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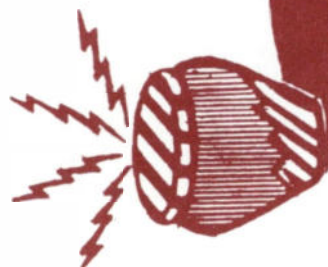
NORTH AMERICAN SHORTWAVE ASSOCIATION

Volume XXXII, Number 10

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NASWA Notes

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Packet KW3F @ WB3JOE



The nights are getting cooler and the static level is dropping - I Love It! DX Season is here again! Please excuse the brevity of my column this month. I'm recovering from some surgery I had last week and it was enough just to get the rest of the book together.

The big news this month is the report from the NASWA Country Committee which appears on Page 4. Gail and I are working on a new country list and we hope to have it available next month. In today's mail were two key things you should know about. The first was a memo from John Figliozzi telling me that his 1993 Shortwave Radioguide should be available by mid-December. More details next month. Secondly, the new Proceedings came! WOW, another great job by

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)

John Bryant and company! If you are serious about your DXing you want this book. Check last month's inside back cover for details. See you in November - 73

Welcome to the following new NASWA members -

James Adcox, Snoqualmie, WA
Prof. Gifford H. Albright, State College, PA
A. A. Bartfay, Columbus, OH
David Billingsley, Lexington, KY
Dustin Brann, Lawrence, KS
Todd Burleson, Watauga, TX
Steve Byan, Littleton, MA
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Jim Comeau, Fullerton, CA
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Patrick Ells, Los Angeles, CA
Chris Frano, Newburgh, IN
Steven Friedlander, Stamford, CT
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Larry K. Musselman MD, Narion, IN
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John Wible, San Antonio, TX
Fred Wieser, La Crescenta, CA
William J. Yohana, Upper Saddle River, N.

Our Motto is - "Unity and Friendship"

Musings

This column provides a forum wheras members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months), or use next month's theme as a basis for your discussion. Next month's theme is - "Humerous DXing Moments". Tell us something funny that you heard while DXing or happened to you while DXing. The monthly theme is only used as a suggestion for discussion. Any other items of interest to members may be also submitted. Because I edit this column, I'll jump in with responses where appropriate.

Jerry Klinck, 43 Lein Road, West Seneca, NY 14224

My most memorable DX catch actually is two, based on the two separate time frames in my shortwave listening history. The first took place during the Vietnam war when, after successfully hearing and verifying VTVN in Saigon, I set my sights on V.O.V. in Hanoi. After a concentrated effort at the dials of my HQ-100, I finally was able to put together a decent report. The next problem was verification, since we were at war and there was no mail exchange at the time. A good friend, Chuck Stanbury of Crystal Beach, Ontario, suggested I use his address in a long shot attempt to circumvent the postal problem. I did, and was I ever surprised and thrilled two months later when he called to let me know that I had an envelope from N. Vietnam at his place. I dropped everything and, at 11:00 P.M., crossed the Peace Bridge and headed north. What was in the envelope was a letter of verification (which also stated that my report was to be acknowledged on their Vietnam Mailbag program November 29th, about which I wasn't particularly thrilled), a postcard and program schedule. In 1964, this was my most memorable catch! The second most memorable catch is actually three, and took place after a 23 year hiatus from the hobby, but was just as thrilling. After 2 1/2 years of casually listening for PNGs, with no success and a growing opinion that they just were not hearable in the Buffalo area, I decided to bear down and prove to myself that it could be done. Morning after morning I awoke to my alarm clock and faithfully scanned the 60, 75 and 90 meter bands for a trace of Pidgin. Finally, on March 7, 1992, I hit pay dirt. In fact I hit it so hard I was stunned and disbelieving. After regaining my composure I flipped on my first tape recorder, connected to the R-8, and began recording R. Sandaun. Since the PNGs were everywhere, I made a quick call to Frank Orcutt to tip him off, then went to work with the R-5000. Since there was miraculously no interference on 3905, I zeroed in on R. New Ireland with my second tape recorder going to work. That morning I was able to log and tape stations in all five PNG radio countries, and am happy to say three have verified to date. As Frank would later tell me, that was the strongest opening he has heard in 20 years, for the east coast. That was a DX morning I'll never forget!

Chris Lobdell, P.O. Box 146, Stoneham, MA 02180

Hi! I just thought I'd put in my two cents worth on Andy Yoder's complaint of last month that NASWA does not "do justice" to the PIRATES.

It is true that the loggings column treats pirates as a second class citizen, but I think the reason is of page limitation, not discrimination. Sam Barto, in his superb QSL column, gives pirates full exposure which includes a full list of veries received plus many photo copies of pirates. I think his QSL column is equal to the one in ACE done by J.T. Arthur. All things considered, you cannot say that NASWA ignores the PIRATE scene.

How many NASWAns are pirate fans? A recent broadcast of a new pirate station back in June which was fairly well heard brought in about 45 QSL requests. How many people were actually listening is unknown. Most pirates operate with less than 500 watts and really cannot be heard with any clarity beyond 1000 miles from the transmitter. What I am trying to point out is that the audience is limited and always will be. Die hard pirate fans should join ACE or subscribe to Mr. Yoder's inexpensive but informative Pirate Pages. Would I support a one or two page

Pirate Report in NASWA? Yes, as long as the majority wanted it and I didn't have to edit it, hi!

Sheryl Paszkiewicz, 1015 Green Street, Manitowoc, WI 54220

Well, it's about time I contribute to the Musing section of the Journal. Hope I'm not too late to take part in the topic of "My Most Memorable DX Catch".

At first I didn't know which station to pick but I think I will have to go with Radio Nigeria, Enugu, on 6025 kHz. I had been wanting to hear this station although it seemed to have been inactive for sometime with only occasional loggings in North America. This station counts as the radio country of Nigeria (Biafra). In December, 1988, I logged a couple of tentatives in the 0600-0700 UTC range. Programming included news in a local language with possible mentions of Nigeria and Western African music. However, I could not get an ID. Around this same time Robert Ross of Ontario had a positive logging of them. I remember calling Rob to discuss the great catch. Most of the time the stations heard on 6025 were Radio Amanacer from the Dominican Republic, Radio Budapest or Deutsche Welle in Arabic. Also in December I had logged La Voix du Zaire from Lubumbashi on 7202 kHz, which was my HIC 199. I really hoped to catch Biafra before they became inactive again. On February 18, 1989, I tuned in 6025 at 0634 UTC. I heard a long discussion by two men in a local language. Right at the hour I heard an announcement in lang or vern or whatever you call it, 5 time pips and then a woman in English, "This is Radio Nigeria, Enugu". It was one of those situations where 99 times out of 100 you hear station Y instead of Station X on a certain frequency. Then one day, there's station X clear as a bell (well, almost). There it was, my HIC 200. However, by 1 A.M. I didn't feel that much like celebrating. It was probably a combination of the hour and a hint of disbelief of what had just come through the headphones.

Dave Weinrich, 309 1/2 11th St., Fargo, ND 58102

Well I went out and put up some beverage antennas. I aimed a 1000' one at PNG for morning reception and a 600' one at Africa. All I can say is wow! It really made a difference even with my ATS803-A. Stations came booming in for over an hour after local sunrise. The propagation conditions were really good on August 31st and September 1st (Solar Flux-95, A Index-5 and K Index-1). But I think that was only a small part of the reason why my radio reception was so great. The main reason was the beverage antennas. I am convinced that the weak point in my listening post at home is my antenna. I would really encourage other DXers to put up some beverage antennas. You won't be disappointed.

Morris Wilkes, P.O. Box 6933, Lubbock, Texas 79493-6933

Your theme for the September "Musings" column caught my attention. "My most memorable DX Catch" was the theme, and I immediately began remembering my first year as a DX'er. I was a sophomore in High School with a great interest in radio. The year was 1970.

What caught my attention was the fact I remembered so many different programs and stations, which are not on the air today, and how I wish I had recorded airchecks of these stations and programs in those "early" days of my hobby.

I remember the Mexican "Border Blasters", just across the Rio Grande in Mexico, and shortwave station WNYW in New York City. And my favorite program was "Studio 70" with Jim Reynolds, heard Monday through Friday on shortwave over HCJB.

Are there fellow members who might have airchecks from the late 1960's and early 1970's they might share? I am particularly interested in the Mexican Stations XEG, XERF and XELO from 1968 through 1973, and HCJB, Studio 70 programs from 1970-1972; and WNYW Shortwave from New York City 1970 through 1973.

I would appreciate hearing from anyone who might have airchecks from these stations. Thanks for your help! (806)797-3814(home) (806)765-5298 (Office)

A Special Report From The NASWA Country Committee

After several months of discussion and deliberation, the NASWA Country List Committee has voted to add the following radio countries to the NASWA Country List. (Please insert in your list, in alphabetical order under the appropriate continent:

Asia -- BAHRAIN

Oceania -- PALAU

The reason for these additions is that both areas now have shortwave broadcasting stations.

The breakup of the former Soviet Union clearly did not catch your country list committee asleep at the switch. In fact, the committee's decision to grant separate country status was years ahead of its time, hi! However, while not changing the number of ex-USSR countries, name changes are required. Please make the following changes in your list:

<u>Old Name</u>	<u>New Name</u>	
Armenian S.S.R.	Armenia	USSR union republic to 1991; independent since
Azerbaijan S.S.R.	Azerbaijan	USSR union republic to 1991; independent since
Asiatic R.F.S.S.R.	Russian Republic	Asiatic part of R.F.S.S.R. to 12/15/91; part of Russian Republic since
Byelorussian	Belarus	USSR union republic to 8/25/91; independent since
Estonian S.S.R.	Estonia	USSR union republic to 9/6/91; independent since
European R.F.S.F.R.	Russian Republic	European part of R.F.S.F.R. to 12/15/91; part of Russian Republic since
Georgian S.S.R.	Georgia	USSR union republic to 1991; independent since
Karelo-Finnish S.S.R.	Russian Republic	USSR union republic to 1945; part of R.F.S.F.R. to 12/15/91; part of Russian Republic since
Kazakh S.S.R.	Kazakhstan	USSR union republic to 1991; independent since
Kirghiz S.S.R.	Kyrgyzstan	USSR union republic to 1991; independent since
Latvian S.S.R.	Latvia	USSR union republic to 9/6/91; independent since
Lithuanian S.S.R.	Lithuania	USSR union republic to 9/6/91; independent since
Moldavian S.S.R.	Moldova	USSR union republic to 8/27/91; independent since
Tadzhik S.S.R.	Tajikstan	USSR union republic to 1991; independent since
Turkmen S.S.R.	Turkmenistan	USSR union republic to 1991; independent since
Ukrainian S.S.R.	Ukraine	USSR union republic to 8/24/91; independent since
Uzbek S.S.R.	Uzbekistan	USSR union republic to 1991; independent since

In addition, the committee considered the Yugoslav situation at some length. A majority concluded that it is premature to add Croatia, Bosnia-Herzegovina, etc. to the NASWA list. The committee's long-standing policy of not removing a country once it is included in the list makes us somewhat conservative in adding new ones. We are not comfortable making permanent additions to the list while major civil warfare is continuing in the Baltic region. The committee voted to monitor events and again consider the Yugoslav situation in 1993. Since any changes that might result would be applied retroactively to earlier loggings, NASWA members may want to log and verify now various broadcasting organizations and transmitter sites in the region.

The committee also considered the Eritrean situation in detail. In May 1991, the Ethiopian Peoples' Revolutionary Front (EPDRF) took control of the Addis Ababa government. The central government troops, battling the separatist Eritrean Peoples' Liberation Front (EPLF), surrendered, ending the long civil war. The EPDRF has not challenged the provisional government EPLF then formed. A referendum supposedly is scheduled for 1993, to determine if the Eritrean people choose independence or some type of confederation with Ethiopia. The country list committee, however, is satisfied that since Jan. 1, 1979, the EPLF's heretofore clandestine radio, the Voice of the Broad Masses of Eritrea has been operating from Fah, a location within Eritrean borders.

If a future (1993) referendum results in independence, Eritrea automatically and immediately will be added to the NASWA country list, with loggings and verifications retroactive to Jan. 1, 1979 qualifying. We think it likely that Eritrea eventually will be added to the country list, so we note that NASWA members may wish to log and verify the Voice of the Broad Masses of Eritrea now, if they have not already done so.

--Naswa Country List Committee

Calendar Of Events

- Oct 11 - Martin Hoffman will host a get-together of the New York City Metro-Area DXers on Sunday Oct. 11. For further info, call (212) 242-1012.
- Oct 16 - Meeting, Boston Area NASWA Chapter, GTE Labs, Waltham, Mass. For additional information please contact Paul Graveline (508) 470-1971, or via modem on Tom's BBS, (617) 698-8649 (300/1200/2400 baud), (617) 698-8734 (9600).
- Oct 16 - Meeting, Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- Oct 17 - The Miami Valley DX Club (All band orientation) meets on the third Saturday of each month at 1 PM. Locations vary but are announced in advance. For info, call the MVDXC Newsline at (614) 471-9973 (24 hrs.) Or, send a SASE to MVDXC, Box 292132, Columbus, OH 43229-8132
- Oct 20 - Meeting, N.E. Ohio SWLs. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. For info send SASE to: NE Ohio SWLs, c/o Donald J. Weber, P.O. Box 652, Westlake, OH 44145-0652
- Oct 31 - Nov 1 - DXpedition, PiPa DXers (but open to all) at Mountian Springs Campground in Shartlesville, PA (near Reading). For info, call Andrew Yoder at (717) 263-6109 or write to: PO Box 109, Blue Ridge Summit, PA 17214

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

DXer's Forum

Please submit all contributions to:
Bob Brown KW3F
238 Cricklewood Circle
Lansdale, PA 19446
CompuServe 74756,1557
GENIE R.BROWN106
Packet KW3F @WB3JOE

This month Karl Forth leads a discussion of DXing transmitter sites. Gerry Kercher reports on his trip to Finland and the 1992 European DX Council Conference. Rich D'Angelo provides another interesting DX Target, Radio Apinte, Surinam. **Attention NASWA Members!** I need your articles to keep these pages full! Of particular interest are DXing tips and techniques, station profiles, antenna construction articles, and anything else related to DXing the shortwave bands.

Raising Your Sites

by Karl D. Forth*

Most DXers, and certainly most SWLs, don't know the difference between Kvitsoy and Konigs Wusterhausen, and don't care. These are transmitter sites used by major, easy-to-hear shortwave broadcasters that some DXers try to identify, hear, and verify.

The quest for Karlsborg, Bijeljina, Velke Kostolany and Szekesfehervar is easy in some ways, difficult in others. It's easy because all of these locations are used by European broadcasters that have English-language programs beamed to North America. But it's hard to identify, and sometimes verify, these locations. That's where the challenge is.

For many DXers, the primary goal is hearing and verifying as many countries as possible on shortwave. Others concentrate on logging stations. When you think of the real DX stations, you usually imagine that rare Peruvian, or the elusive Indonesian. Granted, hearing a new Radio Budapest transmitter site is not as difficult as logging a 300 watt RPKDT2 station from somewhere in Sumatra, but it can be a challenge, and often an interesting one.

There are several ways you can determine where the transmitter is. The first is to actually hear the transmitter location announced,

usually at the start or end of a transmission. This happens most often when a relay station is used. (Remember when the Voice of America used to make such an announcement?) Another way to determine the transmitter site is through information provided in the World Radio TV Handbook, Passport to World Band Radio, and in club bulletins like NASWA's *Journal*. And don't forget the station's own schedules and program information. Finally, the listener can request that the station verify a particular broadcast as coming from a specific transmitter. This is sometimes the only way to know which transmitter location is used, and even this method isn't foolproof!

Assuming that the site wasn't announced and the listener doesn't have a program schedule with transmitter information, the logical place to start is the good old WRTH. In each station listing, the WRTH has the exact geographic coordinates, given in degrees and minutes, of a transmitter site when known, along with the name of the site (usually a nearby city or town) and the number and power of transmitters.

For example, Radio Czechoslovakia currently has three transmitter sites, at Litomyšl, Velke Kostolany and Rimavska Sobota, according to the 1992 WRTH. The last site, at 20.00E/

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Chicago, IL 60618

obscure locations and places that were radio countries then and real countries now, such as Latvian SSR and Kirghiz SSR.

But often, the stations were not where Radio Moscow said they were, and in fact some of the cities listed as transmitter sites were hundreds of miles away from the actual sites. Several listeners located in Europe and Japan were able to figure out some of the actual sites, and a publication called the U.S.S.R. High Frequency Newsletter kept DXers informed. It's still possible to verify many of these sites, and some of them, such as Samara and Yekaterinburg, have gone back to their old names.

Some listeners, while playing this game, continued to count programs such as Radio Yerevan and Radio Vilnius as Armenia and Lithuania, even though they knew the transmitters used for these broadcasts may have been thousands of miles from Yerevan and Vilnius.

As mentioned earlier, the listener also has the option of trying to get the station to indicate the transmitter site on a verification card or in a letter. A good starting point is simply to send the station a reception report and ask the station, politely, to include the transmitter site used for that broadcast. If you were able to hear a broadcast to North America on three frequencies, for example, you could report all three and request the sites for each channel.

Sometimes getting the sites written in on your QSL card requires extra work. The BBC no longer indicates the relay site on its cards (in fact they don't want reports at all these days) but transmitter personnel in some locations will verify reports directly.

Deutsche Welle began including the transmitter site on its QSL cards issued shortly after Germany's reunification. This enabled listeners to verify the three old Radio Berlin International sites in eastern Germany, Leipzig, Königs Wusterhausen and Nauen, now being used by DW, along with Julich and Wertachtal in western Germany, and relays such as Malta and Antigua. Things are always changing in shortwave, and today's non-verifier could be tomorrow's friendliest station. If you do request a site on your QSL and the station sends out the card without it,

send it right back to them with a short, polite request. This will definitely get their attention.

DXers seeking to verify sites should pay special attention to the increasing number of cooperative agreements between international broadcasters. Swiss Radio International, Ra-

dio Canada International and others have used sites such as Xian, China, (Radio Beijing) and Skelton, England, (BBC) respectively, to relay broadcasts. These are sites that would be more difficult to identify and verify through the "host" broadcaster.

If there is sufficient interest, perhaps a database can be created containing transmitter information in NASWA, with locations, number of transmitters and date the site became active.

Finally, recognize the difficulty in determining some of the locations of stations you hear. Without the station's cooperation, it's impossible to determine all of the sites, so don't guess, or hope, that you heard Kvitsoy when you really aren't sure. That would take some of the fun out of the moment when that Radio Norway International card arrives in your mailbox.

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A Report On 1992 The European DX Council Conference

by *Gerald F. Kercher**

I attended the European DX Council Conference in Tampere, Finland, 21 - 24 August 1992. EDXC is the umbrella organization for DX radio clubs in Europe. How was it? It could hardly have been any better. The sponsoring clubs, The Finnish DX Association and the DX Club of Tampere, put together a world-class affair in terms of organization, physical plant, social gatherings and variety of workshops and panel discussions.

The conference location was a comfortable, very modern resort hotel located a few miles from the city center. The first order of business was a reception by the City of Tampere in the City Hall. This building, of museum quality, was opened one hundred years ago when Finland was a Grand Duchy of Imperial Russia. Such receptions are often part of gatherings in Europe and this one was well done with a barely noticeable speech by the mayor followed by the groaning-board buffet and appropriate refreshments. After an hour or so socializing here, we proceeded back to the hotel for the Friday evening session which focused on Latin America. The Finns are

great Latin American DXers. A local member, who has traveled extensively in Latin America, showed slides of the places and stations he has visited and played tapes of the stations being viewed and discussed. Incidentally, all of these sessions were conducted in English.

Saturday morning was taken up with a number of workshops including: Computers and DXing; Medium Wave DXing; DXing the VHF Bands; DXing and Broadcasting in Eastern Europe, the Past, the Present, and the Future. This last session and a similar panel discussion the following evening were the highlights of the conference for me. The speakers included representatives from Estonia, Lithuania, Roumania, and Radio Moscow. I was mildly surprised to hear the fellow from Radio Moscow admit that their broadcasts in past years had been filled with "hysteric propaganda and lies". The situation in the Baltic States is grim. The fellow from Estonia said he was a little tired of hearing that the Soviet Union no longer exists since Soviet soldiers still occupy his country. He emphasized that these troops do not carry Russian passports. Their documents were



* P.O. Box 168
Quaker Hill, CT 06375

issued by the USSR. I asked him about the availability of shortwave receivers and he said simply that there are none in the stores. None. Do not think, however, that the attitude of these broadcasters from Eastern Europe was downcast. Quite the opposite. Hearing them talk I sometimes wondered why, but they were cheerful and confident that better days lie ahead. Nevertheless, the problem of that Soviet "Army of Occupation" casts a sobering shadow.

A few times someone in the audience remarked that radio get-togethers are supposed to be free of politics and commercialism. All seemed to agree, however, that given the state of affairs in Europe today, such topics could not be divorced from a meaningful discussion of international broadcasting and there was no effort to discourage such commentary.

I will not attempt to describe all the agenda items. Everything seemed to have been carefully planned and was well executed. In addition, the conference reception desk was always staffed by knowledgeable members of the sponsoring units. An unusual display was a "DX Library" featuring files of magazines and other publications which could be borrowed and copied at the reception desk. A Listening Room was set up with various receivers and long wire antennae. This was open 24 hours a day and available to all. It was also equipped with a satellite receiving system with an outdoor dish antenna. A Computer Room was available to test many kinds of computer programs. Demonstrations were made and public domain software could be copied and international networks arranged. There were two exhibitions of special interest to QSL phreaks: a Latin American pennant exhibition and a Euro-exhibition of QSLs and other material from European stations. Saturday afternoon we had a flea market. Also, following the Saturday night banquet, items donated by members of the sponsoring clubs and other participants were auctioned. The auctioneer was a real comedian and everyone had a good time. Some of the prices paid for the auctioned items were amazing. Two envelopes of pennants and stickers, mainly from the 60s, went for over 100FM, or over \$25US for each lot. Your old Dad didn't bid.

The hotel had a Movie Box channel which

was available to the conference from 0900 to 1700L and DX-related films were shown including one about a DXpedition to Lapland. This is a popular winter event in Finland. They go up to a cabin or similar rustic accommodation north of the Arctic Circle, lay out monster beverage antennae on the snow and ice and DX away during the 23 or whatever hours of darkness! Obviously an acquired taste.

There was also a 24 hours-a-day EDXC92 Conference radio station, **RADIOWORLD!** This was an FM outlet located at the local university. The programs were mostly in Finnish as the primary target group was the public in the local area. Radioworld also had a studio at the hotel and correct reception reports were to be verified with a special QSL card.

About 175 people were pre-registered from 20 different countries. There were three other attendees from North America, all from the US: Lewis R. Coulburn, Maryanne Kehoe and R.C. Watts. In addition to the broadcasters already mentioned, Radio Netherlands, Radio Sweden, Radio Finland, BRTN Belgium, BBC World Service, Deutsche Welle, TRT Turkey, Radio Budapest and Radio Korea were represented.

I have not attempted to cover everything in detail. There was also an enjoyable guided tour of the city. Lowe Electronics had a representative with their latest receivers on display. Finland is perhaps the most expensive country I have visited in recent years, but I feel that I certainly had my money's worth. The airfare was most reasonable, in my opinion: \$566US, roundtrip, non-stop from JFK to Helsinki. On the flight home, the Finnair stewardess asked me if I wanted chicken or reindeer for lunch. Don't tell Santa, but I took the reindeer!

Why not plan to attend an EDXC Conference yourself? Next year it will be in the Canary Islands, 28 - 31 May. The 1994 venue has not been selected, but 1995 will be in Denmark, 2 - 5 June. If you can take in only one, I would suggest pointing for Denmark. You will have plenty of time to save the boxtops and I know the Danes will organize an affair which might rival the one in Finland. I do not see how it can ever be surpassed.

DX Target



Radio Apintie The Dutch Influence in Latin America

By Richard A. D'Angelo

Of all the active shortwave broadcast country targets in South America, possibly the most difficult one to log and subsequently verify is Suriname. At one time two shortwave broadcast stations were operating from this former Dutch possession. The government sponsored Radio SRS and Radio Apintie provided shortwave listeners with two opportunities to hear and QSL Suriname. Today, only the latter station operates on shortwave. Although Suriname is still represented on shortwave, Radio Apintie's low power operation and severe utility station interference make the station a difficult DX Target.

The Country

Suriname is located on the northeast coast of South America. Mountainous rain forests cover about 80 percent of the country. Most of the people live in the flat coastal area. It is the smallest country in South America, both in area and population. Suriname is 63,037 square miles, or 163,265 square kilometers, and has a population of about 400 thousand people. Nearly half of the inhabitants live in the capital, Paramaribo. The city is the largest in the country and the chief port. The Netherlands ruled the country, when it was known as Dutch Guiana, until 1975 when Suriname gained independence.

The Land

Suriname has a narrow coastal area of flat swampland that has been drained for farming. This area extends inland 10 to 50 miles, or 16 to 80 kilometers, to the sandy plain that rises about 150 feet, or 46 kilometers, high. Mountainous rain forests with over 2,000 kinds of trees dominate the interior. A high grassy treeless plain, or savanna, runs along the country's southwest border.

The country's climate is warm and moist. The average annual temperature is 81° Fahrenheit, or 27° Centigrade. The western section of the country averages 76 inches, or 193 centimeters, of rain annually while Paramaribo averages about 95 inches, or 241 centimeters, of rainfall.

The People

The country has a mixture of many different ethnic backgrounds. Each ethnic group has managed to preserve its own culture, religion and language. Dutch is the nation's official language, but various groups use a creole dialect as a common language. About a third of Suriname's population are Hindustan's, who are descendants of people from India. Another third of the population are people of mixed European and black ancestry, Creoles. The rest of the country's people are Indonesians, blacks, American Indians, Chinese and Europeans.

The Economy

Suriname's economy is based on mining and metal processing. The country is the leading producer of bauxite, an ore from which aluminum is made. About 75 percent of the nation's exports are from raw bauxite and aluminum. Agriculture plays an important role in the country's economy. The major export crop, rice, is grown on about three-fourths of the farmland. Other crops include bananas, coconuts and sugar.

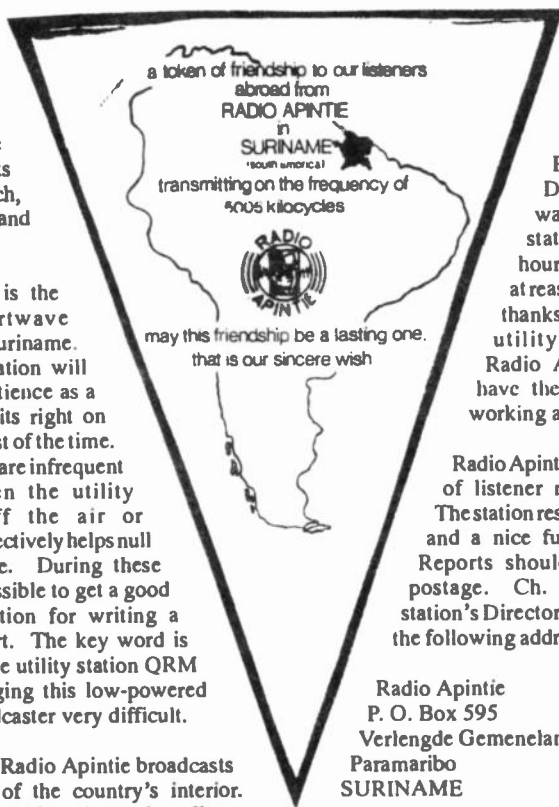
The Station

Radio Apintie began shortwave broadcasting in September, 1979. The station transmits on 5,006 kHz from 0800 to 0400 UTC. Radio Apintie operates on 97.1 MHz FM with a Sintronic FM Stereo transmitter using 1,000 watts and 4 relay stations with 10 watts each.

The Gates medium wave transmitter operates on 820 kHz with 1,000 watts. The station broadcasts programs in Dutch, Sarnami Hindi and English.

Radio Apintie is the only shortwave broadcaster in Suriname. Logging the station will take a lot of patience as a utility station sits right on the channel most of the time. However, there are infrequent moments when the utility station is off the air or propagation effectively helps null the interference. During these periods it is possible to get a good log of the station for writing a reception report. The key word is "patience" since utility station QRM will make logging this low-powered domestic broadcaster very difficult.

On shortwave, Radio Apintie broadcasts to the people of the country's interior. Although intended for a domestic audience, the station is very appreciative of reception reports from abroad. They use a Philips 50 watts transmitter coupled to a Linear Amplifier, Model 3K from Henry Radio, of 350 watts. The station uses a 5 element monoband Doublet Log periodic antenna with a gain of 10 db. Since January 1992, the station has been operating with only the 50 watt



transmitter making reception even more difficult. Nevertheless, the Gifford Pinchot DXpedition team was able to log the station for over an hour on 6 April 1992 at reasonable DX levels thanks to the absence of utility station QRM. Radio Apintie hopes to have the linear amplifier working again soon.

Radio Apintie is a good verifier of listener reception reports. The station responds with a letter and a nice full sized pennant. Reports should include return postage. Ch. E. Vervuurt, the station's Director, can be reached at the following address:

Radio Apintie
P. O. Box 595
Verlengde Gemenelandsweg 37
Paramaribo
SURINAME

Good luck with this DX Target. Remember to send all those logs of Radio Apintie to Sheryl Paszkiewicz for inclusion in the Log Report and those rare QSL's to Sam Barto for his QSL Report column.

For Sale -

Kenwood R5000, super condition, including 500 hz and 1.9MHz filters, plus scanner modification and mobile modification (for operating off a cigarette lighter.) Includes dust cover and SP-940 speaker. First person to offer \$750 gets the works. Call Mike Nikolich (708) 392-0040 or write 116 Derbyshire Lane, Arlington Heights, IL 60004

Easy Listening

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

Radio Beijing

A slight update to last month's information. The Monday series on ancient Chinese science and technology is part of the program feature called "China Anthology", or so it sounded. The sampled program this time around focused on the 3000-year old technology of porcelain firing, and was the 11th program in the series on ancient technology.

Radio Budapest

In the old days of Eastern European totalitarianism, propaganda dissemination was an important role of the shortwave services. Now, with most of these countries now looking West for economic assistance and guidance, the shortwave services take on the new role of a long "commercial". Downsizing of services is another casualty of the difficult economic times faced by these countries, and Radio Budapest is no exception. Only one program - a Tuesday 0300 program - was sampled this time around. I'll have more next month.

The first block of features is entitled **Newsroom**. **News** opens this block; the news focuses on news about Hungary with no mention of international affairs that don't specifically affect Hungary. **Commentary** follows. No source was specifically attributed during the broadcast I taped. The commentary didn't seem to be necessarily government opinion. **Press Review** then follows. A review of both newspapers and domestic radio programs was included. This is the last feature in the **Newsroom** block.

The second part of the program began with **Sportsarama**. This focused on Hungarian sporting events, including the performance of foreigners in these events. The **New Traditionists** followed. This was one of the more interesting features of the broadcast. This feature looked at the lack of patriotic rituals in Hungary. The homogenization of Eastern Europe practiced by the Soviets repressed most avenues of nationalist expression, represented most graphically in the violent implosion of Yugoslavia. The program looked at the historical origins of the current state holidays.

Privatization Progress then followed. This was perhaps the most "commercial" of the features, as the program details how privatization is taking place in Hungary. The program detailed the goals, structure, and mechanisms of privatization, reminding listeners that foreign capital was a desired ingredient in the process. Enough detail on procedures was included to help demystify the process for outsiders.

The business and commercial theme continued with **Expo Update**, which followed **Privatization Progress**. Budapest will be the site for the 1996 World's Fair, and this program helps build interest in the expo. Other trade fairs and expositions scheduled in Hungary are profiled.

Music And ... followed. Music with various unifying themes is played. The sampled program featured music about street names. The brief excerpt I heard didn't specifically feature Hungarian folk music - the song seemed more Irish.

Radio Budapest issues a quarterly English language program guide. Write to: Radio Budapest, Bródy Sándor utca 5-7, H-1800 Budapest, Hungary.

BBC World Service Highlights

Perhaps the highlight for many listeners will be **Brain of Brains**, a special edition of **Brain of Britain**. **Brain of Brains** will pit the 1992 winner against the 1990 and 1991 winners for the title "Brain of Brains 1992." Sunday, October 11th, 2030, with repeats Monday (12th) 1215 and Tuesday (13th) 0230.

Following is a sampling of other features scheduled for October.

Sundays from October 4th, 1401 - A second four-part series of interviews begins in the series **About Face**. A unique feature of this program is that it was put together by independent producers - not BBC World Service employees. This program is a "two-on-one" interview, with two interviewers and one guest. This format, as was demonstrated in the previous series, permits one

person to act as facilitator, conducting the questioning, with the second person as the "processor", observing the questions and responses, and then intervening if a specific follow-up question comes to mind. The intervenor always has priority, which enables fewer missed opportunities for "thinking on one's feet" than a single questioner could manage. When the intervenor intervenes, becoming the questioner, then the other interviewer takes on the observer role. An interesting slate of interviewees is promised, but no names are mentioned. Repeated Mondays 0630 and 1001.

Mondays from October 12th, 2315 - A twelve-part series on *The Learning World* looks at the issues of school funding and managing in the United Kingdom and around the world. This is not only a UK issue, as the issue of education funding and management is a matter of debate in the US Presidential contest as well. Repeated Tuesdays 0445 and 0930.

Sundays beginning October 18th, 2030 - *If Brain of Britain* has you thirsting for quiz shows, *Screenplay* may be your cup of tea. This quiz show features questions on Hollywood and the entertainment industry. Find out what James Bond has in common with *Chitty Chitty Bang Bang*. Repeats Mondays 1215 and Tuesdays 0230.

Saturday, October 24th, 1901 - *In Their Element* people whose lives are closely tied to water and the open seas. Navigator Thor Heyerdahl, film star Esther Williams, an ice-walker, a round-the-world yachtsman, and others are profiled. Repeats Monday 0101 and 1515.

Sundays, beginning October 25th, 0230 and 1615 - *The Evangelicals* investigates the history, beliefs, and practices of evangelicals and assesses their influence in the church at large, politics, and on interfaith relations. The October 25th installment is the first of three weekly reports. Also repeated Mondays at 0730.

Saturday, October 31st, 1901 - *Daring To Dance* recalls the days when some forms of dance were considered subversive and lewd. Even today, some religious groups frown on certain public displays of dance. This is a one-time program taking a historical look at attitudes on dancing. Repeats Monday 0101 and 1515.

Drama features:

Sundays, October 11th and 18th, 0101, 1201, and 1901 - *Double Cross* is a two-part Play of the Week that is part fact, part fiction - a contrast between Brendan Bracken, Winston Churchill's

minister of information during World War II, and William Joyce, who broadcast Nazi propaganda from Germany during the war in shortwave's infancy. Joyce became known in Britain as Lord Haw-Haw. The inventiveness and wordsmithing of Joyce, and his influence on the British public, is contrasted with Bracken's need to contain the damage inflicted by the propaganda.

Sunday, October 25th, 0030, 1130, and 1830 - a special extended-length (90 minutes) *Play of the Week* is David Edgar's highly acclaimed play *The Shape of the Table*, a commentary on the collapse of Eastern European communism. Two weeks of a bloodless revolution, focusing on a political prisoner suddenly asked to participate in political change.

Saturdays, 0130 with repeats Sundays 0430, 0915, and 2215 - *Short Story* is a shorter-form (15 minute) program. Stories from Bhutan, Sri Lanka, and Singapore are featured this month. Escapist breaks with exotic themes.

Music features:

Mondays, beginning October 12th, 2215 - *The West Coast Sound* is Nicky Home's look at Rock 'n' Roll as played out in California.

The multi-part series profiles the California contributions to Rock from the 1950s through the present time. Home is no stranger to modern music, having been a guitarist in times past. The program is, though, a view of California from an outsider's perspective - something I always enjoy. If you're looking to entice young people to shortwave, this program might do the trick. Home interviews David Crosby, Stephen Stills, Glenn Frey (the Eagles), Susannah Hoffs (the Bangles), Dave Mustaine (Megadeth), Ron Young (Little Caesar) and others. Repeats Tuesdays 0630, Wednesdays 1615, and Fridays 1030.

Tuesdays 1030 - *The Story of Western Music* moves into the 17th century, when the Baroque style developed in Italy and was copied elsewhere in Europe. The music of Schuetz, Corelli, Couperin, Rameau, and Purcell is featured. Repeats Fridays 0030 and 1715.

Friday, October 23rd, 0730, 1215, and 1930 - *Tutankhamen's Legacy* looks back at ancient Egyptian musical instruments and their 20th century North African counterparts.

That's all for now - drop a note when you get a chance. Until next month,
73 DE Richard

Asian Destinations

Mitch Sams
779 Galilea Court
Blue Springs, MO 64014



The US Department of State issues what are known as "Worldwide Travel Advisories". These advisories are available for nearly every country in the world and provide a wide range of information on topics such as warfare and political unrest, which would be of interest to the traveler. I've also found that these advisories can be beneficial to the hobbyist because they provide insight into possible clandestine radio activity, as well as the condition of local government and public services, such as electrical power, and mail service. I obtain these advisories via CompuServe.

So, to give you a sampling of what can be found through this advisory service, I have pulled some of the more interesting items for Asia:

BURMA - WARNING July 17, 1992

Summary: The Department of State advises U.S. citizens traveling to Burma to defer all travel to the highland areas and to exercise caution in the rest of Burma. Occasional political unrest and insurgent activity in the highland regions continue. Unrest in the delta region has abated. Air travel within Burma is not safe and U.S. citizens are urged to avoid all travel on Myanmar Airways. Travel to Burma is for the adventuresome: Roads are poor and trains are prone to accident or delay. Myanmar Airways (formerly Burma Airways Corporation) has a poor safety record. No Burmese Airport has instrument landing capability, and the hazards are especially high during the prolonged rainy season, which is from May to November. Insurgents remain active in the Burmese highlands along the northern borders. Last year, there were a series of battles in the delta, southwest of Rangoon, but there has not been any recent activity. American

citizens are advised to defer all travel to highland areas. Burma tightly controls the import and export of foreign currency, national currency, artwork, antiques, and legally controlled goods.

PAKISTAN - WARNING June 5, 1992

While Karachi has not recently experienced ethnic violence, the potential for it remains. U.S. citizens traveling to Hyderabad should exercise extreme caution due to recurring outbreaks of ethnic and sectarian violence which have been characterized by random bombings, shootings and mass demonstrations.

There is limited provincial police presence and influence in Baluchistan Province. Recent ethnic violence in and around Quetta claimed several lives and resulted in the imposition of a multi-day curfew in the district. This incident developed with little warning. Quetta remains tense, and similar incidents could recur at any time.

Violence and threats of violence in Peshawar and in Afghan refugee camps are a serious concern.

INDIA - WARNING May 19, 1992

Summary: Travel throughout most regions of India is generally safe. However, there is continuing terrorist activity in the Kashmir portion of the State of Jammu and Kashmir and in the State of Assam. In addition, due to the continuing violence in the State of Punjab, U.S. citizens should defer all but essential travel to the Punjab, Kashmir, Assam, Punjab, North-western Uttar Pradesh.

SRI LANKA - WARNING August 31,

1992 Summary: The Department of State advises U.S. citizens traveling to or residing in Sri Lanka to avoid all travel to

This information, as an example, may concern recent rebel activity in a country which resulted in the sabotage of a local electrical power generator station in the capital - which could explain why you haven't heard that shortwave broadcaster recently. As another example, the fact that local mail service has been reported as unreliable because of recent strikes and protests would be a good tip to hold onto your reception report until things settle down in that country.

north and east Sri Lanka until further notice, because of the on-going armed conflict between the government and Tamil separatists. Fighting between government security forces and the Tamil extremist group, the Liberation Tigers of Tamil Eelam (LTTE), continues in all parts of the north and east of the island of Sri Lanka. The center and south of Sri Lanka, including the capital city of

Colombo, the western beaches and the hill (tea) country, are generally calm, and travelers report few problems there at present.

MONGOLIA - NOTICE May 7, 1992
Severe fuel shortages which affect heating and electrical systems are a serious problem. On February 19, 1992, the government announced a schedule of power outages which may result in daily, prolonged blackouts of all parts of Ulaanbaatar and lack of sufficient heat in many buildings.

INDONESIA - CAUTION August 3, 1992
Summary: The Department of State advises U.S. citizens to exercise caution when traveling to Aceh, Irian Jaya, and East Timor provinces

Aceh Province -- Located at the extreme northern tip of the island of Sumatra, Aceh has been the site of limited civil unrest which has led to isolated incidents of violence.

Irian Jaya Province --- Restricted areas in Irian Jaya: Border area with Papua New Guinea, Enarotali, Wagate, Akimuga, Illaga/Maumane, all areas along the Mamberamo River, and the Agats area are restricted to travelers.

East Timor -- This province, located approximately 300 miles north of Australia, has experienced periodic unrest since 1975.

PAPUA NEW GUINEA - WARNING May 29, 1992
The Department of State warns U.S. citizens that the government of Papua New Guinea does not allow travel to Bougainville, the largest island in the North Solomon Province of PNG, where an armed insurgency has been active since 1989. U.S. citizens should also avoid the largely inaccessible Papua New Guinea/Indonesia border area where an Indonesian secessionist group, the "Movement For a Free Papua" (OPM), remains active. Armed robberies and assaults on women remain a problem in Port Moresby, Popondetta Lae, and Mt. Hagen, and along portions of the Highlands Highway and the Mt. Hagen to Mendi Highway. Visitors to PNG should also avoid the Baiyer River area of the Western Highlands Province. Most other areas frequently visited by tourists, including Madang and Rabaul, are generally safe. Organized tour boat cruises on the Sepik River and around PNG's coast and smaller islands have a particularly safe track record. potentially violent political protest exists, especially in the Highland provinces of Enga, Simbu, Eastern, Southern and Western, as well as in the Morobe Province.

TAJIKISTAN - WARNING September 8, 1992
The Dushanbe International Airport is under rebel control and service is not reliable.

YEMEN - WARNING June 2, 1992
Summary: Acts of political violence, including assassinations and attempted assassinations, have recently occurred. Similar incidents are likely to occur in the run-up to elections due no later than November 22, 1992.
.....73zzz Mitch Sams

Curing ITV

ITV is the acronym for Interference from Television. The SWL and the AM broadcast DXer have fought the interference caused by television receivers for the past half century. This article shows how to identify interference caused by television receivers and presents some ideas for curing or reducing the problem.

What does ITV sound like?

The sound of ITV is a rough, buzzy - sounding signal every 16 kHz or so across the spectrum. The sweep circuits of the TV set tend to radiate signals at integral multiples of the horizontal and vertical scanning frequencies. In Japan and the western hemisphere (with a few exceptions) the electron beam in the TV set picture tube is swept from left to right at $15,734.264 \pm 0.044$ Hz. In addition, the electron beam is swept from the top to the bottom of the screen 59.94 times per second. The signal that is radiated by the TV set is a composite of both of these frequencies. Every 15.734264 kHz across the spectrum is a signal which is modulated with 59.94 Hz sidebands. The apparent width of each signal depends on the strength of the signal at the receiver. In the case of extremely strong interference, the individual signals tend to run together causing a continuous buzzing noise in the receiver.

What if the buzzes I hear are not spaced from each other by 15.734 kHz?

Most computer monitors use different scanning frequencies from those used in TV sets. The resolution requirements of computer displays require more lines per picture. This means that horizontal scanning frequencies will be higher and the spacing of the harmonics will be greater. The techniques used to cure AC line coupled ITV are also applicable to computer monitors.

How can I be sure that what I am hearing is actually ITV?

The easiest way to be sure is to temporarily place your radio on top of your TV set. Connect a short piece of wire to the antenna terminal of the radio to act as an antenna. With the TV set on and receiving an off-the-air signal, tune the radio across its frequency range. The sweep circuit radiation should be loud and clear. Study what the signal sounds like and note the frequencies you hear. You will probably observe that the higher you go in frequency, the weaker the radiation becomes. You will probably hear harmonics all the way up to 30 MHz. As a final test, shut off the TV. The interference should disappear.

OK, I know that my TV is causing the interference I am hearing. What can I do about it?

There is no easy answer to ITV. A step by step investigation of the problem is required. When the mode of radiation is known, then steps can be taken to reduce the problem by means of filtering or relocation of antennas and feedlines. The first step is to disconnect the TV antenna lead-in or cable TV wire at the TV set. If there is a strong TV station in your area that can be received without an antenna, tune it in. This procedure allows the sweep circuits to lock up on the correct frequencies. If such a station is not available in your area, expect to find the interfering signals at a frequency which is offset from where they were originally noted. The signals will also sound different because noise from the TV receiver amplifiers will now be modulating the sweep frequencies. Check your SW or AM BC receiver for interference. If the interference has been reduced enough, the only filtering required will be in the antenna

or cable TV lead. If unsatisfactory levels of interference are still present, then more drastic measures will be required.

Why does disconnecting the antenna cable reduce the interference?

The lead-in is acting as a random length wire antenna to radiate harmonics of the sweep frequencies. Such radiation can occur whether you are using twin-lead or coaxial cable. Disconnecting the antenna lead from the set breaks the path by which currents causing the radiation are radiated into the radio receive antenna. Normally twin-lead and coaxial cable work on the difference in voltage between the two wires in the case of twin-lead or between the center conductor and the shield in the case of coax. Engineers refer to this as "normal mode" propagation. In this case, however, the signal is radiated by what engineers call "common mode" currents. In the case of twin-lead the common mode currents flow in phase on both of the conductors. Coax feedline can have standing wave currents flowing on the outer shield conductor.

Most TVs sold since about 1985 have 75 ohm coaxial cable connectors for the antenna input. In these sets the shield of the coax connects to the TV tuner chassis. This design minimizes leakage of cable signals which propagate via the normal mode. This approach can make common mode radiation of sweep frequency harmonics worse because the chassis of the TV set may not be at ground

potential in the HF frequency range. (Warning: TV set chassis are often at a voltage above ground and may be tied to one side of the AC line. Do not attempt to cure common mode radiation is to break the path. Luckily there are simple devices available to do this.

How do you break the common mode path without incurring excessive normal mode losses or leakage?

Radio Shack sells 75 to 300 ohm balun transformers which can be connected as shown in figure 1 to break the path for common mode currents. Each balun contains a small transformer which efficiently couples TV signal frequencies but provides a nearly open circuit for common mode currents. Capacity between the transformer windings will allow some common mode leakage but this capacitive reactance is in series with the common mode current. The isolation will, therefore, be best at the lower frequencies where the sweep frequency harmonics are strongest. Two of these devices are used back-to-back so the input and output impedances are the same.

What if disconnecting the TV lead-in does not eliminate the interference?

The signal is either coupling into the house

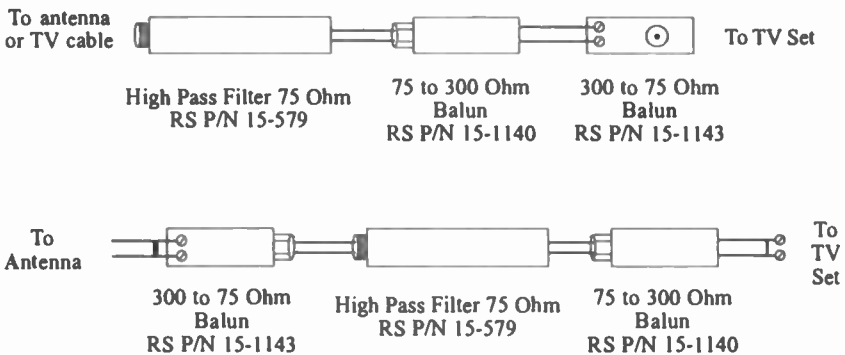


Figure 1. Breaking the common mode current path for 75 and 300 ohm TV antenna systems

AC wiring or being radiated directly from the set to the receive antenna. Radio Shack sells a line filter (P/N 15-111) which may help. They also sell a power strip with built-in noise filter that works from 100kHz to 100MHz (P/N 61-2780). If filters do not do the job, then try relocating the SW receive antenna to maximize the separation distance from the TV set and from the house wiring.

By the way, neither the author or NASWA has any affiliation with Radio Shack. The use of their part numbers is only an aid to finding a suitable item and is prompted by their ubiquitous, free catalog. You may be able to find similar items at electronic supply stores or at homeowners supply stores that carry TV antennas and accessories. Usually, these latter outlets have better prices but the specifications on the items they sell may be rather vaguely described.

Another trick which may work for you is to coil the TV set power cord around a ferrite toroid or rod for 10 turns or so (Radio Shack P/N 273-104). This coil forms an RF choke which can reduce common mode currents in the power line cord. This technique can also be used on the coaxial TV antenna lead-in cable to eliminate currents flowing on the outer shield.

What if the problem persists with the TV set off?

This symptom indicates that the signal is being radiated from a neighbor's TV. This problem is particularly difficult in multi-unit apartment or condominium dwellings where a common TV antenna system or cable TV distribution network is installed. Diplomacy and tact are essential to finding which receiver is causing the problem and then convincing the owner to fix it. Unless you know the neighbor real well, I would not recommend you install the filters yourself. One problem you will encounter is that no matter what causes the next failure of your neighbor's TV, you will be suspected of having caused the problem. Better to approach the problem by locating your receive antenna as far from the interference as possible. In this regard, active antennas such as the Dressler ARA-60 or the Datong AD-270 could help. The 1988 edition of the World Radio and TV Handbook contained a review of many different active antennas in a wide variety of performance and price ranges. Active antennas may help

because their size is physically small and they can be moved around and oriented in such a way as to null out the interference. Because the signals are radiated by the power line, the antenna or cable lead, and directly from the set, you can sometimes find a receive antenna location where the signals from each of these paths add out of phase and cancel each other. One way to predict whether an active antenna will help is to explore with a sensitive portable SW radio. Borrow one from a friend before making the big investment in an active antenna.

Where can additional information be found on ITV?

Older editions of the Radio Amateur's Handbook published by the American Radio Relay League (ARRL) treat this subject. I have been unable to find anything of relevance in my most recent edition. My 1972 edition, page 501, has some additional hints. This same publication shows the design of 300 ohm balanced and 75 ohm unbalanced high-pass filters which may reduce normal mode radiation from the antenna. Such filters are also available from Radio Shack for 75 ohm coaxial cable TV feed lines (P/N 15-579) if you don't want to build your own.

The ARRL also has a relatively new publication, "Interference Handbook", which could help. I have not seen this book so I cannot verify whether it discusses ITV in any greater depth than was presented here. The ARRL ID is #6051 and it is advertised in QST at \$12.

If you really want to dig into an engineering level text on the general subject of radiated and conducted interference, I can recommend "Radio Frequency Interference Handbook" published by NASA. The NASA ID number is NASA-SP-3067. The National Technical Information Service, Springfield, VA 22151 sold copies of this 264 page, taxpayer-subsidized tome for only \$3.00 in 1971. It may still be available. The Library of Congress Card No. is 74-174579. It is the best book I have found on the subject measured using the quantitative yardstick of dollars per pound.

Remember, your comments, questions and suggestions for this column are always welcome. If they are of general interest, they will be included in a future column. Until next time, stay tuned.

Equipment Review

Alan Johnson N4LUS
6001 Goldsboro Road
Bethesda, MD 20817
CompuServe 76665,1756
Genie A.JOHNSON64

PHILLIPS DC-777 AUTOMOBILE SW RADIO

Have you ever been driving and become exasperated trying to find a station that you wanted to listen to? Have you ever thought to yourself while driving "Gee, if I was at home now I could be listening to "Newshour" on the Beeb?" Thanks to Phillips Car Stereo, there is now a civilized solution to the problem of mobile SWL'ing.

While over the years there have been various converters sold to allow SW reception in conjunction with a car MW radio, these have never met with a great deal of success or popularity. Kenwood introduced the RZ-1 wideband mobile receiver a few years ago, but this was intended more for the scanner enthusiast and performed poorly on SW, according to the reports I've seen. The Phillips DC-777 is a completely different animal. It is a standard size in-dash car radio/stereo cassette player which receives MW/FM stereo/SW. It is designed to fit into a DIN standard dash cut-out (183 x 52 mm) and provides an output power of 20 watts per channel with 2 speakers and 7 watts per speaker with 4 speakers. The list price is \$599, but the street price is around \$400.

AVAILABILITY

For a while, only gray-market European models with long-wave coverage (144-288 kHz) and MW tuning steps of 9 kHz were available in North America. But now there is a NA specific model being distributed by Auto-Sound Companies, Inc. through several dealers (call 800-328-0795 for more information and the dealer nearest to you). This version drops longwave coverage and tunes the MW band in 10 kHz steps. Both models tune in one kHz steps on shortwave.

FEATURES

The DC-777 is somewhat unusual in appearance. On the left side is an LCD display and two rows of five pushbuttons each. In the middle is the cassette door and a drop-down panel with three push-buttons on the bottom edge. On the right are the cassette eject and fast-wind buttons and the only rotary control on the unit — and it's not a tuning knob!! It's the volume control, as well as the balance, fader, treble and bass control, when these functions are selected by the "Audio" pushbutton. Tuning is accomplished by the Up/Down pushbuttons which default to the search mode, i.e. the radio steps in the defined tuning step for the mode until a station is found, then the scan stops until the button is pushed again. These buttons can also be used for manual tuning as well. Memory tuning is also available, with 10 available memories for MW and FM (5 user-defined and 5 with the Auto-Store function) and 20 on shortwave. There is also a direct entry keypad which opens out from the front panel when a release button is pushed. Frequency coverage is 531-1611 kHz(MW), 87.5-108 MHz(FM) and 3170-21910 kHz on SW. The SW coverage is continuous only when in the manual or keypad tuning modes — when in Search tuning mode, the radio tunes only within the international broadcasting "meter band" segments (90 through 13 meters). The exact coverage (in kHz) within these segments is: 90m: 3200-3400, 75m: 3950-4000, 60m: 4750-5060, 49m: 5950-6200, 41m: 7100-7300, 31m: 9500-9900, 25m: 11650-12050, 21m: 13600-13800, 19m: 15100-15600, 16m: 17550-17900 and 13m: 21450-21850. The unit also includes a 24 hour format clock and 3 automatic timers to turn on the radio at up to

three different times on up to three different frequencies each day! Finally, there is a security code feature which requires the inputting of a four digit number to restore operation if power is disconnected from the unit.

INSTALLATION

Installing the unit in my car was fairly easy. There's a sheet metal sleeve which fits into the car's dashboard cutout. The sleeve is held in place by tabs which are bent out behind the dash panel. The wiring harnesses and antenna cable plug into the back of the radio - the antenna connection is a standard automotive "Motorola" type socket. Besides speaker and power connections, there are two switched 12 volt lines for remote control of a power amplifier and antenna motor and an illumination line to allow the unit's display to light when the car's lights are turned on. Once wiring is completed and the harnesses plugged in, the radio slides into the metal sleeve and is held by spring clips. To remove the radio requires the use of two "U" brackets (supplied with the unit) to release the clips. The unit is finished in a dark gray, which fits in well with the black interior of my car. The display is a bit garish, with a mixture of red, green, yellow and orange characters. In addition, the circumference of the volume control is ringed by illuminated red dots. My installation consists of the car's standard whip antenna on the rear fender and the radio is feeding the car's built-in power amp/speaker setup.

OPERATION

Once the "power" button is depressed, cassette playback can be selected by inserting a tape into the slot. If a tape is playing, it must be ejected to listen to the radio, although the radio does play during tape fast wind operations. MW or FM are selected by the "Band" button and pressing the "SW" button steps through the 11 preset meter band ranges. The radio can be tuned in four ways. The safest way when mobile is to use the memory presets. There are 20 for SW - arranged in 4 banks of 5 memories each. The top row of five buttons on the left are the memory buttons - 1-4 select the memory bank and button 5 steps through the memories in each bank.

Twenty memories seems to be a rather small number, but this has been enough for my needs. The next method in terms of ease is to use the search mode. Pressing the buttons marked with arrows tunes the radio either up or down in the defined step for the band until a station is found. One can also select manual tuning by depressing both arrow keys until a beep sounds and then pressing either button to tune the radio. The unit reverts to search tuning mode if the tuning buttons are out of use for about one minute. Using the direct entry keypad while in motion is difficult as the pop-out keypad is flimsy and the buttons are very rubbery in "feel". There is no aural feedback for the keypresses (until the "Enter" key is pressed) and minimal tactile feedback. On MW and FM, the five strongest signals can be sought automatically by pressing the "AST" button. These stations are stored in memories that are separate from the five available user-defined memories for each of these bands. That's how the total of 10 memories for MW and FM are arrived at. There's also a "Mute" button to silence either the radio or tape player. The cassette player is an auto-reverse unit, which lacks Dolby noise reduction and bias/EQ switching for different tape types.

PERFORMANCE

I bought the Phillips DC-777 with very low expectations. I anticipated lots of hash, fading, static and poor sound - I was pleasantly surprised. There is a small amount of alternator whine in my installation (in all modes, including cassette playback), which has not been improved by the installation of a Radio Shack L-C filter in the power line. Part of the problem may be due to the separate power amplifier in my car. I have not been able to locate the amp in order to try driving the speakers directly. Also, sensitivity is a bit low - WWV and R. France International during the daytime are weak and scratchy. I suspect that the low sensitivity may be because the unit was designed for the RF-rich environment of western Europe. Sensitivity for nighttime international broadcast signals is fine, however. It would be interesting to try one of the Diamond D505 active mobile antennas with this radio. Signal fading is no worse than

on fixed or portable receivers. Very rarely, the presence of powerlines parallel to the roadway will slightly degrade signals. Selectivity is quite good and sound quality is excellent - the tone controls afford a good deal of flexibility in adjusting SW signals to taste. I'd equate the unit's performance on SW to be the equivalent of a \$200 portable. Performance on MW and FM is very good, as is the cassette player, although I'd like to have Dolby noise reduction since I record my tapes with it. The search tuning works quite well, usually stopping dead on carrier, although it does stop on interference and spurious signals as well. This is particularly noticeable when a band is "dead" - the DC-777 will stop on ignition noise in such cases, although this isn't a problem when signals are present on a band. Since the unit is a single-conversion design, there are some image problems. For example, while listening to Radio Sweden on 21,500 kHz at 1530 UTC, I can simultaneously listen to a utility station on 22,900 kHz (two times the IF frequency of 450 kHz). I can also pick up images of local

broadcasters on the 60 mtr band during the daytime when there is no 60 mtr propagation, which is due to intermodulation in the front end.

OVERALL IMPRESSION

I have no regrets about having bought this unit and enjoy it thoroughly. Of course, it is the only option if you want an in-dash SW/cassette unit. The Icom R-100 and Kenwood RZ-1 are available but are designed for under-dash mounting and don't include a tape player. I bought the unit purely to listen to the major broadcasters and that's just what I do - BBC and R. Australia on the morning commute and BBC and R. Canada International on the way home. The major changes I'd like to see are a defeatable RF pre-amplifier stage to boost the sensitivity when needed, Dolby noise reduction and perhaps more memory channels. The Phillips DC-777 is even more attractive now that there's a legitimate U.S. distribution network.

Available now from The NASWA Company Store -

Shortwave Listening Guidebook by Harry Helms AA6FW The new bible for SWLing. Written in non-technical language, it covers equipment, antennas, propagation, station profiles, utilities, clandestines, QSLing etc. (\$16.95 + \$3 s/h NAM, \$5 elsewhere)

All About Ham Radio by Harry Helms AA6FW Written in a friendly, humorous style without the stiff formality, wordiness, and extensive math that makes so many other books on ham radio boring. (\$19.95+\$3 s/h NAM, \$5 elsewhere)

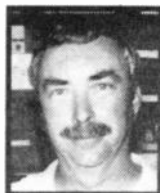
Both books are available now from The NASWA Company Store, 2641 S. Shields St., Philadelphia, PA 19142. All checks payable to NASWA.

WANTED: National NC46 in clean and good working condition. Trade back issues of FRENCH/Journal from 1979 to 1991. Tom Mooningham, P.O. Box 487, Maugansville, MD 21767-0487. Phone (301) 791-0834 after 5 pm EST.

WANTED: Service manual and/or Owners Instruction Manual for the Hammarlund HQ-180 AX or HQ-180 AC. Jerry Klinck, 43 Lein Road, West Seneca, NY 14224.

NASWA Portraits

Jerry Klinck
43 Lein Road
West Seneca, NY 14224



Hi to all and welcome to another "Portraits" column. As we here in the northeast approach the end of the "summer that wasn't", I am thankful that I have some great DX to look forward to, to soften the depression caused by the cool, wet weather. Shouldn't complain though, Andrew wasn't here!

Off we go to Spokane, Washington and a visit with NASWAN "Bob" Palmer. . . .

"It all began for me in 1936 when our family bought a Kadette BCB-only radio and my dad showed me that, at night, one could hear out-of-town radio stations. We ran a wire part way around the living room and heard all the clear channel stations, including WJZ in New York!"

"As things do, the thrill died as I grew older, but in 1949 when I was in college, I bought a radio with a shortwave band on it. Before the year was out I owned a National NC-33 receiver and was hearing hams from Brazil, Cuba and Costa Rica as well as R. PEKING, R. Moscow, R. Brazzaville, etc. My first QSL card was from HCJB, Brazzaville QSLed and I have one from R. InterAfrica in Tangier. (Anyone remember that one?) I was hooked."

"There were several more hiatuses in my listening, but I always came back. My best catches were during the early years of my first marriage when I had a 130 ft longwire, 35 feet in the air. I heard most of the Indos on the air then with that antenna."

"Over the years I've corresponded with and met some of the most knowledgeable DXers of yesteryear. August Balbi who REALLY WAS the 'Dean' of DXers back then, corresponded with me until his death and my first wife and I spent a pleasant evening with him in 1965 at his home. August had a reputation with some as sort of a sour apple, but he was a kind and gracious host when we visited." *[I knew August to be a super DXer and a kind and extremely supportive friend during my years running the ASWLC. I envy your having actually spent time in his home. ed.]*

"I visited Bill Flynn when he lived in Pittsburg, CA in 1958. I was really pleased when Bills' reports started appearing again. (Bill: Do you remember me?)"

"Receivers? Boy, I've owned and sold a couple of dozen in 43 years. Right now I use an R-5000, but secretly covet the Drake R-8 (once the bugs have been eradicated.) Far and away the best receiver I ever owned is one few will remember, the Hammarlund PRO-310. It had Hammarlund excellence written all over it! I sold it for a Collins 51J-1 and have regretted it to this day."

"In 1980 I married for a second time and hit the jackpot. Jenni is 105% supportive of radio listening. She herself is no slouch as a DXer, but seldom has time to do much tuning. She insisted that we attend ANARC 1981 in Thunder Bay, and we did. We met some really special people there. I attended ANARC 1985 in Milwaukee alone, at her insistence, and I'd sure love to catch one of the spring get-togethers at Kulpville, PA. Maybe someday!"

"Jenni and I do go to Portland, OR for the annual informal get-together there of radio enthusiasts. Our 'innkeeper' there is our good friend Bob Bodell, whose name should be familiar with some, as he did some editing a while back."

"In 1988 we moved up on the side of Spokanes' 'South Hill', to the neighborhood where I grew up. DX here is pretty good, but my antennas weren't until recently, when I found out that an MFJ-901B antenna tuner fed by a 15 ft piece of junk 93 ohm coax connected to a piece of plain plastic coated bell wire stapled to our back fence about 4 & 1/2 ft above ground makes a real good antenna. The ground here is solid rock a few inches below the surface, supposedly mineralized, so maybe that's the reason I'm hearing so well with it"

"I've always enjoyed whatever I did in SWL and though I'm not too active at the moment, at age 63 I know I'll always have an enjoyable hobby to occupy my spare time."

Well said, Bob, and thanks for sharing your story with us all. I must say I get the feeling that you and Jenni are special folks! Til next time, 73 and great DX!!

Listener's Library

Jerry Ervine
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Hidalgo, TX 78557

Thanks to everyone who has written and submitted contributions. Once my work obligations settle down I will compile your contributions for Listeners Library. Please bear with me. Thanks to Rich D'Angelo for his review of Gerry Dexter's new book. Till next month - 73

SECRETS OF SUCCESSFUL QSL'ING

The Complete Guide to Reception Reports and QSL Collecting - By Gerry L. Dexter

Reviewed By Richard A. D'Angelo

Possibly the most challenging, frustrating, and yet most rewarding part of our shortwave hobby is the collection of QSL's from international and domestic broadcasters. Unfortunately, learning the ropes through trial and error can be an expensive proposition. In 1986, NASWA member Gerry Dexter put together the first complete book devoted exclusively to the subject of collecting QSL's. That book not only filled an information void for the novice collector, it provided many techniques that veteran collectors never heard of before. With over 1,400 stations verified in his collection, the author certainly qualifies as an expert. Six years of additional research has lead to an expanded and revised second edition making SECRETS OF SUCCESSFUL QSL'ing a book that should be in the library of every hobbyist.

Over the years, Tiare Publications has issued a number of hobby titles that provide useful, important information. Besides getting the information together for publication, they have listened to complaints from hobbyists who demand full sized editions. The second edition of SECRETS OF SUCCESSFUL QSL'ing is a approximately 120 full sized pages - 8 1/2 x 11 inches in size. This full sized publication is easy on the eyes making

reading a breeze. The seventy-seven (77) pages of text concludes with a marvelous pictorial from the archives of ANARC's Committee to Preserve Radio Verifications ("CPRV") in which many great QSL prizes of the past are displayed to make the reader drool. CPRV Chairman Jerry Berg has put together some three dozen pages of radio history in this bonus section.

If you didn't read the first edition, the second edition is a must for any collector, or would be collector, of QSL verifications. If you did read the first edition, you will probably be amazed at some of the additional material added. Of special interest are the "war stories" which add quite a bit of color to the chase for rare verifications. The book not only is a good read but it is a valuable reference that should be on the shelf of every hobbyist.

The book consists of twelve chapters. Naturally, the basics are covered in detail. In addition, all the special techniques and tricks of the trade are covered as well. Make no mistake about it, this volume is complete. Over forty (40) years of QSL knowledge has been packed into this book. There is so much information about QSL'ing in this book that a reread will be mandatory over time as the hobbyist gains experience and finds himself progressing to more difficult challenges over time.

SECRETS OF SUCCESSFUL QSL'ing - The Complete Guide to Reception Reports and QSL Collecting is available from the Company Store (2641 S. Shields Street, Philadelphia, PA 19142 USA) for a special price to NASWA members of US\$11.95 plus US\$1.00 shipping and handling in North America (that's a total of US\$12.95), US\$3.00 elsewhere (or a total of US\$14.95).

NASWA Awards

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Howdy and welcome to October. This is a good news-bad news kinda time here. The bad news is that as I write this column, a tropical depression is passing over the area bringing heavy rain and wind. The good news is that the end of the hurricane season here means the beginning of the DX season and I have already been able to hear a few old radio friends. I hope that my life slows down enough this fall to allow plenty of radio time; I might even be able to add my own name to the prestigious list of award recipients that appear in this column. And speaking of the column, check out the latest folks to be wearing NASWA green on their walls:

John Arthur	Maple Leaf DXer 100 station upgrade/ Pirate DXer
John Fisher	Master China DXer ORTF DXer Emisora Nacional DXer Master Nigerian DXer
Steve Forest	Arab World DXer
Richard Hankison	Arab World DXer
Scott Helm	20 station upgrade/All American DXer 100 station upgrade/International Dx Listener
Vern Hyson	All American DXer Australian DXer
Brian Lawrence	Asian Continental DXer Master Pacific DXer Master China DXer 20 station upgrade/Master China DXer
Ben Krepp	South American DXer
Steve Martin	World Wide DXer
Jack Nibecker	North American Continental DXer
Nobuaki Takahashi	Master Papua New Guinea DXer All American DXer All Germany DXer Senior Time Station DXer
Barry Schwartz	All VOA DXer All Germany DXer All American DXer Ecclesiastic DXer International DX Listener

Featured Award of the Month

Lets take a closer look at one of the more unusual awards in the NASWA barn, the "All Continent 'QRP' Dxr." The QRP or low power end of the hobby is often reserved for a special breed of HAMS who attempt to work long distances with fractional watts of power. The same challenge is there, however, for the DX listener who is attempting to hear and verify a flea-powered transmitter from some far-flung part of the world. The NASWA QRP award requires that you verify a station in Africa, Asia, Europe, North America, Oceania and South America (no Antarctica) with the lowest possible power. The total wattage from these stations is then added up and must equal 50 kW or less. Awards are given for 50, 25, 10, 5 and 2 kW totals. Transmitter power is listed on some verification cards; if the wattage is not listed but is well known, then all is fine. The classic for North America, for example, is CKFX, Vancouver, with 0.01 kW. Experience suggests that Asia will prove to be the tough area, so keep your eyes open for low power test transmissions and the like. The good bets change as stations come and go, so the challenge is always there and available, even for new folks to the hobby. Is this an easy award to get? Since NASWA started the awards program, we have given 72 - 50 kW awards, 62 - 25 kW awards, 32 - 10 kW awards, 23 - 5 kW awards and only 12 - 2 kW awards. So what the heck, give it a try and see, as the song says, "how low can you go?"

Hardware Bits

by Alan Johnson

T2FD ANTENNAS - There has been renewed interest in the Tilted Terminated Folded Dipole antenna in the past several years. If you don't want to build your own, the Barker & Williamson Co. sells assembled units. The ASW-90 is a receive-only version at \$90 and the AC 3.5-30 is for transmitters up to 2 KW PEP, priced at \$198. Contact Barker & Williamson, 10 Canal St., Bristol PA 19007; (215) 788-5581 for dealer and technical information.

PALOMAR ENGINEERS - This company's Fall '92 catalog is out. Products include filters, loop antennas, pre-selectors and antenna baluns. They now offer a "longwire" balun to allow use of a coaxial feedline with a random-wire antenna. They also have a line of small baluns with a wide choice of transformation ratios to allow matching coax to various types of antennas. The catalog is free: Palomar Engineers, P.O. Box 462222, Escondido, CA 92046; (619) 747-3343.

KIWA FILTER UPDATE - The line of filter modules offered by Kiwa Electronics has been expanded to include 7.0 and 8.0 kHz bandwidths. Also new is the FMX Filter Module Switch which is a board and switching circuit which allows installation of two filter modules in receivers with a single filter slot. The filter modules are \$40 each and the FMX board is \$36. KIWA Electronics, 612 South 14th Ave., Yakima, WA 98902; (509) 453-5492/(800) 398-1146.

AM SYNC DETECTOR - Steve Johnston WD8DAS is offering an add-on synchronous detector kit for use with radios with 455 kHz IF's (range 400-500 kHz). The circuit is based on the IC that Sony uses for their sync detectors and includes selectable sideband capability. The detector is available as a kit for \$139 and fully assembled and tested for \$199. Some technical ability is required as the user must be able to determine where to hook the detector into his radio by reading the radio's schematic. An information packet is available for \$3 from Steve Johnston, P.O. Box 3420, York, PA 17402-0420.

Listener's Notebook

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

ABU DHABI - *Radio of the United Arab Emirates*, Abu Dhabi, noted on new 15265 with Arabic news 0315, 6 Sep. Also observed on 11710 with Arabic at s/on 2200, for North America, 9/12. (Bob Padula)

ALASKA - *KNLS*, Anchor Point, has introduced a new 16-note interval signal and is asking listeners to suggest a name for it. The "Chariots of Fire" theme was retired on 9/26. Listeners should write station manager Kevin Chambers at Box 473, Anchor Point 99556. No selection date has been set. *KNLS's* W92 sked follows: 7365 kHz, 0800-0900 in EE; 0900-1000 in RR; 1000-1200 in CC; 1200-1300 in RR. 7355 kHz, 1300-1400 in EE; 1400-1500 in RR; 1500-1700 in CC. 6150 kHz, 1700-1800 in CC. (Kevin Chambers and RMV on DXPL 8/29)

ALBANIA - The Council of Ministers has given authority to *Albanian Radio Television* to conduct talks and sign agreements with foreign state and non-state diffusive companies [as heard] for relays over ART facilities. (R.Tirana 8/23 via WBI 8/28)

Trans-World Radio has the rights to use two AM xmters in Albania. A contract signed 8/20 by TWR founder Dr. Paul E. Freed gives TWR three hours a day on Tirana's megawatt MW station on 1395 kHz. Eventually TWR plans to broadcast in Bulgarian, Romanian, Czech, Ukrainian, Serbo-Croat, Turkish and Russian between 2000-2300 UTC. This is the first contract TWR has ever signed with another station operator. It expires in 12/94 but is renewable. The xmters were designed and built in the USSR and installed by the Chinese. They are meticulously maintained. Broadcast time lost because of breakdowns is measured in seconds per year. (TWR release on Bonaire Wavelength 8/29) Then there are the stations where the staff can't count that high, so they measure down time in minutes. [df]

This schedule was compiled from monitoring observations following a reorganization of Radio Tirana's schedule on 3/1/92, and a further reduction in output in July & August. Radio Tirana has progressively reduced b/c output since the beginning of 1991. All HF frequencies are subject variation by up to 5 kHz.

To the Americas at 0000-0200 in Albanian on 11760 or 11745, 9760, 6120 kHz; 0130-0200 Spanish Am on 11840, 9580; 0200-0400 Albanian on 11745, 9760, 6120; 0230-0300 English on 11825, 9580; 0330-0400 on 11825v, 9580, 7170.

To Europe at 0400-0600 in Albanian on 7150, 5975; 0400-0430 German on 9530, 7105; 0800-1000 (unconfirmed) Albanian on 6185; 1200-1230 Italian on 7110, 5985, 1215; 1230-1300 German on 9530, 7105; 1300-1330 French on 9730, 7260; 1330-1400 Greek on 7110, 1215; 1400-1600 Albanian on 7270, 5985, 1215; 1430-1500 English on 9760, 7155; 1600-1630 German on 9530, 7105; 1700-1730 French on 11835, 9630; 1730-1800 Greek on 7270, 1215; 1800-1830 Turkish on 7155; 1830-1900 Italian on 7270, 6080, 1215; 1900-2100 Albanian on 9725v, 6170v, 1395; 1900-1930 Serbo-Croat on 7270, 6080, 1458; 1930-2000 German on 9530, 7155; 2030-2100 Serbo-Croat on 7270, 6080, 1458; 2030-2100 Spanish on 9530, 7245; 2100-2130 Italian on 7190, 6080, 1215; 2130-2200 French on 9730, 7260, 1395; 2200-2230 English on 11825, 9760, 1395. (WBI 8/28)

ANGOLA - The Angolan government party, MPLA, on 9/3 ordered the closure of two of the UNITA movement radio stations, considering them illegal. The MPLA, which distributes its propaganda program on national radio, also asked that airtime be taken away from UNITA. The government wants to finish with the Black Cockerel shortwave and FM stations, but has not been able to do so. (RDP Comercial, Lisbon, via WBI 9/11)

In a broadcast of 9/10 UNITA's Voice of the Resistance of the Black Cockerel asserted the MPLA of creating interference and noise or deliberate power cuts during UNITA's broadcasts in the city of Namibe, with the result that 90% of Namibe residents cannot listen to the UNITA broadcast because of the "sabotage". (WBI 9/18)

I'm currently hearing Luanda, Angola on the slightly adjusted frequency of 4960 with good signals after 2200. At this time the parallel frequencies are 7245 and 9535. Programming is in Portuguese. (Craig Seager, Australia, via Bruce MacGibbon, via Fidonet Shortwave Conference)

Vashkek Korinek in South Africa reports the Angolan regional *Emisora Provincial do Lobito* on 7151.7 kHz in the period 2033-2105. This item from Shortwave News, the monthly bulletin of the Danish Shortwave Clubs international. (Craig Seager, via Bruce MacGibbon, via Fidonet)

ARMENIA - Yerevan on 11920 kHz is heard in NZ at 2130, occasionally in English. They play a lot of jazz. A newscast in EE is heard at 2230. (AC on RNZI 9/17)

AUSTRALIA - In a letter from Marion Leiba, head of VNG's User's Consortium, writes that they hope to go on 2.5 MHz, using a vertical antenna & 1 kw "in about a month". Says the license is subject to international approval. Says the frequency is intended primarily for Sydney & nearby regions. (Ben Krepp, via Internet, via Dave Clark, via NU)

Radio Australia S-92 schedule:

25750 (D) 0800-0900 EE; 21740 (S) 0000-0030 FF, 0030-0100 EE, 0200-0730 EE; 21725 (D) 0900-1300 EE; 21590 (C) 0100-0900 EE; 21525 (D) 0200-0800 EE; 17880 (C) 0400-0500 CC, 0500-0700 EE; 17880 (D) 0000-0030 FF, 0030-0130 EE; 17795 (S) 0000-0030 FF, 0030-0600 EE, 2200-2400 EE; 17750 (C) 0000-0400 EE, 0700-0900 EE; 17715 (D) 0000-0030 EE; 17715 (S) 0100-0730 EE; 17670 (D) 0100-0700 EE; 17630 (D) 0700-0900 EE; 15575 (C) 2300-2400 CC; 15575 (D) 2200-2300 CC; 15530 (D) 0900-1230 Indo, 2200-0030 Indo; 15380 (D) 2300-2400 Thai; 15365 (S) 2200-0730 EE; 15320 (S) 2200-0730 EE; 15240 (C) 0000-0030 FF, 0030-0100 EE; 15240 (S) 0000-0030 FF, 0030-0830 EE, 2200-2400 EE; 15170 (D) 0900-1000 EE, 1000-1100 CC, 1100-1200 EE, 1200-1400 CC 13755 (C) 1300-1800 EE; 13705 (C) 2100-2300 EE, 2300-2400 Thai; 13605 (D) 2200-2400 CC; 13605 (C) 0000-0100 EE, 0900-1000 EE, 1000-1100 CC, 1100-1200 EE, 1200-1400 CC, 1400-1430 Cantonese; 11910 (S) 1700-2100 EE, 2100-0030 Indo; 11880 (S) 1600-2030 EE; 11880 (B) 0000-0030 FF, 0030-0800 EE, 2100-2400 EE; 11855 (C) 1900-2100 EE; 11855 (S) 1300-1630 EE, 2100-2330 EE; 11800 (S) 1300-1630 EE; 11720 (B) 0000-0030 FF, 0030-0800 EE, 0800-1100 Tok Pisin, 1900-2400 EE; 9770 (S) 0900-1230 Indo, 1230-1300 EE, 1300-1430 Viet, 1430-1530 EE, 2200-2330 EE; 9710 (S) 0800-1100 Tok Pisin, 1100-1230 EE; 9580 (S) 0800-2130 EE; 9560 (C) 0900-0900 EE, 0900-1230 Indo, 1230-1300 EE; 9560 (D) 1300-1430 CC; 9540 (C) 1200-1300 CC, 1300-1430 Cantonese; 9540 (S) 2100-2330 EE; 9510 (C) 0900-1000 EE, 1000-1100 CC, 1100-1200 EE, 1430-1800 EE, 2100-2400; 7260 (C) 1430-2100 EE; 7240 (B) 0800-1100 Tok Pisin, 1100-2100 EE; 7205 (C) 2100-2300 Indonesian; 7150 (D) 1300-1430 Vietnamese; 6080 (S) 0800-1100 Tok Pisin, 1100-1230 EE, 1700-2030 EE; 6060 (S) 1300-1430 CC, 1430-2130 EE; 6020 (S) 0630-0800 EE, 0800-1100 Tok Pisin, 1100-1300 EE; 6010 (C) 1800-2100 EE; 5995 (S) 0800-2130 EE.

Transmitter sites: (B)randon [10 kW] and (S)hepparton [100kW] serve Pacific & N Am. (C)arnarvon [300, 250 & 100kW] and (D)arwin [250kW] for Asia, ME & Europe. (Jerome Van Der Linden, on the Fidonet Shortwave Conference)

AZERBAIJAN - A report 9/12 on a Moscow TV channel stated that from 9/15 the *Voice of Nagornyy Karabakh* would begin broadcasting in Azeri from Stepanakert. An Interfax news agency report indicated the station had been set up by the State Defence Committee of the Nagorno-Karabakh Republic, and would broadcast once a week at 0800 on the 321 meter band. (WBI 9/18)

BELARUS - R. Mogilev heard at 0330 with a local program on 5430 kHz. (Ivan Cholikov, Bulgaria, on DXPL 8/29)

WBI cites a report from ITAR-TASS that the Belarus Ministry of Communications and Information Technology has a number of broadcasters interested in time on Belarus transmitters. These are said to include Radio Liberty, BBC and "broadcasting companies from America". A license will be granted only if two conditions are met. The first is to supply equipment for broadcasting on European frequencies, as this is not manufactured in a single CIS state. The second is - no politics! (WBI 9/18)

BHUTAN - While traveling in Southeast Asia, Marcel Roberts of Holland heard Bhutan testing on a Saturday on 5025 kHz during normal broadcast hours with news in English at 1415. From a published UN sked, he found out that United Nations Radio is now available twice a week via Bhutan,

at 1630 Mon and 1430 Thurs on 5025 kHz. UN Radio publishes a list of their broadcasts and how many responses they get at UN Hq. Bhutan is now ranked fourth on that list. (RNMN 9/17)

BOLIVIA - *R. Pio Doce*, I.Lallagua, 5948.7 kHz, heard in Japan at 0930 with music pgm in the Aymara language and ID; poor to fair signals. (Hideki Watanabe, Radio Nuevo Mundo [a Japanese DX club specializing in Latin America] on DXPL 9/5)

BONAIRE - *Trans World Radio* HF Transmitting Sked for S-92, D-92 & M-93 (kw), [azimuth]: 9515 0655-0940 PORT (50) [170] Brazil; 9535 0300-0400 ENGL (50) [336]; NA/Car; 9535 0405-0500 SPAN (50) [285] CA; 11815 1055-1300 ENGL (100) [327] ENA/Car; 11865 0955-1045 SPAN (50) [176] SA; 11885 0655-0940 PORT (100) [148] Brasil; 11885 0955-1030 GERM (100) [172] SA; 11930 0055-0230 SPAN (100) [327] NA/Car; 11930 0255-0400 ENGL (100) [327] NA/Car; 11930 0400-0500 SPAN (100) [327] NA/Car; 15345 1055-1300 ENGL (50) [336] ENA/Car; 15355 2325-2400 GERM (100) [172] SA; 15355 0000-0050 SPAN (100) [172] SA; 15375 2155-2400 PORT (50) [176] Brazil; 15375 0000-0050 SPAN (50) [176] SA; 15375 0055-0230 SPAN (50) [285] CA; 15445 2155-2315 PORT (100) [148] Brazil. (TWR)

BOSNIA - *Radio Bosnia-Hercegovina Studio Sarajevo* was heard with broadcasting already in progress at 1330 on 9/3 7240.6 kHz in upper side band plus carrier. The program was parallel 612 kHz. The SW frequency drifted, and when programming last heard at 1800 was on 7238.6 kHz. The transmitter remained on the air with an open carrier to 2100. An unmodulated carrier was also heard on the frequency 9/4. Despite rigorous searches, no further sw relays have been traced. (WBI 9/11)

BRAZIL - *Radio Cultura*, Foz do Iguassu, 6105.1 kHz, heard in Japan at 0944 with fair signals in PP with music; ID at 0957 mentioned MW freq of 820 kHz. (Hideki Watanabe, Radio Nuevo Mundo, on DXPL 9/5)

BULGARIA - The Sofia HS 1st net has a 5-min bulletin in French at *1210* giving water levels on the Danube river, carried by 7670 and 11660 kHz. (Ivan Cholikov, Bulgaria, on DXPL 8/29)

The recent frequency managers' meeting at Evesham, UK, produced some odd results for the Bulgarian SW service's W92 skeds. Sofia has agreed to use 250 kw on 6210 kHz at 1900-2200, ex 6160 kHz. This frees up Vienna on 6155 kHz. Sofia also agreed to use 100 kw on *6220* kHz from 1330-2200, ex 6135 kHz. Sofia was also authorized 100 kw on *6230* kHz from 1530-2200, ex 7170 kHz., a Russian channel. (Andy Sennitt, RNMN 9/10)

Radio Sofia introduced a new sked on September 6 which includes the following English programs: 0000-0045 9700, 11720 and 15330 for North America; 0300-0430 9850, 11720 and 15160 for North America; 1100-1230 11630 for Australia and South East Asia; 1730-1900 9700, 11720, 11765, 15330, 17780 and 17825 for Europe, the Middle East and Africa; 1945-2030 11765, 17780 and 17825 for Europe and finally, from 2145-2315 on 9700, 11720 and 15330 for Europe and North America. Programming will be 1 hour later from September 27. Of special interest is the service at 1100 for Australia, a new target area for Radio Sofia, if I'm not mistaken! (Rumen Pankov via Craig Seager, via Bruce MacGibbon, via Fidonet)

Sofia noted on new 5895, Serbo-Croatian 2025 9/13. (Bob Padula)

CHINA - The Ministry of Radio, Film and Television, and the Propaganda Department of the Shanghai Municipal CPC Committee, recently approved the establishment of the Shanghai Dongfang Broadcasting Station and the Shanghai Dongfang Television Station, both of which are independent legal entities. The two stations are registered in Pudong. The radio station is to begin service on 10/28, with the television station starting on 1/1/93. (WBI 9/18) [No indication if shortwave. df]

Hainan recently built its first commercial station, known as the Hainan Economic Radio Station. (WBI 9/18) [No indication of frequency. df]

COOK ISLANDS - Cook Islands Prime Minister Sir Geoffrey Henry has warned staff of the Cook Islands Broadcasting Corporation, the CIBC, that they face the sack if they don't ensure the broadcasting of parliamentary proceedings. This follows the non-broadcasting of parliamentary proceedings last week due to a technical fault. Sir Geoffrey says under parliament's rules all debates have to be broadcast. He says CIBC staff are paid to broadcast parliamentary proceedings and members of parliament expect good service. Sir Geoffrey says CIBC's entire staff share responsibility for the quality of broadcasts. (RNZI 9/1, via WBI 9/4)

COSTA RICA - *Radio for Peace International* heard 0500-0800 9/10 in EE on new 7385 kHz SSB. Also heard // 7375 kHz AM with promo at 0800 followed by SS at 0805. Station IDs do not mention 7385. Either this is a short-duration side-by-side test of SSB vs. AM or RFPI is behind time

with its recorded IDs. Heard on 7375 with World of Radio at *0300 and RFPI Mailbag at *0330 Wed 9/9. Programs were late because of spots promoting the fifth-birthday phone-in. (Mike Fern--CA)

Reception reports for RFPI should be sent to P.O. Box 88, Santa Ana, C.R. Requests for program schedules go to P.O. Box 10869, Eugene, OR 97440. The difference in round-trip mail time is about four weeks. RFPI's programming was affected by Hurricane Andrew because Miami is a major center for mail transshipment to Costa Rica. Several programs were delayed by power and transport interruptions. (Jim and Debra Latham on RFPI Mailbag 9/9) [RFPI filled in at 0230 with a three year old interview with a Congresswoman on environmental issues.--mf]

As of 9/10 the only *Adventist World Radio* freq I am hearing is 11870 kHz in the evenings. No sign of 5030, 6150, 9725, 9775, 13750 or 15460 here between 0000-0400. (Mike Fern--CA)

CUBA - *Radio Habana Cuba* has popped up on 9655 kHz from *0000-0500; 0000-0200 in SS, 70230-0300 FF, 0330-0400 Creole, 0400-0500 EE. The current EE sked as I understand it (which isn't too well because Havana's clocks aren't working right): 2200-0500 on 11950 kHz; 0000-0200 on 13660 kHz SSB; 0200-0430 on 13710 kHz; 0400-0500 on 9655 kHz. (Mike Fern--CA)

Arnie Coro at RHC sent an "E-mail QSL" for an E-mail rpt on their SSB xmsn on 13660, "the first ever QSL card sent from RHC to a listener via E-mail." Full data veri statement (except time) and some personal comments. Promised to also send regular QSL via mail. One month, via a California DXer, then to Tom Sundstrom, then to JB. This xmt is 30 kw. Their E-mail address is: radiohc@tinored.cu. Something different. (Jerry Berg)

CZECHOSLOVAKIA - Prague's English sked thru 9-26: 0600-0630 on 6055, 7345, 9505, 11990; 0730-0800 on 17725, 21705; 1030-1057 on 6055, 7345, 9505, 11990, 15355; 1700-1727 on 5930, 6055, 7345, 9605; 1830-1857 on 6055, 7345; 2000-2027 and 2100-2130 on 5930, 6055, 7345, 9605; 0000-0027 on 7345, 9580, 11990; 0100-0130 on 5930, 7345, 9580; 0300-0330 on 7345, 9810, 11990; and 0400-0430 on 7345, 9810, 11990, 13715, 15355. Transmitter sites are as follows: Litomysl is on 6055, 7345 (0000-0027, 0100-0130, 0300-0330, 0400-0430), 13715, 17725, 15355 (1030-1057); Velke Kostolany is on 7345 (1700-1727, 1830-1857, 2000-2027, 2100-2130), 9505, 9580, 9810; Rimavska Sobota is on 5930, 7345 (0600-0630, 1030-1057), 9605, 11990, 15355 (0400-0430), 21705. (Jerry Berg)

Prague noted on new 5920 carrying HS relay 2000-2015* in Czech/Slovak, 9/10. (Bob Padula)

DOMINICAN REPUBLIC - A new station, R. Cima Ciento, has been heard on 4962.2 kHz nightly since 9/11 with continuous salsa and popular dance music, from as early as 2345 till after 0500. There's little other than loud slogans between songs, e.g., "Ritmo Caliente", "La Estrella", and "La gran cancion del Sabado". There's a GMT - 4 time check at the top of the hour. Because QRM seemed to swallow any spoken words, it took nine days before I nailed down what this was. (Jim Renfrew, NY)

R. Cima, Santo Domingo, 4962 kHz, a new one on SW, hrd on 9/14 at 2313 to abrupt 2330 s/off. Hrd again on 9/15 and IDed when heard from 2230 to past 2400. Mostly upbeat D.R. mx, ads, promos -- "Cien-Punto-Cinco [100.5] FM," "Cima, Cien," "Radio Cima, FM y onda corta," and "Radio Cima, FM cien, y ahora tambien en onda corta, 4960, banda de 60 metros, sintonizan." Good signal, with frequency varying continuously within about a 30 Hz range. Also hrd at checks at 0500 and 0815, so this may be 24 hrs. [Ran all night Friday, 9/25-26, while I put this issue of LN together. - df] At 0438 on 9/17 they must have decreased their power because their signal level dropped way down; but back up to normal level at 9/18 0200 check. This must be the one listed as 100.5 in the FM section at the end of the WRTH Dominican Republic section. [How do you read the WRTH FM entries anyway? Do the numbers before the ")" refer to the corresponding number in the MW and SW station listings? There's no apparent correlation between the names of the FM stations and the MW and SW stations corresponding to an FM station's ")" number.] (Jerry Berg)

ECUADOR - R. *Nacional Espejo*, Quito, has given up 4680 kHz for its official freq of 4880 kHz. (RMV/QLB/DXPL 8/29) [The taped ID in the HCJB library said 4695 kHz. How old were you when...--mf]

HCJB's DX Party Line held two phone-ins 9/12 and 9/13 to celebrate the 50th wedding anniversary of Helen and Clayton Howard. Clayton Howard was presenter of the DX Party Line for 20 years. Mrs. Howard made frequent appearances on the show. The 9/12 phone-in was aimed at Europe and the South Pacific. The 9/13 phone-in, for North America, began at 0230 and lasted two full hours. The Howards called in from their Florida home (and were lucky to get through). Calls to the second show came from the U.S., Canada, England, New Zealand and Australia. The Howards' son Chuck called from Ecuador where he lives. The beans nearly got spilled before the shows (which is why advance notice of the phone-ins could not mention their reason for being). Rich McVicar and Ken MacHarg were the presenters. Three U.S. callers were completely new to SW and DXing. HCJB made tapes of both phone-ins. Rich and Lisa McVicar, who will be on furlough in

October, will deliver the tapes to the Howards at their home en route. (Mike Fern--CA) The broadcasts were 9/12 at 0730-0830 on 11730 kHz, and 9/13 at 0230-0430 on 9745 kHz. Heard here at both times. I called at 0230 and got through after just a couple of rings. They're issuing a special QSL for these programs. (Jerry Berg)

Radio Quito operates 1035-0500 on 4920 & 760 kHz. It has 5 minute news bulletins on the hour & half-hour, as well as major news shows at 0330-0430, 1100-1330 [that's what it says - df], 1700-1730 and 2300-2330. (WBI 9/4)

EL SALVADOR - *Radio Venceremos* announced 8/21 it had been granted legal status. A TV report in San Salvador gave the authorized frequency as 100.5 MHz FM. (WBI 8/28)

ETHIOPIA - *The Voice of the Broad Masses of Eritrea* was first observed as a clandestine station on 8/11/80. It supported the Ethiopian People's Liberation Front, hostile to the then-government of Ethiopia, and claimed to broadcast from liberated territory.

Following the collapse of the Mengistu regime in Addis Ababa in May 1991, the EPLF took control of Eritrea and established a Provisional Government of Eritrea. As part of this move, the Voice of the Broad Masses of Eritrea took over the radio in the Eritrean capital, Asmera, which had been operated as a regional station of the Voice of Ethiopia. Since 7/1/91 all VOBME broadcasts have come from Asmera. Identification in Amharic is *Yeh be Asmera Ketema Yemigegne Yesifiw Yeretrea hebz demis Yeamarigna Agelgilot new*.

The station operates on 7380, 7020, 3940 and 945 kHz as follows: 0330-0400 Su/Tu/Th in Kunama, Mo/We/Fr/Sa in Afar; 0400-0500 in Tigrigna; 0500-0530 in Tigre; 0530-0630 Arabic; 0630-0700 Amharic; 0900-1000 Tigrigna; 1000-1100 Arabic; 1400-1500 Arabic; 1500-1600 Tigrigna; 1600-1630 Su/Tu/Th Kunama, Mo/We/Fr/Sa Afar; 1630-1700 Amharic. (WBI 8/28)

VOBME noted on 7380 at *0327 just about every night with distinctive s/on music. Talks and music till it fades around 0400. Decent signal & a little better than 7020, which is also regular. (Jerry Berg, MA, via NU)

The Voice of the Tigray Revolution (VOTR), which broadcasts in support of the Ethiopian People's Revolutionary Democratic Front, now announces that it is broadcasting from Mekele, the capital of the Tigray region in northern Ethiopia. Until recently the station has announced it was broadcasting from Addis Ababa.

One of VOTR's sister EPRDF stations, the *Voice of the Broad Oromo Masses (VOBOM)*, continues to announce its location as Addis Ababa. The other EPRDF radio, the Voice of the Ethiopian People for Peace, Democracy and Freedom (VEPPDF) has not announced its location recently. (WBI 9/18)

GERMANY - *Deutsche Welle* is very happy with the Russian xmtrs it leased last year, because they are closer to the target areas. The only problem is with the modulation feed, because the modulation [land line?] network the Russians are operating is so complicated.

Deutsche Welle is upgrading its relay base at Sines, Portugal, by adding two rotatable curtain antennas. The fixed antennas at Sines point at Eastern Europe. The new antennas, to be ready by 1/1, will serve W. & S. Africa and the Americas. (Peter Senger, DW RF dept., on RNMN 9/10)

Deutsche Welle plans to expand its satellite TV operations to the Americas in November. At present it has 90 min in GG and 30 min in English. 30 min in Spanish will be added and they will buy time on a satellite serving the Americas. Programs will be repeated several times a day. At the end of the year they may add a third satellite serving Asia. The problem is a shortage of space on AsiaSat 1. DW may try time-sharing with a third party who is not making full use of the time he leases. The Asian satellite may also be used for program distribution to ground stations. DW began satellite broadcasts in April. By the end of May it had received 400 letters (a lot for that medium) not just from Europe but from all over the world. DW's signals will not be scrambled and will be free for listening and rebroadcasting, but broadcasters must sign a contract because of copyrights on program content. (Peter Senger and JM on RNMN 9/17)

Suedwest Rundfunk in Baden-Baden on 7265 kHz heard in NZ with ID and news in GG. (AC on RNZI 9/17)

GUAM - Typhoon Omar, which hit Guam on 0400 8/28, shut down two commercial AM stations. One lost its tower. Trans-World Radio's KTWG was the only AM station without serious damage. KTWG was off the air at least one day because the road to its SW xmtr site at Merizo was closed by mudslides and flooding. No staff members were injured. Several staff members had water damage at their homes, from the rain and from sea water entering second-story apartments on the shore. Guam's cable service lost its satellite dish. (TWR in-house dispatch quoted by Chuck Roswell on Bonaire Wavelength 8/29)

September 4 was the 15th anniversary of *Trans-World Radio Guam*. KTWG, with 10 kw on 801 kHz, was the only station [as heard] remaining on the air the week of 8/30 at half power after Typhoon Oar tore thru Guam. KTWR's four SW xmtrs and several curtain antennas were damaged but operations continued through 9/4. The xmtr building was flooded because a culvert draining the antenna field was blocked. KTWR's own a.c. generators sustained some water damage and may be taken out of service for needed repairs even if Guam's regular power system is not restored soon. The SW antenna are in use but will require inspection for wind damage. (TWR internal dispatch quoted by Chuck Roswell on Bonaire Wavelength 9/5)

Greg Scott, of Adventist World Radio Asia advised me that the typhoon which hit Guam on 28 August was the worst for some 16 years. Extensive damage was caused to KSDA's antennas and feeders, and the transmitting plant and building were seriously affected by high humidity, and no transmissions were possible. Local power to the station was cut, and at the time, KSDA's emergency power generator was not operational. The generator was put on line on 6 September, but both transmitters failed to function. Latest advice from the station was that it hoped to be back on the air by mid-September. Following a suggestion from us, KSDA hopes to introduce an additional release for DX-Asiawaves shortly, within the 0700-0900 period, on weekdays, when there is spare transmitter capacity. (Bob Padula, ADXN)

HONDURAS - About 200 U.S. Peace Corps volunteers and some (U.S.?) missionaries began leaving Honduras 9/5 after receiving death threats from UNID leftist groups. (La Prensa of Honduras quoted on HCJB English news at 0230 9/6 via mf)

INDONESIA - *RRR Serui* rarely reported 41 meter band outlet of 7173.1 has been observed by Tsutomu Kito of Japan in the period 1555-1612 including a relay of the news bulletin from Jakarta at 1600. Serui is a fairly easy catch on its 60 meter band outlet 4607, best after 1000. (Craig Seager, via Bruce MacGibbon, via Fidonet)

Also somewhat rare is *RRR Fak* on 7232 thought to be the one heard by David Vitek of Adelaide up until sign-off at 0655. (Craig Seager, via Bruce MacGibbon, via Fidonet)

IRAQ - *The Voice of Rebellious Iraq* was noted 9/7 on new 1590 kHz around 1630 gm. It continues to announce 1431 kHz and 6.3 MHz. AT 1830 it was also heard on 8080 kHz with Arabic news, followed by Kurdish to 1910. (WBI 9/11)

ISRAEL - *The Voice of Israel* reported 9/15 that a survey conducted by Swiss experts appointed by the High Court of Justice, and submitted to the National Commission on Planning and Construction, found that no harm was expected to come to the migratory birds as a result of the emission of heat and radiation from a relay station in the Arava. The maximum number of birds that might be affected on any given night would not surpass 30, even during the peak of the migratory season. The Committee will now have to decide whether to give the VOA [and BIB] project the go ahead. Re'ueven Yardor, head of the project's directorate, says the last obstacle delaying the establishment of the relay station has thus been removed. VOI reported 9/16 that the Society for the Preservation of Nature questioned the findings of the survey. (WBI 9/18)

Kol Israel Shortwave Transmission Schedule 9/5 - 11/1: Hebrew (BET) 0400-0455, English/French 0500-0530, Hebrew (BET) 0530-0610, all on 11588 to NA/Eur. Hebrew (BET) 0615-1050, EE/FF 1100-1200, Hebrew (BET) 1205-1355 on 17543 to NA/Eur. Yemenite Mo-We & Thur 1330-1355 on 15640 to Yemen. Russian Su-Th 1430-1655 (Tat Su/We 1500-1515) on 11587, 15640 & 17590 to Eur/Russia/NA. Russian Fri/Sat & Jewish holidays or holiday eves at 1400-1430 & 1500-1555 to Eur/Russia/NA on 11587, 11603, 15650, 17575, 17590. Bucharian 1430-1445 on 11603 to Asian Russia. Georgian 1445-1500 on 17575 to NA/Eur. Persian (Su-Th) 1500-1555 on 15640 to Iran & Central Asia. English (Su-Th) at 1400-1425 11587, 11603, 15640, 15650, 17575, 17590, to NA/Eur/Asia/ANZ. Russian 1600-1700, Yiddish 1700-1725, Romanian 1725-1745, Hungarian 1745-1800, all on 9435, 11587, 11603, 11675, 15640, 17575, to Eur/NA/Russia. Yiddish 1800-1830, Russian 1830-1900 on 9435 & 11603 to Eur/NA. English 1800-1815, French 1815-1830, Romanian 1830-1845, Spanish 1845-1855, on 11587, 11675, 15640, 17575 to Eur/NA/Afr/Russia. Russian 1900-1955 on 9435, 9845, 11587, 11603, 11675, 15640 to Eur, NA, Russia. English 2000-2030, French 2030-2055, on 9435, 11603, 11587, 11675, 15640, 17575 to NA, Eur, Africa, Russia. Russian 2100-2125 on 7465, 9435, 11585, 11603, 11675, 15590 to Eur, NA, Russia. French 2130-2200, Spanish 2200-2230, English 2230-2300 on 9435, 11587, 11603, 11675, 15640, 17575 to Eur, NA, SA, Russia. Easy Hebrew 1725-1745, Ladino 1745-1800 on 11587 & 11675 to Eur, NA, Russia. Hebrew (BET) 0400-2300, with news each hour, on 9388, 13753, 15615 to Eur, NA, Russia. Arabic 0400-2215 on 675, 738, 1026, 5900, 5915, 9815, 15095, 15480. BET is Reshet Bet, domestic radio service. Kol Israel phone numbers: Director I.&C 972 2 389051, Fax 972 2 388821. Address is Israel Broadcasting Authority - Kol Israel, PO Box 1082, Jerusalem 91010, Israel. (Harry Bloomberg on Usenet)

ITALY - Finn Krone's DX News program, formerly carried by AWR Sines, Portugal, is now heard on AWR Forli at 0615 Sun on 7205 kHz and at 0915 on 7230 kHz. It might be carried on AWR Russia in the future. (DSWCI via DXPL 8/29)

Adventist World Radio, Forli, heard in NZ at 0400 on 11900 kHz with Romanian until 0430; sign off in EE, FF and GG, asking for reports. (AC on RNZI 9/17)

Italian Radio Relay Service has issued a new sked: 0730-1000 Mon thru Fri, 1900-2200 daily, also to NA 0200-0300; irregularly 1100-1700, all on 7125 kHz. (AC on RNZI 9/17)

JAPAN - **Radio Japan** broadcast schedule for S-92 (9/6 - 10/31):

GENERAL SERVICE: Japanese 0200-0300, 0400-0500, 0600-0700, 0800-0900, 1000-1100, 1200-1400, 1600-1700, 1800-1900, 2000-2100, 2200-2300, 0000-0030; **English** 0300-0400, 0500-0600, 0700-0800, 0900-1000, 1100-1200, 1400-1600, 1700-1800, 1900-1930, 2100-2200, 2300-2400, 0100-0200.

To Southeast Asia at 0100-0900 17810*; 0500-0600 21610; 0800-1000 21610; 0900-1400 11815*; 1400-1500 11815; 1600-1700 7210; 1600-1800 11815*; 2000-2100 11840*; 2000-0030 15430; 2100-2200 11840; 2100-0030 17810*x. To the Asian Continent at 0100-0200 15195*; 0100-0300 17835; 0400-0900 17765*; 0900-1000 11840; 1000-1200 11840*; 1300-1400 7210; 1600-1700 9580; 1600-1800 7140*; 2000-0030 11815*x; 2200-0030 15195. x = (Until Oct 30: 2200-2400 Relay Domestic Radio 1)

To South Asia at 0000-0030 17845*; 0100-0200 11840S; 0100-0300 17845*; 1300-1500 9535S; 1800-1900 9535*. To Central America at 0200-0300 15325F. To North America at 0100-0300 5960C to 10/25; 0200-0400 5960C from 10/26; 0200-0700 15230; 0400-0700 17825*; 1000-1200 6120C to 10/24; 1100-1300 6120C from 10/25; 1200-1930 11865*; 1800-1900 17825; 2000-2100 17825*.

To South America at 0000-0030 21635G; 0200-0300 on 15350F; 0800-0900 on 9675F 11875*; 1000-1100 15350F; 2200-2300 on 9685F.

To Oceania at 0500-0900 on 17860; 1800-1930 on 9640 & 11850; 2000-2100 on 15280; 2000-2200 on 17890.

To Europe, Middle East, and Africa at 0400-0500 on 9645G 17820S; 0400-0500 9695B 9770B to 9/26; 0400-0500 on 5960B & 6030B from 9/27; 0500-0600 on 9695B & 9770B to 9/26; 0500-0600 on 6085B & 7280B from 9/27; 0600-0800 on 9670B & 9770B to 9/26; 0600-0800 on 5970B & 6025B from 9/27; 0700-0800 on 15405*; 0700-0900 on 21575G; 0800-0900 on 21640G; 1500-1600 on 15355G; 1600-1700 on 21700G; 1700-1900 on 17775S; 2000-2100 on 6025B to 9/26; 2000-2100 on 6010B from 9/27; 2100-2300 on 11925G; 2200-0030 on 6025B & 6160B to 9/26; 2200-0030 on 6050B & 6125B from 9/27.

REGIONAL SERVICE: Arabic to ME/NAF at 0330-0400 on 17820S; 1930-2000 on 9620* 17775S. Burmese to SEA at 1115-1145 on 15300 & 17820. Bengali to SAs at 0200-0230 11840S; 1530-1600 9535S & 11880. Chinese to As at 0300-0400 on 17765* & 17835; 1130-1230 on 7210, 9580; to SEA 1245-1345 on 15300; to As/SEA at 1500-1600 on 7210, 9580 & 11840. **English** to the Americas & Hawaii at 0300-0330 on 17825* & 21610; to CA at 0300-0330 on 15325F; to Oceania 0900-1000 on 15270 & 17860. French to Europe at 0630-0700 on 15355G & 15405*; 2130-2200 on 6080B (#1); to ME/NAF at 1830-1900 on 9620*. German to Eu at 0600-0630 on 15355G & 15405*; 0830-0900 on 9670B & 9770B; 2100-2130 on 6010B (#2). Hindi to SAs 0230-0300 on 11840S; 1600-1630 on 9535S & 11880. Italian to Eur at 0545-0600 on 15355G & 15405*; 2015-2030 15340G. Indonesian to SEA at 1015-1115 on 15300 & 17820 2300-0000 on 11840 & 17785. Japanese to the Americas & Hawaii at 0200-0300 on 17825* & 21610. Korean to Asia at 1030-1130 on 7210 & 9580; 1400-1500 on 7210 & 9580. Malay to SEA at 1145-1215 on 15300 & 17820. Persian to ME at 1900-1930 on 9620* & 17775S. Portuguese to SA at 0900-0930 on 9675F & 11875*. Russian to Europe at 0500-0530 on 15355G & 15405*; 0800-0830 on 9670B & 9770B; 1930-2000 on 6010B (#2); to As at 1230-1300 on 7210 & 9580. Swedish to Eur at 0530-0545 on 15355G & 15405*; 2000-2015 on 15340G. Spanish to CA/SA at 0330-0400 on 15325F, 15350F, 17825* & 21610; at 0930-1000 on 9675F & 11875*; to Europe at 2030-2100 on 15340G. Swahili to E.Africa at 1715-1745 on 7180G & 9535*. Thai to SEA 1215-1245 on 11875*, 15300 & 17820. Urdu to SAs at 0300-0330 on 11840S; 1630-1700 on 9535S & 11880. Vietnamese to SEA at 1345-1415 on 11875* & 15300; 2230-2300 on 11840 & 17785.

Notes: Frequencies marked * = Yamata, Japan, 300 kw; G = Moyabi, Gabon, 500 kw; F = Montsinery, French Guiana, 500 kw; C = Sackville, Canada, 250 kw; S = Ekala, Sri Lanka, 300 kw; B = Skelton, U.K., 250 kw; others are Yamata, Japan, 100 kw. (#1): Starts Sep 27; till Sep 26 on 6110 kHz (#2): Starts Sep 27; till Sep 26 on 6025 kHz. (Toru Yamashita, of Radio Japan's Korean Service)

KAZAKH - R. Alma Ata home service, 11950 kHz, heard in Bulgaria at 0830 with classical music. (Ivan Cholikov, Bulgaria, on DXPL 8/29)

Kazakhstan has offered to relay broadcasts of the Voice of Israel to Asia. (Report on the Voice of Israel, 9/9, via WBI 9/18)

KIRIBATI - *R. Kiribati* has moved from 14917 to new 17440 kHz. (Paul Ormandy, NZ, in Play-DX via Andy Sennitt on RNMN 9/10) Kiribati Telecom has replaced the rhombic antenna with a log-periodic (which requires less space and less maintenance). Sign-on is at 0600 with BBC news; 0609, local news; 0615, music; 0630 Pacific Islands news. The transmitter also handles commercial traffic which limits time for broadcasts. Best reception in NZ is from 0600-0830. The power is now 500 watts. (AC on RNMN 9/10)

LAOS - *National Radio of Laos*, Vientiane, noted 9/16 on new 5980 kHz, at 0030; poorly modulated and dual 6130 kHz. (WBI 9/18)

Regional stations on shortwave from Laos are rather infrequently heard these days and most are thought to be inactive, their aged transmitters beyond repair. The outlet at Luang Prabang is a notable exception, recently heard as early as 1045 on 7163 and traced through until past 1200 when it takes a news relay from the capital, Vientiane. Vientiane itself has regular programs on 6130 in the same time period, despite erroneous reports originating in North America suggesting it had been off the air for a while. (Craig Seager, Australia, via Bruce MacGibbon, via FidoNet)

LITHUANIA - *Radio Vilnius* was still using its old frequencies (I heard 15580 and 13645, weakly) on Saturday. This surprised me as frequency changes used to occur at 0200 Moscow Time (2300 UTC in the summer). I thought perhaps that the changes were not going to occur. Because I went for a drive yesterday with my father, I set my recorder to catch 15580, but it got nothing but noise.

Today, I found Radio Vilnius on the frequencies they had predicted would be used--17690, 17605 (strongest) and 9530 (underneath another station, perhaps Spain). 17605 is slightly delayed compared to the other frequencies and thus is probably the transmitter that was used for 15580 for the past six months. Radio Vilnius had announced a while back that 15580 was coming from Khabarovsk and that that site was out of order. This was wrong as I heard the announcement on 15580! I have noticed that transmitter is often off the air on Tuesdays. (Stan Slonkosky, via Genie)

MOLDOVA - *R. Moldova International*, Chisinau, was heard irregularly (during July?) from 1830-1900 on 13645 and 15305 kHz. (Weltweit-Horen, Germany, quoted by Gabriel Ivan Barrera on RAE 9/3) [Both freqs were registered for Russia last year in WRTH 92, 13645 at Kazan and 15305 at Starobelsk. --mf]

MONGOLIA - *Radio Ulan Bator* shows these English transmissions: 0910-0940 to Oceania on 12015 & 11850; 1200-1230 (Mo/Th/Sa) to the Far East on 12015 & 11850; 1445-1515 to South Asia on 13780 & 7260; 1940-2010 to Europe on 11850 & 11790; (Francis Toy, on FidoNet's Shortwave Echo) *R. Ulan Bator* is being heard in Europe from 1200-1230 on 11850 and 12015 kHz; from 1335-1405 on 7260 and 11780 kHz; from 1940-2010 on 11790 and 11850 kHz. Also heard signing off at 0940 on 11850 and 12015 kHz. (?Rolatash Kawari, Italy, on DXPL 8/29)

NETHERLANDS - The Board of Governors of Radio Netherlands decided at the end of August to hire air time on xmters in Russia. Last year a proposed joint venture with the BBC to build a relay base in Thailsna was turned down by the Dutch government. (RNMN 9/10)

NEW ZEALAND - The W92 sked of Radio New Zealand International effective 10/4 is: 1650-1849 Sun thru Fri on 9675 kHz; 1850-2138 Sun thru Fri on 15120 kHz; 2139-0658 daily on 17770 kHz; 0659-1207 daily on 9700 kHz; 1208-1649 irreg on 9510 kHz. (Adrian Salisbury, RNZI, via Bruce MacGibbon on RJMR 8/30)

NORWAY - *Radio Norway* jumps to the 11 meter band beginning 9/27 in its transmission to Europe and West Africa -- 15270 becomes 25730 at 1300 UTC. (Jim Frimmel, TX, via FidoNet Shortwave Echo)

Radio Norway International is to cease weekend broadcasts in EE on 12/31, according to its published W-92 External Service sked. Grundt Kraus-Dahl is an RNI producer.

JM: Why stop now?

GK-D: It's been quite a surprise to us too. The program just before Christmas on 1314 kHz was an experiment and we have no plans of going onto MW. This summer we had notice from the Norwegian Foreign Office that a grant which made possible the second day of EE programs would be withdrawn as from 1/1/93. That did come as rather a shock.

JM: But the decision may not be final if there's sufficient reaction from the audience. Bearing in mind the weekend-only nature of the EE service, an annual postbag of 10,000 letters is evidence that someone's listening.

GK-D. We have not given up all hope. We have had programs in EE from Norway in fact since the Olympics in 1962. They have been on the air once a week on Sundays; those were financed by the Norwegian B/C Corp. (NRK). In 1990 we got the support from the Foreign Office which made it possible for us to broadcast on Saturdays also. The situation now in the NRK is quite different. Competition is a lot stronger; the principle is that license fees should be used for Norwegian listeners and not for a foreign audience. That means that the whole question of broadcasting in foreign languages has come up.

JM: The EE airtime will simply be replaced with Norwegian-language material. NRK has no plans to stop its service for Norwegians living abroad, which dates back to the days when the Norwegian merchant fleet was very powerful. Radio Norway International hasn't started a letter-writing campaign yet. No doubt that'll be launched this weekend (9/5). But seeing as the finance comes from the Norwegian government--I'm speaking personally now--I guess if you want to see Norway keep broadcasting in EE, a letter to the Norwegian Embassy in your country may have more effect. (RNMN 9/3)

The Democratic Voice of Burma, broadcasting from facilities of Radio Norway International, was to extend its broadcasts to 55 minutes from 9/18, the 4th anniversary of the military coup in Burma. The transmission will be 1430-1525 on 17840 kHz. (WBI 9/11)

PALAU - *KIIBN*, 9830, sked penned in on QSL.: 11900 at 2200-0300 in CC, 0300-0530 (Sunday 0300-0730) in EG; 9830 at 1100-1530 in CC and Vietnamese. (Jerry Berg)

KIIBN, The Voice of Hope for All Asia, Koror, changed its program and freq skeds 9/14 because of propagation problems. [See Russia] *KHBN* now operates on 9830 kHz only, from 2000-0100 and 0800-1530. The revised language blocks are: 2000-2330 CC, 2330-0100 EE, 0800-1200 CC, 1200-1430 EE [handy for U.S. DXers], 1430-1530 Vietnamese. (Martin Gallardo, High Adventure Ministries, via Mike Fern)

PERU - *R. Ancash*, Huaraz, 4991 kHz, heard with good signals at 0337 with ID promoting MW freq of 1190 kHz. [WRTH 92 says 0900-0500--mf]

La Voz de San Antonio, Bambamarca, 6630 kHz, heard with fair signals at 0339 with music and time check. [Unofficial, no sked in WRTH--mf] (Xavier Gonzales Fischer, Aguascalientes, Mexico, on DXPL 8/29)

R. Concordia, Arequipa, 6141.3 kHz, heard in Japan at 0945 with Peruvian folk music; ID as "Concordia, la diferente." Poor signals. (Hideki Watanabe in "Radio Nuevo Mundo" on DXPL 9/5)

R. Ondas del Rio Mayo, Nueva Cajamarca, 6803.4 kHz heard in Japan at 1008 with Peruvian folklore music on "Amanecer Andino" program. ID at 1040; signals were fair. (Takeshi ?Teshino in Radio Nuevo Mundo on DXPL 9/5) [Not in WRTH 92--mf]

PHILIPPINES - *Far East Broadcasting Corp.*, Manila (the original FEBC site in 1946) is installing four new 100 kw Continental SW xmtrs. These replace 50 kw units that had been in continuous service for over 40 years. The new Continentals feature computer control of energy demand. The first 100 kw unit went into service in April, carrying EE to Asia and India. (FEBC News, a house organ for FEBC supporters, via Mike Fern--CA) ["Computer control of energy demand" may mean that the audio signal is run through digital processing before it becomes radio. Computer control of audio compression, hence of instantaneous output power levels, would be much faster than ordinary electronic methods and would greatly reduce distortion and splatter.--mf]

RUSSIA - *Deutsche Welle* is "using about 20 hours a day via Russian transmitters -- and we like to call them the former jamming transmitters -- and we are very happy with the outcome, because they are closer to the target areas." (Peter Senger, Deutsche Welle, on RNMN, via WBI 9/18)

Radio Moscow International was noted in Quechua at 2212-2228 on 9/1, during the 2200-2230 Spanish transmission to Latin America. (WBI 9/11) [see Aug LN, p. 36]

Since September 3rd, Ostantkino's *Mayak* radio network news bulletin at 1700 has been replaced by the daily program of Aum Shrinrikyo. (BBC Monitoring) (SCDX 2162)

R. Shark, Ufa, Bashkortostan, operates from 1000-1914 on 1359 kHz MW and 5780 kHz SW. The SW xmtr has only 15 kw. "Shark" means 'east' in Turkish. The private station went on the air

1/21/92. Programs are in RR, EE and Turkish; a music program called "Disco Vox Pop" is announced in both RR and EE. (Nobuaki Takahashi and Shigenori Aoki on RJMR 8/30)

Radiostantsiya Vostok, Khabarovsk, broadcasts from 0730-0830 Mon thru Fri and 0700-0800 Sun on 153 and 216 kHz LW, 621 kHz MW, 4610 and 7210 kHz SW, and 70.4 MHz FM. *R. Tikhyy Okean*, produced by Primorsk Radio in Vladivostok, is heard on 7210 kHz from 0715-0800. (Yoshinori Kato on RJMR 8/30)

R. Aum Shinrikyo, 17710 kHz, very nice multi-color QSL-card with picture of guru Shoko Asahara on front, along with stn name in Greek, various other writings in Japanese and Chinese, also the fqys printed right on the card, 17710 ("PM 10:00-11:00") and 720 AM ("PM 11:00-12:00"). English thank you message typed on back, along with date and time, and fqy again. (Maybe the original intention was that this would go out only on 17710?) No mention of English-15485, which I also reported. No sites.

Also sent three English books on Aum Shinrikyo, which are about as interesting as the stuff on the air. "Master Shoko Asahara attained enlightenment in the Himalayas in 1986 after eight years of strenuous practice. He founded Aum Shinrikyo in 1987 and has been actively engaged in spreading the true Dhamma, the true teachings, ever since. His altruistic and devoted attitude has moved thousands of people and many have joined the Sangha (the holy community) to practice his teachings as in the days of Buddha Sakyamuni 2,500 years ago. The authenticity of his teachings has been proved by over 300 disciples who have attained various stages of enlightenment in the past 5 years." In one month, for taped report. Address is as reported earlier: 381-1 Hitoana, Fujinomiya, Shizuoka, Japan 418-01. (Jerry Berg)

A **Radio Aum Shinrikyo** schedule received by Ron Howard appears to be the same as in LN last month. Does anyone have any enlightenment as to what's behind the use of the Greek language on the QSL card? [df]

Radio Aum Shinrikyo, sponsored by a Japanese sect, broadcasts to NA from the Russian Far East at 2030-2100 on 15425, 17560, 17605, 17690 and 17720 kHz. (Mike Fern--CA) Programs in Russian from 1705-1730 and from 1735-1800 via Radio 3 (Mayak) began 9/6. TV programs in RR were to start 9/3, but were postponed. (Tooru Yamashita on RJMR 9/13)

AWR-Russia, 11855 kHz, direct reply received in 4+ months for a report sent directly to AWR office in Tula. Very friendly letter in good English on AWR-Russia letterhead from AWR-Russia Coordinator Revtov Igor, also generic AWR "world map" card showing AWR stations (not including Russia) on front, full data on back including Novosibirsk site. Also sent some nice Russian mint stamps, 2/92 AWR "Trans Missions" newsletter with some info on the Russian station, and a small card with map of Novosibirsk transmission patterns. Igor is 29 years old, has worked as an English teacher. Wife Larissa is secretary with AWR, both graduates of the Pedagogical Institute, have two year old son Andrew. Mailing address: Voice of Hope Media Centre, Box 170, Tula-Centre, RUSSIA 300000. Office address, in case you want to drop in: Stanislavskogo St. 48, Tula, RUSSIA 300012. From the newsletter: "Formerly a major voice for Communism, the Siberian facility is on about 2,000 acres. It has 120 curtain antennas and 30 transmitters (!--JB). For more than 40 years the equipment was used by Radio Moscow to jam Western programming." (Jerry Berg)

The Russian Republic's available RMWS EE transmitters in Europe no longer provide a usable signal on the Pacific Coast. [Words I'll gladly eat.--mf] This is the result of two things: A drastic drop in the smoothed sunspot number (SSN) during the past six months, and the loss to Russia of many USSR xmtr sites in other countries. Russia has stopped broadcasting via Cuba and Bulgaria, and has lost xmtr sites to the Ukraine and Moldova. Radio Japan Media Roundup's propagation forecast 9/13 had a SSN of 64 for early September compared to long-term predictions of 99 for September, 97 for October, and 95 for November. In addition, Radio Moscow World Service made severe cuts 9/6 in the number of xmtrs in use in many services. The only Euro-Russian signal heard in CA in mid-September carried SS on 9470, before 0400.

The following Siberia-based RMWS EE freqs were observed 9/11 thru 9/13 in Southern California: 5905 kHz, 1200-1300; 7370 kHz, 1200-1730*; 9505 kHz, 1430-1800*; 9905 kHz SSB, *0400-0700; 11770 kHz, 0430-0600*; 11995 kHz, 1930-2030; 12010 kHz, 0430-0700; 12030 kHz, 0330-0700; 12050 kHz, 0000-0700; 15425 kHz, 1830-0700; 17560 kHz, 2130-0300; 17605 kHz, 2100-2200; 17720 kHz, 2100-0200. All of the xmtrs listed for the period 0300-0700 are used in the North American Service. 11770 kHz is not mentioned in the frequency schedule at 0300. 13645 kHz was announced but is silent. 17840 kHz is mentioned but carries Golos Rossii, the Russian-language world service of Radio Rossii, from 0100-0400. Changes will be made when U.S. winter time takes effect. Audio quality varies because RMWS does not seem to enjoy the satellite equivalent of dedicated lines from A to B. (Mike Fern--CA)

Radio Moscow's Russian-language DX club lives on as Klub DX Golos Rossii. Pavel Mihailov still writes the scripts. It is heard at 1430-1445 Sun UTC on 9795 kHz on the West Coast. The FBIS reported it was scheduled at 1115 Sun UTC in Europe during July. The mailing address is: Klub DX Golos Rossii, 113 326 Moscow, Radio Rossii, Russia. The fax numbers are 233-6449 and 233-6450. The program has a bright pop theme reminiscent of 30's movie musicals (but with a synthesizer bass riff the FCC would ban) and a quirky item separator, descending big-band chords with a cheeky upward finish on a synthesizer. (Mike Fern--CA)

Radio Moscow printed skeds are available again, and were being mailed out in answer to requests in mid-September. (RMWS African Mailbag 9/13 via mf)

From the end of September [presumably 9/27, the start of the W-92 broadcast schedule - df], *BBC* programs for China and India will be relayed by three [former] Soviet relay stations in Tashkent, Chita and in the Far East - Irkutsk, Khabarovsk or Vladivostok. (WBI 9/18)

Nikolai Rudnev has sent in an excellent summary of Russian independent broadcasting, updating our feature in the July ADXN. Monitoring of *Radio Alef* reveals a schedule of 1600-1630 Tu, Th, Su, using 4055 and 7305. *Radio Polis* has expanded its schedule and is now on the air 0330-1600 (ex 0330-1300) on 6045 and 1053. Address: Radio Polis, Dostoevskogo 30 kv.9, Sankt-Petersburg, 191126, Russia. *AWR-Russia* is heard 0300-0330 RR on 11900 (Yekaterinburg) and not on listed 11785, and 0530-0600 in Polish on 15125 (Samara) instead of listed 12010. *Radio Ekho Moskvy* no longer uses SW and operates 24hrs on 1206 (MW), with 10 kW. *Radio Shark* is on the air 0100-1900, using 5780. *Radio Trek* seems to have disappeared from SW, and is only heard on 69.92 MHz FMN, fromk Yekaterinburg. *Radio Nadezhda* (Radio Hope) is a new station, in RR, and heard 1400-1700 on 1539 9490 11765 11800 15370 17675; 1900-2200 on 1215, 7280, 15340. Station seeks reception reports, and address is: Radio Nadezhda, Pyatnitskaya 25, Moscow 113326, Russia. (ADXN 0922)

Radio Beryozovo (Khanty-Mansiyskiy National Okrug) broadcasts 0415-0500 on 5070, Sunday only in Russian and local languages, and one hour later during winter. Address: Radio Beryozovo, Beryozovo, Khanty-Mansiyskiy National Okrug, 626800, Russia. (Nikolai Rudnev). (ADXN 0922)

For W92, *Deutsche Welle* relays over Russian sites are planned: 7315 (Z) 1400-1800 to Asia, 140 degrees; 7340 (N) 1000-1400 to Far East, 85 deg; 9875 (N) 1430-1700 to S. Asia, 195 deg; 11795 (N) 2200-0000 to E. Asia, 85 deg; 12055 (Z) 0300-0350 to ME, 140 deg; 12055 (Z) 0200-0250 to S. Asia, 140 deg; 12045 (N) 2230-2320 to S. Asia, 145 deg; 15350 (N) 1200-1320 to FE, 200 kW, 111 deg; 15350 (f) 1100-1150 to FE, 250 kW, 110 deg; 15550 (N) 0100-0150 to S. Asia, 180 deg; 17625 (Z) 0800-0850 to ME, 250 kW, 140 deg; 17735 (Z) 1000-1050 to ME, 200 kW, 188 deg. I=Irkutsk, Z=-Zhigulyovsk, N=Novosibirsk (Bob Padula)

SEYCHELLES - *FEBA* noted on new 15445 with Farsi *0300, ex 15200, 9/6. (Padula)

SOMALIA - *Radio Mogadishu*, "the Voice of the Somali Republic", broadcasts in support of interim president Ali Mahdi Muhammad. It was first heard 3/16. The ID is the same as that of the Mogadishu MW station on 962 kHz, which is controlled by Gen. Muhammad Farah Aydid, chairman of the United Somali Congress, and bitter rival of Mahdi Muhammad. The station appears to have two transmitters - a conventional AM transmitter in the range 6956 - 6972 kHz, and a transmitter operating in upper sideband plus carrier in the 9425 - 9535 kHz range. Only one frequency is used at a time. The schedule is 0400-0500 (-0600 Fri), 1000-1100, 1300-1430 and 1600-1800, all in Somali, except news in Arabic at 1730-1740; on 6968v or 9475v kHz. (WBI 9/4)

SOUTH AFRICA - *Radio RSA* [the External service] moved from 3320 to new 3995 kHz on 9/6 to provide regional coverage to Southern Africa. The complete English sked is: 0200-0400 on 9730 kHz; 0300-0500 on 3995 kHz; 0400-0700 on 15220 kHz; 1000-1200 on 11900 kHz; and 1600-1800 on 9565 and 11885 kHz. (?Eidhardt ver Deyn, RN, via Andy Sennitt on RNMN 9/10)

Radio RSA will change its name 10/1 to *Channel Africa*. A TV service with the same name is to start on the Intelsat VI satellite, 24.5 degrees west. 30-min EE and FF programs will air Mon thru Fri starting at 1200. (RNMN 9/17)

SRI LANKA - [see 9/92 LN, page 37] TWR (Puttalam) has registered 6035 kHz, and a 49mb antenna is being constructed. The transmitter is a refurbished Marconi unit, acquired from the SLBC, and shifted from Ekala. Puttalam is the site of the 400 kW MW facility. (ADXN 9/92)

TANZANIA - *Radio Tanzania's* external service has been broadcasting on 5050 and 837 kHz, both of which formerly carried the national service in Swahili, since 8/18. The two frequencies, as well as 89.9 MHz FM are announced. The external service used to announce 9685 kHz, but that had not been heard for some time. Schedule is 0330-0430, 0900-1030, 1030-1530 Sa/Su, 1530-1915, all in English. (WBI 8/28)

THAILAND - *Radio Thailand* reported 9/11 that the Thai cabinet has approved a draft agreement on a BBC relay station in the northern province of Nakhon Sawan. BBC will provide public facilities in the compound, equipment, construction of an institute of broadcasting and studios, as well as technical assistance for a 20 year period. (WBI 9/18)

TURKEY - The *Voice of Turkey* General Service operates 0200-0300 in Turkish to Eur & NA on 9445 & 11895; 0400-0900 in Turkish to Europe & Asia on 9665, 11925, 15220, 15405; 0900-1000 Turkish to Europe on 15325 & 15350; 1000-1500 to Europe & the Middle East on 11955, 15160, 15325 & 15350; 1500-1600 Turkish to Europe on 15325 & 15350; 1600-2200 Turkish to Europe & the Middle East on 9460, 9685 & 11775; 2200-2300 Turkish to Europe on 9460; and 2300-0200 in Turkish to Europe & NA on 9445, 9460, 11895 kHz.

The *Voice of Turkey* Foreign Language service is scheduled: **English** 0300-0400 to Am on 9445, 1230-1300 to Asia on 9675, 2000-2100 to Europe on 9445, and 2200-2300 to Europe, the Middle East & America on 7185, 9445 and 11895 kHz. Other languages: 0300-500 Turkish to the Balkans on 6140; 0700-0800 Azeri on 9590; 0800-0900 Arabic on 11955; 0900-1000 Arabic on 11955 & 15160; 0930-1000 Hungarian on 11775; 1000-1030 Romanian on 11875; 1030-1100 Serbo_Croat on 11875; 1100-1130 Albanian on 11875; 1130-1200 Mandarin on 9710; 1200-1230 Urdu on 9675; 1300-1400 Persian on 9675; 1400-1430 Russian on 11735; 1430-1500 Greek on 7180; 1500-1600 Arabic on 11955, 15160; 1500-1600 Azeri on 11925; 1600-1630 Arabic on 11955; 1600-1700 Bulgarian on 5980; 1630-1730 German on 9795; 1700-2100 Turkish to Europe on 5980; 1730-1830 Greek on 7110; 1830-1930 Persian on 9675; 1930-2000 German on 9445; 2100-2200 Bulgarian on 5980; and 2100-2200 French on 9445 kHz. (WBI 9/4)

Turkish Meteorological Radio, Ankara, heard on 6900 kHz signing on at 0400; also heard on 10422 kHz USB which may be a feeder. (Ivan Cholikov, Bulgaria, on DXPL 8/29)

UKRAINE - A special program for Black Sea fishermen in RR at 0600 Mon UTC is produced in Simferopol, a b/c center and xmt site in the Crimea. The best freqs in midsummer were 11630 and 17600 kHz. The studio address is given as 6 Korinskaya St., Simferopol. [not the WRTH 92 address--mf] (Ivan Cholikov, Bulgaria, on DXPL 8/29)

Radio Ukraine International has expanded its broadcasts to 24hrs daily, and has added Ukrainian programming between 0600 and 1300. (Nikolai Rudnev). (ADXN 0922)

UNITED ARAB EMIRATES - *United Arab Emirates Radio - Dubai*; operates at 0230-0330 in Arabic, 0330-0400 in English, both on 11945, 13675, 15400 & 11890 kHz; 0415-0530 Arabic & 1530-1600 English, both on 17830 & 21700; 0600-1030 in Arabic on 13675, 15435 & 21605; 1030-1110 English, 1110-1330- Arabic, 1330-1400 English, and 1400-1600 Arabic, all on 13675, 15320, 15435, 21605; 1600-1640 English on 11795, 13675, 15320 and 21605; 1640-2050 Arabic on 11795, 13675, 15320 and 15400-(from 1700). (WBI 8/28)

UNITED KINGDOM - The *BBC* has signed an agreement to rent transmitters in Uzbekistan and the Russian Far East to improve service to India, Pakistan and China. The agreement was announced by BBC WS managing director John Tusa on 9/8. The xmts are located at Tashkent (1) and Chita (2). The BBC will broadcast via Russia and Uzbekistan nine hours a day in CC, EE, Bengali, Hindi and Urdu. The Tashkent xmt had been used by the Soviets to jam the BBC. (BBC WS in EE 0400 9/10, RNMN 9/10 via mf)

A fire alarm in Bush House the morning of 9/5 interrupted regular BBC WS services and sent staffers to fallback studios at Broadcasting House. It seems building work in the newsroom spontaneously ignited. (RNMN 9/10)

URUGUAY - *R. El Espectador*, Montevideo, 11835 kHz, heard with poor to fair sigs after R. Netherlands closed at 0125 to 0300 and later 9/11 during a major geomagnetic storm. Barely readable under VOA Greenville after 0300. Not bad for 500 watts. All-news format from *0130-0230*. (Mike Fern--CA)

USA - *WJCR* operates 24 hours on 7490 & 7465 kHz. (WBI 9/4)

The schedule for Glenn Hauser's *World of Radio* on WWCR is: Fri 2115 on 15690; Sun 0305 on 7435; Sun 2200 on 15690 (subject to being replaced by something else); Mon 2045 on 15690; Tue 0630 on 7435 (Stan Slonkosky on Genie)

The projected schedule for WEWN: Transmitter 1: English 0000-0200 to NA, 0200-0800 to NA/Hawaii, on 7540; 0800-1000 to NA/Australia on 9870 270; 1300-1600 to NA on 9870; 1600-2400 to on 13615, all at 270 degrees.

Transmitter 2: Spanish at 0000-0400 to SA on 9410, 160 degree; 0400-0800 to CA on 9350 kHz, 175 degrees. Portuguese 0800-1000 to Brazil on 9985 kHz at 160 degrees. English to Africa at 1300-2000 on 21670 kHz. To Europe in Spanish at 2000-2100, Portuguese at 2100-2200, both on 11970 kHz at 55 degrees. Spanish to SA at 2200-2400 on 17760.

Transmitter 3: 0000-0100 to China in Mandarin on 17890; 0100-0200 to India/NA in English on 9985; 0200-0300 Arabic to ME on 9985; 0300-0400 Russian to Europe on 7520; 0400-0500 Czech/Slovak to Europe on 7520; 0500 Belorussian to Eur; 0600 Serbo-Croatian; 0700 Albanian; 0800 German; 0900-1000 French, all on 7465, 35 degrees to Europe. 1300 Polish, 1400 Arabic, 1500 English, 1600-1800 French, all on 18930 kHz, 35 degrees to Europe. 1800-2000 English to Europe on 13710 kHz. 2000-2200 French to Europe on 7540 kHz. 2200-2300 German, 2300-2400 English, to Europe on 5825 kHz.

The 4th transmitter: 0000-0200 Portuguese to Brazil on 11885 kHz; 0200 Romanian, 0300 Ukrainian, 0400 Bulgarian, 0500 Lithuanian, 0600 Hungarian, 0700 English to Africa, 0800-1000 English to Europe, all on 5825 kHz. 1300-1700 Spanish to Mexico on 11735 kHz. 1700-2000 Spanish to CA on 21735 kHz. 2000-2200 Portuguese to Brazil on 21735 kHz. 2200-2400 Portuguese to Brazil on 11885 kHz. (Bob German, WEWN) Bob tells me, via CompuServe, that they expect to be in full operation by the end of the year. [df]

VOA's Tibetan service has been making schedule changes recently, for the 0100-0130 service. Monitoring during late August revealed usage of 9540 11815 17760 21570. 11815 and 17760 were jammed. To avoid jamming, service was shifted to 11770, followed by jammers, then back to 11815, which was pursued by jammers! Jammers then moved to 11940 to disturb AIR's Tibetan service on that channel, but Delhi then switched to 11880, a clear channel in the interim. (Alok Das Gupta via ADXN 9/92)

KJES, 11715, New Mexico, handstamp-on-a-postcard arrangement, but full-data, V/S Michael Reuter, Manager. Also gives sked as follows: 11715 kHz, 1400-1500 to W. Canada [believed English though not stated], 1500-1600 to Mexico City [believed Spanish]; 9510 kHz, 1800-1900 to W. Canada, 2000-2100 to No. Mexico. Says Elcor 50 kw xmtr made in Costa Rica, tho doesn't say what they're actually running if different. In two weeks for a tentative taped report. King Jesus Eternal Savior, The Lord's Ranch, Mesquite, NM 88048. (Jerry Berg)

VIETNAM - The *Voice of Vietnam*, 58 Quan Su St., Hanoi, English sked from 9/6: 1000-1030 on 15010, 12020, 1240mw; 1100-1130 on 9732, 7416, 1010mw; 1230-1300 on 15010, 12020, 1240mw; 1330-1400 on 15010, 12020, 1240mw; 1600-1630 on 15010, 12020; 1800-1830 on 15010, 12020; 1900-1930 15010, 12020; 2030-2100 on 15010, 12010; 2330-0000 on 15010, 12020, 1240mw. (Reid Kelly, on Fidonet's Shortwave Conference) Hanoi began using new 7287 kHz about 8/20 replacing 6450 kHz. Heard in Japan from *1320-1600 signoff with improving signals // 4895, 5924 and 10059 kHz. (Isao Ugusa on RJMR 9/13).

The following provincial stations have been heard in Japan so far this year [no times given]: Cao Bang, 6477 and 6490 kHz; Bac Tai, 6525 kHz; Lao Cay, 5600 kHz; Yen Bai, 6385 kHz; Lai Chau, 6430 kHz; Son La, 4665 and 6315 kHz; Da Lai, 4787 kHz; Kon Tum, 5061 kHz at 1045-1100. (Isao Ugusa on RJMR 9/7)

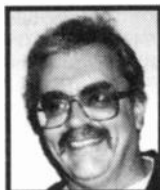
YUGOSLAVIA - *Belgrade* radio broadcasts a program in FF about water levels on the Danube at 1015 on 7200 kHz. (Ivan Cholikov, Bulgaria, on DXPL 8/29)

UnID - A new Korean station, probably clandestine, was heard with good signals in CA on 6518 kHz from *0900-1003 9/7. Music, news or comment by a man and a woman; ID and freq sked preceded and followed by band music at 1000. Moderate buzz-saw jamming. (Mike Fern--CA)

Thanks much to those who take the time to forward material for LN. It can be sent to the masthead address on paper or MS-DOS diskette, or by EMail to me at CompuServe (76702,771), Prodigy (JDBM33A), or even Genie (D.FERGUSON14). Enjoy the fall. Back next month. Dan (9/26)

QSL Reports

Sam Barto
47 Prospect Place
Bristol, CT 06010



ALBANIA: Radio Tirana 11825 f/d "Girl in Traditional Dress" cd. in 9 wks. for \$1.00. v/s Gezim Guri, Correspondence Section. (Gold-MI).

ANTIGUA: The Caribbean Relay Company f/d ltr. for the BBC relay in 5 1/2 mo. (MacHarg)

ARGENTINA: Radio Nacional 11710 f/d "LRA1" cd. in 4 mo. for a SP rpt. and 2 IRCs. v/s Claudia Taiana. (Newman). f/d postcard w/ schedule and a tape of local music in 5 mo. for a taped rpt. v/s Marcela G.R. Campos, Director and J. Anthony Middleton, Head of the English Department. (Lamb-NY).

ASIATIC RUSSIA: Radio Moscow 15405 and 15425 via Petropavlovsk-Kamchatsky f/d "Monument to Pushkin" cd. in 2 mo. (Lare-MI). 9655, 9755, 11995, 12050, 15410 and 15425 f/d cds. in 43 ds. (Schwartz-NY). Deutsche Welle 15560 via Novosibirsk f/d cd. in 1 mo. (Humenyk)

AUSTRALIA: Radio Australia 21740 f/d ltr. w/ program schedule and a Wilderness Society cd. in 15 ds. (Schwartz-NY). 15320, 15240, 15365, 17795 and 21740 p/d ltr. w/ schedule. v/s Nigel Holmes, Frequency Manager. (Humenyk-ONT). VJL 11720 via Bran-
don f/d ltr. w/ cd. in 34 ds. for 2 IRCs. (Carson-OK). VLW15 15425 via Perth f/d "Map" cd. w/ stickers in 126 ds. for \$1.00. (Millard-TX). VL8K 2485 via Katherine f/d cd. in 2 mo. for \$1.00. (Kohlbrener-PA).

AUSTRALIAN PIRATE: Radio Waves International 11400 via Radio * G'Day f/d ltr. for a special broadcast in 24 ds. v/s Peter Hills. (Kusalik-ALB).....Great catch!...Sam.

AUSTRIA: Radio Austria International 13730 f/d ltr. w/ "Narcissus Festival" cd. in 26 ds. (Hill-NY). 9870 f/d "Salzburg Dress" cd. in 1 mo. (Humenyk-ONT).

BAHRAIN: Bahrain Broadcasting Station 9746 p/d cd. in 19 ds. for 1 IRC (returned). (Kohlbrener-PA).

BELARUS: Radio Minsk 7400 f/d "Artwork" cd. w/ paper banner, schedule and rpt. forms in 159 ds. (Schwartz-NY).

BHUTAN: Bhutan Broadcasting Service 5025 f/d cd. w/ site for a United Nations Radio program in 106 ds. (Flynn-OR).

BONAIRE: Radio Nederlands 6165 f/d "Solar 1992" cd. w/ cloth banner and sticker in 40 ds. (Schwartz-NY).

BOTSWANA: VOA 15300 f/d "Map" cd. in 6 1/2 mo. (Palmersehm-WA). 7265 f/d cd. in 11 ds. (Palmersehm). Radio Botswana 7255 "Herdsboy" cd. in 27 ds. for 2 IRCs. after a f/up rpt. (Newman).

BRASIL: Radio Inconfidencia ZYE521 6010 f/d cd. in 2 mo. for a PT rpt. v/s Eugenio Silva. (Barto-CT). Radio Nacional do Brasil 11745 f/d cd. w/ sticker in 48 ds. for \$1.00. (Gold-MI). 15445 f/d cd. w/ schedule and decal in 38 ds. for 1 IRC. (Romeo-NY). Radio Bras 15265 f/d paper cd. w/ schedule and sticker in 126 ds. for \$1.00. (Martin-CA).



e.r.p.e. escuelas radiofónicas populares del ecuador
riobamba-ecuador-sud america

NOTE: Mr. MacHarg of HCJB informs us that this stations QSL cards for 1993 will feature the "Waterfalls of Ecuador." There are still plenty of the 1992 series "Children of Ecuador" cards available. All letters postmarked to HCJB in October which request the special listing of previous QSL cards which are still available to the general public will receive a new QSL card, a 1993 desk calendar and possibly another gift. Use Box 17-17-691, Quito as an address.....Sam.

RADIO GALAXY
117418
P.O.Box 7
Moscow, Russia

Dear Mr. Christopher Lobdell,

This confirms your reception of Radio Galaxy.

DATE: 15/04/1993

TIME: 19:05 to 20:00 hours UTC

FREQUENCY: 9880 kHz

OUTPUT POWER: 700 kw

Thank you

Christopher Lobdell

BULGARIA: Radio Sofia 15370 p/d cd. w/ schedule in 95 ds. for 1 IRC.(Romeo-NY).

CANADA: Radio Japan 5960 via

Sackville f/d "Special Verification Card Re-

lay Broadcast via Skelton, U.K." cd. in 45 ds.(Schwartz-NY). **Radio Canada International** 5960 f/d "1985 IYY" cd. in 11 ds.(Schwartz-NY).

CANADA (Pirate): Radio Scottish Montreal 7413 f/d cd. in 26 ds. for \$1.00. v/s Rob Ray.(D'Angelo-PA). **Pirate Radio Boston** 7413 via **CSIC** 7413 f/d ltr. w/ "Boston Yacht Club" cd. in only 12 ds! for \$1.00. My rpt. was their furthest reported - so far. v/s Charles Quincy Louden-boomer.(Kusalik-ALB). **CNBS** 7413 f/d sheet in 18 ds. for 3 ms.(Comeau-MA). **CNBS/KNBS** 7413 f/d sheet w/ "Cannabis Radio" paper pennant in 14 ds.(Prisco-PA).

CHILE: CRV 8677 **Time Signal Station** f/d "Map" cd. in 2 mo. for \$1.00. v/s German Valdivia Ibarra, Capitan de Fragata Lt.(Lare-MI).

CHINA, PEOPLES REP. OF: Radio Beijing 11855 p/d cd. w/ stickers and program schedule in 28 ds. for 1 IRC.(Martin-CA).

CLANDESTINE (sort of): Croatia Radio Zagreb 7315 via **WHRI** f/d "Hrvatska Radio and TV" cd. in 5 mo. for \$1.00. I reported reception to WHRI, reply came from Zagreb! (Kusalik-ALB).

COSTA RICA: TIPC 5055 p/d "Logo" cd. in 7 wks. for 2 IRCS.(Newman). **Radio for Peace International**

15030 f/d cd. in 2 mo. for \$1.00. v/s James Latham, Station Manager. (Lare). same f/d cd. w/ schedule and stickers in 31 ds. for \$1.00. (Martin-CA). f/d cd. w/ schedule in 58 ds. for \$1.00 and 1 IRC.(Romeo-NY). **United Nations Radio** 13630 via **RPPI** f/d "Logo" cd. w/ info. packet and schedule. (Clar-NY). same cd. w/ schedule in 7 ds.(Schwartz-NY). 15030 f/d blue cd. in 141 ds. w/ sticker.(Millard-TX).

CROATIA: Hrvatska Radio 9830 f/d silver "Studio and Antenna" cd. in 130 ds. for \$1.00. C/V #207. (Palmerheim-WA). same in 5 wks. for 1 IRC. (Kohlbrenner-PA). 7240 n/d personal ltr. w/ schedule in 56 ds. for a FAX rpt.(Romeo-NY). 7240 and 9830 same f/d cd. in 11 wks.(Barto).

CUBA: Radio Moscow 11840 via **Habana** f/d cd. in 2 mo.(Lare).

via Chris Lobdell

QSL # 54

PICK A WINNER...



W.V.O.L.
THE FINEST IN
41 METER
ENTERTAINMENT!

WE CONFIRM YOUR RECEPTION
OF W.V.O.L. TO BE CORRECT.

DATE: 7/18/90

MODE: U.S.B.

TIME(UTC): 0239-0257

FREQ(KHz): 7414

SIGNED: *CV Zptzin Willy*

**Y
C****RADIO SOUTHERN-HIGHLANDS**

(NEK BILONG MURUK)



NOTES: Mark Anderson from Prescott, MI is a new member. He recently submitted his first report to the QSL Column. Mark says that if his sadistic mailman will cooperate he should have a good selection for next month. Keith Hill, who resides in Pine City, NY just moved back to the country after spending 5 years in the city. He has just installed a 60 meter dipole, a 220 foot half-pint beverage and a 300 foot half-pint beverage that can be rotated manually from 200 degrees to 80 degrees. Keith says that he may solder on an extension to make the antenna at least 2000 feet long! Keith, have you heard from any of our planetary neighbors or aliens on this new antenna system? I wish my antennas were half that length. Hi!...Sam.

CUBA: Radio Moscow 9600, 11840, 11850 and 11710 via Habana f/d "Lenin Monument" cd. in 43 ds. (Schwartz-NY). Radio Habana Cuba 13700 f/d "30th Anniversary" cd. w/ ltr. and schedule in 5 mo. v/s Arnie Coro. This was for 2 IRCs. (Franzen).

CYPRUS: BBC Eastern Mediterranean Relay Station 6195 f/d cd. in 24 ds. for \$1.00. and a postcard. (Comeau-MA).

CZECHOSLOVAKIA: Radio Czechoslovakia 9580 f/d "Gate of Strahov Monastery" cd. in 18 ds. (Schwartz-NY). Radio Praha 7345, 9605, 5930 and 6055 f/d "Tyl Theatre" cd. w/ sticker and schedule in 22 ds. (Hill-NY). Radio Czechoslovakia 13715 via Litomysl (Czech Republic), 7345 and 9810 via Vel'ké Kostolany (Slovakia) and 11990 and 15355 via Rimavska Sobota (Slovakia)...all this in 23 ds. for \$1.00. (Palmerheim-WA)...Sooner or later this situation will also straighten itself out - hopefully peaceful...Sam.

ECUADOR: HCJB 15155 f/d "Children of Ecuador" cd. in 5 mo. for 3 ms. (Carson). same cd. w/ schedule in 19 ds. for 2 ms. (Nibecker-MEX). 9745 f/d "Mt. Cotopaxi" cd. in 5 mo. (Carson). Radio Nacional del Ecuador 15350 f/d "President's Palace" cd. w/ ltr. in 57 ds. for 1 IRC and a SP rpt. v/s Gustavo Cevallos, General Director. (D'Angelo-PA).

EGYPT: Radio Cairo 9479 f/d "Painting" cd. in 136 ds. (MacHarg).

EURO PIRATE: Radio Merlin International 6238.8 f/d form ltr. in 3 wks. for 2 IRCs. (Lobdell). Radio Caroline 6305 "Ross Revenge" postcard w/ info. on pirate stuff (tapes, etc) in 10 ds. (Lobdell). Rainbow Radio Germany 6275 form ltr. w/ personal note from Josef Liche in 18 mo. Also rcvd. 8 color photos of the station. The operator apologized for the delay as the station hid all of their equipment including reception reports from the authorities. (Lobdell).

EUROPEAN RUSSIA: Radio Moscow 15520 via Moscow f/d "Arbat Square" cd. in * 3 mo. (Barto-CT). 9530 f/d cd. in 43 ds. (Schwartz-NY). Radio Rossiya 15630, 15750 and 18840 via Moscow f/d cd. in 6 wks. (Barto-CT).

FINLAND: Radio Finland 15400 n/d cd. w/ stickers in 17 ds. (Anderson-MI).

FRANCE: Radio France International 17620 f/d "Eiffel Tower" cd. w/ schedule in 28 ds. (Hill-NY). 21645 f/d "Notre Dame" cd. in 51 ds. w/ schedule. (MacHarg)

GABON: Radio Japan 11735 f/d cd. in 48 ds. for 2 IRCs (Comeau-MA).

"The babes at WYNN on vacation"

Hi Dan:

Thanks for the nice report! We are pleased to send you our DELUXE QSL card.

73¹ in 1

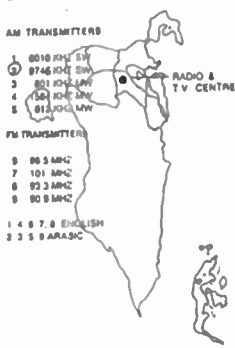
Sorry Dan but the photo of the "Yachb Club Welcoming Committee" could not be copied to due it

UNLAWFUL. PLEASE justice.

1121 N. HIGHLAND STREET

SARASOTA, FL 34236

PIRATE RADIO BOSTON
 QSL CARD #37
 VIA CSIC
 FREQ 7413 kHz AM
 TIME 02:28-02:30 UTC
 DATE 14 June 1992
 YOUR REPORT IS OK!
 PRB, BOX 146
 STONEHAM, MA 02180



TO

GEORGIA: Radio Georgia 4930 f/d cd. in EG w/ schedule in 3 mo. Postcard and ltr. were rcvd. (Barto-CT).

GERMANY (West): RFE/RL 9725 via **Holzirchen** f/d cd. w/ sticker in 3 wks. (Barto). f/d "Map" cd. for various sites and frequencies in 3 mo. (Humenyk-ONT). **VOA** via **Munich** 17885 f/d "Jefferson Memorial" cd. in 1 mo. w/ rpt. forms. (Humenyk-ONT).

GHANA: Ghana Broadcasting Corp. 4915 f/d cd. w/ schedule in 34 ds. (Schwartz-NY).

HAWAII: WWVH 15000 f/d cd. in 20 ds. (Nibecker-MEX).

COUNTRY NAMES: When reporting to the QSL Column, try to use the country name as a heading. If you report a Euro-Pirate as Ireland, then I will list it as Ireland. If you are unsure as to the transmitter origin, it will be listed as a Euro-Pirate. Please try to breakdown the former USSR into the new Republics. I will probably go with the new Republics, European Russia and Asiatic Russia. All others unidentified as to actual Soviet transmitter site should be listed as Russia. I'm really not crazy about the CIS listing. Try to breakdown Yugoslavia into the regions by transmitter site. The WRTH does a good job of this under the Yugoslavia heading. Don't forget the relay stations. A WYFR relay via the Voice of Free China should be listed as to the transmitter site, i.e. Taiwan not USA. Another example, do not list the Bamako relay for Radio Beijing under the heading China when it should be Mali. I'm not going to get into any great esoteric controversy about white or black or other clandestine radio stations. I will normally list all such stations or programs from other stations as clandestine in nature. In a few cases they may get listed under the country of origin of the relay station, but there is no real great reason for this except for the heading.... Hope I have confused you enough. I'll help where I can.... Sam.

MALAWI BROADCASTING CORPORATION

CHICHERI HOUSE BLANTIRE, MALAWI P.O. Box 30111
 TELEGRAPHIC ADDRESS RADOMALAWI CHICHERI
 TELEPHONE 811 262 BLANTIRE 1



14 April, 1992

Ref. No. GM/7/2/127

Mr. Kris W. Field,
 431 Babylon Road,
 Ambler, PA 19002-2302,
 UNITED STATES OF AMERICA.

Dear Kris,

Many thanks for your letter dated 29th March, 1992 in reply to ours.

You were indeed listening to our radio station. We have found out that you were listening to our opening drums and morning meditation in Chicheva. Our station is opened indeed at 0453 local time and 0253 UTC.

I hope you will continue listening to our radio station in future.

Yours faithfully,

M. R. Chirwa
 GENERAL MANAGER

HONDURAS: HRYC La Voz Evangelica 4820 p/d ltr. w/ cd. & sticker in 27 ds. for \$1.00 (Schwartz-NY).

INDIA: All India Radio 11620 f/d "Old Fort Delhi" cd. in 3 mo. (Humenyk-ONT).

IRELAND: DLR-106 6220 f/d cd. w/ postcard and station info sheet in 20 ds. for a \$1.00. v/s John Daly. (Kohl-brenner-PA).

JAPAN: Radio Japan 11865 via **Yamata** f/d "Skelton Tests" cd. w/ scarf in 5 mo. v/s Mr. Kunitoshi Hishikawa, QSL Secretary. (Lamb-NY). f/d "Cherry Blossoms" cd. w/ sticker and schedule in 73 ds. (Hill-NY).

JAVA: RRI Cirebon 2390 f/d prepared cd. in IN w/ f/d ltr. in 22 ds. after a f/up rpt. in IN for a SASE (not used). v/s Bagus Giarto, B. SC. (Palmerheim-WA).

KOREA, DEMOCRATIC PEOPLES REP: Radio Pyongyang 9977 and 11335 f/d cd. w/ booklets in 52 ds. (Christensen).

KOREA, REPUBLIC OF: Radio Korea
9750 f/d cd. w/ schedule and station info. in 26 ds.(Christensen).

KUWAIT: Radio Kuwait 13620 f/d "Map" cd. in 109 ds. for \$1.00.(Palmerheim-WA).

LEBANON: Wings of Hope 11530 f/d "Map" cd. in 3 mo. w/ stickers for \$1.00. v/s Patrick Kowalick.(Kohlbrenner-PA). same w/ schedule in 87 ds.(Hill-NY). in 52 ds. for \$1.00.(Millard-TX).



via Kusalik

Indonesia

R.P.K.D. Tk Dua Belitung

Ini membenarkan laporan tuas dari siaran pemancar kami pada gelombang 95.4 meter atau frekuensi 3141. kHz. pada 8 September 1990. dari 19.42 sampai 20.05 waktu Indonesia Bagian Barat. Pemancar kami ada R.P.K.D. TK2 dikuasai oleh pemerintah dari Sumatera Selatan.

Kuasa pemancar studio kami 3 kw dengan antena Banyuwangi kasih untuk laporan-tuas.

(Studio Capi)

Pimpinan atau Kepala Studio

NOTES: Scott Newman, a new member from Indianapolis, IN poses a question that has perplexed many of us for quite some time, i.e. why have some of the large international broadcasters like the Deutsche Welle adopted policies of QSLing (or non-QSLing) with no data cards, yet they will send you all kinds of information about the station. If you look at it from their perspective they are interested in getting their views across while we are merely requesting a QSL cards and sometimes, collectively, we show very little interest in the program content. I do agree with you Scott that QSLing isn't what it used to be 15 or 20 years ago when QSL rates from some of the smaller Latin stations was much higher...Sam. **Barry Schwartz** says that he recently passed his exam for the Technician Class amateur radio license. Great!.....Sam.

Verification Certificate

Radio Station: Radio Saura Kasih Agung
/ Voice of the Great Love
Transmitting from: Jayapura, Irian Jaya
Frequency: 4881.2 kHz; 61:46 meters
Power: 500 watts
Time, Date: 20:30 ke 21:01 hrs, sign-off; May 29, 1992

via Kusalik

We confirm with pleasure your listening report which conforms to the programs we broadcast. Thank you



Signature

15500 f/d "Pushkin Monument" cd. in 2 mo. (Lare).
NAMIBIA: NBC 3290 f/d "Namib Nature Park" cd. w/ ltr. and schedule in 3 mo. for a taped rpt. and 2 IRCs. v/s P. Schachtschneider, Transmitter Maintenance Manager. (Clar-NY).
NEW GUINEA TERRITORY: Radio Morobe 3220 f/d ltr. in 4 mo. v/s Ken L. Troppu A., Provincial Programme Manager. (Lare).
NIGERIA: Voice Of Nigeria 7255 f/d "Logo" cd. in 160 ds. w/ schedule. (Schwartz-NY). same in 165 ds. for \$1.00. (Martin-CA).
NORWAY: Radio Norway International 11795 p/d "Glass Designs" cd. w/ sked. in 28 ds. (Anderson-MI).
OMAN: Radio Sultanate of Oman 17735 f/d folder cd. in 158 ds. v/s Rashid Harosa. (Schwartz-NY)...I agree with you, this is a very beautiful QSL card...Sam.

Radio Republik Indonesia

via Kusalik

Ini membenarkan laporan tuas dan Radio Republik Indonesia Studio Bukittinggi siaran pada gelombang 92.85 meter atau frekuensi 3232 kHz. pada 12 Januari 1988. dari 22.34 sampai 23.30 waktu Indonesia Bagian Barat (I.I.B.). Pemancar kuasa studio kami 10 kw dengan antena. Banyak terima kasih untuk laporan tuas



Carilah hal-hal yang berkaitan dengan siaran radio di Indonesia.



...Pimpinan atau Kepala Studio

VERIFICATION CARD

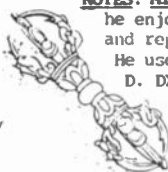
Thank you for your response

via Kusalik

Stay tuned for the Truth!

Radio Aum Shinrikyo

NOTES: Mike Franzen reports that he enjoys being a NASWA member and reports in whenever he can. He used an ICOM R71A and an A. D. DX-SWL Antenna at his home.



Fortunately his father (W0TAC) owns 240 acres in the country and he is very understanding about putting up 1000 foot wires between the tops of 65 foot silos. I hope my QSL reports will pick up. Kevin Murray of 19790 Suncrest Drive, West Linn, OR 97068 would like an address for forwarding mail to North Korea. Can someone else?...Sam.

ΕΥΑΓΓΕΛΙΟΝ
112
ΒΑΣΙΛΕΙΑΣ

To: Edward Kusalik
Date: 6/28/92
English program (UTC)
01:30~05:00 & 20:30~21:00
Frequency: 17695-15580-15500
15375/

PALAU: KHBN 9830 f/d "Map" cd. in 1 wk. after a £/up rpt. to the CA addr. Also rcv'd. sticker and a personal ltr. (Lare). same in 22 ds. for \$1.00

PARAGUAY: Radio Nacional 9735 n/d ltr. w/ tourist brochures (Name?) in 67 ds. for a SP rpt. and \$1.00. (Schwartz-NY).

PERU: Ondas del Mayo 6803 f/d prepared cd. w/ personal ltr. in 100 ds. * for a SP rpt. and \$1.00. Postcard and station pennant was rcvd. v/s * Edilberto Lucio Peralta Lozada, Gerente. (D'Angelo-PA). Radio Eco 4409 f/d decal QSL in 7 wks. for a SP rpt. v/s Carlos Espinoza Cortez, Director Gerente. (Barto-CT).

PORTUGAL: Radio Free Afghanistan 11815 via RFE/RL at Maxoqueira f/d cd. * w/ site in 10 ds. w/ sticker and decal. (Kusalik-ALB). RFE/RL 11725 via Maxoqueira f/d cd. w/ sticker in 3 wks. (Barto-CT).

ROMANIA: Radio Romania International 5990, 11940 and 15390 f/d "Folk Costumes" cd. in @ 200 ds. (Schwartz-NY).

RUSSIA: Radio Aum Shinrikyo 15580 f/d "Shoho Asahara" cd. w/ schedule in

- * 40 ds. for \$1.00. (Kusalik-ALB). 11980, 11920 and 9640 p/d cd. in 12 ds. for \$1.00. (Comeau-MA).
- 15485 f/d RS/JP cd. and a n/d EG/JP cd. w/ 2 books in 1 mo. for \$1.00. (Craighead). cd. w/ schedule in 23 ds. (D'Angelo-PA). f/d cd. w/ schedule in 24 ds. for \$1.00. (Howard-CA).

- * **Adventist World Radio** 15125 via Samara f/d "AWR 20th Anniversary" cd. w/ personal ltr. in 6 wks. (Lamb-NY). f/d cd. w/ prepared cd. in 32 ds. for \$1.00. v/s Roger Graves. (Kusalik-ALB). same in 6 wks. for \$1.00. (Kohl-brenner-PA). f/d cd. w/ personal ltr. in 34 ds. for 1 IRC. (D'Angelo-PA). Deutsche Welle 12055 via Shigulovsk f/d "DW Centre" cd. in 5 mo. (Kusalik-ALB). 12050 same in 5 mo. (Kusalik-ALB). Radio Galaxy 9880 f/d blue/silver cd. w/ ltr. in 3 mo. for \$1.00.
- * (Craighead). New Wave Radio Station 17775 n/d ltr. in 54 ds. v/s W. Razin, Manager. (Yamada-JPN).

Y. BAJAJ
STATION MANAGER
भारत सरकार
GOVERNMENT OF INDIA

Pol. No. 20682 (0)
20348 (A)

नं. 01/92
दि. 28/06/92
शुक्र 21160, 20682, 20330, 20640
दि. 28/06/92
दि. 28/06/92



STP Cod. 02191
Telegm. AKA527ARI
Telephone: 21164, 20682, 20330, 20648
ALL INDIA RADIO
POST BAZAR, 744 102

n.o.no. PD-15(3)/92-E/ 9/24/92

Date: 24-6-1992.

Dear Mr. Edward Kusalik,

I have for reference your letter dated 1st March, 1992 giving the details of broadcast heard by you on 28th and 29th February, 1992.

I have not the programme verified from our 1st book. I confirm on 23rd Feb, 1992 at 1430 wkt you have heard the news out out by air, Port Alwar on 4760 KHz. However, the programme details given by you on 28th Feb, 1992 do not tally with our records.

I am returning herewith one Dollar currency note sent by you with the request not to send any currency in future since return postage will be borne by the Government.

With kind regards,

Yours sincerely,

Mr. Edward Kusalik,
2117-10 Street "A",
C--16ale, Alberta,
C1A 0A2.

Y. BAJAJ
STATION MANAGER

QSL Verification

Radio REPUBLIK INDONESIA STASIUN PAKPAK

Kepada Yth. Tuan MICHAEL S. BARDESSON

Ini membarkan laporan tuan dari Radio STASIUN PAKPAK siaran pada gelombang 62.63 meter atau frekuensi 4790 kHz. pada 4 Juli 1990 dari 22.33 sampai 22.57 waktu Indonesia Bagian TIMOR Pemancar kuasa studio kami 3 kw. dengan 1 antena.

Banyak terima kasih untuk laporan tuan.



Pimpinan atau Kepala Stasiun



Stasiun Cap

SINGAPORE: BBC 11955 via Kranji f/d cd. in 86 ds. after a f/up rpt.
SPACE: Space Shuttle COLUMBIA 7185 SSB via WA3NAN f/d cd. in 40 ds. w/ * orbital chart map. Interesting! (Schwartz-NY). (Yamada-JPN).
SRI LANKA: VOA Colombo 7125 f/d "Washington Monument" cd. in 27 ds.
SUMATRA: RRI Bengkulu 3265 f/d prepared cd. in 6 mo. after a f/up rpt. in IN for ms. Rcvd. 2 station stickers. v/s Drs. H. Hamdan Shaydeni.
SWITZERLAND: Swiss Radio International 9885 f/d (Kohlbrener-PA). "Antenna" cd. in 26 ds. for ms. (Hill-NY).
TAHITI: RFO 15171 f/d cd. in 40 ds. after a f/up rpt. (MacHarg).
TIMOR (Indonesian): R.P.D.Tk2

* Blitar f/d prepared cd. signed and stamped w/ personal ltr. in 28 ds. This was my 5th rpt. to the station for an 88 reception. v/s Drs. Bambang Sutrisno, Pimpinan. (Kusalik-ALB).

TIMOR (Portuguese): RRI Dili

* 3306 f/d prepared cd. in 25 ds. after several f/up rpts. in IN. v/s Paul J. Amalo. (Lare). p/d cd. in 10 mo. for ms. v/s Harry A. Silalahi. (Helms-CA).

UKRAINE: Radio Moscow 17695 and 15375 via Simferopol f/d cd. in 2 mo. (Lare). 9685 and 15485 f/d cd. in 43 ds. (Schwartz). 15290 via Lvov f/d cd. in 43 ds. (Schwartz). 17830 via Ivano-Frankovsk f/d cd. in 43 ds. (Schwartz-NY). Radio Ukraine f/d cd. w/ schedule. (MacHarg).

USA: WWV 15000 f/d cd. in 17 ds. v/s John B. Milton. (Nibecker-MEX). WWCR 15690 n/d cd. in 180 ds. v/s Gail Franceschi. (Schwartz). WMLK 9465 f/d ltr. in 40 ds. (Anderson-MI). KGEI 15280 f/d cd. in 28 ds. v/s Jesus C. Elizondo. (Schwartz). WJCR 7490 f/d cd. in 17 ds. for 2 ms. v/s Gerri Powell. (Nibecker-MEX). Radio Miami International 7355 f/d cd. in 3 wks. v/s Jeff White. Schedule was rcvd. (Barto-CT). VOA 9455 via Greenville f/d "Manhattan Sky Line" cd. w/ schedule in 1 mo. (Humeny-ONT). 17800 via Bethany f/d "US Capitol" cd. in 1 mo. (Humeny-ONT). 5745 (SSB) f/d form ltr. in 13 ds. v/s John Vodenik, Tech. (Kusalik-ALB).

USA (Pirate): WRMR 1620 p/d cd. in 29 ds. for a phone call. (Comeau-MA). f/d cd. in 2 wks. via phone call. (Lobdell-MA). WVOL 7415 f/d form ltr. via Wellsville addr. in 5 wks. for 3 ms. (Lobdell-MA). WARI 7415 f/d "Street Scene" ltr. in 2 mo. for ms. (Palmer-sheim-WA). Ile-Man Radio 15050 f/d "Sports" cd. in 104 ds. for ms. (Palmer-sheim-WA).

COMPANIA RADIOFONICA LIMA, S.A.



Señor Christopher R. Lobdell
 Post Office Box 146
 Stoneham,
 Massachusetts 02180
 U.S.A.

Confirmamos su reporte de estación para nuestra Onda Corta Tropical en la Banda de 61.04 mts. Frecuencia de 4916 KHz, el día 02.23.91

JOL
 JUAN RAMIREZ LAZO
 DIRECTOR GENERAL

Centro Cívico, Lima 1, Perú

Tel: 331188 - 330848 Fax: 336134



Radiodifusora Nacional
 DE
 COLOMBIA

17 065 KHz Banda 17mts. @ 335 KHz Banda 1m
 11 825 KHz Banda 25mts. 9 635 KHz Banda 3m

Q.S.L.



INSTITUTO NACIONAL
 DE RADIO Y TELEVISION



Nombre / Name RICHARD A. D'ANGELO
 Dirección / Address 2216 BURKEY DRIVE
 Ciudad / City MYNASSING, PA 19610
 País / Country EE.UU. (Norteamérica)
 Fecha / Date Santafé de Bogotá, D.C., III-6/92

RADIO CLUBE DE MOÇAMBIQUE
 "The Station for Happy Listening"
 Caixa Postal 574
 Lourenço Marques

We have pleasure in receiving your report on 28-11-1966 on frequency 15.295 Mc/s via Call Sign - Transmitter power 100 Kw. Remarks: Thank you for your report

[Signature]



Mr. G. M. DARLING
 80, Boston Goss
 Ruislip Manor - Middlesex

ENGLAND

USA (Pirates): Radio USA 7415 f/d ltr. w/ promo sheet in 7½ mo. for \$1.00. (Kusalik-ALB). WMAD 7415 f/d "Alfred E. Nueman" form ltr. in 5 wks. from the Wellsville addr. for 3 ms. (Lobdell-MA). Alternative Radio 7416 f/d veri sheet in 19 ds. for 3 ms. (Comeau-MA). Voice of Shakerag 7415 f/d "Pirate/Skull QSL" cd. in 5 mo. for \$1.00. (Kusalik-ALB). Down East Radio 7413 f/d "Baker's Island" post-

card in 24 ds. QSL #14 for the station. (Prisco-PA). f/d QSL #4 for their 1st test transmission in 3 wks. for \$1.00. (Clar-NY). EBO Radio 7415 f/d form ltr. in 1 mo. Also rcvd. a Killian's Red beer cap. (Lobdell-MA). f/d "Frogmore, S.C." ltr. w/ lapel pin in 3 wks. for \$1.00. (Clar-NY). f/d info. sheet in 24 ds. for 3 ms. (Comeau-MA). f/d ltr. w/ pin in 28 ds. (D'Angelo-PA).

VENEZUELA: Radio Nacional de Venezuela 9540 f/d cd. of "Caracus" in 5 mo. for ms. v/s Martin Delfin. (Palmerstein-WA).

WEST IRIAN: Radio Suara Kasih Agung 4881.2 via Jayapura f/d signed and stamped prepared cd. w/ personal ltr. in 37 ds. for an IN rpt. Rcvd. station photos of staff announcers w/ 2 dark blue decals. v/s Ny. Setiyono Hadi, Pimpinan Studio. (Kusalik-ALB).



YVKE
Mundial

Estimado Señor José M. Valero - U.S.A
 Le agradecemos su información respecto a su audición por la frecuencia de los 5050 kHz a las 0400-0420 horas del día 8-11-66. Esperamos que disfrute nuestra programación en el futuro y nos siga reportando. Muy agradecido se despide, por YVKE Mundial

[Signature]



YVKE Mundial
 Av. Avila, Edificio Mundial,
 San Bernardino, Caracas 1011,
 VENEZUELA. Teléfono: 82-80-22 (Serial)

A few later arriving reports.

EUROPEAN RUSSIA: Radio Rossiya 7105, 9470, 12060, 11695 and 18195 p/d cd. w/ schedule in 9 wks. (Barto-CT).

PAPUA NEW GUINEA: Radio Western Highlands 3375 f/d "NBC Map" cd. w/ a very nice personal ltr. in 21 ds. for SASE. Rcvd. NBC station pennant. v/s E'sau Okole, Station Technician. (Murray-OR).

PERU: Radio Horizonte 5008 f/d cd. w/ very friendly ltr. in 6 wks. for SASE (used) v/s Rafael Alberto Vela Pinedo, Gerente. Addr: Apartado 12, Chachapoyas, Amazonas. (Lobdell-MA)

Well this takes care of another QSL Column. I typed an extra page this month. This was probably due to the larger style type. Let me know if you prefer this style over the smaller type....Sam.

TO: John Craig

We wish to thank you for your report. We have found it correct and hereby acknowledge it with this special card.

Best of QSLing. Until next month....73s



Date	Time UTC	Frequency-kHz
30 July 66	035	12075

We appreciate your interest in our programs and invite you to write again.

[Signature]
 Director of Broadcasting

Sam
[Signature]

Leading clock from BUCC PICHINCHA is the record for these who compare to 200 meter peak. This frequency was the second frequency of 1 hour and is considered to be the fifth largest leading mountain in the world.

Contributors' Page

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



LOGGINGS CONTRIBUTORS - OCTOBER 1992 - DEADLINE 10th of MONTH

The following members contributed loggings:

Brian ALEXANDER, Mechanicsburg, PA	NRD525 various Longwires
Mark ANDERSON, Prescott, MI	DX440 60' Inverted L
Jerry BERG, Lexington, MA	R8 11Q180A R390A 150' Longwire
Brian BOULDEN, Fairfield, CA	RK641 MFJ956 Indoor LW
David CARTER, Bellingham, WA	HQ180A
Jim CLAR, Rochester, NY	R8 FRG8800 ATS803A Eavesdropper 110' LW
David CLARK, Newmarket, ONT	R8 2-R7 11Q180C R8 Many, many antenni
Richard D'ANGELO, Wyomissing, PA	R8 R70 AD Sloper
Adie DURDEN, Albany, GA	NRD515 SE3 Inverted V
William FLYNN, Cave Junction, OR	R8 R2000 Sony 2010 R7A TUN3 140' LW 360' Random
Richard HANKISON, Prairie Village, KS	R5000 AD Sloper
Mark HUMENYK, Weston, ONT	D2935 AD Sloper AN60 Hot Wire
Rufus JORDAN, Pittsburgh, PA	DX302 Transoceanic 33' LW
W. KARCHESKI, Holden, MA	R5000 AD Sloper
Terry KELLY, Santa Rosa, CA	
Marie LAMB, Brewerton, NY	R600 MFJ16010 20m/90m LW
Harold LEVISON, Philadelphia, PA	R8 R70 D2999
Kevin MURRAY, West Linn, OR	
Tony ORR, Reston, VA	Sony 2010 MFJ16010 75' LW
Rev. Ed POSTON, St. Charles, IA	R8 Indoor Random
Al QUAGLIERI, Albany, NY	
Karl RACENIS, Livonia, MI	R9000 Grundig 650 Eavesdropper
Chuck RIPPEL, Virginia Beach, VA	HQ180A R1000 FT1000 130' Dipole Inv V
Doug ROBERTSON, Oxnard, CA	DX302 FRG8800 FRA7700 Longwire
Mitch SAMS, Blue Springs, MO	HQ180 FRG7 Mini Beverage Farley Loop
Todd SMITH, Norwalk, CT	SW60
Wallace TREIBEL, Seattle, WA	NRD525
Robert TUCKER, Savannah, GA	ATS803A
Dan UNRUH, Ellensburg, WA	R71A S107 Random Wire
Dave VALKO, Dunlo, PA	
Juichi YAMADA, Nara, JAPAN	NRD525 10m long Dipole
Andrew YODER, Chambersburg, PA	R390A Sony 2010 130' LW

Several reports arrived too late for this issue, but, all reports get mailed to the editors. So, even if you get it here late, don't let that stop you from sending them! Each report IS important.

Thanks to all who have shared their loggings for others to use. It is an unselfish act that is appreciated by many in the hobby to help with their logs and enjoyment of the hobby.

My apologies to CompuServe #71101,1072. I lost all but Brooklyn, NY for who it is and equipment used. Acknowledgement will be in the next column.

Enjoyable listening & good DX -

Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



Hello; I was sorry to see last month's column got lost in space. It makes you wonder where some of your QSLs are. Glad this didn't discourage you from sending loggings. We've got another good batch. Remember next month's deadlines are October 10 to Vern and October 24 to me.

- 1610 USA, NJ Hwy Auth., 8/16, 2325 w/hwy & wx conditions on NJ turnpike, also 8/19 at 1932 (Levison-PA) Yes, NASWA considers SW as 2000 kHz & above but this is interesting too--sp.
- 1620 PIRATE WRMR, 8/23, 0145-0207 rock mx, IDs, phone no. 914-434-2587. (Alexander-PA) 8/23, 0305 same type pgm professional sounding (Karcheski-MA)
- 2310 AUSTRALIA, ABC Alice Springs, 8/27, 1010 EG nx w/interview via remote bx, marginal copy (Rippel-VA)
- 2325 AUSTRALIA, ABC Tennant Creek, 8/27, 1025 evening variety show, vy strong (Rippel-VA) Good to hear from you--sp.
- 3200 SWAZILAND TWR, 8/23, 0417 GM rel pgm //5055, hymns & tlk, poor-fair (Orr-VA)
- 3205 BRAZIL, R Ribeirao Preto, 8/23, 0832-0902 ballads & pops pgm, jingles, ID 0902 (Orr-VA)
- 3215 SOUTH AFRICA, R. Oranje, 8/23, 0310 EG/AK, ID, pop mx pgm, EG DJ (Orr-VA)
- 3221.4 TOGO R. Kara, 8/23, 0535-0605 pop mx, TCs, IDs, pgm notes 0605 nx, fair (Orr-VA)
- 3230 SOUTH AFRICA, R. RSA, 1st time here since 10/87, 8/24, 0345 EG big band mx, TP, TC, anncd this freq & 9695, nx, strong sig, prob 250 kW (Clark-ON)
- 3231.7 MADAGASCAR R Madagasikara, 8/24, 0325 w/EZL mx, anmts in lang //5009.4, fair in USB to avoid RSA & ute (Clark-ON)
- 3249.9 HONDURAS R Luz y Vida, 8/24, 0326 EG rel pgm, 0327 full ID w/call (Orr-VA)
- 3255 LESOTHO BBC Relay, 8/23, 0301 ID, nx, strong (Orr-VA)
- 3260 NEW GUINEA R Madang, 8/4, 1053-1132 TC, oldies, TP 1100, EG ID, drum IS, nx abt BCCI, ID, C&W mx (Murray-OR)
- 3270 NAMIBIA NBC, 8/23, 0437-0516 rel in lang, ID 0516, hymns, possibly AK (Orr-VA) 8/23, 0503-0600 tent w/rel mx, tlk in lang, fade out 0600 (Alexander-PA)
- 3280 ECUADOR, LV del Napo, 8/23, 0942 (Quechua anmts, rel mx, 1000 full ID, more tlk (Orr-VA)
- 3285 ECUADOR LV del Rio Tarqui, 8/28, 0918-0947 long, long tlk ment Rio Tarqui & Cuenca, 2 10-sec. mx breaks, certainly not riveting morning fare (D'Angelo-PA) 8/29, 1001-1031 mx pgm, IDs 1002, canned. ID, tangos/merengues (Orr-VA)
- 3289.9 ECUADOR R Centro, 9/1, 0751-0812 campo mx, sfx, 0805 full ID & QTH (Orr-VA)
- 3289.9 NAMIBIA NBC, 8/23, 0523-0533 AK pop mx, then rel w/same YL that was on 3270 (Orr-VA) 8/23, 0310-0600 continuous lite mx, Afr. pops, tlk in lang after 0500, tent (Alexander)
- 3324.8 GUATEMALA R. Maya, 8/23, 1031 campo mx, good morning anmts, IDs, fair //2360 (Orr-VA) this one's out of order--sp.
- 3315 ADMIRALTY ISLANDS R Manus, 8/27, 0952 PD tlks, island mx (Rippel-VA) 8/18, 1145 EG/PD, sev ment of PNG (Hankison-KS)
- 3320 SOUTH AFRICA R Orion, 9/5, 0120-0140 AK MOR & pop mx, "Montego Bay," nx brief 0130, weak (Jordan-PA) 8/25, 0330 AK EZL mx, nx, EG ID (Anderson-MI) Tnx Mark--sp.
- 3335 NEW GUINEA R East Sepik, 8/27, 1000 IS, marginal (Rippel-VA)
- 3335 SWAZILAND TWR is the one here 8/24, 0256 IS, EG IDs, hymn & PT pgm, other TWR freq also in, in lang. 3335 not used since 86/87. 8/30 *0300 IS, PT anmts, rel, tnx Johnson (Valko)

- 3335 SWAZILAND TWR, 8/23, 0319-0345* PT rel, 0345 IS, fair (Orr-VA)
- 3345 INDIA, AIR Jaipur, 9/5, 0028 Indian melody, TP, nx Indian mx, 0100 tlk, best 0035-0050, not there next day, tnx Clark (Berg-MA) 8/23, 0050 Indian vcl, anmts, 0100 tlk by YL, lost 0105, must be hi power as checked for Bhopal 3315 & nothing, tnx Valko, this 1st rptd by Goonetillekke on RNMN (Clark-ON) Juichi Yamada rptd this last month w/AIR IDs, thot at 1st was Kashmir but is this.
- 3356 BOTSWANA, RB 8/24, 0423-0500 lang & lite mx, 0459 IDs, 0500 mx, ute QRM (Orr-VA)
- 3374.4 SUMATRA, RRI Medan, 8/25, 1500-1535 Jak nx, 1520 lcl mx, Today AIR Guwahati not hrd, SIO-252 (Yamada-JAPAN)
- 3375 NEW GUINEA R Western Highlands, 8/4, 1136-1301* tribal chanting, 1200 TP, drum IS, PD ID, EG nx, poss speech by prime min., C&W mx, IDs, NA to close (Murray-OR)
- 3380.7 MALAWI NBC 8/24, 0320 drums/tribal vcl, EG TC 0323, anmts in lang (Clark-ON) 8/23, 0354 rel sermon EG, hymns, 0400 ID, rel pgm in lang, no ute (Orr-VA)
- 3385 NEW BRITAIN RENB 8/18, 1100 nx to 1116, mx pgm in PD/EG (Hankison-KS) 9/1, 1106-1120 nx & some tlk, fading plus I had to go to work (D'Angelo-PA)
- 3395 NEW GUINEA R Eastern Highlands, 8/10, 1154-1301* C&W, PD ID, variety mx, 1257 Karai Papua anmt, NA (Murray-OR)
- 3395.1 SUMATRA RRI Tanjungkarang, 9/1, 1303-1343 Jak nx, YL tlk w/Islamic mx, 1330 tlk, pops, SIO-333 (Yamada-JAPAN)
- 3880 CLAND R Free Bougainville, 8/22, 1000 tlks w/many ments Bougainville, some EG, weak-fair to 1055 fade (Clark-ON)
- 3904.9 SUMATRA RRI Banda Aceh 8/11, 1635-1708 lcl mx, 1659 IS, 1700 Jak nx, QRM Vo People 3912, AIR 3905 not noted (Yamada)
- 3905 NEW IRELAND RNI, 8/1, 1008-1045 nx ment New Ireland, sev. provinces, sports 1018, drums, TC, pgm anmts, TC, request pgm, QRM ham net (Valko-PA) Real glad to have you aboard--sp.
- 3925 JAPAN NSB, 8/23, 1026 instls, tlk, R Tanpa IDs (Orr-VA)
- 3959.8 SULAWESI RRI Palu, 9/1, 1420-1505 lcl mx, 1458 IS, 1500 Jak nx, usually unhrd because N Korean here but not today (Yamada)
- 4003.1 SUMATRA RRI Padang, 8/20, 1301-1330 Jak nx, full ID 1324, lcl pop mx, QRM RTTY, SIO-333 (Yamada-JAPAN)
- 4553 BOLIVIA, R Tropic, 8/5, 0135 s/off anmt w/full ID ment "transmitiendo desde Trinidad, dpto. de Beni." (Durden-GA) 8/20, 1000-1020 tent lively LA mx, campo flutes, 1011 live M w/canned anmts, anmts vy weak (Valko-PA)
- 4607.3 IRIAN JAYA RRI Serui, 9/6, 1517-1525* exotic lcl mx pgm, 1522 closing anmt w/Love Ambon, QRM Khabarovsk 4610 (Yamada)
- 4649 BOLIVIA R Santa Ana, 8/23, 0108-0120* ballad pgm, 0118 anmts 0119 canned echo ID (Orr-VA)
- 4753.6 SULAWESI RRI Ujung Pandang, 8/8, 1228-1315 ID, IN pops, 1247 interview, 1258 ID, SCI, econ nx (Murray-OR)
- 4754.9 BRAZIL Rdf. Maranhao, 8/6, 0040-0100 ZY ballads, TCs, promos full ID, freq, jingle 0101, back to mx, nx promo (Valko-PA)
- 4765 CONGO RTV Congolaise, 8/30, 0425 FR string mx, excited tlk abt president, ID 0424 (Racenis-MI) 8/9, 2316 FR & Afro pop IDs, ment Brazzaville (Lamb-NY)
- 4775 IRAQ Rep of Iraq R, 8/21, 2303-2325* AR tlk, Koran, anmts, NA & OC (Orr-VA)
- 4775 PERU R Tarma, 8/8, 0441-0504* mx pgm "Cancionero Iberamericano," ID & e/off anmts (Durden-GA)
- 4777 GABON Rdf Gabonaise 8/16 *0500-0506 NA, FR anmts, natl nx, ment Gabon, ballad (Paszkiewicz-WI) 8/22, 0505 hilife mx FR anmts, ute QRM (Durden-GA) 8/18, 2249-2302* pop mx, anmts, "Ici Libreville" NA (Orr-VA)
- 4777.1 JAVA RRI Jakarta, 9/3, 1505-1535 nx, "Inilah R Republik Indonesia Programa Nasional," tlks, fair (Yamada-JAPAN)
- 4780 DJIBOUTI RD 1206-1248* Somali pol cmtry mixed w/Italian opera, "This is Djibouti," 1222 full Somali ID, 1236 EG ID, opera 1243, sked anmts, NA to s/off (Murray-OR)
- 4785.2t AZERBAIJAN, Baku 8/27 0227 Asian instls, lang anmts (Durden)

- 4785.2 AZERBAIJAN Baku, 8/23, 0237-0300 1st Pgm w/class mx, pgm ID, 0300 lcl ID, tlk by M (Orr-VA)
- 4785 BRAZIL R Caiari, 8/23, 0814-0831 ID, M anncr, mx pgm w/campo tuneo (Orr-VA)
- 4790 PERU R Atlantida, 9/12, 0145-0230 lively mx pgm, big prod echo ID, jingles, TC, freq info (Jordan-PA)
- 4795 BRAZIL R Nova Dif, 8/23, *0758-0810 choral mx, full ID, rel pgm (Orr-VA)
- 4804.4 PERU R Villarica, 8/22, 0243-0258* ID 0252, PSAs, ads, 0254 full ID, NA (Orr-VA)
- 4805 BRAZIL Rdf Amazonas, 8/12, 0318 Braz pop/rock, ID jingles, ads, ment Olympics (Lamb-NY)
- 4815 BRAZIL Rdf Londrina, 8/11, 0958 ID, 1000 tlks (Yamada-JAPAN)
- 4820 ANGOLA EP da Huila, 8/24, 0507 Afr. pops, IDs, one lcl ID natl nx //7245, strong (Orr-VA) Also 8/22, 2237 ballads, TCs, IDs, nx (Orr-VA)
- 4820 HONDURAS HRVC 8/25, 0300 mx, gospel in SP (Anderson-MI)
- 4824.5 PERU LV de la Selva 8/12, 0110 pop mx, ID 0112 (Hankison-KS)
- 4833 COLOMBIA R Buenaventura, 8/20, 0930 w/SP-FR lesson, tlk, 1000 nx, ID 1005, hvy QRM from Reloj 4832 (Berg-MA)
- 4845 MAURITANIA ORTM 8/31, 0630 AR IS, Islamic mx, 0700 ID, "Huna Nouakchott," nx, strong (Durden-GA)
- 4850.6p ECUADOR R Luz y Vida, 8/30, 0630-0830 continuous HC mx, occae. anmts by YL but no ID hrd (Alexander-PA)
- 4863.8 MOLUCCAS RRI Ambon 8/25, 1237-1408 drama w/v crying a lot, ads, 1300 ID, Jak nx, 1316 NA, Indo pops, ID, IS (Murray-OR)
- 4871.1 ECUADOR Centinela del Sur, 8/23, tlk, TC, ment Loja, Quito, OIO3 ID, esporte pgm (Orr-VA)
- 4879.7 ECUADOR, RN Espejo, 8/30, 0142 clear canned ID, "Nac. Espejo 1310 kc onda larga, 4??5 kc onda corta banda internac. de ?? metros, desde Quito, Ecuador, America del Sur." (Valko-PA) 8/27, 0240 live coverage futbol, ID (Durden-GA)
- 4884.9 COLOMBIA Ondas del Meta, 8/29, 1024 live anmts & IDs, ranchera mx, good w/QRM from weak LA underneath (Valko-PA)
- 4890 GABON RFI Relay, 9/10, 0405 FR nx, anmts, instl bridges, ID 0430, fading (Jordan-PA)
- 4904.2 BRAZIL R Relogio Federal, 8/24, 0249 nx, time ticks, IDs, TCs (Orr-VA)
- 4909.4 CAMBODIA VOPC 1445-1500* in Cam w/native mx, clear ID and NA //6090, fair, 1st time hrd in 15 yrs! (Treibel-WA)
- 4915 CHINA Guangxi PBS, 8/17, 1249 tlk, instls, 1300 TP, ID, anmts, trumpets, CH opera (Murray-OR)
- 4915 GHANA GBC 8/17, 0600 EG pgm w/IS, weak (Boulden-CA)
- 4920 AUSTRALIA ABC Brisbane, 9/1, 1100 nx, mx break, ABC ID, analysis of world events (D'Angelo-PA)
- 4920 ECUADOR R Quito, 9/4, 0426 jazz standards on trumpet, ID, ment network, nx, promo w/SWAT theme (Lamb-NY)
- 4924.8 BOLIVIA R San Miguel, 8/26, 0947-1022 LA mx, anmts over flutes, TCs, saludos, ment trabajadores, canned ID, "R San Miguel la voz de vicariato apostolica de pando," good lvl but distorted (Valko-PA)
- 4925 BRAZIL Rdf. Taubate 8/23, 0712-0745 campo mx, M anncr, slx TCs, 0723 ID (Orr-VA)
- 4926.9 SUMATRA RRI Jambi 8/17, 1403-1447* tlk, pops & folk mx, today anniv of declaration of independence (Yamada-JAPAN) Also 8/22, 1434-1520 prob festival relay, fair v/Mayak (RM 4930 (Yamada-JAPAN)
- 4930 IRAQ Rep of Iraq Bx, 8/30, 2323-2326* Koran, Iraqi NA, weak under strong OC (Alexander-PA)
- 4934 KENYA KBC 8/9, 0300 EG nx, sports, cmtry, mx (Anderson-MI)
- 4935 BRAZIL R Capixaba, 8/23, 0745 soft flutes, canned echo ID, tlk by M&W (Orr-VA)
- 4951 ANGOLA, RN 8/16, 0005-0030 PT w/salsa, reggae, ID (Paezkiewicz-WI) 8/21, 2104 pops, ID 2104, 2114, fair (Yamada-JAPAN) Sounds like a great catch from Japan--sp.
- 4961 ECUADOR R Federacion 8/28, 1057 rel mx in SP, Indian mx prayer, SP ID, vy strong (Durden-GA)

- 4961.1 DOMINICAN REPUBLIC, 9/20, 0403-0506, Cuban type vcls, lots of shouting over mx, "Viva Caliento," TC, ID, QTH, FC, not sure of ID, sounded like R Antillas (Paszkiewicz-WI)
- 4965 BOLIVIA R Juan 23, 8/21, 2337-0003* IDs, lite mx, s/off anmts, full canned ID, flute theme (Orr-VA)
- 4976 UGANDA RU, 8/22, 0357-0419 EG nx, "This nx comes to you from R Uganda," xmtr hum (Orr-VA)
- 4980 VENEZUELA Ecos del Torbes, 9/2, 0335-0355* "Third Man Theme," full ID, freq & QTH, ballads, anmts (Jordan-PA)
- 4990 CHINA Hunan PBS, 8/15, 1234 CH speech, very monotonous, good sig (Boulden-CA)
- 5004.8t BOLIVIA R Libertad, 8/30, 0135 LA dance mx, thot hrd M anncr, bad ute QRM but definitely there (Valko-PA)
- 5009.7 MADAGASCAR R Madagasikara, 8/19, 0303 ment Madagasikara, tlk lang, interview, xmtr probs (Orr-VA)
- 5028v CUBA R Rebelde, 8/8 1052 live Olympic coverage, obviously Cuba one participant, freq jumping (Valko-PA)
- 5029.9 BHUTAN BBS 8/26 1334 eerie chanting, speech, 1400 ment of Indo, Malaysian, Egyptian svc, ID, ". . . coming to you from Rep. of Bhutan," 1401 lang nx, 1409 folk mx (Murray-OR)
- 5030 VENEZUELA R Continente 9/1 0443 old YV mx, ID, request pgm, phone nos (Durden-GA) 9/1 0724 merengue mx, TC, IDs ads, vy strong (Orr-VA)
- 5035 CENT AFR REP Rdf Centafricaine, 8/24 0430 FR "Ici Bangui," morning pgm (Durden-GA)
- 5047 TOGO Rdf Togolaise, 8/30, 2230, Mozart's "Eine Kleine Nachtmusik." (Racenis-NI)
- 5050 ECUADOR R Jesus del Gran Poder 9/1, 2353 IDs, "Un Bolero Para TI" mx pgm, TCs (Lamb-NY)
- 5050 TOGO Rdf Togolaise tent 8/9, 2240 class & Carpenters mx (were you listening, Gerry) FR tlk, poss ID, nx (Lamb-NY)
- 5055 SWAZILAND TWR 8/24, 0420 vy strong in GM //3200 both off 0428, then RFO quite good here (Clark-ON) 8/22 0425 GM rel pgm, hand bell IS, under TIFC (Orr-VA)
- 5060.5 ECUADOR RN Progreso 8/27, 0935 "Casos de la Vida Real," ID, next pgm, "El Sol Brilla Para Todos." (Durden-GA)
- 5075 COLOMBIA Caracol, 8/22, 0055 discussion abt Colombia, Ecuador, occas. IDs, jingles, ads (D'Angelo-PA) 8/29, 0307 ad/promo block during world nx, ID (Valko-PA)
- 5850 CLAND R Patria Libre 8/26 0025-0107* mx, IDs (Alexander-PA)

This month we had contributions from 11 states, 1 Canadian province and 1 foreign country. Thanks to newcomers CARL RACENIS, DAVE VALKO, and MARK ANDERSON. Carl contributed last month as did STEVE REININGER from Rhode Island, a new state for us. TONY ORR sent us a bunch of logs last time and I'm glad to say we still have a bunch from him this time. Some of our members such as ADIE DURDEN are obviously fluent in Spanish, which makes the program details all the more interesting!

Just received the 1993 Passport to World Band Radio. Another slick publication, I will have it open near the radio at all times. Besides the famous "blue pages," which are a frequency directory, there are program listings and other special features. Our own MARIE LAMB did a lot of work on the English transmissions for this.

Last month I was in Montreal for a few days. Unfortunately, I could not get a tour at Radio Canada International but I did see the building where CIQC-6005 kHz is located. Also resparked an old interest in stamp collecting.

The Journal is really looking good these days. It looks like more and more members are getting involved. All are encouraged to contribute any material they would like to as many columns as possible. Two columnists in particular who could use additional material are Richard Cuff and Bob Brown for DXers Forum. Thank you for your support!



International Band Loggings

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

- 59535 COSTA RICA R Casino in SP 1039, ranchera mx, anmts, TC's, ID's (Valko 8/29)
 59554 GUATEMALA R Cultural in SP 1040, LA pop mx w/M host, //3300, QRM (Valko 8/29)
 59697 PERU R El Sol in SP *1003, campo mx, ID's, fqys, irreg bcsts (Valko 8/5)
 5970 BRAZIL R Itatiaia in PT 0903, ID's, slogans, ads?, phone #'s, p (Clar NY 8/27)
 59832nf? PAKISTAN RP in Urdu/EG 1525, IS, ID, speech, Koran, nx, //47906 (Yamada JP 8/11)
 5985 CONGO RTV Congolaise in FR 2225, Afro hi-life mx, phone tlk, f (Humenyk ONT 8/2)
 5995 MALI RTV Malienne in FR 2305, Afro mx, nx, ID, //4835 (Valko 8/22, Kelly CA 8/9)
 in FR 0610, national nx, wx, lcl mx, //4873 (D'Angelo PA 8/29, Durden GA 8/12)
 6005 ASCENSION IS BBC relay in EG 0452, mx, cmntry, TC, ID, nx, p-f (Poston IA 8/12)
 6010v MEXICO R Mil in SP 0705-1030, ballads, vocals, ID's, "Amazing Grace" in SP, ads,
 "Manana" weekly countdown (Jordan PA 8/30, Lamb NY 8/22, Racenis MI 8/21)
 6015 CANADA R Austria relay in EG 0630, nx, cmntry on Yugoslavia war (Kelly CA 8/10)
 6035 COLOMBIA LV del Guaviare in SP 1000, 'RCN' ID, ads, mx (Durden 8/28, Valko 8/29)
 60499 NIGERIA RN Ibadan in EG/vern 2307*, Afr folk/pop mx, TC, sked, nx, ID, off w/NA
 (D'Angelo PA 8/29, Alexander PA 8/29, Quaglieri NY 8/1)
 6070 PAKISTAN RP in Urdu 1428, tlk, lcl mx, pips 1500, ID, nx, f (Yamada JP 8/16)
 6085 CANADA Deut Welle relay in EG 0300, nx, cmntry on Yugoslavia (Unruh WA 8/28)
 6085 GERMANY Bayer Rundfunk in GM 0159, blues mx, ID, nx, wx, f/QRM (Lamb NY 9/7)
 60898 NIGERIA RN Kaduna in Vern 2130-2300*, Af folk mx, Koran, NA (Alexander PA 8/30)
 6110 PHILIPPINES VOA relay in EG 1333, slo speed nx, ID, feature (Robertson CA 8/15)
 6130 LAOS Vientiane(t) in Lao 1251, 'Lao' ID?, lcl mx, no R Aust QRM (Flynn OR 8/15)
 6150 COLOMBIA Caracol Bogota in SP 0625, interview, ID (Boulder CA 9/8)
 6160 UNITED KINGDOM R Japan relay Skelton in EG 2343, ID, QRM fm CKZN (Berg MA 8/9)
 6185 MEXICO R Educacion in SP 0926, pop mx, ID, calypso, g-vg (Jordan PA 8/30)
 6195 SINGAPORE BBC relay in EG 1402, sports, pips, ID, nx, f-g (Robertson CA 8/15)
 6230 MONACO TWR Monte Carlo in BM 0343, IS, ID, pop Christian song (Racenis MI 8/26)
 62503 EQUATORIAL GUINEA RN Malabo in SP 2202*, Afr hi-life, NA, g (Alexander PA 8/22)
 6280 LEBANON V of Hope in EG 0045, Dr Gene Scott sermon, address, p (Berg MA 8/23)
 6560 IRAQ Iraqi Rep Bcstng(p) in AR 0245, AR mx, anmts, f/with QRN (Durden GA 8/5)
 66285 PERU LV de San Antonio in SP *0000-0414v*, NA, campo mx, ID, huaynos, messages,
 anmt lcl meeting (Durden GA 8/5, Valko 8/23, Quaglieri NY 9/2)
 67243 PERU R Satelite in SP 0223-0403*, mx, ID, fqy, NA (Yoder PA 8/31, Quaglieri 9/2)
 69102 EQUATORIAL GUINEA R Africa in SP 2145-2203*, SP pops, ID, fast Afro drum mx,
 closing anmts, NA, brief tone & off (Alexander PA 8/22, Valko 8/23)
 7125 ITALY IRRS Milan in EG 0600, relig mx, ID, address, mailbag, jazz/pop mx, UN
 pgm, C&W mx (Alexander PA 8/30, Karcheski MA 8/22, Clar NY 8/9, Lamb NY 8/21)
 71555 NIGER LV du Sahel in FR 0555, nx, ID 0600, //5020 (Durden GA 8/16)
 7170 SENEGAL ORT du Senegal Dakar in FR 0658, Afr choral mx, nx, ID, Mass (Lamb 8/16)
 in FR/vern 2234, tribal mx, tlk, pips, anmts, ID, p (Clar NY 8/19)
 7180 UNITED KINGDOM VOA relay in PL 2134, Beatles mx, feature, US pops, f (Lamb 9/5)
 7200 SUDAN Sudan NBC in AR 0247, Koran, pips, ID, march mx, nx, chime-like IS, ref to
 Omdurman, fqys, //9190 net hrd (D'Angelo PA 8/29, Karcheski MA 8/22)
 7345 CZECHOSLOVAKIA RC in EG 0300, IS, ID, nx, features (Humenyk ONT, Poston IA 7/25)
 7380nf? ETHIOPIA V of the Broad Masses in lang *0327, IS, tlks, mx, //7020 (Berg MA)
 7385nf COSTA RICA RPPI in EG 2343, UN pgm, ragtime mx, pron, ID, g (Lamb NY 9/5)
 9190 SUDAN Sudan NBC Omdurman in AR *0252-2200*, IS, ID "Huna Omdurman", nx, tlk, ME
 mx, Koran, best on LSB, //7200 (Sams 8/3, Alexander 8/23, Flynn OR, Valko 8/1)
 9420 GREECE PTH in EG 0336, GK pop/folk mx, ID, nx, into GK 0350, g (Lamb NY 9/7)
 9475 EGYPT R Cairo in EG 0210, mail, ID, AR mx, nx (Lamb, Feinberg 8/29, Tucker GA)
 9515 NETHERLAND ANTILLES TWR in SP 0658, IS, ID, vg (Boulder CA 8/29)
 9525 POLAND PR Warsaw in EG 1746, feature, nx re Poland, mx, sked/fqy, f-p (Clar NY)
 9530 SPAIN REE in EG 0015, Olympic rpt, "Window on Spain", ID, sked, g (Poston IA)
 9540 VENEZUELA RN Caracas in EG 1140, nx, current affairs, f (Anderson MI 8/1)
 9565 BRAZIL R Univerao in PT 0157, ID, ment "Curitiba", fqy, slogans (Clar NY 8/9)
 9575 ITALY RAI in EG *0425, ID, fqys, nx, tlk re Columbus musical, f (Lamb NY 8/13)
 9590 NETHERLAND ANTILLES RN relay in EG 0328, IS, ID, nx, exc (Unruh WA, Poston IA)
 9595 JAPAN R Tanpa in JP 1114, animated tlking, ID's, mx bridges, p-f (Clar NY 8/29)
 9600 PORTUGAL R Renascenca in PT 0028, tlk, ID's, nx, QRM Vatican (Clar NY 8/6)

9605 VATICAN ST VR in EG 0250, IS, ID, gospel msg (Lamb NY, Poston IA, Anderson MI)
 9610 AUSTRALIA ABC Perth in EG 1225, Mills Bros vocals, ID, nx, f (Lamb NY 8/5)
 9615 PHILIPPINES R Veritas Asia in RS 1434, ID/fqys in EG, into RS pgm (Hankison KS)
 9630 SO AFRICA SABC(t) in AK/EG 0558, pop mx, AK anmts, ad in EG, mx (Lamb NY 8/23)
 9660 AUSTRALIA ABC Brisbane in EG 0900-1345, nx, wx, ID's, TC, "Live on Stage" mx pgm
 Beatles songs (Clar NY 8/29, Hankison KS 8/29)
 9665 BRAZIL R Marumby in PT 2327, ads, anmts, pops, ID, slogans, nx, fqys (Clar 8/19)
 9670 ANTIGUA Deut Welle relay in EG 0508, nx, "European Journal", g (Poston IA 8/12)
 9690 SPAIN R Beijing relay in EG 0345, cmntry on Nigerian oil, f-g (Unruh WA 8/23)
 9695 SWEDEN RS in EG 0200, nx re atrocities in Yugoslavia/aid to S Afr (Unruh 8/7)
 9700 GREECE VOA relay in EG 2020, tlk re Count Basie orch, p (Humenyk ONT 8/3)
 9700 NEW ZEALAND RNZ in EG 0839, interview, pipe, ID, nx, wx, exc (Robertson CA 9/7)
 9715 UZBEKISTAN R Tashkent in EG 1336, ID, mx pgm w/M&W hosts (Hankison KS 8/9)
 9735 PARAGUAY RN in SP 0108, ID's, interview, sked, vocals (Boulden CA, Racenis MI)
 9750 CANADA RCI in EG 0541, interview on green houses in Yukon (Boulden CA 8/25)
 9770 MALI R Beijing relay in EG 0001, nx, cmntry, ID, CH lesson (Lamb NY, Levison PA)
 9760 MOROCCO VOA relay Tangier in EG 2010, Olympic rpt Barcelona, f (Humenyk ONT 8/2)
 9810 CZECHOSLOVAKIA RC in EG 0411, nx, ID, "Magazine '92", pop mx, f (Lamb NY 8/12)
 9820 PHILIPPINES FEBC in CH 1415, Oriental mx, //9850 weaker (Hankison KS 8/30)
 9830 CROATIA CR Zagreb in CR 2343, dance mx, pipe, ID, nx, f (Karcheski MA 8/8)
 9830 PALAU KHMN Voice of Hope in CH 1125, hymns, ID's, address in CH/EG, relig tlk,
 polynesian type mx, f-p (Clar NY 8/29, Karcheski MA 8/9, Hankison KS 8/16)
 9835 HUNGARY R Budapest in EG 0215, features, sports, DX pgm (Poston IA, Yoder PA)
 9865 UKRAINE R Ukraine Int in EG *2100, IS, ID, nx, lcl pops, //7250 (Alexander 8/29)
 9870 SO KOREA R in EG 1600, nx, CH fishing agreement, RS visit, f (Unruh WA 8/5)
 9930 BELGIUM BRT in EG 2331, nx, end of vacations, g, //13655 (Levison PA 8/25)
 9950 INDIA AIR in EG 0045*, Indian mx, ID's, film mx, f (Lamb NY 8/12)
 11250nf UKRAINE R Ukraine Int in EG 2359, IS, ID, nx, cmntry (Alexander PA 8/26)
 11645 GREECE VOG Kavalla in EG 0145, cmntry on mx conductor, ethnic mx (Levison 8/21)
 11680 FRENCH GUIANA R Beijing relay in EG 0400-0457*, Asian mx, cmntry, CH lesson, ID,
 skeds, econ nx of China, instrml close-out (Jordan PA 9/10, Unruh WA 8/10)
 11715 PHILIPPINES VOA relay in EG 1326, "On the Line" pgm, fqys, f (Robertson CA 8/15)
 11735 GABON R Japan relay in EG 2145, "Media Roundup", RFPI sked info (Poston IA 8/2)
 11805 GUAM KIWR in EG 0950, "Insight to Living" re prophet Elijah, f (Racenis MI 8/10)
 118225 COLOMBIA R Nac in SP 2123, ID's, mx pgm, wipe out by Tirana 2158 (Yoder PA 8/30)
 11825 ALBANIA R Tirana in EG 2215, sked/fqy anmts, LBX, folk mx, f (Clar NY 8/25)
 11830 BRAZIL R Anhanguera in PT 0200, ID's, fqys, tlk pgm, exc (Valko 8/30)
 118357 URUGUAY R El Espectador in SP 0155, phone interview, severe QRM (Yoder PA 8/25)
 118545 BRAZIL R Aparecida in PT 0203, canned anmts/ID, tlk, soft mx, g (Valko 8/30)
 11865 MALTA Deut Welle relay in EG 0108, nx, ID, "European Journal", f-p (Lamb NY 9/3)
 11865 JAPAN RJ Tokyo in JP 1800, tlk, ID, exc (Robertson CA 9/7) in EG 1435, story on
 Industrial devel & its effect on the environment (Boulden CA 8/25)
 11870 YUGOSLAVIA RY in EG 0045-0140, political tlk, ID, fqys, nx, movie review, pgm re
 missing persons (Lamb NY 8/10, Yoder 8/17, Anderson MI 8/4, Karcheski MA 8/9)
 11880 RUSSIA R Galaxy in EG 1908, mx sels, ID, g (Levison PA 8/18)
 11905 BRAZIL R Universo in PT 0325, canned ID's, relig preaching, //9565 (Valko 8/30)
 11920 PHILIPPINES VOA relay in EG 1749, pop vocals, ID, fqys, pipe, f (Robertson 9/7)
 11920nf ARMENIA R Yerevan in EG/SP/AM 2145, t/in to EG 2145, into AM 2200, then SP 2235,
 into EG 2243 w/ID's, nx, mx breaks (D'Angelo PA 8/18, Alexander PA 8/30)
 11940 LESOTHO BBC relay in EG 0603, African nx, ID, "Postmark Africa", f (Lamb NY 8/9)
 12020 PHILIPPINES FEBC in CH 0846, children recitals/singing, ID, IS (Robertson 8/16)
 12040 UKRAINE R Ukraine in EG 0035, cmntry, taped rpt, exc //7195, 11520 (Humenyk ONT)
 12070 RUSSIA R Tikhoyokean in RS *0715-0800*, soft melodic IS, ID, nx, upbeat mx,
 tlks, //13605, 13645, 13680 (Jordan PA 8/22) ED: Khabarovsk site per PWBR.
 12075nf RUSSIA R Aleph in RS *1559, 12 second melody from The Hatikvah (Israeli NA),
 tlks, rock/pop mx, R Moscow IS 1659, p (Berg MA 8/30) ED: This is the "Jewish
 Childrens' Organization" station according to Berg.
 12085 SYRIA R Damascus in AR 1900, nx, ments of Israel & peace tlks (Rippel VA 8/27)
 12160nf USA WHRI Indiana in SP 0215-0303, Cuban-exile pgming, //9495 (Alexander PA 8/30)
 13620 KUWAIT R Kuwait in EG *1800-2100*, pipe, ID, short NA at s/on, sked, lite mx, nx
 tlk re Islam, NA at s/off (Alexander PA 8/30, Yoder PA 8/30, Feinberg 8/16)
 13660usb CUBA RHC in EG *0200, fqys, ID, nx re 1958 uprising, Cuban mx, "Timeout" sports
 pgm re the Olympics (Tucker GA 8/2, Lamb NY 9/6)
 13700 BOTSWANA VOA relay in EG 2030, nx re ANC, a Kenyan political party (Humenyk ONT)
 15009 VIETNAM VoV in EG 1230, nx, ID, cmntry, mx (Clar NY 8/30, Hankison KS 8/29)
 15084 IRAN VOIRI in Farsi 1810, lcl mx, ID, Qu'ran (Lamb NY 9/7, Hankison KS 8/30)
 15090 VATICAN ST VR in EG 2006, relig tlk, hymn by Ernie Ford, nx, ID, f (Lamb NY 9/5)

- 15105 SRI LANKA Deut Welle relay in CH 1300-1320*, long monolog, ID (Hankison KS 8/30)
- 15135 UKRAINE R Ukraine Int in UK *1800, IS, ID, fqys, nx, pop mx, f (Lamb NY 9/7)
- 15170 MALI R Beijing relay in EG 2012, Afr xmsn, Olympics rpt, cmntry (Flynn OR 8/9)
- 15220 SOUTH AFRICA RSA in EG 0611, ID, will change name to Channel Africa (Lamb 9/7)
- 15260 IRAN VOIRI in EG 1901, "Perspective", mx, ID, fqys, IS, to SP 1929 (Lamb 8/27)
- 15305 UNITED ARAB EMIRATES Abu Dhabi in EG 2325, "Arabs in History", ID (Racenis MI)
- 15340nf GABON R Japan relay in RS 2000-2057*, other langs after RS (Berg 9/6) ex 15355?
- 15345 ARGENTINA R Nac in SP 1318, phone #'s, ancmts, ID's, slogans, mx (Clar NY 8/23)
- 15350 ECUADOR R Mac via HCJB in SP 1729, NA, ID, fqys, tlk, Andean mx, f-g (Clar 8/10)
- 15400 ASCENSION IS BBC relay in EG 1930, Afr nx, "Postmark Africa" (Jordan PA 8/30)
- 15410 ANTIGUA Deut Welle relay in GM 2352, tlk, rock mx, IS (Tucker GA 8/23)
- 15410 PHILIPPINES VOA relay in CH 1319, cmntry by YL, //12040, 17740 (Humenyk ONT 8/2)
- 15425 SRI LANKA SIBC in EG 2331, ID, address, flute mx, nx (Racenis MI, Clar NY 8/10)
- 15425 PHILIPPINES VOA relay in EG 1235, "Weekend Magazine", ID (Tucker GA 8/15)
- 15490nf? ECUADOR HCJB in EG 1952, DX pgm, ID, fqys, into lang 2000 (Jordan 9/12) USB bcst
- 15550 PAKISTAN RP in EG 1725, relig tlk, ID, press review, f-g (Clar NY 8/17)
- 15570 UKRAINE R Kiev in UK 1516, instrumental mx, tlk, //11840 (Humenyk ONT 8/2)
- 15580nf? RUSSIA VO Freedom via R Moscow in VT 1358, lively fanfare twice, ID (Valko 8/2)
- 15710 CHINA R Beijing(p) in CH 1515, Taiwan l service, UTE QRM, tlks (Flynn OR 8/19)
- 17535usb ECUADOR HCJB Quito in PR/EG 0014, bells, Christian mx, Bible reading, into EG 0029, ID's, "Studio Nine" feature (Clar NY 8/5, Lamb NY 8/10)
- 17555 BELGIUM BRT in EG 1308, Belgian press review, ID "Radio World" (Lamb 9/5)
- 17620 FRANCE RFI in EG *1555, IS, ID, fqys, African mx, nx, //17795, 17850, rock mx, mail (Anderson MI, Lamb NY) in PR 1827, mx, ID, interview in EG (Tucker GA 8/30)
- 17620 FRENCH GULANA RFI relay in PT 0043, ID, address, FR lesson, tlk, g (Clar NY 8/5)
- 17630 GABON Africa #1 in FR 1045, hi-life mx, ID's, rpts (Clar 8/29, Hankison KS 8/8)
- 17730 VATICAN ST VR in EG 1730, xmsn to Africa, world nx, chorals, g (Levison PA 8/13)
- 17790 SINGAPORE BBC relay in EG *0059, ID for E Asia WS, nx, features, f (Lamb 8/19)
- 17800 RWANDA Deut Welle relay in EG *1055-1150*, IS, ID, nx, "Africa This Week", fqys, (Valko 8/1) in PR 1245, African mx, ID in GM/EG at 1259* (Hankison KS 8/29)
- 17830 HONG KONG BBC relay in EG 0011-0045*, "Newsdesk", ID, EG lesson, f (Lamb 8/17)
- 17860 RWANDA Deut Welle relay in GM *1758, IS, site ID, nx, cmntry, g (Lamb NY 8/9)
- 17865 COLOMBIA R Nac Bogota in SP 0005, tlk, ID's, LA rhythms, p-f (Clar NY 8/6)
- 17870 SWEDEN RS in EG 1503, "60 Degrees North", nx, wx, "Media Scan" (Poston IA 8/4)
- 21480 ECUADOR HCJB Quito in EG 1717, relig tlk, ID, pips, mx, DX pgm (Robertson CA, Lamb 9/5) in SP 2213, ID, in passing (Yoder PA 8/29)
- 21490 AUSTRIA RAI in GM 1532, "Third Man Theme", Willie Nelsso mx, ID (Lamb NY 8/22)
- 21535 GERMANY VOA relay in AR 1525, ME mx, ID, AR tlks, EG sound bite, nx (Lamb 8/22)
- 21605 UNITED ARAB EMIRATES R Dubai in EG 1640*, nx, ID's, sport scores (Lamb NY 8/9)
- 21665 ROMANIA RRI in EG 1346, letter from Turkey, tlk re Olympics, f (Humenyk ONT 8/2)
- 21720 USA WQFC via WYFR Fla in EG 2259*, EG/CH lesson, xmsn to Europe (Flynn OR 8/17)
- 21740 AUSTRALIA RA in EG 0154, ID, fqys, mx interval, nx 0200, g (Levison PA 8/26)
- 25750 AUSTRALIA RA in EG 0845, Darwin xmr sked 0800-0900, used to look at transpolar propagation, //9580, weak and s/off 0858:30 with no ancmnt (Berg MA 8/20)
- 26299 ARGENTINA R Nac in SP 2227, tlks, ID, TS 2230, military xmr? (Flynn OR 8/17)

CLANDESTINE STATIONS

- 6305 LV del Cid Guatemala in SP 0758, anti-Castro propaganda (Quaglieri NY 8/26)
- 63399v R Muhabura Rwanda in lang 0407, stn of Rwanda Patriotic Forces, long choral theme, drums, ID, native songs, tlk, chants, 0522*, power?, f (Clark ONT 8/27)
- 7480v VO Mojahed Iran? in Persian 1601, tlk, revolutionary mx, ID "...Iran", moved around 7460 & 7470, jamming & QRM fm R Beijing in RS, //5070v (Yamada JP 8/9)
- 9400nf? R Azadi Iran? in lang *0230, IS, vocals, tlk, g (Valko 8/23)
- 15650nf? R Azadi Iran? in lang 1843, ID's, nx, cmntry, patriotic mx, tlk, p (Clar NY 8/8)

PIRATE STATIONS

- 7415 DownEast R in EG 0158, equip test, ID's, QSL info, p (Clar NY 8/2)
- 7415usb EBO Radio /in EG 0110, pop/rock mx, ID's, S Caroline QTH, f (Clar 8/1)
- 7415usb WEED Radio in EG 0310-0339*, mx by Steve Miller et al, f (Yoder PA 8/29)
- 7415 North Jersey Coast R Canada in EG 2302*, ID's, country & flute mx (Lamb NY 9/5)
- 74156 WKIK Radio in EG *0244-0247* (3 mins?), ID Florida QTH, 1 rap song (Yoder 8/30)
- 7416usb WARI Radio in EG 0216-0237*, song by The Doors, Wellesville QTH, g (Yoder 8/30)
- 7446 R Stella Europirate in EG 0435, US pops, alt fcy 11413 power only 90 watts per FWBR 1993 (Yoder 8/16) ED: Nice catch if the 7446 fcy is same power as 11413.

English Schedules

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Pinelands RBBS 609-859-1910

GENIE T.SUNDSTROM



Prepared 9/26/92 at 1:14 PM.

This month, thanks to David Alpert (NY), Michael Batchelor (WSHB), Dan Ferguson (VOA), Mike Fern (CA), Joe Hanlon (PA), Keith Hill (NY), Nigel Holmes (R Australia), Ron Howard (CA), Marie Lamb (NY), Tetsuya Kondo (Japan), Walt Novinger (CA), David Rosenthal (CA) and Frans Vossen (R Vlaanderen Int'l). I'd also like to thank the unknown staff at Radio Canada Int'l and the Voice of Free China for their timely faxes at deadline.

Notes

By the time you read this, BRT International has changed its name, effective September 27. In time for our deadline, Frans Vossen, Producer of the popular *Radio World*, sent me a fax which tells the rest of the interesting story:

"The new name of the station is RADIO VLAANDEREN INTERNATIONAAL. (Radio Flanders International - although we are under orders to use the name in Dutch exclusively, also at the beginning of Brussels Calling). The new interval signal is taken from "Waar Maas en Schelde vloelen" (Where Maas and Scheldt flow) by the 19th century composer, Peter Benoit. RADIO VLAANDERAAN INTERNATIONAAL has opted for a CONTINUOUS REPETITIVE TUNE. One melodic sentence that is repeated in a selection of variations without any silences. This is to ensure listeners will not pass by the signal during such a silence and miss the right frequency.

"The melody is taken from 'HET LIED DER VLAMINGEN' (The Song of the Flemish) better known as 'WAAR MAAS EN SCHELDE VLOEIEN (Where the Rivers Maas and Scheldt flow). This is in fact the opening sentence from the patriotic hymn

Peter Benoit composed for the historic oratorio 'DE SCHELDE' (The Scheldt)."

Assuming his plans came to pass, Frans Vossen attended the MT convention in Atlanta on the first weekend of October. I first met Frans at an ANARC convention in Virginia Beach, and he is a very interesting person. If you met him, perhaps you were lucky enough to hear him tell some fascinating tales of Africa and the radio scene going back to the days of the Belgian Congo.

More name changes: Radio RSA becomes Channel Africa on October 1. Radio Beijing turns into China Radio International with both names used until the end of the year.

Tetsuya Kondo faxes a final R Japan schedule that contains four corrections to the Skelton relays. The printed schedule mailed to the world went to press while the BBC and NIK were still making adjustments to the relay scheduling.

Unable to hear it earlier this year, I checked last month's schedule for Radio-TV Morocco (as it was announced) and it's reasonably loud and clear weekdays and Saturdays here in NJ. It's been added to the listings. RFPI, Costa Rica, announced in its September 4 mailbag show that 21465 will be off the air for the foreseeable future, and the addition of 7385 is intended to combat the interference to 7375 kHz.

In addition to the frequencies announced by R Ukraine Int'l on September 7, Marie Lamb found two additional unannounced frequencies at 00 UT: 11790 and 9665 kHz. Ron Howard sent a summer schedule of Radio Aum Shinrikyo, the Japan-based half-hour Christian program airing on almost all R Moscow transmitters at 0430 and 2030. I expect these will move an hour later after September 27. The NA branch office address:

Tired of cutting and pasting the schedules in this column? Want to look up a schedule by country or by frequency? Have an IBM PC compatible computer with a fixed disk and a modem? The English Language SWBC Schedules program retrieves data by country or transmission start time, and loads frequencies into JRC or Kenwood receivers. A subscription to the data files through a telephone BBS keeps you updated, or you can keep up the data files yourself. A catalog is available for an business-size SASE to TRS Consultants, PO Box 2275-NA, Vincentown, NJ 08088-2275, or download the catalog from the Pinelands RBBS at 609-859-1910.

Aum Supreme Truth, 8 East 48th St., #2E, New York, NY 10017 (telephone 212-421-3687) (looks like an apartment address to me). He also sent a UN Radio summer schedule which included some English programming on harder-to-hear stations.

Mike Fern and Walt Novinger add a west coast influence to the list of RMWS frequencies. Mike, it does no good to ask RMWS for the engineering data. One surfaced last year for the 1992 WRTH, it was typed and corrections noted by hand... but it still had errors in it. I have engineering data that shows

21785 RMWS: 11-14, 15-16
 21690 RMWS: 10-12, 23-03
 21545 RMWS: 11-13
 21480 RMWS: 12-13
 17890 RMWS: 23-05, 11-13
 17830 RMWS: 11-14
 17775 RMWS: 11-12, 13-14
 17765 RMWS: 14-16
 17755 RMWS: 11-12, 13-14
 17735 RMWS: 11-13
 17720 RMWS: (2030-04 mf)
 17700 RMWS: 17-20
 17675 RMWS: 11-13
 17660 RMWS: 11-12
 17645 RMWS: 11-15
 17605 RMWS: (19-21 mf)
 17570 RMWS: 11-13, 23-03
 17560 RMWS: 10-12, 21-03
 15590 RMWS: (22-23 BRT
 9/19)
 15580 RMWS: 09-10
 15560 RMWS: 23-24, 01-02
 15550 RMWS: 11-12, 13-14
 15535 RMWS: 03-05
 15510 RMWS: 17-20
 15490 RMWS: 15-16
 15480 RMWS: 12-13
 15470 RMWS: 01-04
 15460 RMWS: 11-13, 14-16
 15440 RMWS: 11-14
 15425 RMWS: 00-02 (1830-24
 mf) WNA:
 03-07 (-08
 wn)
 15415 RMWS: 03-04
 15385 RMWS: 20-22
 15375 RMWS: 1630-20, 02-04
 15295 RMWS: 13-14

15280 RMWS: 11-13
 15255 RMWS: 13-15
 15225 RMWS: 1130-15
 15190 RMWS: 17-19
 15180 RMWS: 15-17
 15155 RMWS: 11-13
 15140 RMWS: 14-15
 15125 RMWS: 12-15
 15110 RMWS: 11-15
 13775 RMWS: 23-04
 13710 RMWS: 11-13
 13610 RMWS: 15-16
 12070 RMWS: 12-13, 18-
 22, 01-02
 12060 RMWS: 21-22
 12050 RMWS: (19-21, 00 0)
 WNA: 03-07
 mf(wn)
 12045 RMWS: 03-06
 12030 RMWS: (WNA: 0330-07
 mf+wn)
 12010 RMWS: 04-05
 12005 RMWS: 2330-02
 11995 RMWS: 04-06, 14-15
 (19-21 mf)
 11980 RMWS: 04-06
 11970 RMWS: 23-03
 11930 RMWS: 16-20
 11900 RMWS: 10-15
 11870 RMWS: 15-18
 11835 RMWS: 23-01 (22-23
 BRT 9/19)
 11810 RMWS: (22-23 BRT
 9/19)
 11790 RMWS: 21-22, 23-24
 11770 RMWS: (WNA: 0430-07
 mf)
 11765 RMWS: 04-06

11750 RMWS: 21-03
 11735 RMWS: 20-21
 11705 RMWS: 14-15, 16-18
 11685 RMWS: 19-22, 00-01
 11675 RMWS: 22-01, 03-06
 11665 RMWS: 20-22
 11655 RMWS: 14-16
 11575 RMWS: 23-24
 9905 RMWS: (04-07 USB mf)
 9895 RMWS: 13-14
 9880 RMWS: 04-06, 18-22
 9855 RMWS: 22-23
 9815 RMWS: (22-23 BRT
 9/19)
 9810 RMWS: 01-02
 9800 RMWS: 20-21
 9775 RMWS: 20-22
 9735 RMWS: 20-21
 9705 RMWS: 13-14
 9685 RMWS: 04-06, 21-22
 9640 RMWS: 13-14, 19-01
 9610 RMWS: 19-21
 9530 RMWS: 02-03
 9505 RMWS: (14-18 mf)
 9480 RMWS: (22-23 BRT
 9/19)
 7390 RMWS: (22-23 BRT
 9/19)
 7370 RMWS: (12-16 mf)
 7140 RMWS: (22-23 BRT
 9/19)
 6130 RMWS: (22-23 BRT
 9/19)
 6110 RMWS: 02-03
 5905 RMWS: (12-13 mf)
 (22-23 BRT
 9/19)

transmitter usage but not the service.

The following survey of Radio Moscow *World Service* frequencies was made here in mid-September after the effect of the flares wore off. Those entries in () are from Mike Fern (mf), Walt Novinger (wn) and BRT's *Radio World* of 9/19. Most or all of these times shift a UTC hour later after 9/27, and no doubt there will be some frequency changes as well, but it's a starting point.

R Havana Cuba has added more hours to the USB transmitter on 13660 kHz. Spanish at 22, a new French service at 23, and English at 00 UT.

Anyone else notice that the BBC circa 03-04 (when I usually listen) often is on 6180 rather than listed 6175? I don't have an explanation.

Time-shifting took effect September 27, and there are some schedules that I just don't know if they move or not. Iraq, Syria, and AWR Russia are among the unknowns, for example. It's not clear what all the ex-USSR and ex-Soviet bloc countries will be doing. If you don't find your favorite broadcaster, look a UTC hour later. Those moving but not listed this month are R Budapest, R Moscow, and Polish Radio Warsaw. Finland shifts at least some of its frequencies. And some stations just won't reply to requests for schedules—such as Finland, Greece, WYFR and R France Int'l, among others. And more time-shifting, this time from some of the NA

stations, will occur at the end of October. These include RCI, WRNO and WWCR.

Graphics contributions of the Voice of Nigeria and Luxembourg were received from Keith Hill of Pine Hill, NY. The VON schedule and program booklet is quite extensive for a small station; I had never seen one before.

Publications Alert: A revised propagation-related publication is now shipping. *A Radio Frequency User's Guide To The Space Environment Services Center Geophysical Alert Broadcasts*, NOAA Technical Memorandum ERL-80 (Revised May 1992), written by David Rosenthal (RNMN Science Reporter and QST author) and Joseph Ilman, explains the data broadcast by WWV at H+18 and WWVH at H+45. You can request a free copy by writing the U.S. Department of Commerce, NOAA Environmental Research Laboratories, 325 Broadway, Boulder, CO 80303-3328.

English Language Schedules
By Start Time, Changes Entered Between
8/28/92 and 9/25/92
Compiled by Thomas R. Sundstrom, W2XQ

Start Time (UTC)	End Time (UTC)	Country	Station	Freq. #1	Freq. #2	Freq. #3	Freq. #4	Freq. #5	Freq. #6	Freq. #7	Freq. #8	Target Area	Notes	Record Last Updated
0000	0030	Australia	R Australia	17750	17715	15365	15320	15170	13605			As/Pac/PapNG		9/23/92
0000	2400	Costa Rica	R for Peace Int'l	15030	13630	7385	7375					LA/NA	#2&3 USB	9/4/92
0000	0200	Cuba	R Havana	13680	11950							eNA	#1 USB	8/29/92
0000	0030	Lithuania	R Vilnius	17690	17605	9530						NA/Eu		9/24/92
0000	0030	Norway	R Norway Int'l	9645								NA	Su & Mo only	9/24/92
0000	0100	Russia	R Moscow Int'l	21690	17890	17580	15560	11970	11750	11675	9640	World Service		9/12/92
0000	0030	Switzerland	Series R Int'l	17730	12035	9885	9650	6135				NA/CA	#1 v Brazil	9/25/92
0000	1600	USA	KTBN	7510								eNA		9/25/92
0000	1300	USA	WHRI	7315								eNA	42 deg	9/25/92
0030	0100	Australia	R Australia	17880	17795	17750	17715	15365	15320	15240	15170	As/Pac/PapNG		9/23/92
0030	0055	Belgium	R Vlaanderen Int'l	13655	9930							SA/NA		9/23/92
0030	0430	Ecuador	HCJB	21455	17490	15155	15115	9745				NA/SA	#1&2 USB #3 SA	9/5/92
0030	0125	Netherlands	R Netherlands	11835	11655	9660	6165	6020				sAs/eNA	#1&4 Bon #2&3 Mad	9/22/92
0100	0130	Australia	R Australia	21590	21740	17880	17795	17750	17715	17670	15365	As/Pac/PapNG		9/23/92
0100	0200	Canada	R Canada Int'l/A	13720	11940	11845	9535					LA	Su-Mo	9/24/92
0100	0150	Germany	R Deutsche Welle	11865	9770	9700	9610	9565	9515	6145	6085	NA		9/25/92
0100	0130	Norway	R Norway Int'l	9585								NA	Su & Mo only	9/24/92
0100	0200	Russia	R Moscow Int'l	21690	17890	17580	15425	13775	11970	11750	11675	World Service		9/13/92
0100	0130	Sweden	R Sweden	11820	9695							Aus/As		9/24/92
0100	0200	Ukraine	R Ukraine Int'l	15680	15465	15355	15195	13645	12060	12000	11885	NA/Eu	& 6080(unannod)#6055	9/24/92
0100	0300	USA	VOA/S As	21550	17740	15250	11705	9740	7205	7115		sAs	7651 USB	9/24/92
0130	0200	Australia	R Australia	21590	21740	17795	17750	17715	17670	15365	15320	As/Pac/PapNG		9/23/92
0130	0200	Austria	ORF	13730	9875	9870						NA/SA		9/22/92
0130	0225	Netherlands	R Netherlands	11655	9880							sAs	v Madagascar	9/22/92
0200	0400	Australia	R Australia	21525	17795	17750	17715	17670	15365	15320		As/Pac/PapNG	21590/21740/15240 Sa	9/23/92
0200	0400	Cuba	R Havana	13710	11950							eNA		9/23/92
0200	0250	Germany	R Deutsche Welle	12085	11945	9690	9615	7285	6035			sAs		9/25/92
0200	0230	Norway	R Norway Int'l	9585								NA	Su & Mo only	9/24/92
0200	0300	Russia	R Moscow Int'l	17890	17580	15425	13775	12070	12005	11750	9710	World Service		9/12/92
0200	0300	South Africa	Channel One	9730								e&cAI		8/30/92
0230	0325	Netherlands	R Netherlands	11655	9880							sAs	v Madagascar	9/22/92
0250	0315	Vatican State	Vatican Radio	9805	7305							NA		9/24/92
0300	0350	Germany	R Deutsche Welle	9770	9705	9640	9545	9535	6120	6085	6055	NA		9/25/92
0300	0400	Italy	Italian Radio Relay Serv	7125								NA/AusNZ	test xman	9/25/92
0300	0400	Russia	R Moscow Int'l	21690	17890	17560	15470	15375	13775	11750	6110	World Service		9/12/92
0300	0400	South Africa	Channel One	9730	3995							e&cAI/sAI		8/30/92

0300	0400	USA	VOA/AI	15115	11805	11835	9885	9575	7405	7280	7265	Africa	15752	USB -0700	9/23/92	
0315	0335	Vatican State	Vatican Radio	11825								eAI			9/24/92	
0330	0425	Netherlands	R Netherlands	11720	9590							wNA	v Bonaire		9/22/92	
0345	0400	Armenia	R Yerevan	13645	11790	11675						NA	News/Eng		9/24/92	
0400	0600	Australia	R Australia	21525	17880	17795	17750	17715	17670	15385	15320	As/Pac/PapNG	21590/21740/15240	Sa	9/23/92	
0400	0430	Canada	R Canada Int'l/Eu	9850								Eu	v Port		9/24/92	
0400	0430	Canada	R Canada Int'l/ME	9670	9505							ME	#1 UK #2 ORF		9/24/92	
0400	0500	Cuba	R Havana	13710	11950	9855						eNA	#1 -0430		9/23/92	
0400	0450	Germany	R Deutsche Welle	13770	11785	9765	9665	9565	7275	7225	7150	sAc&eAI/ME			9/25/92	
0400	0430	Norway	R Norway Int'l	9650	9560							wNA	Su & Mo only		9/24/92	
0400	0500	Russia	R Moscow Int'l	17890	15535	15470	15425	15415	15375	13775	12045	World Service	#4 wNA		9/12/92	
0400	0500	South Africa	Channel One	15220	3995							wAI/eAI			8/30/92	
0400	0430	Switzerland	Swiss R Int'l	13835	12035	9860	6135					wNA			9/25/92	
0400	0430	USA	VOA/AI	15115	11850	11835	11835	9885	9575	7405	7280	Africa			9/23/92	
0400	0500	USA	VOA/ME	7170	6140	6040	5995					ME/nAI/Eu	6873	LSB -0700	9/24/92	
0500	0700	Cuba	R Havana	9550								wNA			8/29/92	
0500	0550	Germany	R Deutsche Welle	9890	9670	9535	6130	6120	6045	5960		NA			9/25/92	
0500	0515	Israel	Kol Israel	11588								wEu/wNA			8/30/92	
0500	0600	Japan	R Japan	21610	17880	17825	17810	17765	15230	7230	6085	GOS/As/Oc/NA/Eu/ME	#7&8	v UK	9/24/92	
0500	0600	Russia	R Moscow Int'l	17890	15425	12045	12010	11995	11980	11765	11765	World Service	#2	wNA	9/13/92	
0500	0600	South Africa	Channel One	15220								wAI			8/30/92	
0500	0600	USA	VOA/AI	15800	15115	11850	9885	9575	1405	6035		Africa			9/23/92	
0500	0530	USA	VOA/ME	15205	11825	9700	9530	7170	6140	6040	5995	ME/nAI/Eu			9/24/92	
0500	0530	Vatican State	Vatican Radio	17730	15090	11625						e&eAI			9/24/92	
0500	0600	Austria	ORF	21490	15410	13730	6155	6015				ME/Eu/wNA	#5	v Canada	9/22/92	
0530	0600	USA	VOA/ME	15205	11825	9700	9530	7170	6140	6060	6040	ME/nAI/Eu			9/23/92	
0600	0630	Australia	R Australia	21525	17880	17795	17750	17715	17670	15365	15320	As/Pac/PapNG	21590/21740/15240	Sa	9/23/92	
0600	0850	Germany	R Deutsche Welle	17875	15435	15185	13790	13610	11765			wAI			9/25/92	
0600	0830	Kiribati	R Kiribati	17440								Pacific	0.5 kw		9/10/92	
0600	0700	Russia	R Moscow Int'l	12045	11995	11980	11765	11675	9880	9685		World Service		limited by low MUF	9/13/92	
0600	0700	South Africa	Channel One	15220								Far wAI			8/30/92	
0600	0630	Switzerland	Swiss R Int'l	17565	13635	9860						AI			9/25/92	
0600	0700	USA	VOA/AI	15800	15115	11925	11850	9885	9575	9530	7450	Africa			9/23/92	
0600	0700	USA	VOA/ME	15205	11825	11805	7325	7170	6060	6040	6005	ME/nAI/Eu			9/23/92	
0600	0800	USA	WCSN	9840								Eu	60	M-F / 45 S-S	9/24/92	
0600	0620	Vatican State	Vatican Radio	7250	6245							ME/Eu			9/24/92	
0600	0615	Switzerland	Swiss R Int'l/Eu	9535	6165	3985						Eu			9/25/92	
0615	0700	Canada	R Canada Int'l/AI	11935	9740							AI	M-Fly	UK	9/24/92	
0615	0700	Canada	R Canada Int'l/Eu	9780	7155	6150	6050					Eu	M-F #2, 4	v UK	9/24/92	
0630	0700	Australia	R Australia	21525	17880	17795	17715	17670	15365	15320	6020	As/Pac/PapNG	21590/21740/15240	Sa	9/23/92	
0630	0900	Italy	Italian Radio Relay Serv	7125								Eu/nAF/ME	M-F, Sa -10, Su -15		9/25/92	
0632	0641	Romania	R Romania Int'l	15365	11940	9665	7225					Eu	news		9/7/92	
0700	0730	Australia	R Australia	21525	17750	17715	17630	15365	15320	6020		As/Pac/PapNG	21590/21740/15240	Sa	9/23/92	
0700	0800	Japan	R Japan	21575	17860	17810	17765	15405	6025	5970		GOS/As/Oc/Eu/ME	#1	v Gabon #5&6	v UK	9/24/92
0700	1206	New Zealand	R New Zealand Int'l	9700								Pacific			9/25/92	
0730	0800	Australia	R Australia	21590	21525	17750	17630	15240	11880	11720	6020	As/Pac/PapNG			9/23/92	
0730	0800	Austria	ORF	21490	15410	13730	6155					As/AI/ME/Eu			9/22/92	

2100	2130	Australia	R Australia	13705	11880	11855	11720	9580	9540	9510	6060	As/Pac/PapNG		9/23/92
2100	2200	Cuba	R Havana	17705								Eu/AM/E		9/12/92
2100	2150	Germany	R Deutsche Welle	11785	9785	9690	9670	6185				As/Pac		9/25/92
2100	2130	Norway	R Norway Int'l	15180								SA/Aus/NZ	Sa & Su only	9/24/92
2100	2200	Romania	R Romania Int'l	11940	9750	9680	7145	5955				Eu		9/7/92
2100	2200	Russia	R Moscow Int'l	15385	12070	11735	11685	9880	9735	9640	9610	World Service		9/13/92
2100	2200	USA	VOA/AF	21485	17800	15580	15495	15410	15290	13710		Africa		9/23/92
2100	2200	USA	VOA/ME	15205	11960	9760	9700	6040				ME/nA/Eu		9/23/92
2115	2130	Sierra Leone	SLBS	3316									Fr&Sa UN Radio	9/24/92
2130	2200	Australia	R Australia	13705	11880	11855	11720	9580	9540	9510		As/Pac/PapNG		9/23/92
2130	2200	Ecuador	HCJB	21480	21455	17790	17490					Eu	#2&4 USB	9/5/92
2130	2200	Sweden	R Sweden	11955	9655	6065						As/Pac/Eu		9/24/92
2140	2200	Armenia	R Yerevan	17880	12050	11920						Eu	News/Eng	9/24/92
2200	2300	Australia	R Australia	17795	15365	15320	15240	13705	11880	11855	11720	As/Pac/PapNG		9/23/92
2200	2225	Belgium	R Vlaanderen Int'l	9905	5910							Eu		9/22/92
2200	2230	Canada	R Canada Int'l/As	11705								As	v Japan	9/24/92
2200	2300	Canada	R Canada Int'l/Eu	13650	11945	9160	7180	5995				Eu	#2,4 UK#1,4,5,2230	9/24/92
2200	2230	Canada	R Canada Int'l/USA	9755	5980							USA		9/24/92
2200	2300	Cuba	R Havana	9655								Carib/SUSA		9/11/92
2200	2400	N Mariana Is	KHBI	15405	13825							China/Japan/Indon	310/240 deg	9/24/92
2200	2300	Russia	R Moscow Int'l	17560	12070	12060	11790	11750	11685	9880	9775	World Service		9/13/92
2200	2230	Switzerland	Swiss R Int'l	12035	9885	9610	6030					SA	#1 v Gabon	9/25/92
2200	2300	Taiwan	V of Free China	11915	9850							Eu	v WYFR	9/23/92
2200	2300	Ukraine	R Ukraine Int'l	9865	9785	9710	7330	7320	6055	6020	5960	Eu		9/24/92
2200	2230	USA	VOA/ME	11960	11895	9530	7195	7140	6160			ME/nA/Eu		9/23/92
2200	2400	USA	WCSN	13770								sEu/wAI	90 deg	9/24/92
2230	2300	Israel	Kol Israel	17575	15640	11675	11603	11587	9435			LA/Eu/NA		8/30/92
2230	2300	Lithuania	R Vilnius	9710	9675							Eu		9/24/92
2230	2400	USA	VOA/ME	11960	11895	9530	7195	7140	6160			ME/nA/Eu		9/23/92
2245	2300	Armenia	R Yerevan	11920	9450							Eu	News/Eng	9/24/92
2245	2305	Vatican State	Vatican Radio	11630	9600							As/Aus/NZ		9/24/92
2300	2330	Australia	R Australia	17795	15365	15320	15240	11880	11855	11720	9540	As/Pac/PapNG		9/23/92
2300	2330	Canada	R Canada Int'l/Carb	11730	9755							Carb		9/24/92
2300	2330	Canada	R Canada Int'l/LA	11940	9535							LA	Sa&Su -2400	9/24/92
2300	2400	Russia	R Moscow Int'l	17560	11790	11675	9855	9640				World Service		9/13/92
2300	2310	Sierra Leone	SLBS	3316									news/Eng	9/24/92
2300	0300	South Africa	Radio Orion	3980										8/30/92
2300	0400	USA	WRPN	7355								NA/CA	Spanish Tu-F	9/25/92
2300	0800	USA	WHRI	9495								SA/CA	157 deg	9/25/92
2330	2400	Australia	R Australia	17795	15365	15320	15240	11880	11720	9510		As/Pac/PapNG		9/23/92
2330	2400	Austria	ORF	13730	9870							SA		9/22/92
2330	0030	Canada	R Canada Int'l/USA	9755	5980							USA	Sa&Su -0100#1 M-F	9/24/92
2330	0025	Netherlands	R Netherlands	6165	6020							eNA	#1 v Bonaire	9/22/92
2330	0100	Palau	KHBN	9630										9/22/92
2330	2400	Sweden	R Sweden	6065								Eu		9/24/92

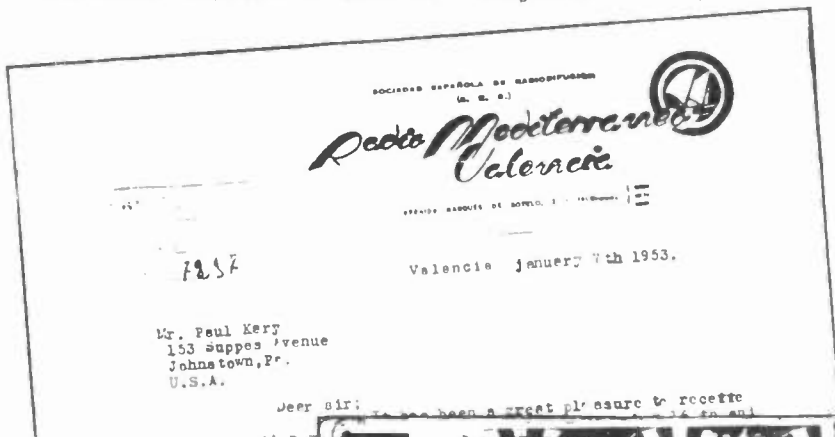
English Language DX Shows
 By Day of Week
 Changes Entered between 8/28/92 and 9/25/92
 Compiled by Thomas R. Sundstrom, W2XQ

Day	Program	Xmsn	Show	Country	Station	Freq. #1	Freq. #2	Freq. #3	Freq. #	Freq. #	Freq. #	Freq. #	Freq. #	Freq. #	Program Notes	Record Last
Sunday	Radio World	0030	0035	Belgium	R Vlaanderen Int'l	13655	9930									9/24/92
Sunday	Hello There	0530	0915	Italy	Italian Radio Relay Serv										mailbag show	8/30/92
Sunday	Shortwave Panorama	1230	1230	Austria	ORF	17730	15450	13730	6155							9/22/92
Sunday	Hello There	0530	1530	Italy	Italian Radio Relay Serv										mailbag show	8/30/92
Sunday	Shortwave Panorama	1630	1630	Austria	ORF	11780										9/22/92
Sunday	DX Corner	2000	2020	Israel	Kol Israel	17575	15640	11675	11603	11587	9435					8/30/92
Sunday	Shortwave Panorama	2330	2330	Austria	ORF	13730	9870									9/22/92
Monday	Radio World	0730	0735	Belgium	R Vlaanderen Int'l	11895	9905	5910								9/24/92
Monday	Radio World	1000	1005	Belgium	R Vlaanderen Int'l	9905	5910									9/24/92
Monday	Radio World	1400	1405	Belgium	R Vlaanderen Int'l	21810	17550									9/24/92
Monday	DX Corner	1400	1425	Israel	Kol Israel	17590	17575	15650	15640	11603	11587					8/30/92
Monday	For Radio Amateurs	1900	1945	Romania	R Romania Int'l	11940	9750	9690	7145							9/7/92
Monday	For Radio Amateurs	2100	2145	Romania	R Romania Int'l	11940	9750	9690	7145	5955						9/7/92
Monday	DX Corner	2230	2255	Israel	Kol Israel	17575	15640	11675	11603	11587	9435					8/30/92
Tuesday	Communicator	0900	0930	Australia	R Australia	12725	15170	13605	9580	9510	5995					9/23/92
Tuesday	Sweden Calling DXers	1600	1610	Sweden	R Sweden	21500	17870	15270							1st & 3rd Tu/Mo	9/24/92
Tuesday	DXers Unlimited	2100	2135	Cuba	R Havana	17705										9/24/92
Tuesday	Sweden Calling DXers	2130	2140	Sweden	R Sweden	11955	9655	6065							1st & 3rd Tu/Mo	9/24/92
Tuesday	Sweden Calling DXers	2330	2340	Sweden	R Sweden	6065									1st & 3rd Tu/Mo	9/24/92
Wednesday	DXers Unlimited	0400	0435	Cuba	R Havana	13710	11950	9655								9/5/92
Thursday	Media Network	1130	1150	Netherlands	R Netherlands	5955										9/22/92
Saturday	Radio World	0730	0735	Belgium	R Vlaanderen Int'l	11895	9905	5910								9/24/92
Saturday	Radio World	1000	1005	Belgium	R Vlaanderen Int'l	9905	5910									9/24/92
Saturday	Radio World	1400	1405	Belgium	R Vlaanderen Int'l	21810	17550									9/24/92
Saturday	Radio World	1900	1905	Belgium	R Vlaanderen Int'l	15640	5910									9/24/92
Saturday	DX Mailbag	1900	1945	Romania	R Romania Int'l	11940	9750	9690	7145							9/5/92
Saturday	DXers Unlimited	2100	2130	Cuba	R Havana	17705										9/12/92
Saturday	Radio World	2200	2205	Belgium	R Vlaanderen Int'l	9905	5910									9/24/92

the page

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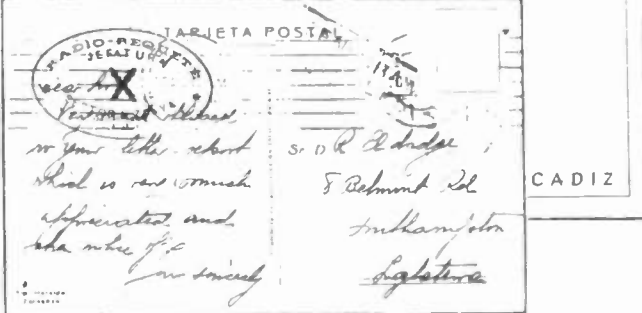
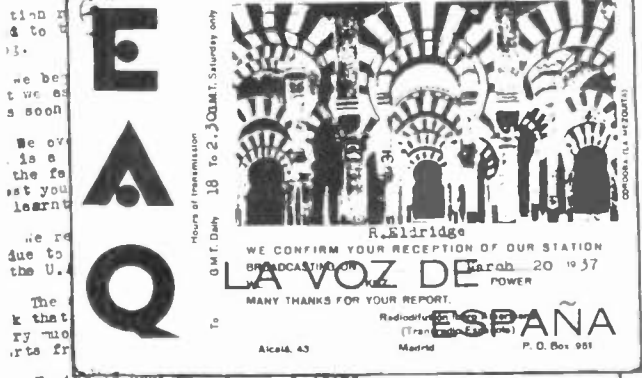
JERRY BERG, Chairperson • 38 Eastern Ave. • Lexington, MA 02173 • (617) 861-8481



Mr. Paul Kery
153 Suppes Avenue
Johnstown, Pa.
U.S.A.

Dear Sir: It has been a great pleasure to receive

Spain was an interesting DX target in shortwave's early days. EAO, Radiodifusion Ibero Americana, Madrid, was the main station. It used 20 kw. and was well heard on 9870 kc. There were many private broadcasters as well, however, especially in the 7 mc. range. QSL's from two are shown here: Radio Mediterraneo, Valencia, which operated on 6995 kc. until the late 1950's, and R. Juventud, Cadiz, which was on 7200. The Cadiz QSL shows a mosque, but it's so faded that it's barely visible (let alone reproduceable). The bottom QSL is from Radio Raquete, San Sebastian. It became one of the main rebel stations during the Spanish Civil War. The QSL contains a photo of Generalissimo Franco on the front. +++ Till next time, 73.



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