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NORTH AMERICAN SHORTWAVE ASSOCIATION

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NASWA HEADQUARTERS

ALTOONA, PA. 16603 USA.

RANDOM NEWS & NOTES

Beginning with this month, Jerry Berg assumes duties as NASWA Log Report editor. You have only to scan his first effort to see that he is making a most worthy start..... Be sure to note the new address for our QSL Editor, Gregg Calkin, who resumes his section next month. All QSL reports, data and Scoreboard data should now be sent to him direct. It is suggested you use airmail; Rate is same as within USA. (11¢ per ounce.)NewsRoom section will appear for last time next month. Will be replaced with new section, to be announced, edited by Dan Ferguson. Tony Marks will remain as one of his collaborators.....Due a freak accident in which his car was severely damaged, Hank Michalenka was unable to attend ANARC convention as planned. Fortunately no injuries were suffered.....Member Bob Moser reports that anyone planning to replace tubes in equipment should do so right away because GE and RCA have announced price increases to be effective August 16th. No doubt this will result in increased prices by other manufacturers also.....Prediction Department: Sooner or later, some member of some club will report logging Radio Tasadays. Just be certain it is not you!.....Another reminder that the new-revised official NASWA Country List (SWBC only) is available from HDQS. Simply send request and include 2 eight cents stamps, no coins please!..... Our friends at Gilfer Associates, New Jersey, inform us that makers of JoyStick and JoyMatch (Partridge Electronics, England) are way behind in deliveries even though word has been received that there will be a price increase. Gilfer suggests no orders be submitted at present, but that word will be given/announcement made when the units are available for immediate shipment.....Radio RSA advises, re its 'Jubilee Contest', that listeners will be asked to answer four (4) questions. The first will be broadcast every day in all transmissions in the week of September 6th. The second question will be put in the week beginning Sept. 13th, the third in the week beginning Sept. 20th and the fourth in the week beginning Sept. 27th. There will be valuable prizes for each language service and the grand prize will be two airline tickets plus tour of So. Africa. This advance info via M. van Tonder, Head of External Services-RSA.....Very special congrats to Donald Erickson, California in being acclaimed ANARC "Man of the Year" 1971. Not only does he do an excellent job of publishing the IRCA bulletins 'DX Monitor' as well as the ANARC monthly NewsLetters, but he supports all clubs in which he holds membership. Right on, Don!.....We hear that Bill Ray, EE/ASWIC is progressing and recuperating nicely from his recent heart attack. Atta boy Bill; Hang in there!Question; Of all 50 states, which has most NASWA members? Whats your guess????

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BE A GOOD MEMBER/FRIEND: SUPPORT ALL CLUBS U BELONG TO: BE A GOOD MEMBER/FRIEND!!!!

NEW MEMBERS, WELCOME!!

Howard Wellman, Rancho Santa Fe, Calif. Via Communications World.
 Dave Wank, Willoughby, Ohio. Via PE Communications Handbook.
 Leon Jeter, Peoria, Illinois. Via Monitor DX Hdqs/Hank Bennett.
 Walter Trkula, Sharpsville, Penna. Via '71 World Radio-TV Handbook.
 Dan Kennedy, Windsor, Ontario, Canada. Via Communications World.
 Jay Lash, Jr., Canton, Ohio. Via PE Communications Handbook.
 Michel Delco, Toluca, Mexico. Via Radio Nederland 'DX JukeBox' NA Report/G.Hauser.
 P. J. Sturgeon, Burbank, California. Via World Radio-TV Handbook.

RENEWALS

Second year: Charles Hagen, Bill Whitacre.
 Third year: Steve Eisenberg, Marion Ely, Robert Shepherd, Martyn Madeley, Edwin Sloan, John Hedstrom.
 Fourth year: George Rabone, Al Reynolds, Bill Berghammer, Ed Kelly Jr., Peter Rudolph, Tom Waldron Jr.
 Fifth year: Stan Mayo, Danny Jamison, Dan Ferguson.
 Sixth year: Del Hirst.
 Ninth year: Frank Peters, Bill Stevens.

(NOTE: Members joining/renewing after the 15th of month will be listed next month.)

PACKAGE DEAL-SPECIAL OFFER

Gilfer Associates, Inc., P.O.Box 239, Park Ridge, New Jersey 07656 has made up a new special package deal which is now made available to SWLs/DXers. Consisting of one copy each of 'Shortwave Voices of the World' (by Dr. Richard E. Wood) 'Guide to Broadcasting Stations of the World' (via BBC) 'Address Book' (of SWBC stations) plus a supply of Log Sheets and Reporting Forms (latter to send to stations) the package retails for \$13.85, but is now offered for special price of only \$11.00 ppd (U.S. and Canada). This is a bargain 'starter' deal and we recommend it, especially to our new members or beginning SWLs/DXers. If/when ordering, be sure to mention that you are a NASWA member. Watch for additional deals and bargains via Gilfer in future Frendx.

MESSAGE VIA LR EDITOR

Be sure to read the special message our new Log Report editor-Jerry Berg writes in LR.

HELPING HAND SERVICE

For sale: Hammarlund HQ-200 in like new condition. Complete w/operating manual and original carton. Write Tom Eby, 1235 North Main St., Naperville, IL. 60540.
 For sale: AMECO PCL-F preamp and Heathkit GD-20 crystal calibrator. Contact Hank Michalenka, 14 Brook St., Central Falls, Rhode Island 02863.
 Wanted: Contact/mail from NASWA members in areas in and close to Virginia. Please write Greg Kelley, 108 Archer Street, Staunton, Virginia 24401.
 For sale: National NC-190 receiver. Needs realigned. Best offer takes. Contact Jerry Stuart, Box 1487, Lawton, Okla. 73501.
 Wanted: Copy of 1969 WRTH Summer Supplement. Willing to pay any reasonable price. Write Steven F. d'Adolf, 16 Westgate Dr., Woburn, Mass. 01801.
 For sale: Drake SPR-4 complete w/10 extra crystals. Also Mosley SWL-7 antenna. For details write Ben Lewis, 449 Pine Street, South Weymouth, Mass. 02190.
 Wanted: BC-221 frequency meter in good condition. Write Vic Argabright, RR#1, Perry Park, Larkspur, Colorado 80118.

NEW ORGANIZATION BORN

Latest to join the ranks of SWL/DX organizations is "Society for the Preservation of the Engrossing Enjoyment of DXing" or, as it is sure to become better known as, 'SPEEDX'. Watch for further info/data in upcoming Frendx.

AIRMAIL RATES

From USA to South America per 1/2 ounce, it now costs 17¢. To Europe, Asia, Africa, Australia and South Pacific 21¢. Rate per 1 ounce to Canada and Mexico is same as within continental USA 11¢.
 Our members in Canada fare better. It now costs them, per 1 ounce, to anywhere in the world, only 15¢.
 New IRC rate, in both USA and Canada, is now 22¢ (formerly 15¢).

Member Dick Hegg, Canada, also informs us that the 15% luxury tax which was, in past, levied on all radio's/TV's, has now been lifted by Canadian Government.

And, as the oldtimer said.. "It now costs 6¢ to put your 2¢ worth on a 1¢ postcard."

In future, what will it cost to send cowl to the moon????????????????????????????????



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1. Peter Pompe, Belgium
2. John Kolb, California
3. George Loranger, Pennsylvania
4. Mike Marinoff, Pennsylvania
5. John Leger, Kentucky
6. Ed Insinger, New Jersey
7. Harmon Barnard, Jr., Illinois
8. Thomas Blossom, Indiana
9. Donald Dickey, Minnesota

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THERE ARE THOSE, AND THERE ARE THOSE!

As I have oft times writ, "It takes all kinds to make up this world/hobby". Therefore the following is offered for your cogitation. B.E.

A few weeks ago, the following (#1) was received at NASWA Hdqs. In reply, application form was sent. Response was (#2) and was given reply (#3). Your comments invited.

(#1)Dear Sirs; Enclosed is money-order for \$10.00 for membership, one year. I saw your association mentioned in PE Communications Handbook. My interest comes from the fact I am an active ham radio operator, but quite often listen to SWBC bands. J.G.Payne/Texas

(#2)Mr. Eddings; Okay confirming receipt of my \$10.00 money-order and request for membership. Having received application form, I have decided not to become a member. It is my feeling that you want too much personal information, and that it is an invasion on my privacy. First and foremost my interest is ham radio. I have been active in it for 15 years. However I do do some listening on the SWBC bands occasionally. When I joined the ARRL, they did not ask me anything but my name, address and ham call. In particular I object to giving information about my schooling, marital status, equipment, etc. I cannot see what this has to do with SWLing. Also, I do not want to be committed to any motto. My feeling about your association, judging from the info wanted on application, is that you are dominated by CBers. I would appreciate refund of my \$10.00. If not, I will chalk it up to sad experience. J.G.Payne/Texas

(#3)J.G.Payne/Texas

Jim OM; Enclosed herewith is \$10.00 refund per your request.

It is regretable that you took offense, apparently misunderstood purpose behind data/info requested on our application form. In all the years our club has been in operation (going on ten!), never have we had anyone react as you have done. Nearly 3000 applications have been submitted, each completed.

Ordinarily I would not reply at length to letter such as your most recent, but being I deem it best, in behalf of NASWA, I do so.

Firstly, we are in no way whatever, connected or concerned with CB. There are however, a number of our members who are CBers, just as an even larger number are ARO's. Our association/club is made up of SWLs and DXers the world over. In particular these are radio hobbyists who are interested in listening to and/or monitoring the SWBC bands. Our bulletins contain nothing regarding CB, ARO, MW, FM, TV, or any other bands; Only SWBC. I am sending you gratis copy of current bulletin which attests this.

As to data/info requested on application form;

When you request membership, you express want to join our association, not merely subscribe to our monthly bulletins as you would a commercial magazine. Our motto "Unity and Friendship" relates solely to the hobby and has nothing at all to do with any political faction, any racial group, any subversive or what have you, idea's or idioms. It merely infers that were are joined together, as fellow hobbyists, to better enjoy the hobby and to make friends of one the other so doing. I am certain there are a number of ham radio clubs with similar ideals.

Factually it is not necessary that you fill out all the application. What we are most interested in, aside from name, address, etc., is data on your equipment. The more personal info is not required; Neither you nor anyone is obligated to committ themselves to abiding by our motto; It is requested, not required!

You asked what your equipment has to do with SWLing. There are several things; The main being not all members have identical. Some have expensive set-ups, others have lesser. Being there are those who judge a DXers standing by his ability to hear/log and verify stations/countries, we like to compare the gear used. It is of no mundane concern to us whether it be latest equipment or that which be considered vintage. While there are competitive factors involved, they are friendly, just as is involved when you ARO's have DX competitions at times.

In any case Jim, as I said, it is regretable that you took offense, but nonetheless, we thank you for writting and extend best wishes for your continued luck
(cont'd, next page)

LOUDENBOOMER REPORT
THE BEST OF CL

As a service to my readers, many of whom are woefully unaware of the new products now available to the serious shortwave listener, I again repeat the following...
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The first piece of equipment to come across my test bench this month is the recently released Haplesscrafters S-007 communication receiver. This budget-priced model turned out by a Detroit-based electronics firm is designed from Haplesscrafters' S-007 series, the latest in the new line with the beginner in mind. Priced at \$59.95, the S-007 is the latest in the new line from Haplesscrafters. Like the other popular 'S' series models, it adheres to the company's recently announced policy of external set beautification.

The S-007 is housed in a stylish cabinet of rugged, extruded, anodized aluminum foil. Finished in a satin-smooth grey, with gold accessories, it is a sight to behold. With little delay, we put the test unit on the bench in my well equipped lab and began to probe its innards.

The first thing that struck this expert is the room the manufacturer has provided within the cabinet which, of course, allows for easy servicing. The Haplesscrafters engineers have accomplished this through the use of simplified circuitry, probably the most novel of which is the complete elimination of tuning condensers, transformers and other of the bulky components found in the average receiver today.

The operation manual points out yet another improvement found only in the S-007. Since one of the factors causing frequency drift in a receiver is heat, the firm eliminated this by designing its new model without tubes.

Never a company to jump on the bandwagon and use recently developed components simply because they are new, Haplesscrafters has refrained from replacing the missing tubes with unproven transistors. Haplesscrafters chief engineer, Kleen R. Mynd, in a paper delivered to the American Society of Mentally Stationary Engineers, revealed that a two year field study by his firm showed the electronic components most likely to fail in actual use are resistors and capacitors. I was pleased therefore, in my lab analysis of the S-007, to note he practices what he preaches. Both of these components have been completely eliminated. This should reduce the number of servicing problems for owners of this new receiver.

Now I happen to believe in printed circuitry being one of the big steps forward in modern electronics. However, ever broadminded, I realize there are respected electrical engineers who swear by traditional wiring. Both have their advantages and disadvantages. Haplesscrafters though has steadfastly refused to compromise its standards by accepting either type of wiring. The S-007 is designed with neither.

After my careful bench test of the receiver, I am happy to report that I recommend it to any listener looking for a set in this price range. In fact, so taken with the S-007 was I, that I ordered a second one. Placed at each end of my work bench, they do a very fine job of supporting the row of technical manuals stored between them.

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Coming soon! A report on the Neatkit 20 meter band antenna. I hope to complete construction of the test unit generously supplied by Naet Co. of Bent Tower, Mich. I've run into a few bugs which will doubtless be ironed out before full production begins. Construction itself was no problem. The plastic soda straws we glued end to end with the aid of the supplied tools (a single edge razor blade and tube of Elmos Goo!) in just under 26½ hours. A less experienced kitbuilder however, may need 30 hours to do.

...Charlie Loudenboomer

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NOTE: If you ever find I make a mistake in one of my reports, please consider that it was there for a purpose. I try to publish something for everyone, including the fellows who do nothing but look for mistakes of others.

* * *

ANARC REPORT

NASWA/ANARC Rep-Gray Scrimgeour 227 Hanna Road, Toronto 350, Ontario, Canada

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Next month we hope to have a full report on the ANARC convention, also possibly have a photo page included. This month however, I'd like to discuss the ANARC DXers Census.

The census is a project that began about 2 years ago, and which many of you took part in by completing a form that was included in Friendx. In fact NASWA members gave the greatest percentage of returns for the census (60% of NASWA members cooperated!) 750 members of ANARC clubs sent in forms, and through HCJB, Radio Nederland, Popular Elec., Science and Electronics, and Todd Graves-SWL Guide, we were able to obtain info from over 500 other North American SWLs/DXers not belonging to any ANARC club.

The census results showed a number of interesting facts about we DXers. For example; only about 2% of our group are females. This seems true both for clubs and for those who listen to SWBC but are non-club members. Over 1/2 of ANARC club members are under 25 years of age (15 and under 10%; 16-20 31.5%; 21-25 14%; 26-30 12%; 31-35 6.5%; 36-40 5%; 41-50 8%; over 50 13%) Those replying via the radio stations and magazines were even younger, with over 60% being under 20. In all cases, the largest age group was the 16-20 category (30-40%).

When ANARC club members were asked what bands they listened to, SWBC was in first place with 84%. MW/BCB was second with 63%, followed by amateur 33%, utilities 22% and TV 17%, FM 16%, LW/LongWave 11.5% Those replying via HCJB and Radio Nederland were mostly SWBC DXers exclusively; Only 11% of them listened to MW and another 11% to amateurs. The magazine readers reported SWBC 82%, MW 33%, amateur 34%, other bands had very low ratings. Those reporting via SWL Guide were 94% SWBC, 18% MW, 15% amateur, 11% ute's. You can see that most club members DX more than one mode of broadcasting, yet large percentage of others (because of manner used to contact them) are solely SWBCers. 80% of club members do not hold license, 8% are ARO's, 12% are CBers.

The types of receivers used by DXers were also tabulated. We divided these into rather broad categories - noncommunication receivers (including portables, table models, etc) communication receivers priced less than \$125, communication receivers priced above \$125, military surplus, and home-brew. We tallied only the best receiver that the DXer reported (being some listed more than one). The largest group was communication receivers in the under \$125 class; Almost 1/2 of the DXers reporting, use this type. (many use the Realistic DX-150). Other statistics show that 14.5% use noncommunication type receivers, 33% use the more expensive i.e., Drake, Hammarlund, etc. Only 4.5% use surplus or build their own. 66% of club DXers have tape recorders, 50% have no interest in electronics, 51% do simple repairs as/when needed.

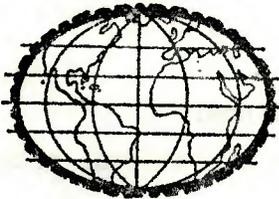
The most popular magazine based on reports (keep in mind there are now new mags which were not on the market in past) was Popular Electronics (72% read it regularly) then comes Electronics Illustrated (43.5%), RTVE (27%), QST (14%), Elementary Electronics (13%), CQ (11%), and Broadcasting magazine (9%); 75% of club members favor articles that give feature material on stations, 47% like propaganda items or clandestine data; 41% enjoy construction articles, 29% go for theory.

These are some of the more general bits of data resulting from the census; The entire and official report covers some 10 or more pages.

The ANARC DX Census was the first try at obtaining material from all clubs/members and it is hoped the data can be used by club officers in planning future bulletin contents and formats which will be of benefit to their clubs in general, the hobby in proper.

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As mentioned above we are hopeful of having a complete report on the actions/business that took place at 1971 ANARC convention...also a possible photo page therefrom. Could be that certain tapes will be made available (of the main talks/speeches) to members interested. Watch for next months ANARC Report and/or HDQ's section.



SHORTWAVE CENTER

WILLIAM A. MATTHEWS, EDITOR
POST OFFICE BOX 15306
COLUMBUS, OHIO 43215

Deadline 15th of the Month
Your support is solicited!

DX ATLAS: MADAGASCAR Edward J. Pyatt

Some of the Malagasy people who inhabit Madagascar like to call themselves the "first African-Asians." There are almost 7 million of them living on an island so big that it is almost a miniature continent but so far from the world's nerve centers that most of the time they are forgotten.

Centuries ago successive waves of Malay, Polynesian and Melanesian peoples drifted from the east to settle and to mingle with similar numbers of African emigrants. In Tananarive, the capital, which sprawls over steep hills on the central plateau, one finds flooded rice fields in the flats beneath the city and on the terraces that march up the distant slopes. There is a certain resemblance to San Francisco.

The largest of the 18 Malagasy tribes is the Merina, many of whom look startlingly like Indonesians. The other tribes mostly live off the central plateau nearer the sea and are collectively known by the French word "Cotiers," or coastal people. They outnumber the Merina 3 to 1. Early in the 19th century Merina kings unified Madagascar by conquering the other tribes. The Merina ruled until 1895 when the French subjugated Madagascar. Since independence in 1960, however, the non-Merina politicians, well-organized and unified, have controlled almost all Cabinet posts under the leadership of President Philibert Tsiranana.

The great majority of the Malagasy are farmers and their staple crop is rice. Madagascar was not a primitive place when seized by the French, but the seat of a flourishing exotic civilization. Some Malagasy even like to make the claim that they might have become a miniature Japan if the great powers had not finally abandoned them to France in the late 19th century. With their own tenacity and British help, the Merina monarchy kept the French at bay for more than 100 years. Before that coastal tribes had wiped out one of the strangest of the world's political experiments, a little republic called Libertalia, founded by Pirates who used Madagascar as a base in the 17th century.

Tananarive is a hilly, rather Mediterranean looking town with solidly built two story houses clinging to its steep slopes, so steep that one street name translates as "old folks can't make it" and another as "out of breath."

The first two Merina kings unified the island, brought in English Protestant missionaries, imported bicorn hats, Napoleonic tunics and breeches and gowns from Paris and set the nation falteringly on the way to modernization. But the second king died young and his xenophobic queen, Ranavalona the Cruel, came to the throne. She kept the Paris gowns but rejected most things western. She threw Christians down a cliff from the porch of the palace, which she had whimsically named "Where it is Pleasant to Reign," and reinstated trial by ordeal. When she died, her son tried to overturn all her policies and reinstate foreign advisors and modernization. He was strangled with a silken cord by outraged conservatives after only two years as king.

The last of the dynasty were three queens who reigned successively from 1863 until 1896. A remarkable figure named Rainilailarivony married each of the queens as she came to the throne and ran the country as her prime minister. Madagascar signed two treaties with the U.S. (in 1867 and 1883), temporarily made the Church of England the state religion and tried to keep the persistent French from establishing a colony.

Officially known as the Malagasy Republic, this country has two shortwave stations. Radio Television Malagasy has international transmissions on 17730 kcs. Other SW

DX ATLAS: MADAGASCAR
(continued)

outlets are on 3232, 3288, 4960, 7105, 7155, 7230, 9515, and 9690 kcs.

The other SW station is Radio Universite on 3370 kcs. This is an educational network and its broadcasts are intended primarily for local listeners.

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SPOTLIGHT ON N.H.K.
John Bañta

Radio Japan's shortwave service celebrated its 36th anniversary on June 1st of this year. Originally named Radio Tokyo, it was suspended for a time after World War II, but it resumed operation in February 1952 under the new name of Radio Japan.

The programs of N.H.K. originate in the Tokyo studios and are sent via landlines to transmitters located at Nazaki and Yamata, some fifty miles north of Tokyo. Sixty-three per cent of Radio Japan's broadcasts pertain to news and news commentaries. Transmitting 37 hours daily in 23 different languages it operates in two services. The General Service presented in English and Japanese covers mainly news. While the Regional Service (North American, etc.) beams musical, language, dx, and information programs to certain areas of the world. Reports on the 11th Winter Olympic Games to be held in Sapporo in 1972 will be carried over Radio Japan shortwave service.

During 1970, an average of 3,000 reception reports and letters were received per month by Radio Japan. Presently, N.H.K. is offering a very colorful "Japanese Festivals" QSL card for correct reception reports. Write today for the colorful QSL and their programme schedule to Radio Japan, Tokyo, Japan. The station also offers a monthly programme guide, entitled "Radio Japan News", showing photos of listeners and summaries of programmes to be aired.

I would like to thank Hyoji Kurakata, manager of programme control division of N.H.K. for his very kind assistance in making this article possible.

* * *

WWV on.....15150 khz.

Recently, NASWA member M. R. Leonhardt received WWV on 15150 - which is "out of band" for this station. A reception report brought the following interesting answer:

Thank you for the reception report dated April 6, 1971. The most common causes for reception of WWV outside of its assigned frequency channels are cross-modulation and receiver image response.

In your case, however, I am unable to cite a specific station which is likely to produce cross-modulation at 15.150 MHz with WWV. Also since your receiver is very selective and has a high intermediate frequency, it is not probable that reception on 15.150 MHz could be attributed to images.

Cross-modulation and image problems notwithstanding, it is conceivable that you received an extraneous signal from one of our several transmitters. Although spurious emissions from WWV are kept below the maximum levels permitted by government regulations, it is quite possible for high-frequency radiation of only a few milliwatts to travel great distances under favorable propagation conditions.

I shall be interested in knowing if this condition persists.

John T. Stanley, Engineer-in-Charge

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SUPPORT NASWA

"Radio 4VEH"
Marlin A. Field

Radio 4VEH was founded by the East & West Indies Bible Mission under the direction of Rev. G. T. Bustin who first came to Haiti in 1942 in search of a property to begin mission work. In 1945 the first missionaries under the East and West Indies Bible Mission arrived to set up a ministry of national churches and a Bible School.

In 1950 as a result of Rev. Bustin's vision of a radio station connected with the work, Mr. Paul Shirk came from California to serve as the first radio engineer of Radio 4VEH installing equipment, erecting antennas and putting the station on the air. The first broadcast was in June, 1950. Late in 1951 a breakdown of equipment threw the station off the air for six months, at which time the transmitter was rebuilt to a power of 3000 watts.

Radio 4VEH became the outstanding voice of the Caribbean area. Letters came from every direction telling of reception loud and clear in many countries of the world, especially the U.S., Jamaica, and Colombia. However, due to lack of funds, the mission in Haiti was unable to expand as the founders had planned. By the close of 1957, Radio 4VEH was on and off the air due to various breakdowns of the worn-out equipment and power plants. It was evident that something soon had to be done.

Upon hearing that Rev. Bustin was looking for a group who might continue the work in Haiti, a group of men representing the laymen's branch of the Oriental Missionary Society, "Men for Mission", came to Haiti in January 1958 to survey the work. In June Men for Missions decided to take over the financial burden for the work. The Oriental Missionary Society was officially organized in Haiti in July of 1958 with Dr. William A. Gillam as the first Field Director. A cordial welcome was extended to the O.M.S. officials by the President of Haiti, Dr. Francois Duvalier.

The first broadcasts from a new transmitter building at Petite Anse were aired in October, 1960. In 1961 a new 10KW broadcast band transmitter was installed. The broadcasts continued to be aired from Petite Anse while the studio building at Vaudreuil served as recording and office center. Since 1965 all programs have been aired from the studios at Vaudreuil by using FM transmitter links. Projected plans call for the construction of a new studio-office complex near the present studios, and further expansion of 4VEH programming to eventually include 5 a.m. to 11 p.m. broadcasts in French/Creole, English and Spanish for continuous service to Caribbean listeners.

In 1957 Radio 4VEH was broadcasting from 4:00 until 10:00 each morning and from 6:00 until 10:00 each evening. During 1958, afternoon broadcasts from 2:00 to 4:00 were initiated in French and Creole. Later, Spanish broadcasts were added from 4:00 to 6:00 p.m.

The present schedule of dual broadcasting, i.e., broadcasting in two languages simultaneously was begun in January 1967 with 154 hours of programming per week. A second 10 KW broadcast band transmitter was installed in 1969.

In 1957 three transmitters were heard in 20 countries, 45 states and most of the islands of the West Indies. In 1961, the earliest accurate report available, 3,291 letters were received. In 1970, with seven transmitters in operation, 4VEH was heard in 32 countries, 45 states and the entire West Indies, with a total of 22,000 letters received.

The first 4VEH pre-tuned transistor radio was placed at Port Francais in January, 1960. A church was the result. At the present time, 2,500 radios have been distributed and plans are for the distribution of at least 2,000 additional sets, to be assembled and boxes constructed by Emmaus Vocational Bible School students in conjunction with their vocational training.

The staff of Radio 4VEH has grown continuously until at the present time there are 17 full-time Haitian workers who take complete charge of the French/Creole broadcasts. Seven foreign missionaries co-ordinate the technical department and English and Spanish programs.

"Radio 4VEH"
(continued)

Mr. Gaudin Charles, a young Haitian man, is presently co-director of Radio 4VEH with Mr. Mardy Picazo, who came to 4VEH in 1952.

Thanks to Radio 4VEH for supplying the material to make this article possible.

First Denmark,.....Then Austria

A recent edition of the famed Sweden Calling DXers Bulletin stated that due to financial reasons, the Shortwave Service of the Austrian Radio would be discontinued. Those SWLs and DXers who appreciate a station with excellent uninterrupted music, neutral commentaries and newscasts, and friendly cooperation will miss Vienna. Your voice counts.....if you do not want the Austrian Radio off the air, NOW is the time to write to the following address: Embassy of the Republic of Austria
Washington D.C. 20036

OR.....write to the Embassy in your nation's capital!

Be polite, state why you like the Austrian Radio's "Kurzwellendienst" and what you would think of its leaving the air. The ORF recently added high power transmitters and the maintenance on these cannot be so high.....Vienna is heard round the world....this voice of peace and understanding should not end transmission. A massive response to CBC cuts saved the International Service - in Denmark, we almost were successful - let us not fail in Austria. WRITE TODAY!!!!!!!!!!

Speaking of this number one station, we will shortly have a special presentation in the pages of FRENDX of the Austrian Radio....coming soon. But for now, WRITE that letter!

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"RADIO FREE BENGAL"

"Radio Free Bengal" was on the air again today claiming that the West Pakistan Army had been routed in several areas by guerrillas of the liberation army. Over 500 regular troops had been killed and a gunboat sunk....

Unfortunately for many gullible and excitable Bengalis, the heroic battles and the pictures of a retreating and vanquished Pakistani Army are, like the underground station itself, perhaps figments of a fertile imagination.

Without wishing to deliberately shatter the hopes of the Bengalis, I used a radio direction finding coil this morning to try to track down the location of the radio which claims to be operating from somewhere inside Bangla Desh.

To my amazement the direction-finding coil indicated that the strong, clear transmission was not coming east from the direction of Bangla Desh but was emanating from the north on exactly the same bearing as All India Radio broadcasts. Other checks made from several points in the city pointed unerringly northwards towards Chinsura and Magra where All India Radio transmitters are located.

Extract from a report by Peter Hazelhurst in the London Times June 2, 1971.

in Pakistan Affairs

via Richard Anderson

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THE RADIO DIARY OF DR. ERNESTO GUEVARA, M.D.

Part II

George Schnabel

July 20th more doubt concerning the veracity of radio reportage is expressed: "...The radio gave the news of the identification of the corpse of the dead guerrilla as that of Moises Guevara, but Ovando, in a press conference was very cautious with respect to this and blamed the identification on the Ministry of the Interior. The possibility exists that the whole thing is a farce or the supposed identification invented..."

By August 30th the group may have been down to its last receiver as can be judged from this brief entry: "...The radio remained below so that there was no news..."

September 2nd, 1967 the VOA earns a mention: "...We heard disagreeable news on the radio about the liquidation of a group of ten men led by a Cuban called Joaquin in the zone of Camiri; however, the news was broadcast by the Voice of American and local stations said nothing..."

September 3rd: "...once more the Voice of the United States gave information about a combat with the Army and this time it mentioned Jose Carillo as the only survivor of a group of ten men. Since this Carillo is Paco, one of the drifters, and the liquidation occurred at Masicuri, everything seems to indicate that it is a phony story..."

September 7th: "...Radio Cruz del Sur announces finding the corpse of Tania the guerrilla fighter on the shore of the Rio Grande, it's news that does not have the aspects of veracity as does the report about Negro. According to this broadcasting station her corpse was taken to Santa Cruz, but this is not what was heard from Radio Altiplano..."

September 11th: "...The radio gave news in the morning that Barrientos asserted that I had been dead for a long time and everything was propaganda. Then again at night they spoke of an offering of \$4,200 for data that could facilitate my capture dead or alive..."

September 30th: "...Radio Balmaceda of Chile announced that high army sources said that they had corraled Che Guevara in a wild jungle canyon. The local broadcasting stations were silent..."

October 7th: "...The Army gave strange information about the presence of 250 men in Serrano to prevent passage of those encircled, saying there were 37, and giving our refuge as being between the River Acero and the Oro. The news seems to be diversionary..."

Major Guevara wrote his last lines on the 7th of October, 1967. The following day in a narrow ravine called the Quebrada del Yuro he was surrounded and captured.

Postscript

At 0300 hrs. GMT on the 20th of July, 1970 the BBC World Service News mentioned that two German mining engineers employed at an American owned gold mine near La Paz had been abducted by guerillas who also bomb damaged buildings containing machinery. The guerrillas issued a statement claiming that unless the government released ten prisoners taken captive with Major Guevara in 1967, the hostages would be shot within twenty four hours.

Later the BBC expanded the story adding details. Apparently the new guerrilla group consisted of seventy men, mostly disaffected university students from the cities with a sprinkling of foreigners from Argentina, Chile, Uruguay, and Cuba. Their leader Osvaldo 'Chato' Peredo, brother of the late Inti Peredo. (Inti Peredo made good his escape from the Quebrada del Yuro and kept on fighting for almost two years until killed in a pitched battle with Police in Cochabamba late in the Fall of '69).

After hemming and hawing the Bolivian government caved in and agreed to the guerrilla's demands. The ten wanted people were placed aboard a military transport plane and

RADIO DIARY OF DR. GUEVARA
(continued)

flown to Arica, Chile where they quickly set up shop issuing a long manifesto WE HAVE RETURNED TO THE MOUNTAINS. This was broadcast by Radio Havana on the 23rd of July, 1970 at 2200 hrs. on 25 meters in Quechua and was beamed to Ecuador, Peru and Bolivia.

The ever volatile student body of San Andres University in La Paz rebelled and occupied campus buildings. During the occupation they dismantled a new transmitter belonging to the University and passed it out to the awaiting guerrillas. The guerrillas then withdrew into the rugged mountains of the Alto Beni where they probably still are.

The hostages were released as promised and during a press conference told that: '... during the first two days we could listen to reports broadcast from La Paz on three radio receivers used by the Guerrillas...'

They also noted that the Guerrillas used walkie/talkie and short distance radio/telephones to communicate between their several groups. However, they were unable to ascertain if the group possessed other transmitters suitable for long distance communication.

In January 1971 the Bolivian government released all the prisoners resulting from the 1967 campaign and flew them to Chile.

* * *

THE TRANS-POLAR BEAM
Richard E. Wood

Many international broadcasters, in their schedules, specify the angle of beam of each directional transmission. This is an important factor for any directional outlet, and of more than academic interest to the listener. In fact, for stations whose beamed signals have to cross a zone of ionospheric disturbance, the beam is crucial. And the polar zones are such areas par excellence.

The careful listener keeps a regular check on propagation by listening to the forecasts on WWV, the sunspot numbers on SBC, and through practical observations. These are of great interest in themselves, but they also have practical application both in seeking new stations which may be heard under unusual propagation conditions only, and, as will be shown later, in continuing to listen to one's favorite programs from trans-polar stations even under disturbed conditions. For the North American listener, this means chiefly stations in northern Europe and northern Asia. In this connection, the precise angle of beam in use is of the utmost interest, as the following example shows.

The receiving location of the present writer, in the southern part of the Central Standard Time zone, is close to the azimuth of maximum radiation of Radio Sweden's Eastern North America transmissions, 295°. Under normal conditions, then, he receives a stronger signal from the 295° beam than from any other Radio Sweden transmission. Nevertheless, the signals from the Horby transmitter pass a little to the south of Greenland and along the coast of Labrador. This is the outer rim of the auroral belt, during average conditions. During conditions of intensified auroral activity, the belt moves much farther south, into the Mid-Atlantic. It is a rare day when the 295° beam is entirely flutter-free. F-4 in the SINFO code is average.

Radio Sweden uses two other beams to the Americas. A 325° beam points at San Francisco; on its way there it bisects Greenland and continues over the Northwest Territories, very close indeed to the Magnetic Pole. The result - an F-4 on a good night, but F-3 on the average.

On the other hand, a 235° beam down the coast of Brazil towards Argentina hugs the coast of Holland, France and Spain, well to the southeast of the normal auroral zone. In this location, while strength is never above an S-4, fading is negligible, F-5.

THE TRANS-POLAR BEAM
(continued)

On a normal night (ignoring factors of interference), summer readings from Radio Sweden are:

11705 kHz, beam 235° to S. America : 45554
 11825 kHz, beam 295° to Eastern N. America : 55544
 11705 kHz, beam 325° to Western N. America : 55533.

Now, however, observe a night of only moderate auroral disturbance. June 2, 1971, was such a night. South-west European stations were affected little or not at all. Even the more northerly BBC was only slightly affected. But the results on the three beams from Radio Sweden were dramatically altered. Again deleting the effects of interference and inserting a "5" in the "I" column, the tables were seen to be turned among the three beams:

11705 kHz, 235° to S.A. : 45554
 11825 kHz, 295° to E.N.A. : 35522
 11705 kHz, 325° to W.N.A. : inaudible.

These observations have a moral for both listener and station. Under disturbed conditions, to hear your favorite trans-polar station, if you do not hear the transmission beamed to your own area, try the frequency beamed one, or two, target zones farther south. For the station, the moral is a technique which may one day be adopted by the international stations which today show great alacrity at installing super-power units but which remain, in other ways, still in the age of Marconi. How many international broadcasters keep a careful check on current ionospheric conditions, day by day, hour by hour, and change their beams accordingly? The answer, of course, is none. Only the BBC occasionally, when an intense ionospheric disturbance is already well underway, announces the fact, and advises North American listeners to tune to a lower frequency or to the Ascension Island relay. Correct, sophisticated beaming techniques may - one day - become the norm in international shortwave broadcasting.

* * *

FROG-LEG RADIO

The Kickoff of the Age of Electricity was made by a frog leg, as every schoolboy learns. The leg jerked when Galvani touched certain metals to it, demonstrating the flow of electric current. Hardly anyone, however, knows that 130 years later another frog leg wrote radio history. In 1912 a French doctor clamped the upper end of a frog's severed leg to a board and attached its main nerve fiber to two lead-in wires from an antenna. He harnessed the foot to a pointer resting on a soot-blackened cylinder and when the dot and dashes of the Paris Observatory's 10:45 A.M. time signal were broadcast, the leg twitched along with them. Its motion scratched curves and jogs on the slowly revolving cylinder--reportedly the first written record ever made of a radio message. Scientists were duly impressed, but they correctly predicted that the frog-leg wireless receiver would never be a commercial success.

John Du Barry in TRUE
via Andy Kerr

* * *

On occasions, the Short Wave Center is especially pleased to present an article or series of articles. Through the energies of our member in Auckland, New Zealand - Barry C. Williams - we have available to us a fine series on radio in days gone by. This is a rather long series, but worth the time to read it and keep it for future reference. I am sure that all NASWA members and friends will find this glimpse to days gone by - whether a pleasant memory or a fresh look on "history" - worthwhile. So, without further ado, let's turn back the clock....with PAGES FROM THE PAST....

PAGES FROM THE PAST

Part I

Barry C. Williams

Last year I made contact with a Mr. Alan Breen of Dunedin, New Zealand. Although I have never met Alan, we have corresponded and he kindly loaned me his rare and unique collection of shortwave and broadcast verifications covering his listening years 1930-1940. In all, there were around 250 verifications from shortwave stations. I have spent many enjoyable hours going through these fascinating cards and letters capturing a little of the early days of DXing. Alan must have been one of the founders of the hobby of SW DXing with his first verifications coming back in 1930. In a letter from CJRX Winnipeg they mention the reference which Alan made concerning reception in 1929. This is remarkable when one considers that PCJ commenced regular SW transmissions in 1927 only two years earlier.

As I have accumulated much interesting information from these verifications, I have made a series of articles under continental headings as follows:

Asia and Africa
Europe and Americas
Dutch East Indies
Early Pacific SW Stations
Summary

ASIA and AFRICA

During the thirties there was much development in the establishing of shortwave services by Asian broadcasters. A typical country would be Burma.

(1) Burma became independent from India in 1937 and on May 16 commenced experimental broadcasts on shortwave. An interesting verification letter was received by Alan, the letter-head being "Indian Post and Telegraph Dept. -"With India crossed out and Burma typed in, in place of it." The government radio station was located at Mangaladon and transmitted on 49.94 metres, 6007 kcs. The transmitter was a Marconi beam telephony set of the Government P & T Dept., installed for commercial speech (Indo/Burmese) and loaned daily for these transmissions. The aerial output power was 1.5 kW.

The letter mentioned that it was possible a broadcast station would be constructed in Rangoon at some future date. Transmission hours were 0930 - 1100, 2000 - 2115 BST. Programming was in Burmese and English.

A card verified reception of the Burma State Broadcast Service for a December 1938 report. Call signs given for the Rangoon station were XYZ on 6007 kcs and XZZ on 3488 kcs. A further letter dated 20th June 1940 confirmed reception of a test transmission from the Burmese Wireless Division, Rangoon on 6047 kcs. Regular transmissions were to be resumed on 6007 kcs.

(2) Another interesting letter was from the General Post Office Kuching, Crown Colony of Sarawak, 11th March 1940. The following details were included in the letter:

- (a) We only go on the air on telephony once a week at 0010 GMT on Saturdays, the frequency used at present is 6985 kcs but we shall probably be shifting to 8710 kcs within a month or two when conditions on the bands improve here.
- (b) The transmitter provides 50 watts to the aerial and modulation is about 80%.
- (c) Our call letters are VQE but announcers generally use the word "Kuching" in preference to the call. The programs consist of a few gramophone records followed by information of interest to Sarawak government officers and public in English and a summary of the week's news in Malay and Chinese.

(3) Government Broadcasting Station, Macau, 7th December 1936 "Station CQN" was on the air every Monday and Friday 1200 - 1330 GMT on the 31 metre band with an effective radiated power of 300 watts. They announced in Portuguese and English after every other "musica". Alan again verified Macau on January 9th 1939 when they changed their call sign to CRY9.

PAGES FROM THE PAST

(continued)

(4) During the early thirties the Malayan Amateur Radio Society in Kuala Lumpur operated a shortwave station. They verified Alan's report of January 8, 1933 of their station ZGE on a wavelength of 49.82 metres (6130 kcs). The society's secretary, T. E. Byer, gave transmitter details as a Marconi S3A, crystal controlled, grid modulated, a periodic antenna, with power of 180 watts. Schedule: Sunday, Tuesday and Friday 7 - 9pm local time. A note on the bottom of the letter informed Alan that his was the first report received from New Zealand, although they had had a number from Australia particularly Western Australia. They had also received several reports from Japan, New York, Chicago and one from Holland.

Another shortwave service from Malaya was operated by the Radio Service Company of Malaya (1934) Ltd. in the city of Singapore. They were a commercial firm owning radio shops throughout Malaya and were agents for Philco radios, Milnes batteries, Triotron valves, Belling Lee, Epock speakers, British Condensers, Elmeco resistors, Block accumulators and Engel mains components. Their broadcast station, ZHI, operated on 6015 kcs with 180 watts. Their schedule was Monday, Wednesday, Thursday and Sunday 6 - 8:30 pm Singapore time and every second Sunday a relay of the Presbyterian Church Service was presented preceded by an organ recital from 5:30 - 7pm.

The 24th of August 1938 saw the verification of another Malayan station. A letter was received from ZHP on 9690 kcs, 400 watts, the British Malay Broadcasting Corporation, Singapore.

(5) Alan's earliest Asian verification was an unusual station MTCY, the Hsinking Central Broadcasting Station, operated by the Manchuria Telegraph and Telephone Co. Alan verified MTCY by letter and card on October 2nd, 1931. MTCY was a 20 kW station operating on 25.48 metres, 11775 kcs, with programs consisting of news, music and informative talks. A friendly letter and an unusual rather attractive and detailed verification card made MTCY a valued addition to any verification collection.

(6) JQAK and shortwave station JDY, the Dairen Broadcasting Company commenced operation on the 16th of July 1937 in order to, "inform the world of Japan's righteous standpoint as well as Manchuokuo's wonderful progress against the incorrect and malignant propaganda broadcasts by China." JDY, The Voice of Manchoukuo, MTT Service, operated on 9925 kcs with 10 kW 1200 - 1300 GMT in Japanese, Manchus and English. The location was given as Dairen, Kwantung leased territory.

(NB) Kwantung was the name given to South Manchuria when Japan took it from China in September 1931. Dairen was a seaport there.

(7) The beginning of another SW service was the experimental broadcast station HS8PJ (which began in 1937) at Saladang, Bangkok, Siam. This station verified with an attractive card with large call letters on it. They operated a crystal controlled transmitter on 9500 kcs with a power of 5 kW into a centre fed Hertz aerial. The time of transmission was Thursday 1300 - 1500 GMT. In 1939 a similar QSL card was received from the Overseas Broadcasting Station at Saladang verifying HSP6 7968 kcs from HS8PJ and also listing HS6PJ, 19020 kcs, which was used on Mondays only. The power had increased to 10 kW and transmissions were now daily.

(8) The 20th of April 1935 was the date on a verification card very similar to that used in recent years, from Radio Hongkong's Experimental transmission on 8750 and 5410 kc. It was crystal controlled and operated with 250 watts. A verification card in 1936 was received from ZBW3 9525 kcs, 2 kW, and ZBW4 15190 kcs, 2 kw.

(9) The earliest verification from Japan was December 13th, 1934 from Kokusai-Denwa Ksaiha, Ltd. (International Wireless Telephone Company of Japan, Ltd.). This company had four transmitters at Nazaki relaying JOAK in an overseas service. They were JVT 6750 kcs, JVP 7510 kcs, JVN 10660 kcs and JVM 10740 kcs, all 20 kw into a vertical doublet antenna. Also listed on the verification card were 20 other stations 10 or 20 kW used in their International Telephone Service to Europe, USA, Java and Philippines, Manchukuo, Formosa, and ships.

PAGES FROM THE PAST

(continued)

Although Radio Japan commenced overseas transmissions in 1935, Alan's first verification was not received till October 15th, 1938. They verified his report on JOAK2 with a photo card from Radio Tokyo (Note not Radio Japan) showing their extensive array of directional aeri-als and modern 50 kW transmitters. In 1937, according to a reference book, NHK had an overseas service over station JZJ on 11800 kcs. It appears JZJ was relatively low powered and it was not till 1938 that NHK became a major shortwave power.

India and China proved to be an interesting DX field. All India Radio had shortwave transmitters located in Delhi, Madras, Bombay and Calcutta. Prewar China had numerous private stations such as XTJ 11691 kcs-Hankow, XPSA-Kwengyang, XGOX-Nanking, XGRS 11850 kcs-Shanghai and XMHA 11910 kcs-Shanghai. Two other Asian stations worthy of mention were Radio Hanoi, French Indo-China, on 11900 with 150 watts. Naturally, no connection with today's "Radio Hanoi". The other station was "Boy Laundry Radio" Saigon on 11710 kcs.

It appears that the continent of Africa was very rare on shortwave with only a very limited number of countries with regular or even experimental services. In Alan's 250 verifications received during the Thirties there were no more than six or seven Africans. Among them were VQ7LO on 6060 kcs from Cable and Wireless Ltd., Nairobi, Kenya, Tananarive 9380 kcs, Brazzaville "The Voice of Free France" heard during the war, Radio Maroc 12830 kcs, CR7BH 11718 kcs 250 watts "Radiofilos de Colonia de Mocambique" and ZRH Pretoria, Union of South Africa.

Probably the most interesting verification was a QSL card from EA9AH a ham in Tetuan, Spanish Morocco. EA9AH "La estacion Experimental Nacionalista" had regular news broadcasts in English and Spanish at 2145, 1100, and 0300 GMT. The QSL card verified reception on 20 metres. Power was given as 500 watts. Reception occurred in September 1937 and on checking back in a DX magazine I found EA9AH listed on 14004 kcs.

In a letter recently received from Alan he did make mention of what he termed his most interesting African verification. This was 1ABA, Addis Ababa - under Italian occupation. This verification was not among those I saw, but no doubt it would have been a very interesting catch.

* * *

AUSTRALIA

Radio will be fed into city homes by cable before the end of the century, according to the Australian Telecommunications Development Association. The association predicts that smaller diameter broad-band cable would provide the services for radio, television, and ancillary services in the next thirty years.

Radio frequencies at present used for medium wave broadcasting would be freed for other uses.

The cable would include channels for reading gas and electricity meters and for transmitting accounts to the householder.

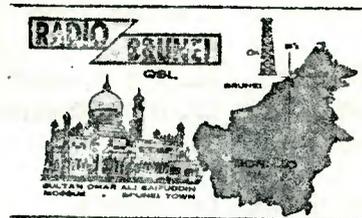
Other channels would enable housewives to do their supermarket shopping, obtain bank statements or information from public libraries. The cable could also be used to bring a type of newspaper into homes.

ICB Bulletin

.....via Bill Coleman

* * *

Remember - your letter to the Austrian Embassy today might just make the difference as to whether we have the Short Wave Service of the Austrian Radio tomorrow.



QSL REPORT

GREGG A. CALKIN-EDITOR
RIO BALSAS 35
COLONIA CUAUHEMOC
MEXICO 5, D.F., MEXICO

Deadline 15th of Month
(Note: Airmail rate to
Mexico is same as in USA)

+++++

- Algeria: RTA, 11.715, black and gold QSL card in 1 month for 2 IRCs (Kelley). card and schedule in 1 month for 11.835 (Pyatt).
- Angola: A Voz do Angola, 9.660, color view of city in 70 days, 2 IRCs (Kelley).
R. Clube do Huambo, 5.060, drummer card with verie statement in 3 weeks for Portuguese report and 3 IRCs (Sizer).
- Argentina: RAE, 9.690 card in 92 days airmail for English report and 3 IRCs (Hyre)
LOL, 15.000, bi-lingual folder card in 116 days for English report (Dildine), 7 weeks for Spanish report and 2 IRCs (Sizer).
- Asiatic Russia: Radio Moscow via Vladivostok, 8 weeks, full data from Mrs. S. (Berg)
- Austria: ORF, 6.155 photo card of recreation area, schedule & report form, 3 weeks air (Schultz), all data but wrong date (Lewis), 6 weeks (Pyatt), 7.250 and 9.765, seperate cards 6 to 8 weeks, also 17.850 (Padula), 15.200, 2 months surface (Estand), 3 different cards, 2 months air, no IRCs (Dildine).
- Australia: Radio Australia, Darwin Transmitter card in 150 days for 9.580, Shepparton, (Schultz), 15.330 & 17.820, 90 and 60 days (Marinoff), 11.710 in 3 months (report mailed to ABC Overseas Service, Suite 2708, 1270 Avenue of The Americas, New York, 10020) (failed to credit this reporter, sorry!), VLN15, Perth, 15.425 blue map card, full verie, 12 days for 4 IRCs (Dildine), Radio Australia, 11.710, 87 days, sea (Thomson), Shepparton 21.54 18 days air (Stuart).
ABC, Perth, 9.610, new map card in 8 days (Stuart), 13½ weeks airmail (Howard).
ABC, Sydney, 6.090 blue map card in 7 weeks for 3 IRCs (Howard), all data, 25 days, 3 IRCs (Sizer).
ABC, Brisbane, 9.660, 3 months, 2 IRCs (Bruce).
VNG, Lyndhurst, 12.000 folder card in 14 days, full details, returned IRCs (Bruce), 3 months airmail (Estand).
- Belgium: ORU, 9.550, card, mailbag letter script and schedule in 1 month for 1 IRC (d'Adolf), red, blue and yellow QSL and schedule, 33 days, air for 2 IRCs (Leonhardt), 11.755, 10 weeks airmail (Padula).
- Bolivia: Emissora Pio XII, 5.961, letter signed by Padre Yvo Lescouzeres, Director General, 13 days airmail (Dexter).
Radio Altiplano, 5.045, red and blue character card of Indian, date only, 6½ months for taped report and mint stamps, 2 months after follow-up (Berg).
La Cruz del Sur, 4.875, 2 page personal letter, QSL card and pennant from Alec Kerfoot, Engineer. All details, airmail, 15 days (Wood).
- Botswana: Radio Botswana, 4.845, card in 2 months after follow-up, English report and 2 IRCs (Kusalik).
- Brazil: R. Inconfidencia, 6.000, form letter signed by Oiamar Figueireala Vieira in 2 weeks for mint stamps, complete data (Pyatt).
Radio Brazil Central, 4.995, bilingual letter in 15 days for English report and 2 IRCs (Sizer).
R. Clube Goiania, letter in 21 days via airmail (Lobdell).
- Brunei: Radio Brunei, 7.215, 7 months after English report and 4 IRCs, 1 month after follow-up. White card with green map of Brunei and yellow picture of mosque and oil well. Date and frequency only, signer: N.J.A. Frigout, CE (Perry). card, all details in 11 days, also sent schedule (Padula).
- Bulgaria: R. Sofia, 9.700, card and schedule, air in 41 days, 2 IRCs (Leonhardt), 60 days seamail, no IRCs (Dildine), seaside view card and postcard for 7.670 ...

Byelorussian SSR: Radio Moscow via Minsk, 15.150 card with site indicated, 21 days airmail, no IRCs, also 1 month air returning mint stamps (Dildine).

Radio Moscow, Orsha, 9.755 card for NA service in 6 weeks from

Mrs. S. (Sparks).

Canada: Radio Canada, 9.625, Anik I card, 16 days (Gehan)(Dickey), 11.935 1 month (Magne) CBC Northern Service, Eskimo sculpture card in 48 days for 11.720 (Marinoff) 16 days, full data, no return postage, signer: Brian Townsley, Supervisor, Information Services (Berg).

CKZN, St. John's, 6.160 card in 13 days for Canadian stamp (d'Adolf).

CFRX, Toronto, 6.070, picture card and full data, 6 days, no return postage, signed by Clive Eastwood, VP Engineering (Berg).

CFCX, Montreal, 6.005 red, purple card, 49 days air for 1 IRC (Dildine).

CJCX, Sydney, 6.010 card via surface, date only (Schultz), 1 month for 1 IRC (Kelley).

CHNX, Halifax, 6.130 plain card in 2 weeks for 1 IRC, signer: Andrea Sears, (Plum), 6 days, 1 IRC (Kelley).

CFVP, Calgary, 6.030 card in seven days (Kusalik).

Canal Zone: NBA Time signal 17.697.5 prepared card from RMC F.R. Knutson, Box 5007, Port Amador, Canal Zone in 11 days for SASE. U.S. stamps unuseable, 11 days airmail (Dildine). prepared card in 6 days from Washington (Sizer).

Canary Islands: RNE Relay, Santa Cruz, 15.365 QSL'ed via Madrid in 10 days airmail returned 1 of 3 IRCs sent. Black and white tower card verie text in SS, special stamp for relay site from Jefe de Relaciones. Also various schedules and nice pennant (Michalenska), studio card direct, from Juan de Rojas, 2 IRCs, 3 months (Dildine), 11 weeks for mint stamps (Schnur).

Cape Verde Islands: Radio Clube de Cabo Verde, card in 2 months seaimail for PP report and 2 IRCs. Still lists frequency as 3.960. (Perry).

Central African Republic: Radio Bangui, 5.035 OCORA card, all data except frequency 2 months for French report and mint stamps. Airmail reply (Berg).

China (People's Rep. of): Radio Peking, 7.120, thank you card with no data, post cards and propaganda magazines in 3 months seaimail, no IRCs (Plum), 9.785 magazines, postcards, no verie info, 95 days (Lewis), friendly personal letter and color card for 3 IRCs. Airmail (Schnur).

Clandestine: Radio Espana Independiente, card from Paris in 5½ months for English report and 3 IRCs via Prague address. All data on dove design over map of Spain (Sizer), 10 weeks, all details for 1 IRC (Martin).

Colombia: Radio Nacional, 4.955 card with golden ceremonial headdress on blue background in 47 days, air, 1 IRC. (Jamison), card in 2 months airmail. Used SS report form (unk), postcard of village scene in 65 days for mint stamps (Schnur).

Emissora Nueva Grande, letter and pennant in 16 days for NASWA SS form and 2 IRCs, vague verie statement from Lucy Rodriguez (Jamison).

Radio Vision, 6.105, SS letter in 26 days for Spanish report and mint stamps (Sizer).

Radio Santa Fe, card and pennant in 2½ months via seaimail (Charnes), card in 2 months with pennant from Sr. de Bernal via seaimail (Pyatt).

La Voz del Caqueta, 5.035, postcard with date and verie statement signed by H. Arce H., Ing., 20 days airmail (Wood).

Transmissora Caldas, 5.020 letter from Doin Martinez e. also black, green, white pennant, 37 days sea for Spanish report and 3 IRCs (Dildine).

Congo Rep: ORTF, Brazzaville, 15.190, full verie handwritten on prepared (or picture ?) postcard, report to and reply from Paris, 4 months, air, 2 IRCs (Dildine), 27 days via air, full details on white card with yellow drawing of Africa and brown ceremonial mask (Rosen), folder QSL in 16 days air for FF report and 2 IRCs (Leonhardt)

Rdif. TV Congolaise, Brazzaville, OCORA card in 6½ months after taped report and 4 IRCs, 2 weeks after follow-up letter. Airmail (Berg).

Congo, Dem. Rep of: RNC, Kinshasha, stencilled letter in French for 15.245 for FF report, no IRCs (unuseable there). Reply in 8 weeks from V. Nikuna le Directeur Chef des Services Techniques saying QSL cards out of stock (Padula), 9½ months after first report, 4½ after registered 2nd report with mint stamps (Berg).

Costa Rica: TIFC, 9.645 23rd anniversary pennant and picture postcard for mint stamps in 6 weeks, seamail (Pyatt), card and schedule in 14 days for mint stamps, full verie, airmail (Munger), 2 months for card, schedule and personal letter, 2 IRCs, (Kusalik), 32 days (Goltz) 35 days (Thomson); plain card in English, 40 days (Schnur).
TIQ, R. Casino, 5.954, green QSL and green pennant, airmail in 2 weeks (Banta), (Charnes), 20 days, IRCs returned (Martin).

Cuba: Radio Havana, 11.840 111 days, airmail (Lewis).

Czechoslovakia: Radio Prague, 7.345 card via seamail in 77 days (Thomson), 5.930 card in 55 days seamail, no IRCs (Leonhardt).

Denmark: Radio Denmark, 15.165 radio house aerial tower card via airmail in 3 weeks for 2 IRCs (Howard).

Dodecanese Islands: VOA-Rhodes, 6.015, regular card from Washington in 5 days signed by Beth de Marchi (Howard).

Dominican Republic: HIFA, La Voz de las Fuerzas Armadas, 4.825, card with DR map on front, incomplete data, and 7 color pennant, seamail in $4\frac{1}{2}$ months after follow-up (Calkin), 74 days for card, pennant and tourist book via seamail (Lewis).

HIN, 4.910, 3 page personal letter, very specific verification with all details from Hector Quezada Naar, Director Gerente. Also schedule, and QSL card, via air in 14 days (Wood).

HIDB, R. Libertad, Santiago, postcard of sculpture with verie statement on back from Lucia Vanderhorst S., airmail in 14 weeks for SS report and mint stamps (Berg), 3.212 3 months for mint stamps (Sparks), 3.225 waterfront scene in 14 days, airmail, (Schnur)

La Voz de la Libertad, 3.205 letter in Spanish from German Camarena, via airmail. (Schnur).

Ecuador: HCJB, 15.115, 9.710, 17.880, 11.745, 21.160. Total of 9 reports sent and 9 cards, all different received, plus pennant, color postcard, canendar in 1 month for 21 mint stamps! and 4 IRCs (Kelley), 4 weeks air, control room card (Berg). 9.710 24 days for card signed by Roger Stubbe, 3 IRCs, airmail (Schultz) 15.115 43 days for cards (King), 21 days for card showing Indians making fabrics (Dickey), 11.745, 18 days for card, schedule and info sheet (Dickey), compound card in 3 months for aerogram report (Perry), card and schedule in 17 days, air for 3 IRCs (Gehan)

R. Casa dela Cultura, white card with verie statement from Director, 3 weeks airmail for Spanish report and mint stamps (Berg).

Canal Manabita, 4.815, long letter, viewcard of station, schedule and large pennant from Lauro G. Fernandez C., Sub-Gerente, registered airmail in 33 days (Wood)

Casa del Cultura, 4.895 (again) card with date and time but does not specify aberrant frequency. Schedules also sent by Director, H. Perez Estrella. Airmail in 30 days (Wood).

El Salvador: Radio Nacional, 9.555, QSL card, tourist folder and photo of transmitter in 22 days airmail for spanish report and 2 IRCs. No data (Leonhardt).

France: ORTF, all data on card in 10 weeks for 2 IRCs. Sent report in French and English for practice, they corrected and returned French report as requested, also cordial personal postcard. (Lewis) (Yes, assuming they were on then, 15.190 would count as Brazzaville, tho confirmed via Paris - Ed). 15.295, scenic card of Paris data written on in longhand, via airmail (Lewis)

French Guiana: ORTF, 3.385, letter and schedule in $3\frac{1}{2}$ months from H. Lebegue via airmail (Charnes).

Fiji Islands: Radio Fiji, Fiji Broadcasting Commission, card of beached canoe-type craft with red sail, apparently new design, aerogramme also received from Mr. P.L. Littin informing of possible closedown of SW operations. Airmail reply on QSL for 3 IRCs (Jamison).

Finland: Radio Finland, 15.185, map with headphones QSL card and schedule via air in 22 days for 2 IRCs (Leonhardt), 3 weeks, no IRCs (Howard), 23 days, full data (Rosen), 46 days airmail for English report and 2 IRCs (Hyre), 53 days for 3 IRCs via airmail (Brindley), 29 days air for 3 IRCs (Schultz).

Gabon: RTV Gabonaise, 4.777 card in 18 days airmail for FF report and 2 IRCs (Dildine).

Gambia: Radio Gambia, 4.820, form letter with verie statement and data, also info on Gambia and schedule and technical details on station. Signed by Director of Information and Broadcasting, 9 weeks, air for taped report and mint stamps (Berg). 11 weeks air with 3 IRCs returned (Schultz), 14 days, 2 IRCs (Martin); 18 days air for 3 IRCs (Weber), 3 weeks air for mint stamps (Pyatt).

German Democratic Republic: RBI, 9.730, brown QSL card, full data and schedule, 2 months, seamail (Banta), 41 days (Marinoff).

(Weber).
Deutschlandsender, 7.185, card for RBI form, no IRCs
DIZ Time station, Nauen, 4525 letter with considerable
info but said does not send QSL cards, included photo of main measuring room. V/s
Dr. Ing. M. Meinig, 2 months seamail for EE report and 2 IRCs (Dildine), 7 weeks
for 3 IRCs (Sizer)

DAM, 6.475.5, card acknowledging receipt of report and
says "matter is being given attention", 2 months sea, 2 IRCs and English report
(Dildine), same card received here (Dexter).

German Federal Republic: Deutsche Welle, 11.785 blue map card 60 days airmail, full
data (Lewis), 9.735 68 days, 2 IRCs (Dildine), 9.545, card and schedule, 71 days
seamail (Marinoff) 35 days (Schultz), 6.145 card and schedule in 70 days (Dickey).

Deutschlandfunk, card pennant and posters, also calendar
in 3 weeks for 1 IRC (Martin).

Ghana: Radio Ghanna, 11.850 card with mimeo schedule in 42 days airmail for 3 IRCs
(Brindley), multi-colored card preceded by letter, 58 days, no IRCs (Munger).
9.545 card and schedule in 26 days via surface (Marinoff), 6.130 43 days for 2 IRCs,
earlier sent letter saying report was being checked (Leonhardt), 4.915 card in 1
month for 2 IRCs (Isen).

Great Britain: BBC, 6.080 letter with only date omitted site given as "United
Kingdom", and apology for delay in replying. V/s Miss V.R. Pressman. Also World
Service schedule and acknowledgement card. 3 months air for tape and 2 IRCs
(Dildine); 7.185 Thames River card in 121 days (Schultz).

Greece: R. Athens, 15.345 plain card, all details, airmail in 43 days from Director,
Technical Services (Wood).

Greenland: Radio Greenland, 5.980 white folder card in 4 months airmail for 2 IRCs.
Also brochures about Greenland and station info from H. Rasmussen, Head Clerk (Perry)

Guam: NPN, Agana, 17.530, blue and gold card direct in 11 days air for US airmail
stamp (Sparks), 10 days air for SASE (Dildine).

Guatemala: TGNB, Radio Cultural, 9.505 card, schedule and stamps for EE report in
10 days, returned mint stamps (Isen), Quetzal bird card in 21 days plus letter,
sked, stamps and religous info from David Keeler, Engineer (Schultz), 3 IRCs, 4
weeks (Martin), 28 days for Mike card and phamplets, 2 IRCs (Goltz), card in 16
days (Thomson), card, schedule, tourist office pennant, cancelled stamps and letter
in 22 days (d'Adolf).

Guyana: Radio Demerara, 3.265, plain card listing frequencies from J. Jean in 16
days air for 3 IRCs (Schnur).

Haiti: 4VEH, 9.770 card, all data plus power and call from Mrs. Kent Ragsdale,
folding card with skeds in 30 days for mint stamps (Lewis), letter, sked and
calendar in 58 days air (Dickey).

Hawaii: WWVH, blue beach scene card, 6 days, no return postage (Berg).

NPM, vague reply card for test tape report, 2 weeks, air (Stuart).

Honduras: HRVC, 4.820, card in 80 days via surface, also schedule and station
info, verie info out of date, 1 IRC, no signer (Jamison) card in 2 months for 2 IRCs
spaces for date, time and frequency left blank (Ricchezza), card, no details, 68
days air for English report and 3 IRCs (Dildine), old card, blanks left that way,
large Spanish, English schedule, seamail, 4 months (Banta), 47 days (Dickey),
grey, pink, black and white card, complete info, 5½ months for 3 IRCs and follow-up
(Estand), 50 days for 2 IRCs, blank card (Leonhardt), 57 days (Schultz), 2 months
for mint stamps (Isen), 3½ months for 3 IRCs which they said on air would bring air
reply, card not filled in (Charnes).

R. Progresso, 4.920 letter in Spanish with English PS from Jerry E.
Tolle, gerente. Says QSL cards being printed, 17 days air (Wood, 3 weeks air for
SS report and mint stamps, full data, much info (Berg)

Hungary: Radio Budapest, 11.910, card, airmail for 3 IRCs (Schultz), 9.833 card in 63 days air (Munger), 69 days with DX Club info on back plus personal note (Marinoff) 45 and 54 days for card via surface mail (Dickey), personal letter thank you and card in 11 weeks (Plum), 6.025 card with night view of parliament houses, all details seamail, 14 weeks (Padula)

India: AIR, Delhi, 9.570 Gate of Victory card via air in 15 weeks (Padula)

International Waters: RNI, 6.205, Mebo II card, 3 weeks for IRCs (Banta), 1 month for IRCs, first try (Lewis), 3 months seamail for 2 IRCs (Wood), (Magne), 15½ months total after 4 reports and many IRCs (Berg), 2 months sea for IRCs (Dildine).

Iran: Radio Iran, 15.084 white card and old "Iran Today" magazine, registered, for 2 IRCs, 10 weeks (Howard).

Iraq: Radio Bagdad, 9.610 yellow map and flag card stating wrong frequency. (So did I, you heard 9.745, not 9.610 - Ed), airmail in 14 weeks for 3 IRCs (Howard).

Italy: RAI, 9.595 card in 35 days, full data (Goltz), 9.575 antenna/map card with full verie data, 51 days for 2 IRCs (Dildine), 3 months, no IRCs (Howard).

Ivory Coast: Radio Abidjan, card with map, antenna and "SWL de Radio Abidjan" imprint, only date indicated, 10 months after English report with IRC, 3½ months after second report in French with mint stamps. Surface mail reply. Pinned note at bottom in English apologized for delay and mentioned English news program. So, reports to "English Language Department" might help (Berg), 4.940, for French report and mint stamps, apology for delay. 8th try (Sizer). 11.920 large card with complete info, personal thank you note and English schedule in 5 & ¾ months, air for 3 IRCs (Estand), 5 months for 3 IRCs, air reply (Rosen), 1½ years, 1 IRC, apologized for delay (Kelley).

Japan: NHK, Radio Japan, 21.640 Festivals card in 2 weeks, unsolicited (Dildine), 17.825 letter, card, mint stamps, pennant, R. Japan News, report forms, 2 different questionnaires and schedule, 18 days, air, no IRCs (Dildine), Tower of Sun card with skeds, calendar etc. IRCs returned, 31 days (Lewis), card in 25 days (King).

Jordan: Radio Amman, 7.155 full data, postcard QSL card in 40 days for IRCs (Goltz).

Kuwait: Radio Kuwait, 15.345 attractive 3 fold card and schedule via airmail in 2 months (Ricchezza), 11.825 3 months for 3 IRCs, all data and schedule (Lewis).

Lebanon: Radio Lebanon, seamail reply in 150 days for 11.780. Radiohouse card with all data from Ministry of Information, 3 IRCs (Michalenka), 3 months sea, full verie (Dildine), 11.820 card and schedule, 125 days air (Munger).

Lesotho: Radio Lesotho, 4.800, 2 flag cards, no signer, 2 months (Dexter), form letter in 5 weeks for 3 IRCs, signed by J.J. Niemandt (Sparks).

Liberia: ELMA, 11.940 African drummer card, schedule, phamplets air for 3 IRCs, 19 days (Schnur).

VOA Monrovia, 17.775 5 days via Washington (Dildine).

Libya: Libya Broadcasting Service, letter from CE Nouri El Sharif for 8.630 which he says is Tripoli, 10 kw. English report sent registered to Box 119, El Beida (Sizer).

Lithuania: Radio Moscow via Kaunas, NA Service, 11.870 card in 1 month airmail, returned mint stamps (Dildine). "Vilnius program", 9.610, card seamail, 74 days (Schultz).

Luxembourg: Radio Luxembourg, white card with black lettering, from London, frequencies but no data, 6 weeks for 3 IRCs. (London address: 38 Hertford Street, London W1Y 8BA) (Berg), Antenna card in 73 days air for 1 IRC, no signer (Jamison), 59 days for 6,090 (Lewis).

Malaysia: Voice of Malaysia, attractive card with map and flag, frequencies and locations listed, verie statement but no data, 10 months after report with IRC, 1 month after follow-up with mint stamps, airmail (Berg).

Mexico: Radio Mexico, XERMEX, 21.705, letter, no data, pennant, schedule in 2 months registered for SS report and mint stamps which were not used (Dildine).

Monaco: Radio Monte Carlo, mountains and antennas card 1½ months after follow-up with mint stamps, airmail reply (Berg), no signer, surface mail for 1 IRC in 70 days, date and frequency only (Jamison), 7.135 card, 1 month sea for FF/EE report (Lewis), TWR, 7.290 antenna card in 50 days for 1 IRC also red and white paper pennant and schedule (d'Adolf).

Mozambique: Radio Pax, Beira, 3.960, red and blue star card in 16 days air for English report and 3 IRCs. Card in "dictionary English" (Dildine).

Netherlands: Radio Nederland, 11.730, large Bluebird of Happiness card, full data for Happy Station show, seamail in 9 weeks (Banta), card in 10 weeks air (Dickey), Cathedral card and general information (Thomson), special Happy Station card with map of Holland, doves, blue and black, 7 weeks surface, no return postage (Berg).

Netherlands Antilles: Radio Nederland, 11.730, new card showing photo of broadcast team recording RN's IS played on carillon of St. Jan's Cathedral, full data incl. site in 15 days, no IRCs (Calkin). 21.640 Bluebird card in 61 days for 2 IRCs (Dildine), 15.345 buildings and transmitter card, 73 days surface for 2 IRCs (Marinoff TWR, sent QSL after two prior rejections for same report (Marinoff)).

New Caledonia: Radio Noumea, standard card for 4.913, English report, 1 IRC, airmail reply in 3 weeks (Padula).

New Zealand: Radio New Zealand, 11.780 card with full details, 3 months sea (Bruce) 15.280, 11.780 and 9.540, letter and tape report brought Globe card with all data, schedules, Tiki and returned tape with Maori music and personal message, 8 weeks airmail for stamps (Burns), 9.540 card in 102 days via sea (King).

Nigeria: NBC Enugu, 7.305 letter QSL with full data, said was former R. Biafra, 32 days air for 2 IRCs (Goltz), 6.035 full data card in 40 days from CE (Sizer). NBC, Calabar, 6.143/44 letter airmail in 6 weeks for IRC from D.A. Bassey, Maintenance Engineer at Calabar (Sparks), card from Lagos with site indicated in 7 weeks airmail (Dexter).

North Korea: R. Pyongyang, 15.150 postcard QSL, picture postcards, propaganda in 5 months via Prague. 6th try. No IRCs (Sizer).

North Vietnam: Voice of Vietnam, 15.018 long blue card with picture of Oriental girls and international postage stamps, no details, no IRCs (Perry), 10.040 plain white verie form, folder schedule and propaganda in 74 days, no IRCs (Lewis).

Norway: Radio Norway, 15.175 Oslo University QSL card and phamplet on Radio Norway plus schedule in 21 days air, complete data, 2 IRCs (Leonhardt), 21.670 card with mountain scene, air in 3 weeks (Padula), 21.730 card, schedules, booklet, all data in 7 weeks, no IRCs (Lewis).

Papua: VLT9, Port Morseby, 9.520 standard ABC card, complete info plus two, color view cards, 3 IRCS (Estand). VLT4, 4.890 ABC map card in 2 months airmail for IRCs (Dildine).

Paraguay: Emisoras Paraguay sent Spanish letter, registered in 11 days for SS report with SASE, also sent pennant. V/s Carlos Marcial Sanchez N., Director-Gerente. Frequency: 6.015 (Sizer).

Peru: Radio del Pacifico, 4.975, long, 2 page letter and QSL card with all details and attractive pennant and brochure from Ray Schiffer, Engineer (only American at the station). Former V/s Norman Mydske now back in States. Airmail, 40 days (Wood).

Philippines: VOA, 9.650, 10 days from Washington. Site listed as Poro/Tinang. (Maybe they don't know! -ED) (Lewis), SEARV, 9.750, card with all details in 3 weeks air for 3 IRCs (Padula) FEBC, 11.920 black and white photo card of boys on water buffalo plus schedule, religious literature from Mrs. Eva Fitzpatrick, 2 IRCs 48 days air (Hyre), 17.810 1 month air, 3 IRCs. Also form letter (Dildine), card and letter in 5 weeks (Martin), card in 40 days (King). Radio Veritas, card and schedule in 5 months, air for IRC. Signed by Jose E. Buendia (Sparks) (15.310).

Poland: Radio Warsaw, 21.765, map card and personal letter in 7½ months (Padula) 9.540, card after follow up, 12 days, also friendly letter, air, full data (Rosen), 6.035, card and letter in 81 days, no IRCs (Schied).

Portugal: Radio Portugal, 6.025 card and pennant, airmail in 49 days (Dickey) DW via Sines, glossy card from Cologne for 7.295, also 15.300, all details, 8 and 10 weeks airmail (Padula)

Portuguese Guinea: Em. da Guine Portuguesa, 5.041, folder signed by Concie Sao who added "I am very sorry to be unable to send you a copy of our program schedule. This is because in union with Emissora Official, the military program P.F.A. with

private studios in Bissau is soon to be transmitted. Therefore, in the meantime, to obtain adequate reference copies, write to O. Comando-Chefe, Programa das Forças Armadas, Bissau, Guine" Portuguese report and 2 IRCs (Dildine).

Reunion: ORTF, St. Denis, QSL letter in French, very friendly, 11 weeks for 2 IRCs (Martin).

Roumania: Radio Bucharest, 15.250, card in 56 days airmail plus schedule, station literature and letter, no IRCs (Hyre), 6.150 card in 73 days air, no IRCs, full verie (Munger), full data, 5 weeks, air, also letter and schedule, no rp (Berg).

Russian SFSR: Radio Moscow, Moscow, 9.680 card from Mrs. S. (Berg)

Kursk, 11.770, card (Berg)

Ivano-Frankovsk, 9.760 (Berg)

Kazan-6.200 card (Berg)

Peace & Progress via Moscow 9.480, 9780 with site indicated, 3 months sea, no IRCs (Dildine).

Rwanda: DW Relay, blue card with Africa map in yellow, site in red, full data, 2 months air, no return postage (Berg), 11.905 full data card in 2 months (Goltz), 15.380 card in 10 weeks for 1 IRC (Howard).

Saudi Arabia: BC Service of Kingdom of Saudi Arabia, crossed swords and tree card with full data from Werner Storg, CE, airmail, 3rd report for 3 IRCs. Address to use is P.O. Box 2476, Riyadh (Berg).

Seychelles: FEBA, 11.920, white card with date, time and frequency, no V/s, 4½ mos. for 3 IRCs (Perry).

Sicily: RAI, Caltanissetta, 6.060 via Rome in 1½ months. RAI card with site notation on front, for aerogramme report (Perry), 2½ months for English report and 1 IRC (Kusalik), 7 weeks airmail, 1 IRC, (Howard), 3½ months, said would send two records after expressing an interest in Italian music (Charnes).

Singapore: BFBS, 5.010, full data card in 8 months for 2 IRCs. Logged while on Kwajalein (d'Adolf).

Solomon Islands: SIBS, VQ07, (7.235? Ed) card with no signer in 4 months, 5 days via surface mail for 3 IRCs. Gave date, time, frequency, power and call sign. (Jamison).

South Africa: Radio RSA, 9.695, card and schedule in 13 days air, no IRCs (Gehan), card in 18 days, 14 and 17 days (Dickey), 19 days air, full data (King) world card in 26 days (Thomson), 9.560 card in 15 days, 11.970, card in 14 days (Dickey) Internal Service, 9.680 card via air in 3 weeks. Also cards for 3.980, 6.080 and 9.560 in two and three weeks (Padula), Springbok Radio, 6.195 card with views of South African life, schedules also sent. 2 weeks via second class airmail for 2 IRCs (Banta), SABC, 4.945 card in 28 days, panorama of S. African industries (Lewis),

ZUO Time Station, Bloemfontein, 5.000 letter verie from R. Lake with full info in 75 days sea, 41 days for station info and postcard showing the observatory for taped report and 5 IRCs, latter from D.J. Smuts (Dildine), verie letter and info on operations in 2½ months for English report and 3 IRCs (Sizer).

South Korea: Voice of Free Korea, 15.430 face mask QSL card and program schedule airmail in 36 days for 2 IRCs (Leonhardt), 25 days, 2 IRCs (Goltz).

South Vietnam: VTVN, Saigon, 7.245 sent white card with picture of globe and hollow blue letters VTVN. Date, time and frequency but no V/s. 1½ months (Perry).

Spain: RNE, tower card with full data in Spanish in 9 weeks for 6.140. Also sent schedules and station information (Lewis), transmitter card in 40 days, also sent schedule, full details, airmail (Roseliep).

Sumatra: RRI, Palembang, nice two page verie letter (Lobdell).

Switzerland: SBC, 9.535 photo card with skating scene in 35 days (Gehan).

Sweden: Radio Sweden, card for 11.970 for 1st day on this frequency, airmail in 6 weeks (Padula), 11.825 unsolicited Northern Lights card in 9 days airmail with a blank card stuck to the filled out card (Dildine), multi-color card and general info from Milt Thori (Thomson), card and schedule in 8 weeks (Dickey).

Tangier: VOA Relay Station card from Anita Milavec in 1 week, full details for reception on 15.270. (our unknown reporter again).

Togo: Radio Togo, 5.047, green, gray and red card with date, time and frequency, 1 month for NASWA FF report. Airmail. 2 IRCs sent (Jamison), card, less frequency seamail in 21 days for English report and 2 IRCs (Dildine), card and schedule in 17 days for 3 IRCs, airmail reply (Lewis), card with full details in 5 weeks for 2 IRCs (Bruce), 2½ weeks airmail for French report and mint stamps (Isen).

Trucial States: Abu Dhabi Broadcasting Service, 4.988, stencilled letter verie with all details typed in from C.I. Kennedy, Chief Engineer, 16 days airmail for 3 IRCs. Said was first report for SW outlet received from Australia. (Padula) (Probably first NASWA'er too Bob, very good, congratulations. Wish we could get them here-ED).

Turkey: Radio Ankara, no card or verie info, sent booklet with full schedule, map of geographical broadcasting zones and flag of Turkey in 58 days seamail (Lewis).

Ukraine SSR: Radio Kiev, 9.660 card with map in 7 weeks air, no IRCs (Plum)
(Was this direct or via Moscow-Ed)

Radio Moscow, 12.070, card marked Kiev for ECNA, no return postage 1 month (Sizer).

Radio Moscow, 7.150, via Lvov, 8 weeks from Mrs. S. Full Data (Berg).

Radio Moscow, 11.850, via Vinnitsa, from Mrs. S. in 5 weeks air, no return postage (Berg).

United Arab Republic: Radio Cairo, 9.475 mimeographed slip, letter and program schedule via surface mail in 72 days (Dickey).

Uruguay: Radio Carve, 6.155 very specific letter and small pennant from Chelita Fontaina Minelli, returned SASE unused, airmail in 23 days (Wood)

Radio El Espectador, card with full data plus pennant with station name, call and microphone. V/s Hector Amengual, Presidente, 10 days airmail for Spanish report and mint stamps (Berg), card, pennant and letter in 5 months for 2 IRCs (Martin).

United States: Voice of America, 9.650, Greenville, card in 18 days, full data (Ricchezza), 9.530 2 weeks from Beth De Gorchi (Roseliep), 9.635 and 6.020

8 days for usual card from Peggy Mathias (Plum), AFRTS via VOA Greenville, 15.330 full data with site, 55 days, returned SASE (Dildine),

WNYW, 15.215 card in 12 days (Thomson), 11.805, 10 days (Schultz), 17.845, 10 days for card (King).

KGEI, 9.670, card with globe and lightning, also pennant in 82 days (Marinoff), card, letter, schedule, and paper pennant, also form for reports 3 months after follow-up (Berg), 11.955, 61 days for card and pennant, schedule, report form and station info for stamps (Schultz), 15.280 card, pennant and fact sheet, 4 months (Howard), 54 days for SASE (Dildine).

WWV, 5.000, Indians card from John L. Stanley, SASE returned. 27 days (Dildine).

U.S.S.R. Radio Moscow. Those letters still coming in. Report on Chinese service brought letter from Mrs. S. stating "Due to some changes in the verification system and the fact that lately the letters department of the North American Service has been getting a great deal of reception reports, we can confirm only reports pertaining to Radio Moscow's transmissions to the East and West Coasts of the United States" (Dildine). 9.800, English report, no IRCs, card via air in 76 days, plus stamps and schedule and letter (Hyre), Mrs. S. advises directing reports to the particular service involved (Dildine), 9.700 card and schedule in 29 days, air, no IRCs (Gehan)

Radio Moscow, 9.755 via Orsha, for ECNA broadcast, 1 month (Sizer)
Item mis-filed, sorry Si-Ed)

Uzbek SSR: Radio Tashkent, 9.600, chimes tower card with full data and 2 color picture postcards, 6 weeks, airmail for mint stamps (Burns).

Vatican City: Vatican Radio, 21.660, card for test transmission, all details, air in 5 weeks, 15.420 card airmail in 2 weeks, 15.290 card in 9 weeks, 11.865 personal letter in English from Brazilian Department via air in 20 weeks, gave only date but specific QSL statement (Padula), 9.615 card and schedule via airmail in 10 days for two IRCs (Gehan).

Venezuela: Radio Angostura, Ciudad Bolivar, 6.120 friendly letter in Spanish, nice pennant and 6 postcards. 9 weeks airmail for Spanish report and mint stamps. V/s Sinar Guerra Madriz, Director (Berg), letter giving time and verification statement, 2 foot long pennant showing Angostura Bridge over Orinoco and boy at microphone, also many postcards. Used SASE with added stamps, airmail in 17 days (Wood).

Windward Islands: WIBS, 11.790, green card in 2 months for 2 IRCs. Took 6 follow-ups over 2½ year period (d'Adolf), 3.280, green card in 71 days seamail for 2 IRCs. Date, time and frequency (Schultz).

Yugoslavia: Radio Belgrade, 9.620, Dubrovnik folder with full verie statement in 41 days airmail, no return postage used (Dildine).

102 countries represented in the colum this month gentlemen. That is a lot of stamps and letters coming and going!

Some of you have commented that your reports were sent but not used etc. I must apologize for any slip-ups which have ocured over the past two months or so. Both of the times I have done the column, personal committments have made it necessary to advance the deadline for reports by some five days and I imagine that caused some of the reports which should have been in July's column to be delayed until August, as it will cause some August reports to be held over until the September issue. Double addresses and the like helped to confuse matters a bit too, as did my inexperience at this sort of thing.

Next month, Gregg should be back wearing the green shade and welcome he will be! I shall forward the Scoreboard reports I have on hand as well as any additional reports received here, on to Gregg in Mexico City in time for the September QSL section so, hopefully, things will be back to normal soon.

As long as a little space is left, a few additional comments. I don't know how Gregg goes about preparing this section each month but I feel I can pass on a few tips which would be of help to him. First, like every editor seems to say, use only 1 side of the paper! Please list the frequency involved and be sure that the country title is the same as that in the NASWA Country List. If you do not type, it helps if you can print. Leave some space between each item and place your last name after each one. I cut up each report and filed it by country and it is very easy to forget to add the name before cutting as I did on one report this month resulting in no credit being given. I'm sure Gregg would appreciate it greatly if you would follow these suggestions.

It has been interesting, educational, enjoyable..and work! Thanks for your continued support. Gregg, over to you.

73,

Gerry

NOTE: DUE TO MIX UP IN SIGNALS FROM GREGG
TO GERRY, THERE IS NO "QSL OF THE MONTH" FOR
AUGUST. GREGG ADVISES THIS FEATURE WILL AGAIN
RESUME WITH THE SEPTEMBER BULLETIN.
REMEMBER, ALL QSL INFO_DATA_ETC., NOW GOES TO
GREGG DIRECT. SEE ADDRESS AT BEGGINING OF SECTION.

NO QSL OF THE MONTH FOR AUGUST????!!!



NO QSL OF THE MONTH FOR AUGUST????!!!

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 Note: Reports rcvd after deadline, not used, will be forwarded to Gregg for use in next months section. This includes reports that were sent to Dexter or to Hdqs.

Thanks to the following reporters who checked in with us this month: Good show!

John Banta, New York	Larry Magne, Pennsylvania
Jerry Berg, Massachusetts	Michael P. Marinoff, Pennsylvania
F.J. Brindley, New Jersey	A.E. Martin, England
Robert F. Bruce, Scotland	Henry J. Michalenka, Rhode Island
John M. Burns, Florida	Doug Munger, New Mexico
Gregg Calkin, Mexico	Robert Padula, Australia
Rick Charnes, Massachusetts	Ralph W. Perry, Illinois
Stephen P. d'Adolf, Massachusetts	William J. Plum, New Jersey
Gerry L. Dexter, Wisconsin	Edward J. Pyatt, South Carolina
Donald D. Dickey, Minnesota	Ed Ricchezza, Pennsylvania
R. Stephen Dildine Jr., Virginia	Thomas J. Roseliep, Iowa
Robert Estand, Texas	Evan Rosen, New York
Walter C. Gehan, Texas	Donald Schied, Pennsylvania
Gary S. Goltz, Pennsylvania	Kenneth Schnur, New York
Ron Howard, Maryland	William Schultz, Pennsylvania
Ronald S. Hyre, Illinois	Al Sizer, Connecticut
Forrester W. Isen, Maryland	William Sparks, California
Danny Jamison, Virginia	Jerry M. Stewart, Oklahoma
Gregg Kelley, Virginia	Pete Thompson, Iowa
Dennis King, Colorado	D.J. Weber, Ohio
Edward Kusalik, Ontario	Jim Weber, California
M.R. Leonhardt, Indiana	Dr. Richard E. Wood, Louisiana
Ben Lewis, Massachusetts	and
Mitchell Lewis, North Carolina	Chris Lobdell, Massachusetts



NEWSROOM

ANTHONY MARKS-EDITOR
H. RICHALENKA-ASST. ED.
P.O. BOX 521
LAGHANDE, OREGON 97850
Deadline 15th of Month

FAPUA-NEW GUINEA ADMINISTRATION

The following are from a QSL folder received recently from VL8EM, Konedobu; (11880):

Radio Rabaul, 3385 & 5985, 10 kW,
20:00-22:00, 02:00-04:00, 06:00-13:00;
(PO Box 710, Rabaul)

Radio Wewak, 3335 & 6140, 10 kW,
20:00-22:00, 06:00-13:00; (PO Box 65)

Radio Western District, 3305, 10 kW,
20:00-22:00, 07:00-12:00; (PO Box 23,
Daru)

Radio Kerema, 3245, 2 kW, 20:00-
21:30, 06:45-12:00; (PO Box 36, Kerema)

Radio Milne Bay, 3235, 2 kW,
07:15-12:00; (PO Box 20, Alotau)

Radio Bougainville, 3322.5, 2 kW,
20:00-22:00, 06:00-13:00; (PO Box 35,
Kieta)

Radio Goroka, 2410, 2 kW, 19:45-
21:30, 07:30-12:00; (PO Box 146, Goroka)

Radio Mount Hagen, 2450, 2 kW,
20:00-22:00, 07:30-12:00; (PO Box 311)

Radio Madang, 3260, 2 kW, 07:00-
11:00; (PO Box 2036, Madang)

Radio Morobe, 3220, 2 kW, 07:00-
12:00; (PO Box 1262, Lae)

Radio Central (Australian Adminis-
tration Broadcasting Service); 11880,
10 kW, 01:00-02:00, 04:30-05:30,
(Radio Central Port Moresby, Department
of Information and Extension Services,
Konedobu)

Note: Radios Madang and Morobe are
both new; power increases for Kerema,
Mount Hagen, Goroka, and Milne Bay;
locations of proposed stations are Kimbe,
Lorengau, Vanimo, Kundiawa, Kavieng, Pop-
ondetta, Mendi, and Port Moresby. (BB)

U.S.A., WINB, Red Lion, PA

EE sked: Mn-Fr, 17:00-20:00, 17720.
20:00-22:00, 11795. St-Sn, 17:00-19:45,
17720. 20:00-22:00, 11795. (WINB, JK)

AUSTRALIA, Melbourne

EE to NA: 12:15-13:15, 9580/11710.
02:00-04:00, 15320/17820/21740. (JK)

SWITZERLAND, Berne
(Cf. NR-2 JULY) During the entire
first week of July, 15305 was still
coming in loud and strong in the state
of WA. Have not found 15235. (RO)

EE sked (as printed NR-1 JUNE)
01:30, 6120/9535/11715/15305. 04:00-
04:30, 9535/11715. (JK)

Perhaps they had not changed yet- ed.

SWEDEN, Stockholm

In order to avoid heavy QRM on
11825 to ECNA, 15295 is now being used.
This is for QTR 00:00-02:30, including
SS 00:00 & 01:30, EE 00:30 & 02:00, and
Swedish 01:00. // Tx to SA remain
unchanged on 11705. (Radio Sweden via DJ)

WEST INDIES; HAITI, Cap Haitien

4VE 6120; 4VEH 9770; 4VEJ 11835;
and 4VWI new QRG 19M w/.35 kW not yet
announced, are for the EE/SS programs.
4VSO 2450 w/.25 kW; 4VE 6120 w/1.0
kW are for French-Creole programs. (MM, SD)

The studios for 4VEH are actually
located at Vaudreuil, w/Tx at Petite
Anse. They advise that listeners will
receive quicker replies when they include
return postage of mint stamps which can
be purchased from DX Stamp Service, 466
Weaver Rd., Webster, NY 14580. (Good idea-ed.)
From letter signed Mrs. Kent Ragsdale,
QSL Secretary, 4VEH. (SD)

COSTA RICA, San José

Faro del Caribe, Lighthouse of the
Caribbean, TIFC was established in
1948 as the second missionary radio station
of the world. It broadcasts on 6037/
9645, 12:00-19:00, 22:00-04:00, EE being
03:00-04:00, the rest SS. The address
is Federico Picado, Manager, TIFC, Box 2710,
San José, Costa Rica. (Sorry but I lost
track of who sent this to me - ed.)

CANADA, Montreal

RCI EE sked: 12:17-13:13 9625/11720/
15325. 23:00-23:30, 9625/15190/17855. (JK)

NEWSROOM SALUTE

We think we had better take this opportunity while we still have plenty of space left, to wish the retiring Log Report Editor, Mr. Dan Ferguson, all the best in his future. Dan has done a fantastic job for NASWA, and he will be missed. We also must wish the best to the new editor, Mr. Jerry Berg, who will need the support of all of you in order to make the column the outstanding one it has been. (ACM, HM)

CZECHOSLOVAKIA, Prague

(Cf. NR-4 MARCH; there were some incorrect times that time): EE sked as listed: To Great Britain/Ireland; 15:00-15:25, 6055/9515. 16:30-16:57, 5930/7345. 19:00-19:27, same. To USA/Canada; 01:00-01:55, 03:00-03:55, 5930/7345/9540/9630/11990/15365. 14:00-14:55 (Sn only), 15445/17840/21735. To Europe/NZ/Australia; 07:00-07:55, 6055/9595/11800/15310/21690/21700. To East Africa/Asia; 15:30-16:25, 6055/11990/15240/17840/21735. To West and Southern Africa; 17:30-18:25, 5930/7345/9605/11990/15240/17840. (RW, SD, JK, MM, SH, CC/HM, and R. Prague direct)

DX CALENDAR FOR SEPTEMBER

- 15 Guatemala Independence - 1821
- Nicaragua Independence - 1821
- 16 Malaysia formed from Sabah/Sarawak/Malaya/Singapore - 1963
- 22 Mali Independence - 1960
- 30 Botswana Independence - 1966 (HM)

CEYLON, Colombo

National Service in EE: to S/SE Asia; 11:00-12:00, 17830. Commercial Service in EE: to all Asia; 01:00-03:30 (Sn to 04:30), 9720/15120. 12:30-17:30, 7190/15120. In Hindi: to all Asia; 01:00-04:30 (Sn to 07:30), 7190/11800/15230. 14:30-17:30, 9720/11800. In Tamil: to all Asia; 11:00-12:30, 9720/11800. (SD)

UKRAINIAN SSR, Kiev

EE to Europe; 19:30-20:00, 7.32/9.48/9.61/11.70. From 03 SEPT; 7.32/9.61. To NA ; 00:30-01:00, 9.48/9.60/9.65/9.66/11.73/15.21. From 03 SEPT; 7.20/9.48/9.65/11.73. 04:30-05:00, 7.15/9.48/9.60/9.66/11.73/11.85. From 03 SEPT; 7.15/7.20/9.48/9.61/9.66. (To NA, Ts, Fr, & Sn)

(To Europe, Mn, Tr, & St) Note: The QRG are given in MC instead of KC since Radio Kiev gives them this way, and they are most likely rounded off like those given by Radio Moscow. (SD, and R. Kiev)

CUBA, Havana

RHC has this EE sked to 05 SEPT: 20:50-21:50, 15285/17715. 01:00-04:50, 9550. 01:00-06:00, 11840. 03:30-06:00, 11760. 06:30-08:00, 9525. SS sked: 11:00-16:45, 11930/11760/15285/17885/17735/17715. 16:45-18:30, 11760/15285/17715. 18:30-20:50, 15285/17715. 22:00-23:00, 6060/11735/11760/11970/15270. 23:00-24:00, 6060/11735/11760/11970/15270/15230. 00:00-00:50, add 15300. 00:50-02:00, subtract 11970. 02:00-03:00, subtract 6060. 03:00-06:00, 6060/11735/15230/15270/15300. (JS, SH, SD, LM, and RHC)

NIGERIA, Lagos

EE sked: 05:30-07:30, 15185. 06:00-07:30, 7275. 15:30-17:00, 7275/11770/15200. 18:00-19:30, 7275/11770/15120. FF sked: 13:30-14:30, 7275/11770/15200. 19:30-20:30, 7275/11770/15120. Hausa sked: 14:30-15:30, 7275/15200, and Arabic, 17:00-18:00, 7275/11770/15200. This was just received from O.I. Odunsi, Senior Engineer, NBC, but I am not certain how current it is. (AM)

SPAIN, Madrid

EE from RNE: 02:00-02:45, 03:00-03:45, 04:00-04:45; 6140/11925. Tx w/100 kw. (RNE via EI)

This month sees 15 contributors representing 14 states; count 'em.

- BB = Bob Brode, CA
- JK = Joey Kennedy, LA
- RO = R. B. Odlin, WA
- DJ = Danny Jamison, VA
- ME = Mildred Marshall, ND
- SD = Steven P. d'Adolf, MA
- HM = Henry Michalotka, RI
- CC = Curno Chadwick, IO
- AS = Alvin Sizer, CT
- RW = Richard E. Wood, LA
- SH = Steven J. Handler, IL
- LM = Larry Magne, PA
- JS = J. M. Smallshaw, WI
- WC = William R. Coleman, Jr., NC
- EI = Edward J. Insinger, NJ

Thank you, people, very much!!!!!!



LOG REPORT

JERRY BERG - EDITOR
12 WESTGATE DRIVE, APT.101
WOBURN, MASS. 01801

Deadline 12th of the Month

Thanks for the many congrats and good wishes received this month from NASWA members. Dan is indeed a difficult act to follow, but I'll do my best to maintain the high quality expected in Log Report. More chatter later . . .

- 2326 S.AFR. SABC, EE pops and anmts 2050, //3285 (BP).
 2346 S.AFR. SABC, Afrikaans, classical vocals 2030, //3320 (BP).
 2376 S.AFR. SABC, pops, vocals, comls 2050, //3250 (BP).
 2410 NEW GUINEA R.Goroka, Pidgin anmts 1110, ID 1116, then C&W mx. ID 1159, 1200* w/GSTQ (DW).
 2450 NEW GUINEA R.Mt.Hagen, Pidgin 1028, ID 1039 then hymns. Lost to QRN 1100 (DW).
 3210 MOZAMBIQUE LM "A" prgm at 2050, gongs and ID 2200, 2215* w/AP. NF ex-3218, and //4855 (BP).
 3215 DOM.REP. R.Libertad, EE ID 0411, then xmtr cut off (DF).
 3250 S.AFR. SABC good w/lite mx at 0407 check, also 0515 w/EE anmt and pop mx (DF).
 3259 JAPAN NHK HS, poor w/tlks and some Jap mx, 1240 (DW).
 3260 NEW GUINEA New stn at Madang, first hrd 6/25 from 0800 to 1100* w/GSTQ. Pidgin ID at close, ancng this fgy. Maybe 5 kw or more (BP).
 3265 GUYANA R.Demarara poor at 0245 w/lite EE mx, ads, TC. Still on 0405, past listed 0345 s/off (KS).
 3277 INDONESIA Djakarta, good Sat 2120 w/puppet plays. These are carried on different outlets (BP).
 3290 GUYANA "Action Radio" in Georgetown, ID hrd 0321. Generally poor, high QRN (GLD). Guyana B/C Svc hrd w/Indian mx at *0912, religious prgm, ID 0945 and nx. No "Action Radio" ID hrd at this time (REW). QSL rcv'd says this is an independent local stn, not same as R.Demarara which is a London-based company. 10 kw (Ed).
 3294 INDONESIA RRI-Samarinda, pop mx 1220, ID 1231, talk (DW).
 3315 VENEZ R.Maracay, LA mx 0540, ID 0545, on a Sun (DF).
 3322 BOUGAINVILLE Good in Pidgin at 0937 (SK).
 3325 GHANA R.Ghana, f/in 2205, clas.mx, EE anmts, nx 2245, //3295. Different prgms on 3350/3366, hrd at 2300* w/anthem (BP).
 3335 NEW GUINEA R.Wewak, fair in lang at 0919 (SK).
 3345 ANGOLA R.Cl.do Huambo, f/in 2215, PP anmts and ballads, //5060. Faded at 2245 (BP).
 3350 GHANA Ejura, hymns at 0542. Fair, on Sun (DF).
 3355 N.JALEDONIA Noumea back here, ex-7170, strong in FF at 0800, //4913/11710/9510 (BP).
 3366 GHANA Accra, hymns at 0542 on Sun, but seemingly not //3350 (DF).
 3375 ANGOLA Em.Oficial, PP anmts, modern mx 2225. Malawi QRM till latter s/off at 2300 (BP).
 3385 UNID. Believed Peru, Andean mx 0610, anmts after selections. Quick s/off 0640 after anthem. Weak, no ID noted (DW).
 3385 NEW BRITAIN R.Rabaul, poor in Pidgin at 0908 (SK).
 3390 ECUADOR R.Zaracay, fair w/Ecuadorian mx arnd 0545. (DF). SS ID 1029: "Presente R.Zaracay, La Voz del Santo Domingo de los Colorados" (DP).

- 3952 S.AFR. SABC, good 0505 in Afrikaans (GLD).
3965 S.AFR. SABC, exercises 0445 (GLD). N:E at 2100 (RFB).
3980 S.AFR. RSA, EE to 0344, then FF ID and FF nx (SPD). N:E 0435, excellent but ARO QRM. Gone by 0500 (GLD).
3986 NIGERIA NBC-Lagos, drum IS 0530, EE anmt 0535 (GLD).
3997 S.AFR. Springbok R., Afrikaans anmts 2315, 2345 f/out (BP).
4485 RSFSR(As) Petropavlovsk-Kamchatsky, exc in RR HS 1045 (DP).
4679 ECUADOR R.Nac.Espejo, good at 0550 w/Ecuadorian mx (DF).
4734 ECUADOR R.Nac.Progreso, Ecuadorian mx at 0553 tune (DF).
4760 VENEZ R.Frontera, 0345 mx, SS IDs and fqys 0354, anthem 0355 and off at 0357 (DF).
4765 CONGO RTC-Brazzaville, fair 0550, FF talk by man (DF).
4770 LIBERIA ELWA, lang tlk 0650 on Sun, then local mx (DF).
4777 GABON Libreville, local mx 0455, nx in FF 0500 (JDT). Drums and ID in FF at 2007 (RFB).
4780 DOM.REP. Onda Musical is travelling. Hrd on 4790, ex-4795, in SS at 0411 w/LA mx (DF). Hrd here 0340 on 6/24, down to 4777 on 6/27 (GLD). Ads at 0200 (REW). Also on 4782 at 0100 w/ID, mx, and excellent at 1130 (DF).
4780 VENEZ LV de Carabobo, short SS nx 0910 (REW). ID at 0400*, w/choral anthem (DF).
4791 ECUADOR R.Atalaya, exc 0420 w/sports, //other HCs on 4765 and 4679 (DF).
4794 ECUADOR LV de los Caras, SS nx 0050, ID 0057. Also at 0400* (DF). Mx, ID 0345 (GLD). 4795, LA mx 0410, no ID till 0522*(JDT).
4807 ECUADOR R.Popular, tlk by man, Andean mx 0450 (ECS). Requests 0450 (REW). Fair w/Ecuadorian mx at 0425 (DF).
4807 SAO TOME Em.Regional, PP ID 2250, 2300* w/AP (ECS).
4814 PERU R.Amazonas, ID at 0330 (REW).
4820 GAMBIA Bathurst, chants 0656, N:E 0700 (JDT).
4824 ECUADOR R.Luz y Vida(presumed), 0555 Ec.mx, marimba (DF).
4845 BOTSWANA Gaberones, poor w/pops and Afr mx at 0404. N:E 0432, then Afr nx, mx, and BBC nx at 0500 (Ed).
4855 MOZAMBIQUE LM, instr mx to 0500, gongs, ID. Weak (GLD).
4865 BRAZIL R.Cl.do Para, PP ID, anmts, mx at 0210 (DF). Mx 0850, ID 0855 (DJ).
4872 INDONESIA(W.Irian) RRI-Sorong, pop mx 1115-1127 (SK).
4875 BOLIVIA La Cruz del Sur, exc in SS to 0500 (WJS).
4880 CONGO Kinshasa, vy weak w/man in FF at 0558 tune (DF).
4890 PAPUA ABC-Pt.Moresby, prgm summary 0743, TC and nx 0745 (DF). In EE at 1330 (WJS).
4890 SENEGAL Dakar, tlk at 0640 (JDT). On Sun at *0654 w/drums, anthem, FF ID (DF).
4890 VENEZ Rdif.Venezuela, LA mx 0230 (JMS). Lite mx 0340, anthem to 0355* (JDT). Also strong at *0957 w/anthem, SS anmt (DRA).
4895 PERU R.Chanchamayo, SS tlks 0508, mx 0516 (DJ).
4900 INDONESIA RRI-Gorontalo, ID 1318, then vocal mx. Anmts 1324, 1330 tune out. Sarawak splash from 4895 (DW).
4904 CHAD Ft.Lamy, FF tlk 2240, nat'l mx to 2245 fade (ECS).
4913 N.CALEDONIA Noumea, strong in FF 0746 (SK). 4915, also in FF at 0630 (WJS).
4915 CONGO RTVC-Brazzaville, N:E 2110 after Kenya s/off (RFB). Did you mean Ghana? (Ed)
4915 GHANA Accra, exc at 0558 w/hymns, drums, N:E 0600 (DF).
4915 KENYA Nairobi, mx at 1850 till 2110* (RFB). On late 6/26, hrd 2245 in Swahili, many speeches. Faded by 2355 (BP).
4920 VENEZ R.Caracas hrd 0600, but failed to ID then (DF).
4945 COLUMBIA R.Colosal, mx 0445 (RFB). Lite mx and many IDs at 0630 (RB).

- 4955 COLUMBIA R.Nacional, clas.mx 0030 (EP). SS ID 0405 (AA), lite mx, ID, nx 0430 (RB). Also hrd to 0403* (JMB).
- 4972.5 CAMEROUN Yaounde, FF and nat'l mx at 2335; hi QRN (ECS).
- 4980 GHANA Ejura, good at 0600 w/N:E (DF).
- 4988 TRUCIAL STATES Abu Dhabi, AA play 1915, nx 1930. Koran 1942, 1950* w/anthem (BP).
- 4990 VENEZ R.Barquisimeto hrd in SS 0015-0338 (JMB).
- 4995 BRAZIL R.Brasil Central, 2200 f/in, futebol 0015 (DP). LA mx and anmts 2300 (RFB). 4994.5, PP songs 0042, no ID hrd (DF).
- 4996 PERU R.Andina(presumed), vy weak w/bits of mx at 0045. Also noted 0615 at good level w/Andean mx (DF).
- 5000 HAWAII WWWH from new Barking Sands location, hrd 7/1 at 0400 with new format (REW).
- 5010 DOM.REP. R.Cristal, back here now from 5071, hrd w/IDs, ads at 1020 (REW), also ID at 2310 (DP) and at 0130 (DF).
- 5015 WINDWARD IS. WIBS, mx and EE anmts at 2345 (AA).
- 5015 RSFSR(As) Vladivostok, strong in RR till 1300 (WJS).
- 5017 COLUMBIA Trans.Caldas, IDs and nx 0300, ID 0328 (DF), and at 0530, off nominal 5020 (GLD). 5016.5, football 0330, now on 24-hours (DF).
- 5038.5 C.AFR.REP. Bangui, strong w/mx from 2228, anmt 2246, then Eur mx. ID 2300, anthem, chorus and off 2302 (DF). Also on 5037m, FF cmtry, native mx 2145, 2303* (SPD), and on 5035 w/mx prgm and ID in FF at 2007 (RFB).
- 5042 PORT.GUINEA Bissau, strong w/PP songs at 0735 (DF).
- 5045t COOK IS. Rarotonga, excellent signal on 6/5, religious svc in native lang at 0535. No definite ID hrd (DRA). See July LR (Ed).
- 5047 TOGO Lome, N:E 1950v-2000 (RFB). FF nx 2257, into hymns (ER).
- 5050 VENEZ R.Mundial, LA mx, anmts 0345, ID 0355, 0400* (DW).
- 5804 YEMEN Sanah, vy poor at 0300 w/AA chanting (DF).
- 5930 CZECH Prague, excellent at 0110 w/N:E (DF).
- 5949.5 NICARAGUA R.Zelaya, anthem at *1200 (REW).
- 5950 PERU R.Arequipa, *1045, ID and fqys at 1049 (REW).
- 5955 COSTA RICA R.Casino hrd at 0525 w/pops (DF).
- 5961 BOLIVIA Emisora Pio XII hrd after 0915 w/LA mx, anmts, ads, YL anc (AS).
- 5970 PERU R.El Sol, Peruvian mx at 1050, but rapid fade (DF).
- 5978 PARAGUAY R.Guaira (incorrectly listed in WRTH fgy section), in Guarani 1015, into SS w/ID at 1027. Hrd to 1035 f/out (REW).
- 5980 EL SALVADOR YSS, hrd at 0455* (RA).
- 5985 TANZANIA Dar es Salaam(presumed), *0300 under unid. stn (DF).
- 5985 UNID. 0210 on 6/13, weak in lang, mostly tlk and guitar mx. Re-check at 0245 showed tlk, then EE ID to NA and many fqys. Maybe mentioned Bulgaria once. Perhaps Moscow EE to NA (DF).
- 5989 VENEZ R.San Cristobal, ads at 1020. Listed for 5960 (REW).
- 5995 AUSTRALIA RA-Lyndhurst, pops 1050, past 1145, in EE (DF, GT).
- 5995 MALI Bamako strong w/Afr songs, drums at 0745 (DF).
- 5995t PERU Maybe REW's R.Loyola, Sucre, flute mx 0150, SS anmts (DF).
- 6000 BRAZIL R.Inconfidencia, PP prgm at 0130 (RA).
- 6000 ISRAEL Jerusalem hrd here, also 7225, on test xmsn to Eur at 2100 in EE, //9625 (ER). Also //9009, but believed now replaced by 6180 (Ed).
- 6005 BOLIVIA R.Progreso, strong w/Aymara TC 0948, then nothing beyond 1100! (REW)
- 6005 CANADA CFCX, mx and ads at 1842 (JBa).
- 6006 COSTA RICA R.Reloj, SS ID 1115, then pop mx (DJ).
- 6010 ITALY RAI, EE nx and cmtry, 0105 (AA).
- 6015 BRAZIL R.Pernambuco, man in PP, 2334 (DP).
- 6020 MEXICO Eco de Sotavento, strong w/SS sports at 0520 (DF). Also

- hrd w/SS mx at 1145, past 1205 (DF).
- 6020 PERU R.Victoria, nx 1100 (REW). SS ID 1100, Moscow beneath (DF).
- 6030 COLUMBIA R.Nacional, 0420 w/clas.mx, BBC nx in SS (JDT).
- 6030 W.GERMANY Sddeutscher Rundfunk, GG tlk, mx at 0508 tune (DF).
- 6037 COSTA RICA TIFC, *1130 w/anthem (REW), hymns at 1140 tune (DF).
- 6040 COLUMBIA LV del Tolima, excellent w/SS nx at 1140 (DF).
- 6043t URUGUAY Stn at 0908 w/cmtry, much mention of Uruguay and Montevideo. No ID hrd. WRTH says R.Sport inactive, FBIS says R.El Espectador (DJ).
- 6045 PANAMA LV del Baru, poor 1140 w/SS mx, hvy HCJB QRM from 6050 (DF).
- 6045 PERU R.Santa Rosa, nx 0300, sermon, 0312*, no anthem (REW).
- 6060 CUBA Havana, EE ID 2045, aneng only 17815 to Eur. Also at 0100 in EE to NA (DF).
- 6060.5 HONDURAS R.America, ID 1300, still moving around here (REW).
- 6065t ETHIOPIA ETLF in Amharic believed hrd 0420 under VOA-Gvl (DF).
- 6070 BULGARIA Sofia, Esperanto nx 2355 on Sun only (BP).
- 6070 VENEZ R.San Sebastian, anthem at *1015 (REW).
- 6090 AUSTRALIA ABC-Sydney, sports and records, 0807-0855. NZ QRM from 6080 (MH).
- 6090 LUXEMBOURG RL, pop and rock mx 0025, short N:E 0100 (KS, ER, RA). Hrd to 0205* (JMB).
- 6092 CAMBODIA Phnom-Penh, Cambodian talk and nat'l mx at 1035, some nights very strong (BP).
- 6095 COLUMBIA LV del Centro, weak w/mx and SS at 1145 (DF).
- 6100 ECUADOR LV del Volante, strong daily w/LA mx, frequent anmts, ID 2349 (DP).
- 6105 COLUMBIA R.Vision, 1049 w/SS vocals and ID (SPD), ID 1123, then tlks and songs (DJ). 6106.5, ID 1105: "R.Vision, otra emisora Caracol en Medellin. Caracol cubre a Columbia" (REW).
- 6115 COLUMBIA LV del Llano, LA mx, IDs, 0408 (JDT).
- 6120 ARGENTINA R.El Mundo, hrd at 0500* (REW).
- 6120 HAITI 4VE, EE ID and nx 0000. Venez. QRM down 1 kHz (DF).
- 6120 NICARAGUA R.Atlantica, ads and prices, 1245 (REW).
- 6125 HONDURAS R.Suyapa, excellent 0225 w/mx, comls (GLD).
- 6130 CANADA CHNX w/wx, nx, pop mx at 0700 (ECS).
- 6130 SPAIN RNE in SS 2300-2315, erratic, sometimes uses 6140 (BP).
- 6134 TAHITI Papeete, good in FF w/oriental and island mx, 0700 (ECS). 6134.5, request mx in Tahit., //11824/15170 (REW).
- 6135 CHILE R.Univ.de Concepcion, *1128, violin solo, many IDs, to 1145 f/out (REW).
- 6140 COLUMBIA R.El Sol, time checks at 1100 (REW).
- 6140 SPAIN RNE, to NA 0100-0345. Alternates w/6130? (DF) See 6130.
- 6144 NIGERIA Calabar, N:E 0600, ID 0610, local mx (DF). 6143t, believed this one w/soul mx 0620, no ID hrd (ECS).
- 6160 CANADA CKZN, St.Johns, f/in 2305, vocals, CBC ID 2330. Hrd to 2350 f/out (BP). Congrats Bob--mighty good DX from Aus (Ed).
- 6165 MEXICO XEWW, closing anmt 0640 (usually 0600), advising to retune to MW (REW).
- 6175 ANGOLA R.Angola, PP talks 2245, bad sig w/QRM and AROs (ECS).
- 6175 BRAZIL R.Guarani, PP tlks and mx 0858, seemingly coml (DJ).
- 6175 MALAYSIA RM-Kajang, Indon. tlk by man 1050, IS 1100, Mandarin at 1105 (DF).
- 6180 ARGENTINA R.Nacional, Mendoza, nx 1030, ID 1045, mx, many IDs at 1100. Not //Buenos Aires, 6060 (REW).
- 6185 ETHIOPIA R.Ethiopia, way under BBC WS at 0415 w/local mx. 7290 also listed, but too many AROs around (DF).
- 6205 INT'L WATERS RNI, pop mx 2330 (ER), and 0114 (DF). 6204.5, hrd at *0459 in EE w/"Man of Action" theme (DRA).

- 6250 EQ.GUINEA Santa Isabel, mx at 1900, 2300* (RFB).
 6250 PERU R.Cuzco, SS, LA mx, some comls, ID, at 0300 (HM).
 6255 AUSTRIA OYE21, pops and GG anmts 1845, to 1900* (RFB).
 6265 GALAPAGOS LV de Galapagos, lite and nat'l mx at 0350, 0430*
 on Sun w/anthem, other nites 0400* (REW).
 7140 INDONESIA RRI-Ambon, 0932 w/nat'l and pop mx, anmts, maybe an
 ID at 1000 (DJ). Also at 1403 w/talk and heavy ARO QRM (DP).
 7160 SARAWAK Kuching, CC at 0945, anmts and songs (BP).
 7195 LIBERIA VOA, EE Breakfast Show at 0550-0600* (RBO).
 7210 INDONESIA(W.Irian) RRI-Biak, from 0830, local ID 0843, then nx.
 Hit by RR HS prgm from FE xmtr at 0915 (BP).
 7215 ANGOLA R.Ecclesia, in PP at 0527 tune, w/mx, M&W ancrrs, gongs,
 etc. Some ARO QRM, and wiped out by Abidjan at 0600 (GLD).
 7215 BRUNEI Tutong, CC songs and anmts, 0855-0930 (BP).
 7225 RWANDA DW, EE record prgm 0438 (JDT).
 7235t SOLOMON IS. Believed SIBS, possibly BBC nx to 0915, then mx
 and EE talks (DJ).
 7270 INDONESIA Djakarta, N:E 2330. Not scheduled here (BP).
 7270 S.AFR. RSA, nx and comments in EE to ME, 0430-0443 (MM). N:E,
 cmtry 0438 (DRA). IS, into Afrikaans at 0515 (MSK).
 7300a ALBANIA Tirana, EE to NA, *0230-0300* (JMS).
 7416 N.VIETNAM Hanoi, tlks in Viet by YL, mx. WRTH says HS (DJ).
 7470 UNID. Asian in Indochinese lang 1106, talks by M&W. Not //10010
 at this time (DJ). R.Liberation, S.Vietnamese clandestine hrd
 w/N:E at 1030 on this fqy, but aneng //10010 (Ed).
 7522 UNID. Asian, talks in lang at 1040. FBIS lists China Press
 Agency (DJ).
 7547 N.VIETNAM Hanoi, Viet talk and mx from 1053 t/in (DJ).
 8195 CHINA Fukien listed, HS in Mandarin at 1145 (MSK).
 8630 LIBYA Tentatively Libya in AA 2245, choral mx to 2300* (ECS).
 Rpt in July LR confirmed by LBS as Tripoli, 10 kw. Hrd w/AA nx,
 2100, to 2300* (AS).
 9360 SPAIN RNE, nx and cmtry in SS at 0314 (VA).
 9410 ENGLAND BBC, exc w/EE to Asia, *0145-0330* (JMS). N:E 0311 (VA).
 9475 UAR Cairo, 0320 in EE, with chants (AA).
 9490t TIBET Maybe Lhasa, w/CC play at 1220 to 1300 f/out. No ID, and
 listed //4035 not hrd, but 9490 not // to any other Peking HS
 fqs hrd (SK).
 9495 PERU R.Continente, fair at 0130 w/ads and anmts (RA).
 9500 RSFSR(As) Magadan, excellent at 0900, but Tokyo QRM (WJS).
 9500a UNID. stn in ME lang at 0340, interfering w/TGNB (MSK). Probably
 Omdurman (Ed).
 9505 GUATEMALA TGNB, EE ID, nx at *0300 (MSK), and going off in EE
 at 0400 (RB). Also hrd in EE w/religious mx at 0400 (AA), and
 w/piano mx at 2030 (DF).
 9505 JAPAN NHK, at 1300 every morning w/EE Genl Svc (AAM).
 9510 ALGERIA Algiers, AA mx, ID 2100, into a play (HM).
 9510 VENEZ R.Barquisimeto, ID 1205, modern SS mx (MSK), and w/easy
 ID in SS at 1400 (GT).
 9515 URUGUAY R.Sarandi, nat'l mx in SS 0004-0035 t/out, and frequent
 IDs (JDT). Also w/talk or nx by man at 0025 tune. ID for "R.
 Centro" and "Radiotelevision." Past 0034 w/hvy QRM and het (DF).
 9520 DENMARK R.Denmark, *0000 w/EE anmt, into Danish, tlks (ER, DF).
 9520 PAFUA ABC-Pt.Moresby, fair w/sports in EE at 0620 (DF).
 9520 PERU R.La Cronica, "Ciencia y Cultura" at 0200 (RA).
 9525 S.AFR. RSA in FF, 2130 (GT).
 9533m PERU R.Nac.Tacna, exc w/IDs at 0102. Also 9535, tentatively
 this one at 0115 w/SS talk by a man (DF).
 9540 W.GERMANY DW, EE 0550* (MSK).

- 9540 N.ZEALAND RNZ, fair at 0600 (WRC).
 9545 GHANA Tema, EE 2120, mx, mailbag (AA). EE 2130, Afr mx (AA,DF).
 9545 W.GERMANY DW, SS to LA at 0030 (GT).
 9550 CUBA Havana at 0400 in EE, bad QRM (ACM).
 9562 PERU R.Nacional, SS songs at 0750. All nite? (DF) Also w/LA mx at 1003, barely audible by 1042 (SPD).
 9570 AUSTRALIA RA, N:E and mx around 1300 every morning (ACM).
 9570 CHILE R.Portales, 2355, but QRM (RA). 9571, poor w/ID 0154(DF).
 9575 ITALY RAI at *2124, unknown lang (GT).
 9580 PHILIPPINES Voice of the Philippines, good w/ID at *0900, nx till 0915. Has background mx 10 minutes before s/on (SK).
 9580 PHILIPPINES VOA-Tinang, EE Breakfast Show at 2345 (DP).
 9590 CHILE R.Pres.Balmaceda, SS tlks 2250, past 2300. Seeming ID at 0154 while Holland off (DF). Like a local, 2330 (RA). Good 0445 after Holland s/off. SS mx, nx 0450, closing anmt and off (RB). If they were closed by gov't, as reported, they're back (REW,Ed).
 9600 UZBEK R.Tashkent, weak in EE at 1202 (JMB).
 9605 PHILIPPINES VOA-Tinang, lang 1200 (Lao listed) (DF).
 9610 AUSTRALIA ABC-Perth, 1040-1116 (JMB), N:E 1107 (SPD). Also N:E and mx, 1300, weak but clear (ACM).
 9615 VATICAN Vatican R., 0050-0105 w/religious nx (WRC).
 9620 PORTUGAL RTE-Sines, CBC in RR 0315 after RTE IS, 0330*. Weaker on //11795 (BP).
 9620 S.VIETNAM VTVN, fair 0820 in Vietnamese and FF talks, piano mx (ECS).
 9630 CZECH Prague, 0120 EE, folk mx, //9540, both excellent (DF).
 9645[±] BRAZIL R.Cult.de Pocos, SS at 2120 (GT).
 9645 COSTA RICA TIFC, *0300 w/march, EE anmt and nx, then rel prgm (KS). EE tlk 0310 (ER), and anmt and s/off at 0400 (VA).
 9650 GUINEA Conekry, Afr mx, tlks, nx, all FF, at 0600 (MSK).
 9650 KUWAIT R.Kuwait, theme, AA ID 0300, nx. Blocked at 0330 by RBI s/on to NA (BP).
 9655 PERU R.Nor Peruana, SS mx at 1358 (GT). 9654.5, IDs and "Mejoral" ads 1200 (REW).
 9660 ALGERIA Algiers, test xmsn hrd 2100 w/anmts in EE, FF, AA, requesting reports. Good level (ER).
 9665 RSFSR(Eur) Ivanofrankovsk at 0000 (GT).
 9680_a ARGENTINA RAE wandering around here. ID 0640, clas.mx to 0700*, sometimes covered by BBC (RB).
 9680 VENEZ R.Monagas, 1315 w/nx and IDs (GT).
 9685 ALGERIA Algiers, good in AA chants at 0645 (RB).
 9690 ARGENTINA RAE, poor w/ old rock mx, SS anmts at 0318 (DAR), and EE talk and lite mx at 0350 (KS).
 9690 UNID. SS stn mentioning "La Cooperativa" and giving a Santiago, Chile box number (RA). Time? LV de Chile is here (Ed).
 9700 HUNGARY Budapest, good w/EE talks at 0123 tune (DF).
 9705 MEXICO XERMX in SS, classical mx at 2200-2245 (MM).
 9710 ECUADOR HCJB, EE talk, Ecuadorian mx, 0130-0200 (MM).
 9710 MEXICO XERMX, mx and IDs around 1444 (GT).
 9715 HOLLAND RN, Dutch to Europe at 2345 (GT).
 9720 VENEZ R.Merida, SS at 1352 (GT).
 9735 USA VOA-Dixon, 1347 in special EE (GT).
 9745 ECUADOR HCJB w/EE "DX Party Line" at 0920, to 0928* (ERi).
 9745 MEXICO XERMX, hrd 0130 (WRC).
 9750 CHILE R.Miberia, nx 0230, off abruptly 0240. Jamming (RA).
 9755 BYELORUSSIA Orcha in EE 0150, //9700 (DF).
 9770 HAITI 4VEH, N:E 1210, wx, rel prgm (JRa). 9769, N:E 1200 (DF)..
 9805 UAR Cairo, AA nx and mx at 1930 (MSK).
 9833 HUNGARY Budapest, mailbag at 0320 (VA).

- 9850 UAR Cairo, at 2304 (GT).
 10000 HAWAII WWVH, hrd 7/1 0600 w/YL, new format, over WWV (MSK).
 10010 UNID. Either Hanoi or R.Liberation, talks at 1040, off at 1045. Weak, but in the clear (DJ). See 7470 (Ed).
 11620 INDIA AIR-Delhi, 0230 w/mx (AA).
 11630 UAR Cairo, FF nx 0115, pop mx, ID 0145, into AA (JDT).
 11680 ENGLAND BBC, Big Ben 0200, into AA (MSK). AA 0418, //15285 (DF).
 11705 CANADA CBC hrd 7/5, 1430, w/EE and FF anmt stating this is new 250 kw xmtr (DF).
 11710 AUSTRALIA RA-Shepparton, EE nx and songs, 1115 (JBa).
 11710 N.CALEDONIA Noumea, strong 0600, but fades by 0700 (RA). Fair w/FF anmts and mx at 0625 (DF).
 11715 BYELORUSSIA Orcha, good w/RM PP 0045, sked 0000-0100 (DF).
 11720 INDONESIA Djakarta from 0820 t/in, cmtry 0837, mx (DJ).
 11735 MOROCCO RTVM, AA mx at 1700 (EP), EE cmtry 1720 (ER).
 11765 AUSTRALIA RA, mailbag to UK/Eur at 0715, poor (RBC). Good w/pop mx 0818 (DJ).
 11770 MEXICO XERMx, SS mx at 1800 (EP).
 11775 INDIA AIR, N:E, mx to Aus&NZ at 1045 (DJ).
 11780 MOZAMBIQUE LM, best ever hrd, EE ads, pops at 0735 (DF).
 11785 BRAZIL R.Guaiba, PP tlks and IDs from 1015 t/in (DJ).
 11785 NETH.ANT. TWR, in RR at 0400, ex-11705 (REW).
 11795 BRAZIL R.Nacional, PP talks 1025, IDs, Ceylon QRM at 1030 (DJ). 11796.5, LA vocal mx at 0100, fair (DRA).
 11800 CANARY IS. RNE, mx and ID 2025 (AA), SS cmtry and anmt 2100 (KS). Also in SS to 0500, //15365 (WJS).
 11800 CEYLON Columbo, nat'l vocal mx 1640, ID 1659, 1700* (DW).
 11800 CZECH Prague, fair w/EE to Aus&NZ 0730, sked 0700-0800 (DF).
 11800 ETHIOPIA ETLF, weak and QRMd at 0235-0300 (JMB).
 11810 INDIA AIR-Delhi, Sitar mx, EE anmt 1401, then more mx (DF).
 11825 TAHITI Papeete, US pops, Tahit.nx 0330 (MSK), and 1115-1241* w/vocals, island mx, anthem (SPD). 11824, Tahit.songs 0420, //15170, both excellent (DF).
 11835 MEXICO XERMx, EE and SS IDs and fgys at 1550 (MSK).
 11835 SUDAN Omdurman, marches, patriotic AA slogans at 0400 (REW).
 11835 URUGUAY R.El Espectador, SS 0230, low fgy het (DF).
 11840 PORTUGAL Lisbon, poor in EE at 0345* (MH).
 11850 GHANA Ejura in EE at 2001-2100* (JMB).
 11850 NORWAY Oslo, N:E 0600, then new DX prgm (1st Mon of month), //11735/21655/21730 (RBO).
 11850 USSR R.Kiev prgm, EE 0045, concert mx, sked review (MSK).
 11855 PHILIPPINES FEBC in RR 1730, EE ID 1756, anthem to 1805* (DW).
 11870 INDIA AIR-Bombay, Indian mx and lang anmts at 1040 (DJ).
 11870 LITHUANIA Kaunas (listed), RM *2300 in EE to NA (SK).
 11875 NICARAGUA R.Nacional, ID 0500, mx to 0600* (RB). SS nx 0532-0558*, then anthem (SK). LA mx, ID and nx 1654, modern mx (TN). Also hrd w/FF lessons at 1850 (GT).
 11880 PAPUA VL8BM, weak, hvy fade 0516 tune. Mx, man talking briefly 0527, then off (GLD, SK). Poor w/N:E 0510, mx 0518 (DRA).
 11885 W.PAKISTAN Karachi, poor 0220 w/clas.mx. RBI QRM on 11890 (DRA).
 11895 DENMARK R.Denmark, IS 0157, Danish and EE anmts 0200, into Danish. Squeezed by USSR xmtrs on 11890 and 11900 (BP).
 11895 SENEGAL Dakar, N:E 1845, Afr mx 1859, IS 1901, FF anmt (KS).
 11900 TUNISIA Tunis, 0630 w/AA chant, seems //11970, both good (DF).
 11900 UKRAINE Lvov, good at 0052 w/R.Kiev prgm. Opportunity to hear R.Kiev from a Ukraine xmtr site (DF).
 11900 UNID. Seemingly AFRTS sports prgm under Lvov, 0052 (DF).
 11904 THAILAND Bangkok, EE anmt 0931, then lang (Thai listed) (DJ).
 11910 ECUADOR HCJB, ID, EE rel prgm to SEA at 0830 (RB). Also hrd

- back here, ex-11915, w/Rumanian 0423 under R. Budapest EE Svc. Budapest went off 0425, then HCJB gave EE ID, and into RR, sked for 0430-0530 (DF).
- 11915 ECUADOR HCJB, SS talk by man at 0055. Excellent (DF).
- 11920 IVORY COAST Abidjan, FF, native mx, ID and anthem to 0002*(MSK).
- 11920 MONACO TWR, NF ex-9575, *0700 Sun only, into Bulgarian (BP). Also hrd w/religious talk in EE at 1905 (ER).
- 11925 RWANDA DW, good in GG at 0100. RNE not hrd (DF).
- 11925 UZBEK R. Tashkent, *1201 w/N:E (AAM).
- 11930 USSR R. Vilnius prgm at 2250, end of mailbag, into interview. Anncd as NF (KS).
- 11940 RUMANIA Bucharest, gypsy mx 0155 and talk in EE (AAM).
- 11955 MALAYSIA BHC-Tebrau, WS hrd to 1815* (RFB).
- 11965 RWANDA DW, loud at *1415 in Amharic (DP).
- 11970 SWEDEN Stockholm, ID 1900 during VOA "dead air" (JDT).
- 11970 TUNISIA Tunis, AA mx, M&W ancrs at 0623 (JDT).
- 11975 WINDWARD IS. WIBS hrd in EE at 0104 (AAM).
- 12000 AUSTRALIA VNG-Lyndhurst, pips and anmts 0445 (RFB), 0624 (DF).
- 12020 USSR Majak prgm at 1250, featuring RR mx (ACM).
- 12055 CHINA Peking w/N:E at 1245 (ACM).
- 12070 UKRAINE Kiev (listed) w/RM EE, 0250-0330 (AK).
- 12080 USSR RM, EE tlk on science achievements to 1200* (MSK).
- 12176 IRAN Tehran in Turkish at 1800 (RFB), and w/EE mx 2010 (ER).
- 13242 CLANDESTINE(Venez) R. Euzkadi, revolutionary mx, SS talks at 2145, jammed. Also hrd on 13251y w/SS talks at 2235, many "breaks" and in the clear (MSK).
- 15000 HAWAII WWVH, Barking Sands hrd here w/YL ancr and new format, including time every minute. IDs just ahead of WWV. Hrd on 7/1 at 0020 (GLD) and 0100 (MH). Any 1st day QSLs in yet? (Ed)
- 15000 USA WWV, Boulder, Colo. also hrd w/new format, including voice propogation rpts at 0018 (HM).
- 15008m N. VIETNAM Hanoi, FF ID and anthem at 2030. Also in EE at 1300 (MSK). 15002, M&W ancrs, chorus, good 2045-2049 during WWV silent period (MH).
- 15030 UNID. stn hrd w/pop mx in SS to LA 0045-0100. Seems not to be Peking, but fairly strong (AK).
- 15070 ENGLAND BBC, EE radio play at 1345 (ACM).
- 15084 IRAN Tehran, Farsi mx 1900, pips and nx 1930 (EP). ME mx and Farsi tlks 1945-2030 t/out (JMS), and Persian talks and chants at 1950 (MSK).
- 15085 UAR Cairo, SS tlks 0115 (MSK), pop mx 0140, ID 0200, AA mx, then N:E to 0212* (JDT).
- 15090 IRAN Tehran in lang to 2126* (JMB).
- 15095 CHINA Peking, EE tlk and mx 0330 (ACM), EE propoganda at 1221 (AAM).
- 15100 RSFSR(As) Krasnoyarsk(listed), AA nx, cmtry, mx 1830 (MSK).
- 15100 WINDWARD IS. WIBS, EE ID, island nx at 1715 (DP).
- 15105 ASCENSION IS. BBC, IS and into WS to W. Afr at *0730 (MSK).
- 15105 JAPAN NHK, EE at 0600 (ACM). EE cmtry 0713, ID 0715, then into Japanese (DF).
- 15115 ECUADOR HCJB, EE at 1330 (JBa).
- 15115 UZBEK R. Tashkent, EE *1200, nx. NF ex-9600, //11925 (BP).
- 15120 FRANCE ORTF, into FF at *0000. Also SS nx, mx, 0115 (RB).
- 15120 NIGERIA VoN-Lagos, EE cmtry at 1815 (KS). Sure of fgy? Believe they're on 15200 (Ed).
- 15120 POLAND Warsaw, EE 0200-0227*, saying will answer promptly(AAM).
- 15125 AUSTRALIA RA-Shepparton, excellent w/N:E, 0715 (DF).
- 15130 USSR RM, N:E and cmtry at 0510. 15.18, 17.86 also hrd (ACM).
- 15140 ENGLAND BBC-Crowborough, good w/AA talks at 1615 (DF).

- 15145 AUSTRIA Vienna, EE tlk 0049 (AAM). Also EE 0037-0045, SS to 0100, GG to 0130 (JMB). Hrd in EE 0100-0130 (WRC) Hmmm (Ed).
- 15150 BYELORUSSIA Minsk (listed), RM *2200 in EE to NA (SK).
- 15150 N.KOREA Pyongyang, N:E 0815, mixed w/RM CC svc (BP). Also hrd ending CC at 1058, IS, EE ID and EE nx (Ed), and w/EE political talk 1430, anthem 1458, and into FF at 1500 (MSK).
- 15150 VATICAN Vatican R. in EE to Philippines, 2240. NF? (GT).
- 15155 BRAZIL R.Tupi, LA mx, PP ads, 0045 (AAM), also like a local at 0338 w/PP songs, anmts, ID (DF).
- 15155 ECUADOR HCJB, EE "DX Party Line" 1930, SS nx to Eur at 2130. NF ex-15415 (BP, MMk).
- 15160 AUSTRALIA RA-Lyndhurst, N:E, pop mx 0235, to Pacific (MSK). Also strong w/clas.mx, past 0333. //15240 also good (DF).
- 15165 DENMARK R.Denmark, Danish nx, cmtry at 1800 (ER).
- 15165 NORWAY Oslo, anmt in EE at 2305 (GT).
- 15165 SYRIA Damascus, N:E 1930, then mx and cmtry (AA, TN, DJ). Also hrd in EE at *2000 (ER). Opening earlier? (Ed).
- 15165 TURKEY Ankara, EE 2205-2230 (JMB). Presumed this one, carrier 0341, ME lang tlks and chants 0402 recheck. See July LR (DF).
- 15170 TAHITI Papeete, flute IS and banjo at *0300 (ER). Hrd with island mx, nx in Tahit. 0400 (JMS), Tahit. tlk, mx, ads 0307 (DF), ID, gongs, Tahit.nx 0400 (KS). Also mx 0400 (ACM), EE lesson 0245, Tahit. tlk, mx 0300 (TN), island mx and FF talks 0300-0430 (AAM), and Tahit.nx and mx 0355-0426 (MH).
- 15170 PORTUGAL RFE, EE lessons in E.Eur lang 0245-0300, old US pops to 0330 (AK).
- 15175 PHILIPPINES VOA-Tinang, EE Breakfast Show 0230-0400 (AK).
- 15180 CANADA CBC, EE 2310 (GT).
- 15180 USSR RM, EE to NA, 0700, //15130 (ACM).
- 15185 FINLAND Helsinki, EE ID 1600, Finnish mx (TN). EE from 1800 to 1832* (JMB, JBa, AAM). Also hrd in EE at 2300 (AA, RA).
- 15185 MOROCCO VOA, EE anmt and into Armenian at 2000 (GT).
- 15185 NIGERIA VoN-Lagos, EE 0600 after drums, ID 0608 (ACM). Pops, anmts in EE and lang, local mx, 0625. Cmtry at 0720 recheck(DF).
- 15190 FRANCE ORTF, EE mx, nx, cmtry 0516 (AA). Brazzaville? (Ed)
- 15190 TURKEY Ankara, down 5 kHz, EE 2200, N:E, cmtry, //15165 (ECS, MSK). Hrd on 15195, EE 2205-2230 (JMB).
- 15200 NIGERIA VoN-Lagos, EE 0645 (RFB). Is to 1800, EE ID, nx,mx(Ed).
- 15210 VATICAN Vatican R. at 1633 in EE to Africa (AAM).
- 15220 S.AFR. RSA, ID and EE anmts, 1153 (AAM).
- 15225 BRAZIL R.Cult.da Bahia, PP talks at 1018 (DJ).
- 15230 ITALY RAI, opera 0050, IS and ID 0100 (JDT).
- 15235 SWITZERLAND SBC, strong at 0105 in SS w/Swiss mx (DF).
- 15245 FRANCE ORTF, nx 0525 (WRC). Also FF 2320, IS 0000, variety mx (VA, JDT). Into PP 0000 (VA).
- 15250 ETHIOPIA ETLF, EE/FF/AA anmts 0430, then into AA (ER).
- 15250 RUMANIA Bucharest, EE, pop mx 1320-1330* (JDT).
- 15255 NETH.ANT. TWR, EE "Radio Bible Class" 1340 (JDT).
- 15260 SEYCHELLES FEBA, vibes IS 1654, then test to ME w/EE anmts, religious mx, IDs, requests for rpts to 1800* (ERi, MSK, RFB, JDT, AAM). Said would soon move to 15415 (JBa).
- 15260 USSR Kazan w/EE talk at 1215 (DF).
- 15265 AFGHANISTAN Kabul, N:E, cmtry 1800, then wx and pop mx (ER, TN, KS, AAM, JDT).
- 15265 USSR RM in Swahili, *0345, w/many IDs. Location? (DF)
- 15270 MOROCCO VOA, EE at *0200 (ERi).
- 15270 USA KGEI, SS and pops to LA, 0045 (GT). 15280? (Ed)
- 15275 W.GERMANY DW, ID, N:E to E.Asia, 2100 (MSK).
- 15275 POLAND Warsaw, EE cmtry to Afr, 1235 (SPD). Also EE at

- 0202-0220, Polish to 0320 (JMB).
- 15280 HAITI 4VWI, EE rel prgm 1220 (DF), also EE 0000, mx 0030, but KGEI QRM (AK).
- 15280 N.ZEALAND RNZ, sports at 0353 (ER).
- 15285 CUBA Havana, SS w/mx, 1245 (ACM). Also EE pol nx, 2105 (MSK).
- 15285 ENGLAND BBC-Daventry, AA chanting at 0350 (DF).
- 15290 SYRIA Damascus, AA at *0300 (REW), chants, nx 0400, mx 0410 (RB). A jammer in here, but after who? (DF)
- 15295 AUSTRALIA RA, EE stocks nx 0310. Hrd here 6/18-20, but back to 15240 on 6/21 (REW).
- 15295 SWEDEN Stockholm now using this channel to ECNA 0000-0230, ex-11825 (REW). Hrd in SS *0000 (BP), N:E, comtry 0030 (JDT, AAM), still in EE at 0200 (HM).
- 15295 NETH.ANT. TWR, Dutch IDs at 2140, //15345 (MSK).
- 15300 JAPAN NHK, IS 1159, EE ID and N:E (DF). Into Japanese 1215 (AAM). Also at 1707 w/EE cmtry, and another stn on fqy (JBa).
- 15310y GUINEA Conakry, Afr mx at 1205. Also hrd 0351 w/unstable carrier, Afr mx, and off abruptly 0353 (DF).
- 15320 AUSTRALIA RA-Shepparton, ID 0129, then N:E (AAM). Also at 0337 tune w/EE songs (DF).
- 15325 CANADA CBC, EE at 1300, into FF at 1315 (ACM).
- 15330 ITALY RAI hrd w/IS 0411, then gone (DF).
- 15330 VATICAN Vatican R. w/EE to India 1515. 1530* (MSK).
- 15343 NETH.ANT. Re Argentina rptd here in July LR, is actually TWR Bonaire (DF). Prgm is produced in La Plata, Argentina (Ed).
- 15345 KUWAIT R.Kuwait, flute 0359, chimes, 0400 EE ID, TC and anmts (DF, RA). Also hrd *1600 to Eur (RA), and in EE w/pop mx at 1725 (JBa). N:E 1830, pops, talks, also opera 2000-2100, all in EE (TN, MSK, JMB, SPD, AAM, HM).
- 15345 GREECE Athens w/IS 2149, Greek nx 2000, then nx in FF, EE, GG to 2230* (TN). All Greek on Sundays, fqy varies to 15347. Very strong--maybe new 100 kw xmtrs? (Ed)
- 15400 IRAQ Baghdad, IS at *0228, anthem and anmt, then chants. Sometimes talks, also pop music (DF, SPD, JMB, DJ, JDT). QRM from VOA-Gvl till 0300.
- 15420 CYPRUS BBC-Limassol, weak w/WS 0200-0230 (AK). N:E 0407, Spain not around (DF).
- 15420 UNID. in AA to 1645, then SS ID and nx, AA agn 1700 (ECS).
- 15425 AUSTRALIA ABC-Perth, poor at 0405 N:E (DF). Also hrd w/clas. mx and mx for schools, 0610-0640 (MH).
- 15430 S.KOREA VoFK-Suwon, EE nx and cmtry, native mx, 1120-1130* (AAM, JMB).
- 15455 USSR R/S Rodina, *1800 in RR (MSK).
- 17705 INDIA AIR-Aligarh, not Bombay, IS 0328, Asian lang 0330. Also in Guharti 0430, Konkani nx 0435-0445*. Is 250 kw, about 100 miles SE of Delhi (DF). Hindi 0400, Gujarti 0415 to E.Afr(REW). (Also GLD).
- 17705 INDIA AIR, 0103-0115*, N:E, cmtry. Not hrd nightly (JDT).
- 17710 RSFSR(Eur) RM in CC 0503, believed *0500. Site is Moscow(DF).
- 17710 USSR RM, on at 1000, EE cmtry, off 1027, //17870 (ERi).
- 17715 AUSTRALIA RA-Shepparton, N:E 1109 (AAM).
- 17720 FRANCE ORTF, pop mx, FF ID 1135 (AAM). FF to LA, 2300 (EP).
- 17720 RSFSR(Eur) Kazan, N:E to E.Afr at 0450 (DF).
- 17720 TAIWAN VoFC, EE 0206-0320, weaker on //15345 (JMB).
- 17730 FRANCE ORTF w/IS, then FF ID at 0500 (DF).
- 17735 POLAND Warsaw, mx 0453, Polish(?) tlk by M&W 0500 (DF).
- 17740 AUSTRIA Vienna, 0405 w/N:E, mx, anmts (AA).
- 17740 PORTUGAL Lisbon, 0454, PP, guitar mx to Afr, past 0510 (DF).
- 17750 SPAIN R.Liberty, carrier 0455, *0500 w/ID, and jammed (DF).

- 17755 RSFSR(As) Krasnoyarsk believed the stn in CC w/piano mx 0456. Hvy splash from 17750 jammer after 0500 (DF).
- 17760 W.GERMANY R.Liberty on top of jammer at 0505 in lang (DF).
- 17765 FRANCE ORTF, orchestra mx and FF tlc, 1150, //17830 (AAM).
- 17765 USA AFRTS-Delano, good w/EE tlc on drugs at 0507 (DF).
- 17775t ENGLAND BBC-Skelton, over jammer in RR, 0508 (DF).
- 17785 AUSTRIA Vienna, in GG to SEA at 0510 (DF).
- 17785 JAPAN NHK, N:E 2000 (AAM).
- 17790 ENGLAND BBC-Daentry, 0513 cmtry, ID, bells 0515. To ME and Afr (DF).
- 17795 AUSTRALIA RA-Shepparton, pop mx, EE, 2353 (AAM). EE nx 0240, pop mx (AA). Also FF to mid-Pac. 0515, sked 0430-0630 (DF).
- 17795 ITALY RAI, Somali tlc by man at 0515 tune, ID, mixing w/RA(DF).
- 17800 VATICAN Vatican R., IS and EE ID 1706 (AAM).
- 17820 AUSTRALIA RA-Shepparton, FF to Afr at 0519 tune, //17795 (DF).
- 17820 CANADA CBC, RR 1600, then Slovak, EE 1630, then FF (ACM).
- 17830 E.GERMANY RBI in AA at 0521, no // hrd (DF).
- 17830 W.PAKISTAN Karachi, EE nx, talk at 1500 (AA).
- 17840 CZECH Prague, Czech to LA at 2240, fair (BP).
- 17840 SWEDEN Stockholm, EE 0515-0540, //11895, both good (DF).
- 17845 RSFSR(As) Sverdlovsk, in CC 0525, mx, //17860 (DF).
- 17850 RUMANIA Bucharest, EE Listeners Club prgm at 1120 (AAM).
- 17850 USSR RM, N:E 0527, PP to Afr 0530, //17720-Kazan(better)(DF).
- 17855 JAPAN NHK, EE to Europe 0700 (RFB).
- 17860 ECUADOR HCJB, hymns, GG sermon 0045-0058* (JDT).
- 17860 USSR Kursk, in CC at 0535, //17845 (DF).
- 17860a S.AFR. RSA, lite mx and EE at 0305 (RB).
- 17865 RSFSR(As) Komsomolsk, fair in EE at 0535 (DF).
- 17870 AUSTRALIA RA-Shepparton, fair w/EE discussion at 0535 (DF).
- 17870 USSR "R.Peace & Progress" prgm, EE *1032 (ERi).
- 17880 MALAYSIA BBC-Tebrau, local ID *0855, WS 0900(SK).EE 1205 (DF).
- 17880 PORTUGAL Lisbon, PP tlcs, mx, IDs, from 1200 tune (DF).
- 21495 PORTUGAL Lisbon, IS and EE ID at 1900* (AAM), also in EE at 1905 (JMB) ?-Ed.
- 21535 S.AFR. RSA, ID and EE anmts, 1028 (AAM).
- 21545 GHANA Tema, EE to C.Afr, 1450 (GT), and 1516-1530* (JDT).
- 21560 ITALY RAI, Italian talk on economy, 1853 (AAM).
- 21580 FRANCE ORTF, FF songs and talk at 1845 (AAM).
- 21595 CANADA CBC, sports prgm in EE, 1642 (JBa).
- 21600 E.GERMANY RBI, EE mailbag prgm at 1840 (AAM).
- 21620 FRANCE ORTF, nx in FF, 1836 (AAM).
- 21640 HOLLAND RN, EE "Happy Stn" prgm at 1835 (AAM).
- 21675 FRANCE ORTF, FF nx 1833, //21620 (AAM).
- 21700 PORTUGAL Lisbon at 1830 w/ID and PP nx (AAM).
- 21705 MEXICO XERMx, mx and SS/EE/FF IDs all afternoon and early evening. Has deteriorated since end of June (ACM). SS nx, 1648 (JBa).
- 21730 NORWAY Oslo, in EE to 2030* (JMB).
- 21740 AUSTRALIA RA-Shepparton, EE, mx, play 0100 (AA), also pop mx and EE at 0205 (AAM).

---) Two additional items: INT'L WATERS. Chris Lobdell, Reading, Mass. phoned on 6/18 to advise that RNI was back on 9934, good strength at 2400. INDIA. Cf.17705. Partial sked of AIR Aligarh xmtr: 15335, 1315-1500; 17705, 0330-0445; 15340, 2245-0115; 15205, 1045-1100; 11740, 2030-2230, all 250 kw. Also 11945, 1545-1945, 500 kw (DF).

I want to thank Bill Eddings and the BOD for their vote of confidence in asking me to edit the Log Report. It is without doubt the source of up-to-date information on what's being heard, and I hope to edit

AA Al Andrews, Weirton, W.Va/SX-122A
 AAM Albert A. Miller, Jr, Youngstown, Ohio
 ACM Anthony Marks, La Grande, Ore/DX-150
 AK Audie Kaufman, New York, N.Y./SPR-4
 AS Al Sizer, No. Haven, Conn./HQ-180A
 BP Bob Padula, Victoria, Aust./CR100
 DF Dan Ferguson, Coral Gables, Fla/SB-310
 DJ Danny Jamison, Charlottesville, Va./SW4A
 DP David Potter, Key West, Fla/DX-150A
 DW Dave Williams, Astoria, Ore/SPR4, 75S-3C
 DRA David R. Alpert, Morton Grove, Ill/SPR4
 ECS Edw. C. Shaw, Norfolk, Va/SX-130
 EP Edw. J. Pyatt, Conway, S.C./HQ-100
 ER Evan Rosen, Brooklyn, N.Y./SX-133
 ERi Ed Ricchezza, Phila., Pa./SW4A
 GLD Gerry L. Dexter, Lk. Geneva, Wis/R4B, HQ180
 GT Gary Toncre, Miramar, Fla/DX-150A
 HM Hank Michalenka, Central Falls, RI/GR-54
 JBa John Banta, Pt. Jeff. Stn., N.Y./SX-110
 JDT John D. Tuchscherer, Neenah, Wis/HQ100A
 JMS John M. Smallshaw, Wanwatosha, Wis/GR-64
 JMB John M. Burns, Groveland, Fla.
 KS Kenneth Schnur, Brooklyn, N.Y./HQ180
 MH Mike Hardester, Modesto, Calif.
 MM Mildred Marshall, Devils Lk, N.D.
 MMk Mike Macken, Winthrop, Mass./SX-133
 MSK Mark S. Konen, Mequon, Wis/SX-71
 RA Richard Anderson, Evanston, Ill/HQ200
 RB Ron Bruns, Ferguson, Mo/DX-150A
 RBO R.B. Odein, Tocomo, Wash/R4B
 REW Richard E. Wood, B. Rouge, La/SPR4
 RFB Robt. F. Bruce, Brechin, Scotl/Edystn940
 SK Steve Kamp, San Jose, Calif.
 SPD Steven P. d'Adolf, Woburn, Mass/R-530
 TN Tom Neely, Dearborn, Mich/DX-150A
 WJS Werner J. Selby, L.A., Calif/SPR4
 WRC W.R. Coleman, Jr, Raleigh, N.C.
 VA Vic Argabright, Larkspur, Colo/GR-64

Here is a list of abbreviations that have been used in LR in the past, and which I expect to continue using:

- AA-Arabic
- CC-Chinese
- EE-English
- FF-French
- GG-German
- PP-Portuguese
- RR-Russian
- SS-Spanish
- *0100-sign on at 0100
- 0100*-sign off at 0100
- //-in parallel
- anmt-announcement
- C&W-country and western
- cntry-commentary
- comls-commercial
- ECNA-E.Coast No.America
- exc--excellent
- fqy-frequency
- f/in-fade in
- f/out-fade out
- hvy-heavy
- HS-Home Service
- IS-interval signal
- LA-Latin American
- lang-unknown language
- LV-La Voz
- M&W-man and woman
- mx-music
- NA-North America
- nat'l-national
- N:E-news in English
- NF-new frequency
- nx-news
- Pac-Pacific
- prgm-program
- rel-religious
- RM-Radio Moscow
- svc-service
- t/in-tune in
- t/out-tune out
- tlk-talk
- TC-time check
- vy-very
- WCNA-W.Coast No.America
- WS-World Service (BBC)
- wx-weather

it with the same care evidenced by previous editors. I do not anticipate substantial changes in policy or format, but criticisms and suggestions are welcomed.

With this month's bulletin is a sample form which I encourage members to use when reporting. Column preparation is a big job, and this will make it a little easier. Have a heart--please use them. An SASE will bring you a supply.

Member Steve d'Adolf, now back from the Marshall Islands and living next door to yours truly, wants to remind everyone of the get-together at his place on Labor Day. A good time is in store for all those who come. Contact Steve at 16 Westgate Dr. (Apt.201), Woburn, Mass. 01801.

No one likes abbreviations, but they're necessary, so bear with them. If I've missed some above, I'll try to include them in a future bulletin.

Last Minit News/Tips

FLASHSHEET

Last Minit News/Tips

AL NIBLACK - EDITOR, 420 SHELBY ST., VINCENNES, IND. 47591 Deadline 23rd of the Month

SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY, 7-6-1971.

1-49	2-61	3-60	4-55	5-43	6-25	7-24	8-40	9-27	10-24	11-26	12-28	13-22
14-34	15-17	16-40	17-44	18-42	19-23	20-38	21-35	22-31	23-49	24-32	25-64	
26-88	27-106	28-99	29-95	30-91								

MEAN--47.1

PREDICTED: JUL-58 AUG-56 SEP-54 OCT-52 NOV-50 DEC-48 (Going down!!)(Grady Fergu-

AFGHANISTAN Kabul observed 1800 to Europe in EE, 15265, at fair lvl. (Ed- /son, N. C.)

ARGENTINA LOL Time signals in SS noted with good audibility on /ward Insinger, N.J. 7/1, thereafter, between 2300-0030, on 15000, with YL amcr. (Edward Insinger)

AUSTRALIA Darwin Relay on new sked 7/2, now daily heard at 0130, 17715; also at 0600 in // 15355 which S/on at 0530. (August Balbi)... 9590 RA, Shepparton, new fqy, ex 17870, 7/3, EE news 2305 (sked:2100-2345, 100kW); 9560, new, additional fqy. Indonesian 2300. Sked: 2130-2230 Vietnamese, 2230-0030 Indonesian; 7135 new, 2100-2200 English, 100kW, ex 15320, all these Shepparton) (Bob Padula, Australia)

BELGIUM 9550A RTB, Brussels, 0045 with talk in EE on tourism there. (Marlin Field, Mich.)

BRAZIL According to QSL from Radio Timbira, the station becasts in EE and PP at 2330 on 4975. Prgm is called International Correspondence, listeners' letters answered.

BRUNEI 7215 Heard with local type news 1300, regular news 1315, fair(Aug- / (SwDXers)

CANADA CBC heard testing with 250kW heard 6/28, 1430-1500; on 7/11, /ust Balbi) 0830-0930, all on 15190 for Europe and WCNA. S9 lvl plus. (August Balbi)

CEYLON 11800 R. Ceylon logged 1125-1205, native music, EE ID at 1130(Tom Neely, Mich.) ...15120 R. Ceylon heard daily around 1615 daily with EE and playing old time pops, fair lvl sigs. (Rich Heggs, Canada)

CHILE 9515 R. Sarandi 7/10, heard S/off in SS at 0035. (Marlin Field)

CONGO(DR) 15245 This one with ID as, "Ici Kinshasa", currently peaks 0300(Tom Neely)

CZECHOSLOVAKIA Radio Prague NA Svc at 0100 in EE good on 11990, 7345(Edward Insinger)

DENMARK R. Denmark now on new fqy and new svc, 11895, at 0200 S/on with EE ID and into Danish language. Improved signals. (Rich Heggs)

EGYPT(UAR) 11630 R. Cairo to S.America, FF 0115-0200, PP other times, good(August Balbi)

GUYANA 3290 Action Radio poor lvl here on various skeds. One ID in clear, "This is Action Radio", at 0320. Apparently this is part of GBC and thus not really a new station. (Gerry Dexter, Wisc.)...Received a QSL from Guyana Beasting Svc with schedule as follows: 3290, 0845-1245; 5950, 1245-1945; 3290, 1945-0345, Sun, Tues, Thurs; 1945-0445 on other days. (Steve d'Adolf, Mass.)

GREENLAND 11745 (FLASH) Gronlands Radio, Godthabb, 1458-1800 opens with IS; mixed prgm of pops to 1627; EEE religious song to 1700, annct, IS; religious svc to 1742; IS 1758, ID, music past 1800. (John Cobb, Jr., APO(Iceland) via Hank Bennett SW Editor NNRC.)

INDONESIA RRI, 11720, S/on 0800, EE 0900, QRM de Peking S/on 1000; is daily strong lvl 1300-1600 in native. ID, RRI chimes IS at 1500. (August Balbi)

INDIA 17705 AIR, Aligarh, carrier at 0316, tone, IS 0328, into Asian language at 0330. (Gerry Dexter)

IRAQ 7240 Baghdad fair lvl at 2245 in AA language. (Dave Volle, Ill.)

LIBYA 8627M This one heard from 2300 until S/off at 0015, in AA, 7/10.(Steve d'Adolf)

ISRAEL Jerusalem anncing special fqy 6180, fair lvl 7/8, English news to Europe 2115; also 7/9, S/on at 2200 in Russian. (Bob Padula)...Though I can't hear 6180, Kol Israel is anncing on 9625 as of 7/14, that the 49 MB outlet is a new fqy in use from 2045 to 2130, beamed to Europe, presumed English. (John Banta, N. Y.)

KOREA(N) 15150 Radio Pyongyang hrd daily 1400-1500 in EE, fairly good signals--one of the few times I've heard the station in EE.

MALAGASY REP (FLASH) R. Nederland's SW Merry-Go-Round Prgm annct the folling schedule of tests, by R. Nederland, Madagascar: 1100-1200, 15195, to Australia, New Zealand; 1300-1520, 21480 and 15330 to the Far East. These tests begin medio October. (R. Ste-

MEXICO 6165 XEWW noted at 0620 with drama or discussion in SS-- /phen Dildine, Jr. Va.) first time to log them here in months. (Marlin Field) (continued)...

PLEASE TURN OVER

MEXICO (continued) XERMX inclosed the following schedule in their reply: 0800-2400 (time basis unknown, Editor), 9705, pwr 20kW; 0800-2400, 11770, 100kW; 0800-1300, 17835, 100kW; 1300-1700, 17835, 100kW; 1700-2000, 17835, 100kW; 0800-1100, 21705, 1 Megawatt; 1100-1700, 21705, 1 Megawatt; 1700-2100, 21705, 1 Megawatt. (Werner Selby, Calif.) (Thats what it sez, 1 MEGAWATT, Editor)

MOROCCO 9615 RTM on 7/14 at 2135 with drama, S/off 2200 abruptly; then in the clear an unidentified in Oriental language. R. Pyongyang listed here by WRITV. (Marlin Field)

NETH ANTILLES TWR has returned to 15295 (in Norwegian), now // 15345 till 2200 close. FF prgm at 2200 now on 15230, all 7/14. (John Trchscherer, Wisc.)

NIGERIA 6140 NBC, Maiduguri (TENT) Heard various evening around 0430 for about 15 minutes with chants in AA or similiar. Or is this Burundi? (Marlin Field) (Good chance this is Burundi, Editor)

NORWAY Radio Norway in EE to NA at 1600 when 17825 is a good fqy, good QSA, low QRN, low QRM. (Edward Insinger)

NEW GUINEA (FLASHES) R. Morobe, new station, 3220, with tests to S/off at 0900. QSL back advises regular services begin one month with 2kW, with proposed schedule: 0700-1200 (Mon-Fri), 0600-1200 (Sat/Sun) Address: POB 1262, lae... Port Moresby Another new outlet with propagation tests on 3290, amncing 2kW, heard strongly around 0900 to past 1100, believed operated by Administration Service. (We are indebted to Bob Padula for the foregoing timely tips, Editor)... Port Moresby, 9520, VLF9, noted on extended schedule till 0800 with "Listeners' Choice" prgm, strong lvl; hrd daily since 6/28, 0730 in native and EE, request prgm. 10kW. (August Balbi)

PERU 6020 Radio Victoria, Lima, logged 0630 with musical program in SS. (Marlin Field) ... 9562 Radio Nacional, Lima, a strong signal with music and SS, 0730-0800, frequent ID; and TCs. (Dave Volle)

RUMANIA R. Bucharest found at 0200, on 15250 with EE to N.A. at excellent signal lvl. (Rich Heggs)

SEYCHELLES (FLASH) FEBA, Victoria, on new 15415, logged 7/12, at 1715 testing in English with music, anncts, station QTH, asking for reports. Reception today poor to fair lvl. (John Banta)

SWEDEN RS excellent lvl at 0030 in EE to N.A., on 15295. Sounds almost like a relay!

TAHITI (FLASH) ORTF noted 7/10, on new 9735, 0730 with FF, // to / (Edward Insinger) 11825, 6135, to past 0900, later S/off this day. Do not know if a replacement for anything -3223 inaudible, and 15170 blocked by USSR Chinese Svc. (Bob Padula)... Paapeete is often closer to 15174; FF/EE lesson 0230, irregular. Special prgm still strong at 0940 on 11825//6135A, 7/10. (August Balbi)... 15170 Radio Tahiti begins FF 0500, musical prgm till 0530. (Dave Volle)

TUNIS Radio Tunisia heard nightly S/on at 0430 de QRM from station on same fqy, 6195. QRMing station does not sound like SABC. Who? (Marlin Field)

USA Station WWV heard with new format, no more Morse Code, 1 minute IDs. Can be heard via telephone by dialing long distance: areacode 303 499-7111. The anncts with accuracy to 3 milliseconds. (Edward Insinger)

USSR Radio Station Peace and Progress noted 1530-1600 on 17795. EE with fair lvl at 1545. (Edward Insinger)

VATICAN STATE Vatican Radio to N. A. regularly 0030-0125; EE 0050 on 15420//11725 //9615. EE news at 2045, 11740, amncing also 9640, and "7 mcs", S/off 2100 (August Balbi)

POLAND Radio Warsaw observed at strong lvl on 15120 at 0200 with EE to NA (Rich Heggs)

LAST MINUTE ITEM: FLJI Suva now S/off 1100 Sats, 3230 English; and 3284 vernaculars, rather than 1030. This noted 7/10. (Bob Padula) (Editor's note: It was my impression that this schedule variation was always in effect. Izzat so?)

ACKNOWLEDGEMENT: Thanks to all the regular contributors and sometimes contributors to this column. Your support is appreciated, especially so, during the summer doldrums. The QRN has been excessively high here in So. Indiana, and DX attempts useless in the low fqys. August will soon be with us and the approach of September should herald the coming of a new DX season. With the dropping Sunspot count this should be a prime low band DX season. Please keep the reports coming, without your help this column would not exist. Call last minute items to 882-3976 after 2200 GMT. Technical and Semi-technical questions in re receivers and etc may be addressed to this column. Just inclose an SASE. Now, off to ANARC Convention, Indy. Vy 73, AL