Humenyk, Ont.	133	78	18	3	R. RSA
Richard Hankison, KS	132	97	33	21	Radio Oranje
Joe Kremer, IN	131	85	35	10	Uganda
Richard Wallace, CT	127	72	31	14	Chad
Ross Comer, MA	126	73	33	13	Burkina Faso
David Turnick, PA	123	104	8	5	R. Oranje
Bill Kurrasch, NY	122	91	27	18	Burkina Faso
Joe Zobro, MI	115	87	16	8	BBC Ascension
Randy Doyle, AR	114	64	19	9	Botswana
Robert Carlsen, OH	106	87	18	14	
Edward Stroh, IL	100	82			
David Galletly, NY	97	70	18	10	RNE Canary Is.
Brian Boulden, CA	83	61	13	9	TWR Swaziland
Bruce Orenstein, NY	76	66	18	8	Sierra Leone
Scott Helm, KS	72	47	11	4	Ghana BC
Rev. William Peake, IA	70	54	9	5	Ghana BC

 I wish everyone a Merry Christmas or other appropriate Salutation of the Season and hope everyone has a Prosperous and Happy New Year. We could use one. Many thanks to members who have shared their DX totals with SCOREBOARD this past year. Remember, the next Deadline is February 15 for the March Journal. The SPOTLIGHT will be on Asia.

73s

WANTED: I would like to trade or purchase station pennants. Interested in all pennants, but especially looking for La Voz Galapagos and other Latin pennants. Fred S. Kohlbrenner, 2641 South Shields St, Philadelphia, PA 19142.

FOR SALE: Japan Radio 525 with JRC CPL21A SSB 1.8 kHz filter, improved Murato 4.0 kHz filter and NUA-88 speaker, \$950.00. KIWA Electronics MAP Unit with Inductive Pickup, \$275.00. Sony 2010, \$250.00. Prices include shipping. All in excellent condition with original boxes, manuals and accessories. Tony Spark, P.O. Box 605, Mattapoisett, MA 20739. Phone (508) 758-9615.

WANTED: I am looking for the following Sony receivers: ICF-SW1S, ICF-SW1E, and ICF-PRO-80. I am also looking for other club members to correspond with by cassette tape. Topics of discussion to be restricted to radio and radio related subjects. All tapes returned. Dave McLaren, P.O. Box 665, Sheffield, IL 61361. Phone (815) 454-2204.

WANTED: 1988 and 1989 WRTH. Andrew Herrschaft, P.O. Box 3693, Portland, OR 04101. Phone (207) 773-1562.

WANTED: Sony ICF-6800, orange version. Must be in excellent condition. Tony Bonanno, 30 Tomahawk Trail, Eastham, MA 02642. Phone (508) 240-1654.

FOR SALE: Hammarlund HQ-180 with clock and Drake SW-4A with matching MS-4 speaker. Both receivers in good condition. Collection of NASWA bulletins from Jan. 1973 through Oct. 1987 (missing 6/73, 4/81, 8/81, 2/82, 8/82, 3/83, 9/85, 2&3/86, 10/86, 5/87). The above are being sold by the family of the late Larry Lundberg of Minneapolis. Best offer for each of the above. Contact Tom Gavaras, 10401 Cedar Lake Road, #215, Minneapolis, MN 55343. Phone (612) 544-2433.

FOR SALE: ICOM R-71A, customized by Gilfer. Has 4.0 kHz filter and Pre-Amp effective into AM band. A-1 shape, \$625.00 including shipping. Customized Beam Headings (from/to) and Distances to over 470 WRTH-91 transmitter sites. ITU Country Codes included. Send your location/coordinates, \$6.95. "Passport to World Band Radio" '89, \$6.95. All items include shipping. Cashiers check or money order, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398.

WANTED: Old shortwave receivers such as Zeneth, Scott, and Hallicrafters in any condition. C. Blatter, 610 West Sunset Drive, Redlands, CA 92373. Phone (714) 792-4184.

FOR SALE: INFO-TECH M-6000 v5.0 demodulator, Panasonic 9" B&W monitor, \$475.00. Daiwa AF-606K audio filter, \$70.00. Drake R-4B with crystals for all SWBC bands, R-4C spinner knob, record out, MS-4 speaker, dust covers, \$290.00. 10:1 matching transformers for Beverage antennas, \$17.00 each plus \$2.00 shipping. Steven R. Lare, 824 West 25th St, Holland, MI 49423. Phone (616) 335-2270.

Contributors' Page

Vernon Hyson
5410 Camp Stewart Road
Charlotte, NC 28215
CompuServe 76516,1531



LOGGINGS CONTRIBUTORS - DECEMBER 1991 - DEADLINE 10th of MONTH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg,PA
Jerry BERG, Lexington,MA
Brian BOULDEN, Fairfield,CA
Robert CARLSEN, Vincent,OH
John CARSON, Norman,OK
David CLARK, Newmarket,ONT
Ken COBB, Portland,ME
Kurt COX, Leaburg,OR
Richard D'ANGELO, Wyomissing,PA
Elliot FEINBERG, Brooklyn,NY
William FLYNN, Cave Junction,OR
Bill FREELAND,KS
Harold FRODGE, Midland,MI
Harold FRODGE, Island Lake,MI
Harold FRODGE, Keaau,HI
Fred GOLD, Cinnaminson,NJ
Peter GRENIER, Sparks,NV
Michael HARDESTER, Jacksonville,NC
Gerald HART, Moorhead,MN
Chris HAZZARD, New Hope,PA
Dave JACOBSEN, Elgin,IL
Hans JOHNSON, Columbia,MD
Jerry JOHNSTON, Lexington,KY
Rufus JORDAN, Pittsburgh,PA
W. KARCHESKI, Holden,MA
Bill KURRASCH, Ontario,NY
Tom LASKOWSKI, South Bend,IN
Harold LEVISON, Philadelphia,PA
David MORBY, Clifton Park,NY
Scott NEWMAN, Indianapolis,IN
Chuck OLIVER, Spring,TX
Tony ORR, Reston,VA
D. J. PRISCO, Scranton,PA
Jim RENFREW, Rochester,NY
Doug ROBERTSON, Oxnard,CA
Mitch SAMS, Blue Springs,MO
Mark SPAT, West Swenzy,NH
Tom TABATOWSKI, Indianapolis,IN
Robert TUCKER, Savannah,GA
George VADINO, Bellevue,WA
Richard WALLACE, Danbury,CT
Dave WEINRICH, Fargo,ND
Mike WOLFSON, Ashland,OH

HQ180A R390A 150' Longwire
RK641 Indoor LW

NRD525 ICR2010 AD Sloper 500' Beverage
R & HQ180C 3-400' Beverages 2-500' LW 500' Bev
R71A S40A RF2900 RF2800 Uniden 2021 DA100D 90' LW
DX440 SX190 60m Dipole
R70 AD Sloper

R2000 Sony 2010 R7A TUN3 140' LW 85' Dipole
DX440 Dipole
R71A Arcomm AP4 100'/185' Random (MI1 in logs)
R71A Arcomm AP5 500' Random (MI2 in logs)
R71A 160' Random

FRG7 ATS803A MFJ1020A
R70 Sony 2010 R.West Loop 75' Random
NRD525 Sony 2010 AD Sloper
R600 100' Inverted Vee
R70 40m Quad Loop
R71a AD370 MAP
NRD525 Eavesdropper
DX302 Transoceanic
R5000 AD Sloper
R5000 NC77X S120 DX66 AD Sloper
R71A IC725 MFJ956 20m Dipole
R70 Random Wire
NRD525 FL2 150' LW AD Sloper
DX440 Random Wire

Sony 2010 70' Indoor LW
R392 RF2800
Sony2010 Longwire
DX302 FRG8800 FRA7700 Longwire
HQ180 FRG7
RF9 RF2200 R7000
Sony 2010 MFJ956 70' Dipole
ATS803A

R71 S108 DX440 TUN4
ATS803A TUN4 Random
R5000 Sony 2010 125' Longwire

Contributors for November and/or December are included on this list. Thanks to all! Keep those logs comin' and please don't feel intimidated because you may not be listening to rare Indos every morning. Quite frankly, most of us can't hear 'em anyway!

A sympathy card might be in order - the HOT NRD515 of David Clark is in the hospital (electronic ward). Let's hope the ransom will be small & the time for recovery short. 73 - Vern

Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



Hope everyone had a Happy Thanksgiving and will have a Merry Christmas or Hanukkah. Loggings marked RDDH are from Valko, Turnick, Johnson & D'Angelo at Gifford Pinchot State Park about 15 miles south of Harrisburg, PA.

- 1620 USA, KH AU, 10/27, 0103-0130, "This is experimental station KH AU xmtr test on a freq of 1620 kHz as authorized by the FCC," addr. (D'Angelo-PA)
- 2390 GUATEMALA, LV de Atitlan, most nights 0230 to approx. 0335 s/off. Weak & fading, anmts, TCs, marimba mx, IDs (Berg-MA)
- 3215t SOUTH AFRICA, R. Oranje, 10/15, 0343 C&W mx, gone by 0400 (Faded), SIO=332 (Hart-MN)
- 3220 ECUADOR, HCJB, 10/19, 0530-0600 ID, tlk, poor. (Tabatowski)
- 3255 INDIA, INES Shillong, 11/3, 1159 subcont mx/chants, 1202 anmt, sitar, weak & fade by 1210. (Clark-ON)
- 3266 USSR, 1st Pgm-All Union, 10/27, 0215 w/IS 0230, //7400 (RDDH-PA)
- 3270 NAMIBIA, R. Tswana? 11/2, 0400, this listed in 1991 WRTH, chorus, tlk in pres Tswana to 0415 when R. Namibia pgm resumed, bears further checking (Johnson-MD)
- 3277.5 JAVA, RRI Jakarta, 11/9, 2210 Islamic chants //6555, down from usual 3277.6 //6555.2. Poor sig, 4774.7 not on this day (Clark-ON)
- 3277.8 MOZAMBIQUE, EP Sofala, 11/1, 0345 rhythmic Afr. mx, anmts, bearing on Farley loop abt 10 degrees W of straight line Darkness path, bending towards grayline. This bending effect covered well in Proceedings (Sams-MO) Tnx Mitch--sp.
- 3279.8 ECUADOR, LV del Napo, 11/1, 0250-0307* LA pops, anmts, s/off w/NA (Alexander-PA)
- 3295 ICELAND, Reykjavik weak on 10/11, 0845 //much stronger 9265 (Berg-MA)
- 3300 GUATEMALA, R. Cultural, 9/30, 0356 addr, mx, tlks (Hart-MN)
- 3315 ADMIRALTY ISLANDS, R. Manus, 10/3, 0906 "This is NBC Natl Nt" CW QRM, SIO=333 (Frodge-HI)
- 3315 INDIA, AIR Bhopal, 10/27, 0052 subcont mx weak to 0055 fade (Bhopal sunrise), not hrd 0025 s/on but checked it in view of outstanding 4960/4990 reception, my 1st 90m AIR log in evening (Clark-ON)
- 3340 PERU, R. Altura, 10/27, 1008-1020 booming sig, IDs, ment lcl town, etc. SIO=454 (D'Angelo-PA)
- 3355 INDIA, AIR Kurseong, 11/3, 1150 YL tlk, slow melodic subcont mx, anmts, peaked 1200-1210, also hrd carrier on 3304.5 possibly AIR Ranchi (Clark-ON)
- 3365 CUBA, R. Rebelde, 10/19, 0328-0415 jingles, IDs, long tlks, Cuban urban mx, promo & ID strings, fair. (Jordan-PA)
- 3370 GUATEMALA, R. Tezulutlan, 10/20, 1105 children's vocals, //4835, SIO=232 (Frodge-MI2)
- 3377 ANGOLA, RN, 11/2, 0420 fair to good sig, ID & nx 0500. (Sams-MO)
- 3380 GUATEMALA, R. Chortis, 10/18, 1128 mx, ID 1130, waltz-like mx, tlk, SIO=333 (Hart-MN)
- 3380.8 MALAWI, MBC, 10/19, 0410 hilife mx, 0410 ID & some EG anmts, weak & ute QRM (Sams-MO)
- 3385 NEW BRITAIN, R. East New Britain, 10/3, 0900 pops, oldies, native vcls, Ben w/natl nx, SIO=343 (Frodge-HI)
- 3394.8 ECUADOR, R. Catolica name change from Zaracay, 11/7, 0154 reciting, IDs, said would return at 5:00 - 1000 UTC Also hrd 11/8, 0035 flute mx & IDs (Johnson-MD)
- 3395t SUMATRA, RRI Tanjungkarang, 10/12, 1438-1449 tlks, unusual mx on ukeleles?, weak but good audio (Flynn-OR)

- 3395 SUMATRA, RRI Tanjungkarang, 10/27, 2140 Islamic mx, weak but clear, good at 2220 recheck (Clark-ON) 10/26, 2216-2234 IN pop mx, ad, jingle, SIO=252 (D'Angelo-PA)
- 3460.4 PIRATE, Hope Radio, 10/21, 0415-0430 mx hosted by Bill Music, strong sig (Tabatowski-IN) Or could it have been Phil Muzik?--sp.
- 3482t CLANDESTINE, Vo Natl Salvation, 10/12, 1420 KR tlks, mx from old radio soap opera, jammer on 3480, strong audio. This listed in 1WBR92 (Flynn-OR)
- 4050p ASIATIC RSPSR, 11/2, 0754 Yuzhno-Sakhalinsk, very weak in RS, mx, Flute IS 0800 which I've not hrd before (Sams-MO)
- 4065 CLANDESTINE, Vo Iranian Kurdistan (Ayra Dangi Kurdistani Irana) 11/2, 0315 mx, ID, Kurdish "NA" then Parsi ID as "Seya-ye Kurdistani Iran" rest of pgm in Kurdish (Johnson)
- 4433.2 SUMATRA, RRI bukittinggi, 10/27, 2205 //3231.8 Islamic chants, tlks, poor sig but 90m freq better (Clark-ON)
- 4485 ASIATIC RSPSR, Kamchatka Radio, 9/30, 1030 RS opera arias, dramatic cmtry, reading, 1100 TP, ID, nx. (Robertson-CA)
- 4600 HOLIVIA, R. Perla del Acre, 11/2, 0240 mx & OM mixing w/ Baghdad & a jammer, 0259 ID, amts & off (Johnson-MD)
- 4600p IRAQ, R. Baghdad, 10/13, *0225-0255 chirping bird IS, NA 0228, amts, Qur'an, weak bubble jammer (Alexander-PA)
- 4695 CLANDESTINE, R. Patria Libre, 10/19, 0030-0100* mx breaks, ID 0059, part of NA, weak & switching btwn this at 4700. (Alexander-PA)
- 4718.2 UNID, 11/1, 1304 very weak w/rustic Asian string mx, no clue on the lang (Sams-MO)
- 4743y CUBA, R. Moscow relay, 11/2, 0240-0300 SP, xmtr problems, badly distorted & wobbly (Alexander-PA)
- 4753.4 SULAVESI, RRI Ujung Pandang, 10/27, 2110 Jak relay, RRI ID, Jak pgm to 2120, lcl ID, rel pgm (Clark-ON)
- 4761 VENEZUELA, R. Frontera, 10/27, 0230-0256* LA mx, light instls, ID, weak, NA. (Alexander-PA)
- 4765t CONGO, RTV Congolaise, 10/20, 2256 FR mx, tlk, SIO=333 (Hart-MN) 10/6, 2355 folk mx, ID, FC, addr, lcl mx, NA to 2359*, good but het (Karcheski-MA)
- 4765 CUBA, R. Moscow relay, 9/23, 0720 RS mx, ID 0729, fair. (Robertson-CA)
- 4770 NIGERIA, R. Nigeria, 10/22, 0500-0515 EG mx, 0510 ID, fair. (Tabatowski-IN)
- 4775 BRAZIL, R. Congonhas, 10/16, 2259 tlk, ID, 1st one hrd in many sessions, difficult understanding audio on this one. (Johnson-MD)
- 4775.3 INDIA, AIR Gawahati, 10/20, 1210, presumed this after hearing Cedric Marshall's tape of 10/19 reception (Clark-ON) also 11/3, 1213 poor sig & off 1216 (Clark-ON)
- 4790 PERU, R. Atlantida, 10/20, 0952 Andean vcls, ID as "Radio Mil. . .?" Song or singer Magdalena, no break 1000 (Prodge-MI2) 10/27, 1015-1036, mx, nx, ID (Weinrich-WD)
- 4795 CAMEROON, R. Douala, 11/2, 0435 short nx items btwn log drum segments, sev ment Cameroon & Douala (Sams-MO)
- 4800 INDIA, AIR Hyderabad, 10/20, 1213 subcont mx, 4+1 TP, EG nx 1230. Also 10/26 at 1230 w/nx, seems subcont season is early this yr (Clark-ON)
- 4805 BRAZIL, Rdf. Amazonas, 10/18, 0200-0230 football, ID, amts, group vcl and off (Jordan-PA)
- 4810 SOUTH AFRICA, R. Orion, 10/16, 0245-0300 pop mx, TC, ID 0254 & 0259 (Weinrich-WD) 10/16, 0255 tlks, ID, SIO=333 (Hart-MN) 11/2, 0400 group vcls, political tlk, ads, jingles, IDs (Jordan-PA) 10/6, 2332 EG pop mx (Karcheski)
- 4810 USSR, R. Moscow, 11/3, 0855-1000 tlk, light mx, IS 0859, 1000, very weak (Alexander-PA)
- 4810.2 PERU, R. San Martin, 11/2, 0906-0915 tlks, OA mx, ID. (Alexander-PA)
- 4825 USSR, R. Kiev, 11/5, 0302 nice sig, "Ukraine Today" pgm, also hrd on a DX-440 (Johnson-MD)

- 4830 VENEZUELA, R. Tachira, 10/1, 0001 mx, tlks, ID 0007, (Wolfson-OH)
- 4835t GUATEMALA, R. Tezulutlan, 10/20, 0130 mx, tlk, ment Guatemala, SIO=333 (Hart-MN) 10/20, 1120 children's vcls //3370 (Frodge-MI2)
- 4840.1 VENEZUELA, R. Valera, 11/2, *1003-1015 NA, ID, poss. state anthem, tlk, folk mx (Alexander-PA)
- 4845 MALAYSIA, RTM Kuala Lumpur, 10/20, 1141 subcont mx, ads, vcls, instl, fair w/fades, no nx at 1200 (Clark-ON)
- 4845 MAURITANIA, ORTM, 9/24, 0650 monolog, Qur'an, 0700 guitar IS, ID, fair (Robertson-CA)
- 4850 CAMEROON, CRTV Yaounde, 10/22, 0500-0515 EG nx, ID, Fair. (Tabatowski-IN) 10/19, 2100-2115 EG nx //4795, 4000, each st resumed own pgm at 2115 (Berg-MA) 10/14, 2112 EG nx, "That ends the nx from Yaounde," mx, FR tlks, fair. (Karcheski-MA)
- 4851 ECUADOR, R. Luz y Vida, 10/2, 0240-0308* mx, 0300 ID, s/off anmts, orch NA (D'Angelo-PA)
- 4860 INDIA, AIR Delhi, 10/20, 1235 ending EG nx //4800, IS, (Clark-ON)
- 4863.1 MOZAMBIQUE, R. Mozambique, 11/1, 0318 mx pgm //3210.5 which s/on 0255 w/NA & ID (Johnson-MD)
- 4879.1 BANGLADESH, R. Bangladesh, 10/26, 1215 monster carrier but little audio (Clark-ON)
- 4875 BRAZIL, radf. Roraima, 10/19, 0530-0630 mx, ID 0602, fair. (Tabatowski-IN)
- 4890 GABON, RFI relay, 10/15, 0405 FR tlks, heavy QRN, SIO=433 (Hart-MN) 10/16, 0410 //9800, 11670, 9790 (Weinrich-ND) 10/22, 0430-0530 FR nx, ID, good (Tabatowski-IN)
- 4895 COLOMBIA, LV del Rio Arauca, 10/23, 0445-0458 ID, mx, good (Tabatowski-IN)
- 4895 SARAWAK, RTM Kuching, 10/26, 2157 IS, TP, ID 2200, nx, vcls, no Qur'an, fair on USB to overcome het from Vietnam. Also hrd 5005 Sibu in // (Clark-ON)
- 4895 VIETNAM, Hanoi HS, 10/27, 1130-1203 tlks, instl //5020, 10059, ment Hanoi, SIO=252 (D'Angelo-PA) 10/27, 1140 tlks, //5020, 10059 (RDDH-PA)
- 4900p CHINA, Vo Strait, 11/9, 2210 tlk in CH, pop mx, good. (Clark-ON)
- 4905 CHINA, CPBS, 10/21, 2230-2300 ID, EG lesson abt Harry Houdini, poor (Tabatowski-IN) 10/25, 2232 //9064 CH tlk & EG lesson (RDDH-PA)
- 4909.9 ZAMBIA, Radio One, 11/1, 0323 lcl mx, tlk in lang, ID 0329 & improved mod (Johnson-MD)
- 4914.6 PERU, R. Cora, 11/8, 0439 Latin mx, 0440 ID (Robertson-CA) 9/30, 1020-1030 tlk, canned anmts, IDs (Alexander-PA)
- 4918.3 BRAZIL, R. Relogio Federal, 10/11, 2338-2346 TC every minute, ID 2344 (Alexander-PA)
- 4920 ECUADOR, R. Quito, 10/19, 0430-0500 ID, mx, poor (Tabatowski)
- 4926.2 RIO MUNI, RN Guinea Ecuatorial, 11/3, 2130-2202* Afr. Folk mx, tlk, s/off w/long NA, weak (Alexander-PA)
- 4930.7 CHINA, unid, 10/26, 1245 down from 4931.2, not //4760. Geiju Honghe PBS, Yunnan reactivated? (Clark-ON)
- 4939.6 VENEZUELA, R. Continental, 10/12, 0859-0910 NA, poss. state anthem, lcl mx, ID 0909 (Alexander-PA)
- 4960 INDIA, AIR Delhi, 11/2, *0023-0130 IS, subcont mx, TP 0030, tlk (Alexander-PA) 10/26, *0023-0108 IS, anthem, 3+1 TP, nx (D'Angelo-PA) 11/10, 0035 good, better than Madras 4990. Think they're using a new high power xmtr here (Clark ON) also 10/27, 0036 unbelievably good. 4860 has not been on at this time (Clark-ON)
- 4964.5 BOLIVIA, R. Juan 23, 11/5, 2350 vcls, ID during closing anmts, s/off w/o anthem (Johnson-MD)
- 4965.2 COLOMBIA, 11/2, R. Sante Fe at 1005 tlk, ID, xmtr prob w/distorted audio (Alexander-PA)
- 4970 VENEZUELA, R. Rumbos, 10/1, 0018 tlks (Wolfson-OH) 11/8, 0300 ID, fair sig (Robertson-CA)

- 4970 VENEZUELA, R. Rumbos, 10/27, 0456 mx, ID, SIO=322 (Hart-MN)
- 4975 USSR, R. Afghanistan relay, 10/27, 0133 //4740 Qur'an (RDDH-PA) 11/2, 0148-0205 tlks & ME mx //4740 (Alexander)
- 4975 COLOMBIA, Ondas del Ortegua, 10/22, 0013-0018 nx, ID 0015, mx (Prisco-PA)
- 4980 VENEZUELA, Ecos del Torbes, 10/1, 0014 tlks, remote feed or phone call (Wolfson-OH) 10/10, 0240 mx, ID 0252, SIO=333 (Hart-MN)
- 4990 CHINA, Hunan PBS, 10/15, 1445-1453* 30s mx, F anncr, Fair (Flynn-OR)
- 4990 INDIA, AIR Madras, 11/1-2, *2358-0045* IS, subcont mx, TLK, abrupt s/off (Alexander-PA) 10/25, *2358-0019, IS, ID, long tlks, some mx SIO=252 (D'Angelo-PA) 10/26-27, 2358 IS, subcont mx, IDs, strong to 0045* (Clark-ON)
- 4990.7 SULAWESI, RRI Gorontalo, 10/15, 1454-1504 lagu pops, SCI Jak nx relay, very weak (Flynn-OR)
- 4991 PERU, R. Ancash, 10/19, 0945 OA mx, ID (Berg-MA)
- 4995 MONGOLIA, R. Ulaanbataar, 10/20, 1059 TP, nx //4850, lcl mx till Moscow IS and relay 1130. Superior sigs on new E-W 2-wire beverage pointed at PNG (Clark-ON) Also 10/26, 2238 class mx, presumed them (Clark-ON)
- 5005 NEPAL, R. Nepal, 10/26, 1145 sounded like drama, flutes, Inst1, 3+1 TP 1215, anthem (Clark-ON) 10/26, 1154-1216 mix vcls & tlks, TP but no ID 1215, poor (D'Angelo-PA)
- 5010 SINGAPORE, SBC, 10/26, 2220-2229 60s pop mx, TCs, //5051.9. Switched on 2 R7s and listened in stereo! (Clark-ON)
- 5020 SOLOMON ISLANDS, SIBC, 10/3, 0955 vcls, "Tonight's Provincial Link Pgm" lcl calendar, "bulletins from SIBC" service messages (Frodge-III)
- 5025 BENIN, Parakou, 10/14, to 2200* pops, ID, nx (Berg-MA)
- 5025 BHUTAN, BBS, 11/1, 1245 nice showing, BBS over Rebelde by 13101 BBS ID 1256, narrow window to midwest here w/Bhutan strong period at Rebelde's fade out (Sams-NO) 11/4, 1415-1500* EG nx, anmts, C&W mx, UN "Perspective" pgm, ID, "You can catch us in the 60mb, 5025 kHz and FM 96 in the capital and till next time, from all of us here at BBS this is (says his name) saying goodnight and take care of yourself." Also "EG svc of the BBS coming to you from Thimphu, Bhutan." Easy listening here (Howard-CA)
- 5025 CUBA, R. Rebelde, 9/25, 0336 mx, IS, ID, nx (Robertson-CA) Also 10/7, 0331 melancholic tempos, IS, ID, fair (Robertson)
- 5030 ECUADOR, R. Catolica Nacional, 10/21, 0720 ID (Weinrich-ND) 10/25, 1040-1107 in Quechua, Andean mx, IDs, tlks, (Jordan-PA)
- 5030t TONGA, TBC, 10/3, 0944 island mx but very messy, YL anncr possible nx 0950, poor (Frodge-HI)
- 5034 CENTRAL AFRICAN REPUBLIC, RTV Centafricaine, 11/2, 0458, "lcl Bangui" ID, nx, mx, 0522 fade (Prisco-PA)
- 5039.2 PERU, R. Libertad, 11/2, 1010-1025 OA mx, IDs, fair-good (Alexander-PA) 10/26, 1023-1038 OA mx, ID 1033 (D'Angelo)
- 5040 ECUADOR, LV del Upano, 10/25, 0250-0308 EG lessons, ID & anned freq 0300 (Prisco-PA)
- 5040 USSR, R. Ala, 10/13, ID on hour, guitar mx, tnx MN tip. (Johnson-MD) 10/26, 2250-2305 folk mx, ID 2300 //6055. (Alexander-PA)
- 5044.3p IRIAN JAYA, RRI Jayapura, 10/27, 2110 solid carrier but no audio, also carriers on 4863.8 & 4874.6 (Clark-ON)
- 5046.4 JAVA, RRI Jogjakarta, 10/20, 1244 Jak nx, ID 1206, anthem I210, lcl ID, mx, (Clark-ON)
- 5047 TOGO, 10/19, RTV Togolaise at 2300 hilife, rock & rap mx, nx in FR, SIO=233 (Frodge-NI2)
- 5052 SINGAPORE, Radio One, 10/25 & 26, 2204-2247 EG pop mx, nice IDs at 2230, SIO=353 at peak (D'Angelo-PA)
- 5083.9t PAKISTAN, R. Pakistan, 11/2, 0050-0130 subcont mx, 3 TP 0100, nx in lang, weak. (Alexander-PA)

- 5097.3 PERU, R. Eco, 10/5, 0733-0900 SP pops, IDs, OA mx, poor w/CW QRM (Alexander-PA) 10/27, 0828-0924 best after RTTY disappeared, OA mx, Eco IDs (D'Angelo-PA)
- 5260 KAZAKHSTAN, II Pgm, 10/27, 0100 IS, RS tlk, anthem //5035 stringed mx (RDDH-PA)
- 5408 CLANDESTINE, Vo Natl Army, 9/25, 1341-1412 in lang w/drums many Beijing datelines during mx, weak & ute QRM (Flynn-OR)
- 5417.3 CLANDESTINE, numbers station, 10/25, 0514 in SP by YL (Tabatowski-IN)

Today (Saturday) Radio World on Belgian Radio announced Radio Baghdad will soon resume EG xmasns to Europe at 1800 on 11740 and to North America from 2300 on 11830. Keep tuned to those freq.

ROBERT CARLSEN checked in to say he enjoys the column and hopes to have some loggings next time. Thanks for writing.

The well-known pirate station, VOICE OF LARYNGITIS, was back on the air at 2000 November 9. I was hearing it with a lot of noise though. The Voice of Laryngitis is offering a stereo, studio quality tape of this Program No. 18 for \$5.00. You can reach them at Box 452, Wellsville, NY 14895. The proceeds will go into their equipment fund. This station is one of the more popular pirates, so if you've never heard a pirate before and/or you just like the VOL programming, you may want to drop them a line.

Last month I mentioned a new DX program on WWCR called Signals. I said it was on at 0330; well, since we changed the clocks here in the U.S., it is now on at 0430, still, I believe, after Glenn Hauser's World of Radio.

HANS JOHNSON mentioned thanks to MN for a tip on one of his loggings this month. MN stands for Media Network, the DX program on Radio Netherlands heard at 0050 and 0350 Fridays UTC.

That's all the news this month so I will let Bill fill the last half of this page with whatever news happens to be looking for a space. A big thank you goes out to all who wrote in. Remember Vern Hyson's new address and that his deadline is the 10th of the month. If you have loggings after the 10th, the deadline here on Green Street is the second last Saturday of the month.

FOR SALE: Collins R389 - LW/MW only with motorized tuning. Rare! (not even listed in Ray Moore's *Communications Receivers: The Vacuum Tube Era*) - \$375; Racal RA-17 with Low Freq Converter - \$275 (See review in *Proceedings 1991*.) **RECEIVERS WANTED:** Hallicrafters SX-88; National HRO-500; Squires Sanders Model SS1BS. David Clark, RR3, St. John's Side Road, Newmarket, Ontario, L3Y 4W1; Call prepaid to 416-640-1788 at 8-11 PM ELT or anytime on weekends; CompuServe 71311,2677

SPEAKERS WANTED: Drake Models MS4 (need 3) and MS7 (match R-4 series and R-7 series); Hammarlund S-100 (12"x11"x9" approx that matches most of HQ series) need 2 of these; Hallicrafters - any pre-War all wood or wood and metal Hallicrafters speaker enclosure. National pre-WWII matching speaker (approx 10"x10" box, round grille w/3 vertical bars.) John Bryant, RRT-5, Box 14, Stillwater, OK, USA 74074 or prepaid calls to 405-624-8884 between 0000 and 0400 UTC.



International Band Loggings

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

- 5905 UKRAINE R Kiev in EG 0315, interviews, ID, Chicago phone link (Prisco PA 10/21)
5915 ISRAEL Kol Israel in AR *0400, Mid-East AR svce, //5900, 9815 (Berg MA)
59503 GUYANA CBC in EG 0930, ID, relig pgm, "Deliverance Time" (Morby NY 11/5)
5965 CUBA RHC in EG *0400, nx, DX tips, feature (Boulden CA, Robertson CA 11/8)
5995 PERU R Melodia in SP 0945, lively vocals, ID 1000, f (D'Angelo PA 10/27)
5995 AUSTRALIA RA in EG 0440, report on cricket match (Grenier NV 11/3)
60101 BRAZIL R Inconfidencia in PT 0715, PT pop mx, EG ID 0726, p (Alexander PA 10/6)
60106 VENEZUELA R Mil Cuarenta in SP 0845, ID's, promos, LA mx (Alexander PA 10/20)
6020 BRAZIL R Gaucha in PT 0745, tlks, ID, BR pop mx, g, //11915 (Alexander PA 11/2)
60249 PARAGUAY R Nacional in SP 2320, organ mx, ID 2327, tlk, f (Hart MN 10/21)
6035nf2 SO. KOREA R Canada Int relay in EG 1338, "Inside Track" //6150 (Grenier NV 11/2)
6040 ANTIGUA D Welle relay in EG 0118, cmntry, USSR nx, econ nx, //6145 (Wolfson OH)
6055nf2 SPAIN REE in SP 0450, pop mx, TC, freqs, off 0502 (Oliver TX 11/6)
61396 PERU R Concordia in SP *0916, rap-type mx, canned ID's, vg (Alexander PA 11/2)
6150 CANADA RCI in EG 0647, tlk abt CBC & other features (Boulden CA 11/1)
6170 COLOMBIA LV de la Selva in SP 1050, DJ, lively LA mx, ID, ads (D'Angelo 10/25)
61882 PERU R Oriente in SP 0925, NA, ID, tlk, TC, mx (D'Angelo PA, Alexander PA 11/2)
61916 PERU R Cuzco in SP 0935, echo annts, ID, Huaynos mx (D'Angelo, Alexander PA)
62994 HONDURAS Sani R in SP 2345-0000*, pops, ballads, ID, p (Alexander PA 11/1)
7125nf ITALY IRRS in lang? 0508, gospel/pop mx, ID in EG, adrs (Alexander PA 10/20)
ED: PWBR says 7125 is alt freq for AWR Italy. Does IHR5 relay for AWR?
7130 TAIWAN VORT in JP 1402, ID, freqs, tlk or nx (Grenier NV 11/2)
7180 HONG KONG BBC relay in EG *0915, "Small Talk", ID in CH 0959* (Robertson CA)
72031 ZAIRE LV du Zaire in Vern *0358, short NA, Afr folk mx, g (Alexander PA 11/2)
7215 ALBANIA R Tirana in EG 2235, feature on crime, f (Frodge MI 10/18)
7225 RWANDA Deut Welle relay in SH *0256, IS, ID's in SH at s/on (Vadino WA 11/1)
7275 LIBERIA ELBC in EG *0650, NA, ID, relig tlk, prayer, nx (Alexander PA 11/1)
7295 MALAYSIA RIM in EG 1015, pops, oldies, ads, ID, nx, pips (Frodge HI 10/3)
7355 ALASKA KNIS in EG 1300, ID, IS, Bible study, mx, f-p (Prisco PA 10/17)
7400 RUSSIA R Ala St Petersburg in RS? *0707, tone then folk mx, //5040 (Berg 10/20)
7490nf RUSSIA R Tikhiy Okean Birobidzhan in RS *0800, ID?, drama, comedy, lite mx, opera, classical mx, hrd in Hawaii on trip but not Michigan (Frodge HI 10/1-3)
9022 IRAN VOIRI in EG 0041, nx, ID, cmntry, "Viewpoint", Koran (Frodge MI 10/20)
In EG 0130*, mx, ID, world & regional nx, prayers, also in SP (Jordan PA 11/4)
9265 ICELAND INEC in IC 0010, big band mx, ID, nx? (Morby NY 11/6, Boulden CA 10/22)
9395 GREECE VOG in EG 0140, nx then into GK lang, //9420 (Frodge MI, Hart MN 10/15)
9475 EGYPT R Cairo in EG 0315-0330*, ID, nx, f w/low modul. (Jacobsen IL 10/23)
95052 PERU R Tacna in SP 0957, ID's, LA mx, nx? 1000 (Alexander PA 11/2)
9550nf PHILIPPINE IS R Veritas Asia in Bengali 1400, nx or cmntry, ID (Treibel 11/14)
ED: This must be a move from 9555 where Veritas has been heard. See next item.
9555 PHILIPPINE IS R Veritas Asia in EG/KR 1256, ID, into KR 1300 (Weinrich ND 10/30, Grenier NV 11/3) in EG 1128, ID, lite mx, into Myanmar 1130 (Alexander 10/20)
9560 ETHIOPIA VOE in EG 1454, Welcome from Addis Ababa* feature, f (Flynn OH 10/10)
9575 ITALY RAI in EG 0100, nx, focus on Italy, local budget issues (Wolfson OH 10/4)
9600 UNITED ARAB EMIRATES Abu Dhabi in EG 2330, Q&A on Islam (Levison PA 10/21)
9645 NORWAY RNI in EG 0301, "Norway Today", econ discussion (Carson OK 10/28)
9725 COSTA RICA AWR in EG 0035, mx, ID, tlk on earthquake prediction (Hart MN 10/7)
9745nf SPAIN REE in SP 2100-2300, nx, ID, severe flutter, //11880 (Treibel WA 11/8)
ED: Actually returning to old freq but not used in 1991 to best of my knowledge.
9765nf2 IRAN VOIRI in EG/lang 0125, ID in EG 0125, into lang 0130 (Weinrich ND 10/29)
9800 PHILIPPINE IS FEBC in EG *0859, IS, ID, recipes using coconuts (Robertson CA)
9875 AUSTRIA RAI In EG 0135, features on Intl Mozart Year, g (Flynn OR 10/13)
9950 INDIA AIR in EG 2215-2230*, pgm on maintaining good health (Prisco PA 11/3)
11335 NO KOREA R Pyongyang in RS 0912, tlks, very weak sig (Sams MO 10/26)
11500 CHINA R Beijing in EG 2040, YL w/feature on CH mx instruments (Frodge MI 10/2)
11530 LEBANON VoHope in EG 1945, ID, "Word of Life" (Prisco PA, Levison PA 10/28)
11650 GUAM K1WR in EG 1532, relig hymns, mx, ID, f-p (Robertson CA 11/10)

11705 SWEDEN RSI in EG 0200, mailbag, "60 Degrees North", g (Carson OK, Levison PA)
 11705 FRANCE RFI in EG 1600, IS, ID, international nx, exc (Robertson CA 11/3)
 11720 NETHERLAND ANTILLES RN relay in EG 0350, "Media Network", exc (Carson OK 11/8)
 11720 AUSTRALIA RA in EG 1140-1530*, mx, ID, feature (Frodge MI, Robertson CA 11/10)
 11720 BULGARIA R Sofia in EG 1950, native vocals, feature, f (Frodge MI 10/19)
 11735 GABON R Japan relay in EG 2310, nx, tlk on hybrid rice, g (Morby NY 11/5)
 11735nf NEW ZEALAND RNZ in EG 1800-2000, test xmsn, pops, ID, nx, pips, trying new freq
 For S Hemisphere, next day back on 15120 (Prisco PA 10/26, Alexander PA 10/26)
 11790 UKRAINE R Kiev in EG 0107, nx, cmntry, Top 10 mx, 40 db+ (Levison PA 10/14)
 11810 JORDAN(t) RJ Amman in AR 1415, interviews, no ID hrd under QRM (Flynn OR 10/18)
 11815 JAPAN RJ Tokyo in JP/EG 1659*, ID, nx, mx reqs, DX pgm (Robertson CA 11/4)
 11820 HONG KONG BBC relay in EG 1433-1459*, sports, race results, ID (Robertson 11/10)
 11822v COLOMBIA RN Bogota in SP 0410-0450*, mx, ID's & promos (Jordan PA, Hart MN)
 11825 ALBANIA R Tirana in EG 0340, ID, nx, "Music on Request", f (Jacobsen IL 11/4)
 11826 POLYNESIA RFO Tahiti in FR 0350, ID, island mx (Jacobsen 10/22, Levison PA 10/3)
 11830 VATICAN STATE VR in JP/EG *2130-2305*, bells IS, ID, tlks (Jordan PA 10/19)
 11855 CHINA R Beijing in EG 1315, tlk comparing old and new China (Grenier NV 11/4)
 11880 ZAMBIA R Lusaka in EG 1600, nx re new Zambian govt, g-f (Boulden CA 11/9)
 11910 AUSTRALIA RA in EG 1606, int'l nx, ID, folk mx, exc (Robertson CA 11/4)
 11920 PHILIPPINE IS VOA relay in EG 1635, interview, ID (Grenier NV 11/3)
 11955 SINGAPORE BBC relay in EG 2301, nx, stock mkt, "Media Watch" (Weinrich ND 10/4)
 120181 VIETNAM Vov Hanoi in EG 2330, ID, freqs, nx, f (Morby NY 11/5)
 12039 VIETNAM Vov Hanoi in VT 1543, VT opera mx, nx, ID, TC, f-g (Robertson CA 11/10)
 13605 AUSTRALIA RA in EG 1603, int'l & Asian nx, tlk re UN mission (Grenier NV 11/3)
 13675 UNITED ARAB EMIRATES Dubai in EG 0333, "Great Arab Leaders", f (Flynn OR 10/17)
 13710 BELGIUM BRT in EG 0030, nx re Belgian political crisis, p (Boulden CA 10/6)
 15080 INDIA AIR in SH 1535, nx, ID, ME mx, into HD 1615 (Treibel WA 11/11) NOTE: Could
 be move from 15120. I last heard AIR this freq abt 15 yrs ago (Bombay then)
 15090 VATICAN CITY VR in HD 1500, ID, nx, f (Carson OK) in EG 1550 (Grenier NV 11/6)
 15120 SEYCHELLES FEBA in Farsi? *1759, IS, ID, relig tlk, AR mx, g (Alexander 10/27)
 15170nf MALI? R Beijing relay? in EG 1630, EG/CH lesson, ID, IS, into lang? 1700, could
 be Mali relay w/move from 15110 (not heard),/15130 to 1700 (Treibel WA 11/18)
 15200 BANGLADESH RB Dhaka in EG 1234-1300*, nx, interview, ID (Prisco PA 11/4)
 15260 IRAN VOIRI in Farsi 0445-0530, nx?, instrumts, tlks, ID, p (Jordan PA 10/20)
 15345 MOROCCO RIVM Tangier in AR 1715+, ME mx, chants, //15330, 15335 (Treibel 11/11)
 15350 LUXEMBOURG RL in EG 0100, nx, Thomas confirmation, ID, mx (Weinrich ND 10/16)
 15355 GABON R Japan relay in IT 2125, into SP 2130, ID (Oliver TX 11/6)
 15440 SOUTH AFRICA RSA in EG *0400-0445, nx, actualities, "Earth Rise Africa", ID,
 modern mx, skeds, s/off w/bird-chirping IS (Jordan PA 10/18, Hart MN 10/27)
 15575 SOUTH KOREA R Korea in EG 0250, ID, Korean nx, g (Jacobsen IL 11/4)
 15601 IRAQ R Baghdad in AR 2120, NA, AR tlk, nx, mx, f (Vadino WA 11/6)
 15610 GUAM KSDA AWR in EG 2300, ID, address, relig tlk, f (Morby NY 11/5)
 17605 RUSSIA R Vilnius in EG 0000, nx from other Baltic states, sports (Flynn OR)
 17620 FRENCH GUIANA RFI relay in SP 0018, nx, story, ID, Thomas hearing (Wolfson OH)
 17705 CUBA RHC in EG 2025, mx, nx, interview, ID (Carson OK 11/1, Wolfson OH 10/27)
 17725nf? LIBYA V Great Arab Homeland in AR 0027, 1805, 2020, recitations, polemics, ID,
 vocal sels, nx?, prayers, dramatic tlks (Jordan PA 11/2-3, Flynn OR 10/12)
 17730 BRAZIL Swiss relay in EG 0220, Swiss mx, IS, ID (Carson OK 11/8, Vadino WA 11/1)
 17820 PHILIPPINE IS VOA relay in EG 2220, "Newline", nx in slo EG (Morby NY 11/5)
 21480 MADAGASCAR R Nederland relay in DT 1531, int'l & DT nx, g (Carson OK 10/31)
 21495 SPAIN REE in SP 0010-0200*, various nx pgms, pips, theme mx (Jordan PA 10/25)
 21580 PHILIPPINE IS R Filipinas via VOA xmtr Tinang in EG 0229-0332, ID, long talk,
 mx bridges, address, sports, NA, //17760, 17840 annod (Berg MA 10/22)
 25730 NORWAY R Denmark relay in DN *1255, nx? wrap-up, NA, exc (Jordan PA 11/12)
 25740 GERMANY D Welle in GM 1225, mx sels, nx, chatty tlks, ID, f-p (Jordan 10/22)

 CLANDESTINE STATIONS

6540 V of the Majahed *0224 in Farsi, tlks, some mx, speech, f (D'Angelo PA 10/27)
 7340 LV del Cid 0934 in SP, cmntry, //6305 (Frodge MI 10/19) Guatemala based - FWER
 7490 VO Broad Masses Eritrea *0324 in AR, march mx, brief tlks, p (D'Angelo 10/27)
 9045 Iran Flag of Freedom *0330 in Farsi, multilang ID's, ME mx, p (Alexander PA)
 9440 V of Democratic Kampuchea *1256 in Camb, tlks, mx bridges (D'Angelo 10/26)
 15100 Iran Flag of Freedom *1359 in Farsi, NA, speeches, jammed (Flynn OR 10/8)

Ye olde editor would like to send best wishes to all NASWA members for a Merry Christmas & a Happy New Year in 1992 plus wishes for the lowest possible Solar Activity #'s next year.

English Schedules

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Thanks to **David Alpert** (NY), **Gordon Darling** (Papua New Guinea), **Kris Field** (PA), **Jon Klinedinst** (PA), and **Andy Sennitt** (WRTH).

Notes

Some stations - including **ORF** and **Radio Beijing** - have made some late frequency changes but have not corrected their announcements as of late November. **Radio Sofia** is virtually unreadable now, heard only briefly at 2245 sign-on. I managed to host a 10m dipole into the air, and **Arnie Coro**, **CO2KK**, and I have had some good conversations. That includes gathering a comprehensive **Radio Havana Cuba** winter schedule that has been posted on the electronic mail vehicles and given to the **WRTH**. **DXers Unlimited** on UT Wednesdays has moved to the first hour in the two-hour block. **Radio Moscow's** UK/Ireland and NA services cease as of December 1 but I'm not aware of any separate programming losses except the **wNA** release. **Vasily's Weekend** seems to be among the missing again. **Jon Klinedinst** points out changes in the **BBC** use of 11775 and **HCJB** moving from 9745; thanks to **David Alpert** for the **BBC** WS grid. As I was about to print this column, **Media Network's** **Jonathan Marks** reports the possibility that **Radio Baghdad** in English may start December 1: 18-23 Eu 11760, 23-01 NA 11830. Take a look...

What's going on here?

John Groarke, (Calgary, AB) asks why the listings in this column appear to be incomplete. John cites instances of **Deutsche Welle** heard on 6040 and several 41m frequencies listed in *Tune In*, none of which were listed in this column. Let's deal with the last question first. **DW** signed a contract to use **USSR** transmitters to cover Asia. The implementation of that contract after *Tune In* was printed affected various releases. For **NA**, the result was to add and drop frequencies. The 41m frequencies were dropped. I included the new frequencies. As to why 6040 was not listed, my database format lists up to ten frequencies per record. The **NASWA** page formatting only allows printing of eight frequencies; the last two (numbers 9 and 10) don't get printed. 6040 was the tenth frequency in the record. If you see 8 frequencies listed, there may be two more in my datafile that are not listed in this column. For the **BBC**, I only include frequencies listed for **NA** and the Caribbean, but other frequencies to other target areas may be heard in **NA**. For **Radio Moscow**, without a published schedule, the listings are the best of what we hear. It also takes time to catch up with unannounced or late (due to interference or changing propagation conditions) frequency changes. John, I hope that answers your questions.

Season Greetings to all!

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** and **TS-440S**. For information, send a business-size **SASE** or download the software catalog from the **Pinelands RBBS**.

Changes entered between 10/25/91 and 11/28/91.

ENGLISH LANGUAGE SV BROADCAST SCHEDULES: By Start Time
Compiled by Thomas R. Sundstrom, W2XQ

Start End Time Time (UTC) (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 0200	Cuba	R Havana	11950								e&C/A		11/11/91
0000 0027	Czechoslovakia	R Prague Int'l	11990	9540	7345						NA		11/25/91
0000 0030	Lithuania	R Vilnius	17690	17605	15180	7400					NA		11/03/91
0000 0100	Spain	R Exterior de Espana	9530								NA		11/08/91
0000 0100	USSR	R Moscow	17720	17700	17665	15425	12050	9870	7150	7115	World Service/eNA		11/08/91
0030 0230	England	BBC	9915	9590	7325	6175	5975				US: NA/CA/Carib		11/23/91
0100 0200	Argentina	RAE	11710								Americas	Tu-Sa	10/26/91
0100 0130	Czechoslovakia	R Prague Int'l	9540	7345	5930						NA		11/25/91
0100 0150	Germany	R Deutsche Welle	11865	9770	9640	9610	9565	9515	6145	6085	NA		10/25/91
0100 0200	Spain	R Exterior de Espana	9530								NA		11/08/91
0100 0700	USA	WACR/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	17605	15180	7400					NA		11/03/91
0100 0200	USSR	R Moscow	17720	17700	17665	15425	12050	7310	7150	7115	World Service/eNA	#9&10 v Cuba	11/09/91
0100 0130	USSR	R Tashkent	7265	7190	5955	5930					As		11/23/91
0200 0400	Cuba	R Havana	11950	5965							e&C/A	#2 -0430	11/11/91
0200 1200	USA	WACR/2	7490										11/01/91
0200 0300	USSR	R Moscow	17720	17700	17665	15425	12050	7310	7150	7115	World Service/eNA	#9&10 v Cuba	11/09/91
0230 0300	Albania	R Tirana	11825	9760							NA		10/25/91
0230 0430	England	BBC	9915	7325	6175	5975					US: NA/CA/Carib		11/28/91
0230 0330	USSR	R Kiev	5905								Eu		11/02/91
0300 0330	Czechoslovakia	R Prague Int'l	9540	7345	5930						NA		11/25/91
0300 0350	Germany	R Deutsche Welle	9770	9705	9640	9605	9545	9535	6120	6085	NA		10/25/91
0300 0505	South Africa	Radio Orange	3215										10/25/91
0300 0400	USSR	R Moscow	17720	17700	17665	15425	12050	7310	7150	7115	World Service/eNA	#9&10 v Cuba	11/09/91
0330 0400	Albania	R Tirana	11825	9760							NA		10/25/91
0350 0400	USSR	R Yerevan	17690	17605	15180	7400					NA	News/Eng	11/16/91
0400 0615	Bulgaria	R Sofia	11765	11720	9595						World Service: NA/AF		11/23/91
0400 0500	China	R Beijing	11695								eNA	v Fr Guinea	11/19/91

0400	0600	Cuba	R Havana	11950 11760 6180	ešcNA	#3 for Caribbean	11/11/91
0400	0430	Czechoslovakia	R Prague Int'l	9540 7345 5930	MA		11/25/91
0400	0500	South Africa	Radio RSA	15230 11900 7270	ešcSAF		10/25/91
0400	0430	USA	VOM/AF	21600 17715 15115 11835 11780 9575 7405 6035	Africa		10/26/91
0400	0500	USSR	R Moscow	17720 17700 15425 12050 7310 7150 7115 6045	World Service/WMA	#639 v Cuba	11/08/91
0430	0500	USA	VOM/AF	21600 17715 15115 9575 7405 6035	Africa		10/26/91
0500	0600	China	R Beijing	11840	WMA	v Canada	11/19/91
0500	0550	Germany	R Deutsche Welle	9690 9670 9535 6120 6055 6045 5960	MA		10/25/91
0500	0515	Israel	Kol Israel	11588	WEU/WMA		10/29/91
0500	1600	Italy	Italian Radio Relay Serv	7125	EU/NAF/ME	SU	
0500	0600	Spain	R Exterior de Espana	9530	MA		11/17/91
0500	0700	USA	WYFR	13695 11915 9805 5985	EU/AF/WA		10/25/91
0500	0530	USSR	R Moscow	17720 17700 17605 15180 12050 12010 9895 9505	World Service/WMA		11/08/91
0510	1640	South Africa	Radio Oranje	9630	World Service/WMA		10/25/91
0530	0600	USSR	R Moscow	17720 17700 17605 15455 15180 12050 12010 9895	World Service/WMA		11/08/91
0600	0800	Cuba	R Havana	11760	WMA		11/11/91
0600	0800	Italy	Italian Radio Relay Serv	7125	EU/NAF/ME	M-F	
0600	0630	USSR	R Moscow	17720 15445 15180 12050 12030 9895 9505 7270	World Service/WMA	#8 -0900	11/08/91
0630	0700	USSR	R Moscow	17720 15455 15180 13605 12050 12030 12010 12000	World Service/WMA		11/08/91
0700	0800	USA	WYFR	13695 11915 9850	EU/AF		10/25/91
0715	0830	Italy	Italian Radio Relay Serv	7125	EU/NAF/ME	SU	
0730	0815	England	BBC	9640	US: NA/CA/Carib		11/28/91
0730	0800	USSR	R Moscow	17720 15455 13645 13605 12030 12000 9825 9795	World Service/WMA		11/08/91
0800	1000	Italy	Italian Radio Relay Serv	7125	EU/NAF/ME	SA	
0800	0900	USA	KHLS	5095	AS		11/22/91
0800	0900	USSR	R Moscow	13645 13605 12030 12000 9825 9795 9505 7345	World Service/WMA		11/08/91
0830	0900	Italy	AMR Europe	7230	EU		11/08/91
0900	1000	Portugal	AMR Europe	9670	EU	SU	
0900	1000	USSR	R Moscow	15580 13705	World Service		11/11/91
0930	1030	Afghanistan	R Afghanistan	17720 15140 9635 4940	seAS/FE	#182 v USSR	11/17/91
1000	1400	Italy	Italian Radio Relay Serv	7125	EU/NAF/ME	M-F irregular	11/08/91
1000	1100	South Africa	Radio RSA	15250	eAF		10/25/91
1000	1200	USA	VOM/AM	11915 9590 6095	Caribbean/Americas		11/22/91
1000	1100	USSR	R Moscow	15580 15175 13705 6000	World Service	#4 v Cuba	11/11/91
1100	1200	England	BBC	15220 6195 5965	US: NA/CA/Carib		11/28/91
1100	1130	Israel	Kol Israel	17545	WEU		10/29/91
1100	1200	USA	WYFR	7355 5950	MA	#2 Network M-Sa	10/25/91
1100	1200	USSR	R Moscow	21800 21785 17810 17790 17710 17670 17655 15520	World Service	#10 v Cuba	11/11/91
1130	1200	Italy	AMR Europe	7230	EU/NAF/ME		11/08/91

1130	Netherlands	R Netherlands	21520 21480	17580	9715	5955	seks/Eu	#283 v Madagascar	10/29/91
1200	China	R Beijing	15450 11660	11600	9665	9530	sPac/eNA/seAs		11/16/91
1200	England	BBC	15220	9740	6195	5965	US: NA/CA/Carib		11/28/91
1200	Hongolia	R Ulan Bator	12015	11850			Japan	exc Tu&F	10/27/91
1200	Norway	R Norway Int'l	25730	21705			As/Aus/Ind	Sa & Su only	11/10/91
1200	USA	WACR/1	15690						10/25/91
1200	USA	WACR/2	12160						10/25/91
1200	USA	MYFR	17760 11830	7355	5950		NA	#18284 Network M-Sa	10/25/91
1200	USSR	R Moscow	21800 21785	17810	17790	17710	15535 15490 15480	World Service	11/11/91
1200	USSR	R Tashkent	17745	15470	9540	5945	As	#10 v Cuba	11/23/91
1300	England	BBC	15220 11820	9740	6195	5965	US: NA/CA/Carib		11/28/91
1300	Philippines	FEBE	11995				seks/India		11/28/91
1300	Romania	R Romania Int'l	21665	17720	15365	11940	Eu		11/16/91
1300	USA	MYFR	17760	13695	11830	9705	MA	#18364 Network M-Sa	10/25/91
1300	USSR	R Moscow	21800 21785	17870	17810	17790	17570 15480 13705	World Service	11/11/91
1330	Austria	ORF	15450	11780			As	#9 v Cuba 1330-	11/25/91
1330	USSR	R Tashkent	17745	15470	9540	5945	As		11/23/91
1400	France	R France Int'l	21770	17650	1910		seAs	#3 v China	11/28/91
1400	Italy	Italian Radio Relay Serv	7125				Eu/NM/ME	Sa	11/08/91
1400	USA	WRNO	15420				NA/CA	20 deg (Su only)	10/25/91
1400	USA	MYFR	17760	11830	9705		MA	#182 Network M-Sa	10/25/91
1400	USSR	R Moscow	21785	17870	17810	17670	17635 17570 15550 15345	World Service	11/10/91
1430	England	BBC	15205				US: NA/CA/Carib	testing 17840 alt	11/28/91
1430	Israel	Kol Israel	17590 15640	11605	11587		ME/EU/NA		11/03/91
1430	Netherlands	R Netherlands	17580	15150	13770	13700	5955	swAs/Eu	10/31/91
1458	Seychelles	FEBE	15330	9810			seAs	Tu-Sa	11/28/91
1500	England	BBC	15205	9740			US: NA/CA/Carib	#1-testing 17840 alt	11/28/91
1500	South Africa	Radio RSA	11860	7230			e&C&AF		10/25/91
1500	USA	MYFR	17760	15215	11830		NA	#183 Network M-Sa	10/25/91
1500	USSR	R Moscow	17810	17790	17670	17665	15465 15450 15345	World Service	11/10/91
1530	Albania	R Tirana	11835	9730			AF	#10 v Cuba	10/25/91
1600	England	BBC	15260	9515			ME	M-F	11/28/91
1600	Portugal	R Portugal	21515				US: NA/CA/Carib		11/16/91
1600	South Africa	Radio RSA	15160				WAF	#5 v Ascension	10/25/91
1600	USA	VOA/AF	21625	17800	15580	15410	15195 11920	20 deg	10/26/91
1600	USA	WRNO	15420				NA/CA/EU		10/25/91
1600	USA	WACR/2	17535						10/25/91
1600	USA	MYFR	21525	21515	17760	15355	15215	11830	10/25/91
1600	USSR	R Moscow	21785	17870	17810	17780	17670 17655 15480 15465	World Service	11/10/91

1645	2200	South Africa	Radio Oranje	3215						10/25/91			
1700	1800	USA	VOA/AF	21625	17800	15580	15410	11920	9575	Africa	10/26/91		
1700	1800	USSR	R Moscow	17670	15485	15450	11840	9720	9685	World Service	#4 v Cuba 11/10/91		
1730	1800	Romania	R Romania Int'l	17720	15365	15340	11790			Af	11/16/91		
1800	1900	Afghanistan	R Afghanistan	9635	7215	6145				Eu	#283 v USSR 11/17/91		
1800	1815	Israel	Kol Israel	17575	15640	11675	11587			Af/Eu/NA	10/29/91		
1800	1900	USSR	R Moscow	11840	9765	9720	9685	7170		World Service	#1 v Cuba #2 1830- 11/10/91		
1830	1900	Albania	R Tirana	9480	7120					Eu	10/25/91		
1830	2000	Bulgaria	R Sofia	11735	11720	11680	9700	9560	6035	World Service: Eu/AF	11/23/91		
1900	2000	Argentina	RAE	15345						Eu/AFr	10/29/91		
1900	2000	Spain	R Exterior de Espana	9875	9685	9675	6130			Eu/AF/ME	M-F 11/17/91		
1900	2000	USSR	R Moscow	12005	11840	11745	11630	9860	9765	9720	9685	World Service	#2 v Cuba 11/10/91
1930	2025	Romania	R Romania Int'l	9690	7195	7145	6105	5990		Eu	#182 v Mali 11/16/91		
2000	2100	China	R Beijing	15170	11715	11500	9920	9440		WNA/AF/Eu	v USSR 11/11/91		
2000	2100	Cuba	R Havana	9760						MEU	11/03/91		
2000	2030	Israel	Kol Israel	17575	11675	11605	11587	9435	7465	Af/WNA/ME/NA	#687 v Ascension 10/26/91		
2000	2030	USA	VOA/AF	21625	21485	17800	15580	15410	15160	11820	9570	Africa	10/25/91
2000	2200	USA	WYFR	21525	17750	15585	7355			Eu/AF	#3 v Cuba #189 2030- 11/10/91		
2000	2100	USSR	R Moscow	12060	12055	11840	11630	9860	9765	9720	9685	World Service	11/08/91
2030	2200	Italy	Italian Radio Relay Serv	7125						Eu/NA/ME	Africa	10/26/91	
2030	2100	USA	VOA/AF	21625	21485	17800	15580	15410	9570		World Service: Eu/AF	11/23/91	
2045	2130	Bulgaria	R Sofia	11735	11680	9560				e&sAf/Eu	#182 -2130 11/23/91		
2100	2200	China	R Beijing	15170	11715	11500	9920			Af	M-F 11/16/91		
2100	2130	Portugal	R Portugal	15250						Eu	#3 v Cuba 11/10/91		
2100	2125	Romania	R Romania Int'l	7195	7145	6105	5990			Eu	M&Th 11/16/91		
2100	2200	USSR	R Moscow	12060	12055	11840	9860	9765	7240	7170		Eu	#1 USSR #2 Swit-2230 11/23/91
2130	2200	Estonia	R Tallinn	9540	5925						c&eAf/ME	11/11/91	
2200	2300	China	R Beijing	7170	3985						Eu/AF	10/25/91	
2200	2300	Cuba	R Havana	7215							Eu	11/16/91	
2200	2400	United Arab Emirates	V of UAE	11965	9605	7215					Eu/AF	11/02/91	
2200	2300	USA	WYFR	21525	7355						Eu	#10 v Cuba -04 11/10/91	
2200	2300	USSR	R Moscow	21480	17655	12060	12055	9860	9765	7240	7150	World Service	10/25/91
2230	2300	Albania	R Tirana	9725	7215						Eu	LA/WNA/ME/NA	11/03/91
2230	2300	Israel	Kol Israel	17575	11675	11605	11585	9435	7465		World Service: Eu/NA	11/23/91	
2245	0100	Bulgaria	R Sofia	11950	11720	11680	11660	9700	9595		US: NA/CA/Carib	11/28/91	
2300	0030	England	BBC	9915	9590	7325	6175	5975			NA/CA	10/25/91	
2300	0400	USA	WRNO	7355							Spanish Tu-F	10/25/91	
2300	0200	USA	WUCR/Z	12160								10/25/91	

11/10/91

21480 17720 17700 17655 12055 9860 9765 7240 World Service

R Moscow

2300 2400 USSR

Changes entered between 10/25/91 and 11/28/91.

ENGLISH LANGUAGE DX SHOWS: By Day of Week
Compiled by Thomas R. Sundstrom, W2XG

Shortwave DX Program	Show Xmsn Start Time	Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Target Area	Notes re DX Show	Record Last Updated
** DAY OF THE WEEK: Sunday													
DX Corner	0330	Japan	R Japan	17810	11870	5960					GOS/Asia/NA		10/31/91
World of Radio	0405	USA	WCR/1	7435									10/25/91
Signals	0435	USA	WCR/1	7435									10/25/91
Hello There	0815	Italy	Italian Radio Relay Serv	7125							Eu/nkf/NE	mailbag show	11/08/91
AWR DX Program	0915	Portugal	AWR Europe	9670							Eu		11/08/91
Hello There	1430	Italy	Italian Radio Relay Serv	7125							Eu/nkf/NE	mailbag show	11/08/91
Radio Corner	2240	Taiwan	V of Free China	11580	9852						Eu	part of Mailbag	11/02/91
** DAY OF THE WEEK: Tuesday													
DXers Unlimited	1935	Cuba	R Havana	17705							Eu/AF/NE		11/23/91
DXers Unlimited	2235	Cuba	R Havana	7215							cl&AF/NE		11/23/91
** DAY OF THE WEEK: Wednesday													
DXers Unlimited	0035	Cuba	R Havana	11950							e&CHA		11/23/91
DX Programme	0100	USSR	R Tashkent	7265	7190	5955	5930				As	Mo after 4th Su/mo	11/01/91
DXers Unlimited	0235	Cuba	R Havana	11950	5965						e&CHA		11/23/91
DXers Unlimited	0435	Cuba	R Havana	11950	11760	6180					e&CHA		11/23/91
DXers Unlimited	0635	Cuba	R Havana	11760							WHA		11/23/91
DXer's Special	1920	Argentina	RAE	15345							Eu/AFr		11/13/91
** DAY OF THE WEEK: Thursday													
DXer's Special	0135	Argentina	RAE	11710							Americas		11/13/91

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