

NORTH AMERICAN SHORTWAVE ASSOCIATION

THE SWBC JOURNAL*

THE SWBC JOURNAL*



JULY 1968

VOL. 7 NO. 7

NASWA HEADQUARTERS

POST OFFICE BOX 969

ALTOONA, PA. 16603 USA

OF LEADERSHIP

In every field of human endeavor, that which is first must perpetually live in the light of publicity. Whether the leadership be vested in a man or in a manufactured product, emulation and envy are ever at work.

In hobby, just as in art, literature and industry, the reward and the punishment be same; Reward is widespread recognition, punishment, is fierce denial and defraction. When a work becomes a standard, it also becomes target for shafts of the envious few. If the work is merely mediocre, it will set hundreds of tongues awagging. Jealousy does not protrude its forked tongue at the common, average.

Whatever is writ, none will strive to surpass nor slander unless the work be stamped with worth. Long, long after a good work has been done, those who are disappointed or envious, continue to cry out that it cannot be done. Spiteful little voices once protested that NASWA could not/should not go all-SWBC, yet today our club is recognized a leader within SWBC ranks, not merely by our own members, but by those in clubs not covering SWBCing, and in most parts of the world.

A leader is assailed because he is a leader, and the efforts to equal him be only to add proof of that leadership. Failing to excel or equal, the follower seeks to depreciate and destroy, yet only confirms, once more, the superiority of that which he strives to supplant. There is nothing new in this; It is as old as the human passions of envy, fear, greed, ambition and the desire to surpass; And it all avails nothing.

If a leader truly leads, he remains the leader and his works that are good make themselves known; No matter the loud clamor of denial.

Today NASWA is leading, its works are good... and because we hold that which is good, continues; That which deserves to live, lives; We look to a future with certainty. Yet, and though we lead, and we succeed, mind you we be humble. We long have known/realized there is more to the DXing hobby, no matter the phase, than just the 'hard core'; There is a want and need for "Unity and Friendship", a purpose for understanding and appreciating the novice, a vital necessity to add more 'heart'. Far too many do not/cannot agree nor fathom this, yet they must face up to fact it is why NASWA now leads.

.....Bill Eddings

FOURTH OF JULY - SALUTE!

We in the U.S.A. this month celebrate our Independence Day; It is befitting then that we NASWA members give salute to those of our members serving with the Armed Forces by dedicating this edition of FrenDx to them. They are: Bruce Churchill, Ed Shaw, Larry Marshall, Odis Woodward Jr., Roger Horie, Phil Wanat, Charles Orekar, Danny Douglas, Elwin Farrell, Hank Slade, Bob Morrow, Tom Rosen, Jim Perretta and George Pollard.

ATTEND THE 1968 ANARC CONVENTION.....AUGUST 16-18th.....OMAHA, NEBRASKA.....HAVE FUN!!

Friendx is the official publication of the North American SW Assn. and is expressly for the SWL/DXer interested in International Shortwave Broadcast monitoring. There are no subscriptions; Only active and in good standing members are entitled to receive copies other than samples or exchanges. Membership in NASWA is \$5.00 per year, 12 editions sent via 3rd class mail NA, or via surface mail abroad. For those who desire more expedient delivery, via 1st class mail NA, an additional \$2.00 fee is required. Airmail rates are also available.

This and all editions of Friendx are made possible through the combined efforts and interests of the bulletin staff, club officers and supporting members.

Executive Editor/Hdqs William Eddings, P.O. Box 989, Altoona, Pa. 16603

Shortwave Center Editor- Don Jensen Log Report Editor- Del Hirst

QSL Report Editor- Gregg Calkin

NewsRoom Editor- Dan Henderson

FlashSheet Editor- Al Niblack

Contest Editor- George Schabel

Awards Chairman- Warren Nordgren

ANARC Report Editor- Doug Benson

Special Contributors, this month: Cesar Objio, Ray Mas, Rod Williams, Chris Stark, Frank Richardson, Art Poulis, Andy Rodau, Steve Kamp, Barry Williams, Richard Wood and Bruce T. Goldman

THIS MONTH: Be sure to note announcements re changes in editorship of the Shortwave Center and Log Report. Too, all members are being sent copy of Awards Program. A Report form for new Log Report editor is also being sent.

NEXT MONTH: An up-to-date listing of Peruvian stations along with notes on DXing this South American country. Article on Radio Emisoras Bolivia, Oruro. Article re 'squabble' resulting from Radio Portugal's placing in the ISWC popularity poll. Another report by NASWA's wonderboy, Charlie Loudenboomer. All other regular columns, plus some extra's and surprises. We also hope to have a first-hand report on the 1968 ANARC convention which will be held in Omaha, Nebraska.

MEMBERSHIP LIST: At request of the NASWA Board of Directors, Hdqs is presently compiling list of members. Said list will be made available, upon completion, to those NASWA members interested.

ABBREVIATION LIST: Hdqs is currently compiling list of abbreviations used in connection with the SWBC hobby. Although it will be mainly of use to new SWLs/DXers, it will be available to all members requesting it. Watch for later announcement as to when it will be ready.

CLUB STAMPS: We have exhausted supply of our club stamps and new stock has been ordered. Those members who have recently sent orders, please standby. All orders will be filled as soon as new supply is received at Hdqs.



GOODBYE AND HELLO

For the first time in years NASWA finds it announcing a change in editorships. Yet, and even so, we have been far more fortunate than a number of other clubs. This month will be the last Shortwave Center done by Don Jensen; He must give up his editorship because of added personal responsibilities and vocational pursuits. However he will remain as a member, on the NASWA Board of Directors, will continue as our Country List chairman and also will write features for 'Clandestine Corner' column. Del Hirst also, in this edition of Friendx, has done his last as Log Report editor; He must give up the work due poor health. However, he too will remain an active member and continue to support the club in as many ways and as best he can otherwise.

Both Don and Del have been major factors in the growth and success of NASWA to date. Both have given of their best as members, DXers and friends. No club could ask more. And though we regret their leaving as editors, we are happy they will continue as members. Our most sincere thanks we extend them for the heart and the help they gave...will give!

Taking over for Don is one of the most reknown DXers around the world, Richard E. Wood, 1630 Ruth Place, Honolulu, Hawaii 96816. NASWA is indeed fortunate to have such worthy and capable man take on the duties of Shortwave Center editorship. We ask that members give him the same fine support they gave Don. His first section will appear in the next (August) edition of Friendx.

Replacing Del is Rod Williams, 8 Bellmeade Drive, Rossville, Georgia 30741. Like Del when he first began with NASWA, Rod will be new at the editing job. Yet too, as Del, we are sure he will soon take charge and do good work for us. All he needs is the support of the membership. His first section will be presented next month (August) and we ask all regular reporters (and new ones) to have log reports to him by 15 July, in order he can begin with a bang.

One other thing...when writing to these new editors, or any editor for that matter, if a reply is wanted/warranted, please be sure to enclose an SASE or return postage.

COUNTRY LIST ADDITIONS

By action of the NASWA BOD, the following two additions should be made to Country List; 25a. Bougainville Island and 151a. Nigeria (Biafra). The first is counted as Oceania, second as Africa. In connection with latter, delete reference to Enugu from 151 Nigeria. It is suggested that members reread the explanatory notes preceding Country List.

BILL GRAHAM MEMORIAL FUND

Our thanks to the following members who contributed to our mimco/addressing machine fund; Ken Lyon, Paul Burns, Stan Mayo, John Beggs, Mike Mochizuki. Other members wishing to contribute are reminded that we accept cash, check, money-order, IRCs and mint (US) stamps. Thanks again!

1968 ANARC CONVENTION

If mail to Hdq is any indication, seems our representation to this "wing-ding" is not going to be very sizable. So far the only members planning to attend, as far as Hdqs knows to date, are Richard Wood, Jerry L. Dexter, Bruce Reynolds and Ron Engelbrecht. How about you fella's in Nebraska?? We'd like to see good representation for NASWA.

SUMMER SUP. WRTH

Members/DXers wanting copy of the Summer Supplement to 1968 World Radio TV Handbook can get them direct from publisher for \$2.50 ppd. Address is; World Radio TV Handbook Company Ltd., Sundvej 6, 2900 Hellerup, Denmark. No suggest fee is sent via International Money-order.

HELPING HAND SERVICE

Wanted: Copy of 1967 September Friendx. I will reimburse for postage. Victor Jaar, 7375 Sherbrooke St.W, Apt.37, Montreal, Quebec, Canada.
For sale: BC-454 Surplus receiver w/power supply. Covers 3 to 6 Mcs. Good condx. Ameco all-band pre-amp w/power supply. In excellent condx, hardly used. Reasonably priced. Write; Mike Mochizuki, 2365A, Palolo Avenue, Honolulu, Hawaii 96816.

SINCERE THANKS!

For their recent letters of heart, understanding and faith, I wish to express my gratitude to Art Glover, August Balbi, Larry Marshall, Mike Silverstein, Richard Jenneman, Frank Peters and Del Hirst. It is good being fellow member/DXer, but even better being sincere friend. B.E.

"THEOPENMIKE"

Comments/opinions/criticisms/suggestions regarding subjects and matters pertaining to clubs, bulletins or the hobby proper...The Open Mike is media via which members can "speak out". The only restrictions are that letters must not exceed 500 words, not infringe on political or religious topics.

* * * * *

"I, as a new member, find it alarming to see editorials like 'Membership vs Subscription' in Frendx. Having heard about NASWA about three years ago, via Dick Jenneman, who has long been a member, I investigated and was sent a sample bulletin. In the edition I received, the words(motto) 'Unity and Friendship' appeared no less than three times in bold upper case letters. I did not see another Frendx until I joined in April '68 which had the above mentioned editorial. There was not one page on which the club motto appeared. It also did not appear in the May or June editions. In my opinion this gives a very bad impression. Now although my comments may not hold up as well as those from so-called 'special contributors', I still feel I can do as good a job with my GR-64 as some with Hammarlunds, Drakes, etc., can. So before we 'lesser' members are regarded as 'hooked-nosed monsters' who sit at mailboxes drooling and waiting for our monthly Frendx, let's keep our club motto more amind." Dave Ahrendts, Nebraska

"In regard to Mr. Dinkmeyers statement in the June bulletin, I would say that although much of what he said is true; Being a student myself, I too experience difficulty in finding enough time to DX. However I still do get in a few reports most every month and feel that all members, if they really want to, can at least report once or twice within six months." Ray Mas, New York

"I am glad to see the stand taken, the courage and foresight used, on the editorial question. Editorials tend to guide and make people think. Few have the wisdom to write them, and a small minority seemingly does not have the capacity to understand them. Nothing else promotes our motto better than good editorials like those appearing in Frendx, usually on frontal page, and I think they need to be a part of every edition. It is clear to me that the work done at Hdqs is 'a labor of love', and I am most pleased to me involved as a member/friend." Rod Williams, Georgia

"It seems to me that NASWA lacks a lot of the personal touch that comes through in 'musing' sections found in BCB club bulletins. Most of the names in Frendx are just that, names. Other than the New Member columns, there is little way to get to know the other members. In past I found the introductions to certain of our club officers very interesting and am wondering if perhaps two or three members might be 'spotlighted' each month. This way we could get to know one another better. As is, becoming familiar with other members isnt easy when a club is big like NASWA." Bruce Reynolds, Missouri

"No doubt there will be a number of members who are unhappy with the idea NASWA asks they report at least once within six months in order they be considered 'in good standing'. Those of these who do become unhappy should now, if not long ago, realize that it is fact, good things must be earned, they cannot be bought with money. Too many of our members let this fact elude them. Too many cannot understand that it takes the cooperation of each individual if the club is to be worthy and successful, not only regarding the DXing idioms, but also regarding the benefits connected to 'Unity and Friendship'. Suffice it to say then, any member who is unhappy because of his status in the club, he has only himself to blame." Robert Langevin, Quebec

(Note: When sending mail to "Open Mike", please use separate sheet of paper, sign your name. Do not include it as part of letter dealing with other matters and/or sections of club/bulletin....although it can be sent in same envelope. Thank you!)

Frendx-NASWA

Hdq

July 68

The Association of North American Radio Clubs is a parliamentary body composed of appointed representatives from the major shortwave and BC-oriented radio clubs in North America. NASWA, one of the largest of these clubs, is entitled to three representatives, the maximum number. These three reps, B. Colapietro (708 Harpur Dr., Endicott NY) F. Peters (820 West 34th St Chicago 60608) and D. Benson (PO Box 131 Laconia NH) serve you, the member, within the Association and present

The ANARC Report

Association news this month: Nominations are now open for the position of ANARC Executive Secretary, with Gerry Dexter declaring his non-candidacy for reelection. A nomination made by this report's writer was declined by the nominee, hence officially there are no nominees now listed for takeover of the Association with elections but three months away.

ES Dexter has proposed a sub-reinstatement of the general procedure, if not the actual reenactment, of the Permanent Reference Book Committee. His ideas have drawn favorable comment from representatives.

The DX Census Committee, organized just weeks ago under the chairmanship of Chris Maslen of NRC, hasn't yet reported in on progress to the Association. Indeed at least two communications addressed to Chris have gone unanswered, and we're hoping that he hasn't come down with the flu that's blanketing the eastern part of the nation, as have we. The committee, to refresh your memory, will take a census of hobbyists in North America. We're reminded too by former rep Art Glover that his committee made a general study along these lines as part of the marketing research into the Book Committee's effort, and that these findings will be made available to the DX Census Committee.

In the effort to make the Association reflect more the opinions of member clubs, the monthly Newsletter is now being sent to additional Chief Officers of the clubs. The Newsletter had already been sent to choice editors. This action thus classes as in "advisory" capacity each club Executive Editor.

Committee news; Rog Camire, Frequency Recommendations Committee, reports much work and success in the past few months. Finnish Radio has shown to be cooperative, with their 100 Kw transmitter scheduled to return to 15155 kcs. The committee, which monitors broadcasts aimed at North America and advises on reception conditions to the broadcaster, lists now among recipients of counsel the following stations which are being received better thanks to Committee actions; London, Prague, Radio Nederlands and Bucharest Radio. These of course in addition to the dozens of cooperating broadcasters over the past years.

Dick Wood's QSL Committee has expressed concern to our Voice of America over their recent decision to discontinue virtually all local transmitter identifications. Such a step, disastrous to seekers of verifications from these soon-to-be-unidentifiable outlets, deserves all our support. Persons needing assistance along the lines of obtaining QSLs from some reluctant broadcaster, or those wishing to aid, may contact the committee via Wood at Dept of European Languages, University of Hawaii, Honolulu 96822. The chairman reports in addition that another committeeman has been added to the research team seeking to improve the Latin American verification problem-- Bob Hagerman of Hemlock, Michigan.

Convention time is but weeks away. The featured banquet speaker will be a Northwestern Bell Telephone Company representative speaking on communications and national defense. You'll have a chance to speak directly with an information officer of NORAD, The North American Air Defense Command, from NORAD headquarters in Colorado. The tour of SAC Headquarters is set, as well as a tour of a local broadcast outlet. A self-stamped envelope addressed to chairman Ernest Wesolowski, 1416 Pasadena Avenue, Omaha 68107-11 will do it



SHORTWAVE BROADCAST -CENTER-



DON JENSEN-EDITOR; 5204 70th St., KENOSHA, WISC. 53140

DEADLINE 15th OF MONTH

* * * * *

IMPORTANT ANNOUNCEMENT

It is with regret that I announce my resignation as SWBC Center editor, effective with this issue of *Frendx*. I took over this section of the bulletin two years ago, at the time NASWA became an all-SWBC club. I have enjoyed my work during the past two years and if it were possible I would enjoy continuing in this position. However, this is not possible. The editing of this section, or any section in *Frendx*, takes a considerable amount of time, probably far more than anyone not directly connected with the production of the bulletin can realize. For personal reasons it is no longer possible for me to devote the necessary amount of time to the job. You will have noted that the number of pages in the SWBC Center, those featuring articles on DXing topics, has decreased during the past few months. Rather than try to continue, with the prospect of poorer quality sections, I have decided to turn the task over to someone who can do full justice to the bulletin.

Fortunately, NASWA has such a person. Richard Wood, NASWA board member and long-time contributor to *Frendx* will now assume the duties of SWBC Center editor.

It is my intention to remain as a member of the NASWA board of directors, a post to which I was recently re-elected. I also will remain active in the area of NASWA country list operations and I hope to continue to submit articles as time permits, including fairly frequent features on clandestine stations, an area of major interest for me.

I thank each and every one of you who have helped me in my editing job over the last couple of years. Your contributions made a tough job a good bit easier. I trust you will continue to offer your fine support to the new section editor.

Please send your article contributions to Richard E. Wood, 1630 Ruth Place, Honolulu, Hawaii.

Best wishes and good DX to you all!

....Don Jensen

ANARC CONVENTION

Time is growing short if you haven't already made your plans to attend the ANARC convention in Omaha next month. Full details will appear elsewhere in this bulletin if you missed earlier announcements.

There are plenty of interesting things planned. New SWBC Center editor Richard Wood is coming from Hawaii. Yours truly expects to make the convention again this year. Plenty of others have indicated their intention to attend. It is possible we may even have a European visitor of high repute in Omaha. If you miss the convention you'll have only yourself to blame. It is open to all.

Also, its not too early to begin thinking about '69. If you'd like to host next year's convention in your home town, let your ANARC rep know now. If you are a bit nervous about offering because you don't know what's expected of you as host, don't be. There are plenty of people with experience who will be happy to advise you. ...Don J

CORRECTION

In last month's Clandestine Corner section it was reported that the mystery station Peyk e Iran had left the air.

This was erroneous.

The confusion arose because the Peyk e Iran station, a communist clandestine broadcasting, probably from Bulgaria, to Iran, is the same basic operation as Saut-ul-Sha'abi Iraqi, a similar service for Iraq.

What happened, apparently, is that the Iraqi programs of Saut-ul-Sha'abi Iraqi, or the Voice of the Iraqi People, ceased operations in February, but the Iranian transmissions continued.

For the political reasons mentioned in last month's article it is clear why the Iraqi programs had to end. But these reasons would not apply to Iran, hence the apparent reason why the Peyk e Iran broadcasts continue.

Sorry for the error.

FREE LIST

A free list of shortwave stations throughout the world and a free list of long and medium wave stations in Europe and Africa can be obtained by writing to Norddeutscher Rundfunk, 2 Hamburg, Rothenbaumchaussee 132-134, West Germany.

The listings are by frequency and are useful. Return postage isn't required but certainly is appreciated.

... Andy Rodan

DOUBLEDEALER

An American communist who headed the English section of Radio Peking was purged from that post late last year and charged with being a "counter-revolutionary doubledealer," a Red Chinese pamphlet seen in Hong Kong reported. The man was identified as Sydney Rittenberg, a U.S. citizen who joined the communist movement in China in 1946.

...Chattanooga Post, R. Williams

TWO DISTINCTIONS

The Gilbert and Ellice Islands, home of rare R. Tarawa, is the only territory to straddle the equator and international date line.

CHU - CANADA

Some listeners tend to overlook the standard frequency and time stations as listening targets. One such station is CHU, operated by the Dominion Observatory. The transmitters are located at 45° 17' 49" N., 75° 45' 22" W., about ten miles south of the observatory.

Three frequencies are used; 3,330 kc/s. with a dipole antenna with east-west lobes and a power of 3 kw.; 7,335 kc/s. using a vertical antenna and 5 kw. power; and 14,670 kc/s., with a curtain directional (315°) and a transmitter power of 3 kw. These three frequencies are synthesized from a rubidium frequency standard, which is referred daily to the Canadian cesium standard.

The second pulses are driven electronically from the same standard oscillator and consists of 200 cycles of 100 c/s tones. The beginning of each pulse marks the exact second. The zero pulse of each minute is a half second long and the zero pulse of each hour is a whole second long. The pulses occur one each mean second with the following exceptions: The 29th pulse and the 51st to 59th pulse inclusive of each minute are omitted. The first ten pulses of the first minute of each hour are omitted.

A voice announcement of the time occurs during the ten second gap between the 50 and 60 second marks. The announcement is "CHU, Canada, Eastern Standard Time, xx hours, xx minutes." In English, then French. The next minute the language sequence is reversed. On the hour the announcement is "hour exactly xx, heure precise xx." The announcements are on the 24 hour system and the time given refers to the next pulse.

CHU verifies with a stiff, glossy blue and white QSL card with a photo of the observatory on one side and the reception details on the other. Reports should go to: Dominion Observatory, 3 Observatory Crescent, Ottawa 6, Ont., Canada.

The station is interested in receiving reports and normally replies with a verification in a short time. IRC's, it seems, are not necessary, as the station has returned them to senders in the past.

MARCONI DID NOT INVENT RADIO

An American dentist named Mahlon Loomis invented radio in 1866, 8 years before Guglielmo Marconi -- who is hailed as the father of radio -- was born. Another American, Nathan Stubblefield, invented a wireless telephone, permitting not merely code, but voice communication, in 1882 -- when Marconi was an 8-year-old boy.

These two pioneers, Loomis and Stubblefield have been buried in obscurity while the world continues to regard Marconi as the inventor of radio, or wireless communication. During his lifetime, Dr. Loomis found the effort to raise money to back his invention an insurmountable task, so he went back to his profession of dentistry. Stubblefield took out patents, but was never able to profit from them and in the end he starved to death.

According to Professor Otis B. Young, atomic researcher at Southern Illinois University, "Mahlon Loomis was beyond reasonable doubt the discoverer and inventor of radio communication in the world."

Loomis was born in upstate New York in 1826. He studied dentistry in Cleveland and began practicing in Washington D.C. He had an inventive turn of mind. In 1854 when he was still under 30, he patented a process for making false teeth of porcelain. His thoughts turned to experiments with electricity, and especially its uses in communication. In a notebook entry dated Feb. 20, 1864, he wrote, "I have been for years trying to study out a process by which telegraphic communications may be made across the ocean without any wires, and also from point to point on the earth, dispensing with wires."

Loomis thought about the Morse telegraph system, which he had followed with interest. Morse first had used a double wire, then found he could eliminate one of them by grounding the apparatus and letting the earth form half of the circuit. Loomis decided he could do the same thing and also eliminate the remaining one. The electric currents in the sky would form half the circuit, the earth the other half. He wrote out a description of the entire system, including the aerial and spark-gap key. The date written on this description and sketch is July 21, 1864.

He demonstrated his idea in October 1866, with U.S. Sen. Samuel Pomeroy, Kansas, and U.S. Rep. John A. Bingham, Ohio, as witnesses. Both later supported his work on the floor of Congress.

Loomis wrote of his big experiment: "From two mountain peaks of the Blue Ridge in Virginia (Catochin Ridge and Bear's Den, in Loudoun County) which are only about 2,000 feet above tidewater, two kites were let up -- one from each summit -- 18 or 20 miles apart. These kites each had a small piece of fine copper wire gauze about 15 inches square attached to their underside and connected also with the wire, 600 feet in length, which held the kites when they were up. The day was clear and cool in the month of October with breeze enough to hold the kites firmly at anchor when they were flown."

"Good connection was made with the ground by laying in a wet place a coil of wire, one end of which was secured to the binding post of a galvanometer." (An instrument which records the passing of an electric current)

The equipment at both stations was the same and a time schedule for the test was worked out.

"It was arranged that at precisely such an hour and minute, the galvanometer at one station should be attached, or be in circuit with the ground and kite wires. At the opposite station the ground being already fast to the galvanometer, three separate and deliberate half-minute connections were made with the kite wire and instruments. This deflected, or moved the needle at the other station with the same vigor and precision as if it had been attached to an ordinary battery..."

"Although no transmitting key was made use of, nor any sounder key to voice the messages, yet they were just as precise and distinct as any that ever sped over a wire."

Professor Young calls this experiment the first known instance of wireless aerial communication.

Loomis did obtain a patent in 1872, but he spent the last 20 years of his life

(Continued next page)

INVENTION OF RADIO (Continued) - trying to get his invention accepted and used. A bill was introduced in congress to appropriate \$50,000 to support his work, but it never passed. A group of Boston financiers promised support soon after the first demonstration. But the "Black Friday" panic of 1868 wiped out the financiers. A few years later, in 1872, Chicago investors were preparing to help Loomis set up a wireless station in the Rockies, but they lost their fortunes in the great Chicago fire that fall. Loomis tried hard to sell stock, but nobody would buy; the times were too hard. He died in 1886, predicting that someone else would eventually reap the credit for his invention.

Nathan Bowman Stubblefield was born in 1859 in Kentucky. He was a farmer and though he had only a high school education, he tinkered with electricity from his early youth.

Stubblefield knew Alexander Graham Bell had patented a telephone in 1876, but there was none in the town of Murray, Ky. Stubblefield figured out how to construct one, and make it work without wires. He succeeded, with his limited resources. Marconi was then ten years old. In 1888, Stubblefield patented his Vibrating Telephone, a wireless communication.

But he was not satisfied that it was as good as it could be so he kept on experimenting. Meanwhile, word leaked to the world. Promoters, scientists and some swindlers too, were soon on his doorstep.

In January 1902, Stubblefield made his first public demonstration. The St. Louis Post-Dispatch devoted a full page to the story, and several thousand witnesses saw and heard a convincing demonstration of radio voice communication.

But there were earlier private demonstrations. In 1892, three years before Marconi first demonstrated his code wireless apparatus, Stubblefield showed his intention to Rainey T. Wells, attorney and ex-president of Murray State Teachers College.

Wells said, "Stubblefield had a shack about four feet square near his house, from which he took an ordinary telephone receiver, but entirely without wires. Handing me this, he asked me to walk some distance away and listen. I had hardly reached my post, which happened to be in an apple orchard, when I heard 'Hello, Rainey', come booming out of the receiver. I jumped a foot and said to myself, 'This fellow is fooling me. He has wires someplace.' So I moved to the side some 20 feet, but all the while he kept talking to me. I talked back and he answered me as plainly as you please. His voice sounded as much as a human voice sounds over a telephone today, but there were no wires."

ED NOTE: Photos show Stubblefield's "telephone" looking, as Wells indicated, much like an ordinary phone of that day, however a large, perhaps three-ft. diameter metal loop antenna was attached.

After his 1902 public demonstration, Stubblefield needed money to continue his experiments and set up his invention as a business. A company was organized in New York, the Wireless Telephone Co. of America.

James L. Johnson, of the Murray, Ky., Chamber of Commerce, studied the inventor's life and said, "Stubblefield traded all of his secrets for 500,000 shares of stock in a company that had been formed upon his ideas and had nothing except the price of stationery invested."

On May 14, 1903, Stubblefield found that his stock had been juggled so the books read his shares as being 50,000. He protested vigorously, but he never regained his lost stock in the company, a stock that was worthless in any case.

A man of honor, he put the interests of the innocent outside investors in his company ahead of his own. At the same time he tried to expose the company as a swindle, he signed over all his property to it so that minor stockholders should lose as little as possible. Losing his home to creditors, he built himself a tin shack where he lived out the rest of his life with only a cat for company. He was found dead there, of starvation, on March 25, 1928.

There is a marker placed by the Kentucky Department of Highways near his birthplace but outside of this local fame, he remains unknown and unsung today -- and so does Mahlon Loomis. Marconi, who came years after them, got all the fame and all the rewards.

GREENWICH: WHERE TIME BEGINS

Where does time begin? For all of us it begins at a one-inch strip of brass set in the floor of the old Royal Observatory at Greenwich, England, a town that is now a London Borough.

Why was Greenwich selected as the site to coordinate the worldwide time needs? The answer lies in the history of the most frequently asked of all questions -- WHAT TIME IS IT? Primitive man got a good enough answer by glancing at the sun. Then some inventive descendant got a more exact answer by roughly calibrating the shadow cast by a tree. Egyptians took the next step about 3,400 years ago with the water clock -- simply a bowl with a small opening at the bottom. As the water level dropped, time could be read from scorings along the sides of the bowl.

Sundials came along--crude affairs at first but finally refined down to pocket size. The Saxons used the tides for time measurement. At night burning candles helped measure the hours. Sand glasses were used to determine duty watches on ships. Finally in the 1300's, the first mechanical clocks came out of Italy.

These crude methods of measuring time were quite satisfactory until Columbus discovered America. Trading ships hugged the shores of the Mediterranean, North Sea and Indian Ocean. They could see where they were. But when they ventured out into uncharted waters, beyond the help of familiar landmarks, they were in trouble.

Measuring latitude--the distance north or south of the Equator--was simple enough. In northern waters, for example, one simply measured the elevation of the North Star above the horizon. In the south the same measurement is taken of any star whose position is known in relation to the South Pole. But finding longitude--the distance east or west of a given point--is another matter. Ship captains tried dead reckoning--charting direction and estimating distance traveled each day. But these were often wildly inaccurate.

Seafaring nations offered prizes to the discoverer of a precise means of determining longitude. It was mainly to solve this problem that King Charles II founded the Royal Observatory at Greenwich in 1675.

Bizarre schemes were suggested, but scientists soon realized that determining longitude was simply a matter of determining time accurately. It is apparent why time determination was so important. The earth rotates a full circle, 360 degrees, in 24 hours. Thus, it moves through 15 degrees each hour. Suppose a ship sailed west from Lisbon at noon on a particular day. Then, on the third day out, the captain "shot" the sun with a sextant when it was highest in the sky, which was noontime on the ship. If there was an accurate clock on board telling Lisbon time, and the captain found there was exactly one hour's difference between Lisbon's noon and shipboard noon, he would know that he had traveled 15 degrees. He would thus know his longitude--where he was on the earth.

In 1726, a young English Carpenter, John Harrison invented a clock which kept time to within a few seconds a month. Eventually he made the clock small enough and rugged enough for shipboard use. On a voyage from Britain to the West Indies, in 1761, the clock helped the captain locate Jamaica with an error of only $1\frac{1}{4}$ miles..an astonishing achievement.

This brought order at sea, but time chaos continued on land. Until the late 1800's there were 13 prime meridians, spots where time was supposed to begin. They ranged from Rio to Copenhagen to Stockholm. In the U.S. there were 70 standard times, which made railroad schedules meaningless. After many proposals, in 1884, the major countries of the world decided the globe would be divided into time zones which would run east and west from Greenwich.

Because of London smog and the night glow of neon signs, in 1957 the actual observatory was moved to Herstmonceux Castle in Sussex, and the old Royal Observatory became merely a museum. However, the little brass strip remains at Greenwich and GMT remains the world's time standard.

...Adapted from an article by
J.D. Ratcliff, submitted by
Cesar Objio

RADIO BOUGAINVILLE

By Richard E. Wood

Named in honor of the famous French explorer who discovered it, Bougainville Island is the principal island of the Solomons group. However, it is not administered as part of the British Solomon Islands, whose capital is Honiara, on Guadalcanal, but as part of the Australian Trust Territory of New Guinea.

Until now, therefore, radio listeners on Bougainville have been faced with the contradictory fact that the closest and most easily received station has been in a different administrative unit. Stations in Papua and New Guinea, on the other hand, were farther away and their programming not always relevant to, or understood by, Bougainville listeners.

The solution? The erection of a station on Bougainville itself, in the town of Kieta. Kieta is situated very close to an area which is being closely investigated by the Conzinc-Rio Tinto Company. It is suspected that there are large copper deposits in the area. The station is designed for broadcasting to the native people at village level. The Officer in Charge is Geoff Heard, and he has a Bougainville second-in-charge named Joseph Gohan. The remainder of the staff are Bougainville men of good educational background. Within a few weeks there should be seven operative announcers. At the moment, four of these announcers are being trained at Port Moresby. The station will regularly broadcast extension programs on health, agriculture, local government and many other important aspects of life in the Territory of Papua and New Guinea. There is extensive news coverage concerning happenings throughout the territory, overseas and of a purely local nature. All news is simplified, translated into pidgin, and broadcast in the form of regular news bulletins.

The station will feature a great deal of local traditional music which the Bougainville, naturally enough, rate fairly highly on their hit parade list. Some of the station staff have gone to great trouble to visit various villages and record this music which is, of course, authentic. The terrain of Bougainville is rugged and difficult to traverse. The only means of travel are by air, small boats

The object of Radio Bougainville, in common with the seven other operative Administration Broadcasting Stations, is to acquaint the village people with the changes going on around them. Their horizons are broadened by means of news broadcasts, interviews and all the usual methods employed in the area. A great attraction, of course, is the broadcasting in the local lingua franca, or, as in the case of other stations, in vernaculars applicable to the area. The decision as to which languages or linguae francae are to be used by the Administration Stations is very difficult. There are an estimated 700 different languages in the Territory, not including dialectal variations. However in Bougainville, practically everyone speaks Pidgin.

The author first heard Radio Bougainville on March 18, 1968, over a month before it officially went on the air. The formal opening was on April 20, 1968. The power is 2 kw., and the frequency 3,322.5 kc/s. Almost all programming is in Pidgin, and the best time to hear the station is prior to its signoff, which is at present 1030 GMT. Reports should be addressed to the Officer in Charge, Radio Bougainville, Kieta, Bougainville Island, Papua and New Guinea.

+ + + + +

BOOK REVIEW: "THE FUN OF SW RADIO LISTENING"

By Bruce T. Goldman

While waiting for five of my receiver's nine tubes to be replaced, I walked over to my dealer's book rack. As I scanned the titles, a bright blue cover caught my eye. The title, "The Fun of Short-Wave Radio Listening" caused me to pick it up.

The book, published by Editors and Engineers, Ltd., New Augusta, Indiana (#618), contains nearly 100 pages of useful facts. Its author is Len Buckwalter and the book costs a dollar.

It has many clear illustrations of receivers, transmitters, antennas, short wave accessories, QSL's, station personnel and what have you. There are also helpful charts and diagrams for the DXer. Fifteen pages are dedicated to a SW chart by country-city, though today this is a bit out of date. It was published in 1955.

Even so, it is a value for the beginner, and perhaps even for the more experienced.

PAGES FROM THE PAST - PART IIBY BARRY WILLIAMS

"This is London calling. You are listening to a news bulletin in the Overseas Service of the British Broadcasting Corporation." What comforting words - a sure sign that all is well. If you should detect a slight weariness when Robert Harris or Bob Dougal are reading the news, there is some justification for it. Do you know the conditions under which the BBC staff are compelled to work? At 1030 each night, a uniformed officer requests quiet from everyone in the great concert hall at Broadcast House - women on one side, men on the other - with curtains between them; They settle down to snatch what rest they can, or what repose is possible during a bombing raid. But there are others who are not sleeping. They are telling America from midnight til 6 a.m. what is happening in London. And right through the night news in every language is going out on the air, telling the truth, the truth that many a European risks the death penalty to hear, now going out in 30 foreign languages, occupying 144 hours a week in the telling, as compared to 16 languages taking 66 hours a year ago."

The above is an extract from the February 1941 edition of the Australian Radio World, containing a DX section run by the All Wave All World DX Club. Most of the DX news consisted of loggings; not much detail was given, but some interesting stations were mentioned. There were 22 reporters from both Australia and New Zealand. Noted among the names was A.T. Cushen, Invercargill, New Zealand, still very active today.

The loggings were listed by continents, starting with the Pacific area stations. Australia's overseas service was controlled by the ABC and many of the programs were relayed from the home network. All stations had individual calls, some of them being, VLQ8, 17,800 kc/s., Sydney; VLW3, 11,830 kc/s., Waneroo; and VLR7, 11840 kc/s., Lyndhurst. Fiji was heard with VPD2, Suva on 9,535 kc/s. There were two interesting loggings from New Caledonia. FK8AA, Noumea on 6,130 kc/s. was "putting in a nice signal lately and seems to have landed some good and new records." Radio Pacifique in Noumea also, was heard testing at night on 4,050 kc/s.

In Africa, TPZ and TFZ2, Algiers, were heard on the odd frequencies of 12,120 and 8,960 kc/s. Also on an odd frequency was OPM, Belgian Congo, on 10,140 kc/s. Others listed included FZI, Brazzaville, CNR2, Rabat, FGA, Dakar on 9,405 kc/s., ZOY, Accra on 4,915 kc/s., a frequency still in use, VQ7LO, Nairobi, CR7AA on 6,035 kc/s., ZRO, Natal and Radio Falange, Tangiers.

The Americas had some interesting catches. The most interesting thing was the number of Panamanian stations logged. They included HP5G, testing on 11,775 kc/s., HP5A, HP5J and HP5K, all on the higher frequencies. Costa Rica, El Salvador and Guatemala all gave good loggings. TG5JG, Guatemala City, 11,440 kc/s., was the most interesting of these. The USA was well reported with numerous call letters, such as WRUW, KGEI, KKZ, WPIT, WBOS, WCBX, WRCA and WGEO. Other countries reported were Mexico, Chile, Peru, Ecuador and Uruguay. VP3BG, Georgetown, Br. Guiana, was listed on 6,130 kc/s., as a possibility in winter time around 0715.

Next came the East. By far the most interesting country here was China. A number of stations were reported: XGOX, Chungking, 15,190 kc/s.; XGOY, Shanghai, 11,900 kc/s.; XGOK, Canton, 11,605 kc/s.; XPSA, Kweiyang, 8,540 kc/s., and XGRS, Shanghai, 12,030 kc/s. The latter announced as "The Voice of Europe," was pro-German and anti-British. Just before the German language session, it announced, "Deutsche Rundfunk Sender Shanghai." These privately owned stations must have been far more interesting than the Radio Peking we hear today. A country now off the shortwave bands today was Portuguese China, CRY9, Macao, on 6,080 kc/s.

The European stations included both Allied and Nazi-occupied countries, but little detail was given other than hours of loggings.

"Station Particulars" was a column giving brief station details. Kenya, VQ7LO was classified as one of the old reliables and the identification was given as "This is Nairobi calling." The station was owned and operated by Cable and Wireless Ltd. VQ2CM, Luanshya, Northern Rhodesia, evidently was a rare station and understandably so, with the schedule of 03-0330, Tues. and Sat. (Continued next page)

PAGES FROM THE PAST (Continued)

Details for Radio Tunis were given but a little note was included mentioning that mail was not being accepted by the post office for Tunis. Full schedules were given for Radio Clube de Mozambique and for the South African Broadcasting Corporation. A station included here was ZNB, Mafeking, Bechuanaland, 5,900 kc/s., a station of 250 watts that was on the air until recent years.

Another column featured new station information. An unknown station was reported as "The Christian Peace Movement" (Ed. note: German operated) heard in English from 5 to 6 a.m. on 9,440 kc/s. ZQY, Accra, Gold Coast, was opened on October 24th with low power as it was intended to cover the Gold Coast only. Aden was reported for the first time, ZNR noted from 3 to 4 a.m. with closing announcement of "This is ZNR Aden, Arabia, broadcasting on 12,115 kc/s. or a wavelength of 24.76 meters. We shall be broadcasting again tomorrow night at the same time."

SVM, Athens, Greece, had been logged on the new frequency of 9,935 kc/s. "At 0540 this morning, heard Athens in Italian, then at 0545 in English. 'This is Athens speaking. In order to ensure better reception in the United Kingdom we are broadcasting on a third wavelength, which is 30.16 meters or 9,935kc/s....'" It is interesting to note that in April the Germans invaded Greece.

EPB Teheran heard on 15,100 kc/s. until 1950 when DJL, Germany came on and put them out of business.

A clandestine station heard on 9,804 kc/s. is the German Freedom Station, ((Ed. note: British operated) opening with the familiar, "Achtung! Achtung!!")

By 1941, the Nazis and Italians had occupied most of Europe and North Africa. It appears that some of the occupied countries still had short wave transmissions, but Germany and Italy dominated the European scene, except for Great Britain. Again there appeared to be new stations coming on the air regularly. Mail service evidently was a problem and possibly verifying stations was difficult. The use of wavelength designations and the use of call letters were still common then. By the way, the times noted in this article are all Australian EST.

* * * * *

STATION VLI SYDNEY, AUSTRALIA

The Australian Broadcasting Commission operates five domestic shortwave stations in Australia and in Papua/New Guinea. Four of them will be covered in this series. The fifth, VLX, Perth has already been described in Frenx.

VLI is located in Sydney, New South Wales. Although Sydney is the largest city in Australia and has the second busiest harbor in the Southern Hemisphere, VLI operates on a rather small scale compared to the other regional stations. First of all, it uses only one shortwave transmitter, compared to two in use at each of the other regionals. Secondly, it uses low power, only 2 kw., while the other ABC SW outlets use 10 to 50 kw.

VLI uses a 49 m.b. frequency of 6,090 kc/s. It transmits from 2000 to 1407 GMT, Monday through Saturday, and from 2030 to 1407 Sundays. News is broadcast, Monday through Saturday at 0600 and 1355. While there are other newscasts, these are not mentioned since they probably would not be heard in the U.S. VLI also has a BBC newscast at 1300 GMT.

This regional service is called the First Network. Programming originates from studios in Sydney and is broadcast simultaneously by VLI and by 15 medium wave stations in New South Wales. The best time to hear VLI in Texas seems to be from 0800-0900 GMT.

VLI is a good verifier, like the other ABC stations. Reports go to ABC, Box 487, GPO 2001, Sydney, NSW, Australia. IRCs will help to speed up your reply. The author sent a report, with IRCs, to VLI and received an airmail reply in only nine days.

The QSL sent is the regular ABC card, which shows a map of Australia on a blue background. The borders of the states are shown and the state capitals are indicated by a white dot. The locations of all ABC stations, SW and MW, are shown on the card, with complete verification data on the reverse side.

....Steve Kamp

I A R O D N O T R U D O V I S O Y U Z

B Y G R E G G C A L K I N

Tuning to 6.4 and 11.55 mc/s. you hear an irritable, bubbling, rattling noise. The noise diminishes when you move the needle slightly to the right or left, and you are able to distinguish Russian. The speakers will be heard distinctly for a few minutes only to be drowned again in this unknown jamming. The station is Radio Free Russia, an operation of NTS, the National Alliance of Russian Solidarists.

The NTS station is operated by Russian exiles seeking to overthrow the regime that has held power in the USSR for over 50 years.

NTS has a history. It was founded back in the summer of 1930 at Belgrade, Yugoslavia by a group of young Soviet refugees. During World War II, as a matter of convenience, they worked with factions within the German military, but were not a Nazi organization. The organization is staunchly anti-communist and has an extensive non-broadcasting operation as well, with sabotage and espionage teams in Russia.

Radio Free Russia came on the air in December 1950, with a small homemade transmitter with a power of 38 watts. It was mounted on a small truck with barely enough room inside to stand. Having no poles or towers for antennas, they were strung from trees.

As the years went by the station improved. Responding to the appeal, donations came in from every corner of the globe. By spring 1953, it was able to acquire its own generator and control equipment. The personnel expanded and an editorial committee and a radio studio were organized. The station increased the number of its broadcasts. From the beginning, the communist government has sought to eliminate the voice by jamming and sabotage.

The station reportedly operates from mobile transmitters from within West Germany. Apparently the West German government closes its eyes to the operations. Though the station is quite weak, hence seldom if ever heard on this side of the Atlantic, NTS states that their programs have been received as far away as the Ural Mountains in Russia.

The station's address is Postbus 902, Rotterdam, Netherlands. They have verified reports with a white and green card showing two trucks with telescoping antenna masts on the roof. See illustration in this month's QSL column.

+ + + + +

DALEY LEAVES THE VOA

John C. Daley, head of the Voice of America, resigned on June 7, charging that efforts had been made by aides of the director of the United States Information Agency, Leonard H. Marks, to reassign senior VOA personnel while he was away on a six-week overseas inspection tour.

Daley, who took over the post of head of the VOA from John Chancellor on May 29, 1967, denied that there had been any attempts at censorship by the USIA in overseas broadcasts.

The USIA and the VOA have long been in dispute. The USIA has insisted on laying down policy instructions for U.S. news in the VOA overseas broadcasts and the VOA has insisted on retaining a measure of independence.

...Ray Mas

SPACE SIGNALS EXPLAINED

A Princeton University astrophysicist has offered a tentative explanation for the recently discovered pulsars -- pulsating radio signals from space-- whose origins scientists have been unable to explain. (See April Frenex)

Dr. Jeremiah Ostriker believes the signals may be coming from rapidly rotating white dwarf stars. He theorized that if a high energy disturbance similar to a sunspot occurred on the surface of such stars, the radio signals emitted from the disturbance would pulsate with the star's rotation.

...AP, via Rod Williams

Attend the ANARC Convention in Omaha!

BOOK REVIEW - "THE CODEBREAKERS"

"The Codebreakers", by David Kahn, The Macmillan Co., 1,164 pgs., \$14.95

"The dice are on the table." This phrase was one of the many code messages broadcast by the BBC on June 5, 1944, to inform French Resistance leaders the D-Day invasion was underway and that planned sabotage should begin. "The Codebreakers" is a history of such secret communications and, because radio has played a major role in this history, it is a book many NASWA members will find interesting. It is an ambitious book which goes back 4,000 years to the beginnings of hieroglyphic symbols in Egyptian civilization and ends with the modern day quest for intelligent communication from "other worlds." Lengthy, detailed descriptions of the methods of cryptography and cryptanalysis are included together with facts of the lives of men and women prominent in cryptology. Equipment used to encode messages is described and many sketches are included. As a result, this history book is thick, with over 950 pages plus 200 pages of references, notes and glossary.

But this is not a dull, dry history book, for the author has included a great many interesting little stories about all aspects of secret communications. There is a discussion of how codenames were selected for military operations in WW-II, including a memo from Winston Churchill on the subject; the use of "scramblers" by oil and ore prospectors who want to keep their operations secret is explained; the role of cipher telegrams in the disputed presidential election of 1876 is told; and there are even stories of Hollywood movie making. Many more tales such as these bring to the reader a greater understanding of the use and importance of codes in our world.

For the radio hobbyist this history and many of the stories hold special interest. As the author points out, radio made communications easier but it also made interception easier. And with the interception of large volumes of messages cryptanalysis, the breaking of codes and ciphers, really developed. Direction finding, traffic analysis, and identification of transmitter characteristics supported the code breaking and contributed to the total intelligence understanding. It was in WW-I that radio was first widely used and "brought cryptology to maturity", in the author's judgement.

There are just too many fascinating stories of radio to even be able to select a few representative ones to repeat here. Open the book almost anywhere after Page 299 and a tale of radio will be at hand. It may be a story of DX -- how the Axis learned of troop movements through MP traffic control messages in England -- a report of direction finding to ferret out spies, or just patient monitoring for coded messages.

Unfortunately, such a voluminous book must be expensive -- too expensive for a great many of us -- but look for it in your school or public library. It will be well worth your time.

....Frank Richardson

IN BAKU? WHO?

In reference to Richard Wood's article, VOA MOSCOW? in a recent Frendx issue, Peking shouldn't be surprised. The 1968 World Radio TV Handbook (page 336) lists a Voice of America 50 kw. transmitter, operating on 21,640 kc/s., as being located in BAKU!

...Art Poulis

WEBCOR PURCHASED

Interstate Department Stores (Topps Discount in the east, White Front in the West) has bought the inventory, name and patent rights of Webcor and tentatively plans to use it as a house brand. Webcor makes televisions, record players, tape recorders and radios.



QSL REPORT



NASWA QSL EDITOR
GREGG A. CALKIN

174 WATERLOO STREET
SAINT JOHN, NEW BRUNSWICK
CANADA

Deadline

Fifteenth

NEWS 'N NOTES

Radio Nederland, the "Happy Station" is about to issue a new QSL for the Happy Station Programme, broadcast each Sunday and world famous after 20 years of broadcasting. The card will feature a picture of the programme's MC, Eddy Startz and should make a fine addition to any collection, particularly if you are one of the faithful "Happy Station Programme" listeners. If you want one, log the programme, and send a report off to Hilversum. Radio Nederland advises us that return postage is not required.

Gerry Dexter of Rt. 1, Maple Road, Lake Geneva, Wisconsin is having trouble getting a report to Radio Tropicana, 4770, Quito, Ecuador. His original letter was returned as undeliverable. Can anyone supply Gerry, and the rest of us, with a correct address?

Scoreboard will again be run next month, so update your totals now. I would like to remind you that HIC/VIC refers to Countries heard and verified, and not stations. A couple of members have been confused on this point. There have been a number of suggestions for a new type of SCOREBOARD, and announcement of this will be made in the August QSL REPORT. Watch for it!

One member who was afraid that his report might not make the deadline of the 15th took the time and the trouble to phone it in. This might not seem so extraordinary, if that member did not live on the exact opposite side of the continent. Sincere thanks to Don Billingsley of California for his concern and interest in NASWA, and also for a very pleasant 10 minute conversation.

SECOND PRINTING

NASWA proudly announces the second printing of the now famous Foreign Language Reception Report Forms which NASWA has produced within the last year. The demand for these forms, available in Spanish, French and Portuguese was so great that the initial supply was completely exhausted and a reprinting was required.

If you are having a problem getting a verification for that rare country, then perhaps the NASWA form(s) is for you. If you haven't received your copy, write today to your QSL Editor, enclosing an IRC per form and a self-addressed envelope (9 1/2" x 4").

RECEIVED A QSL? SEND IN INFO ON IT TODAY! REPORT REGULARLY! DEADLINE: 15th MONTHLY

QSLs RECEIVED

Although a fine selection of QSLs have been received this month, and all are worthy of note, your editor would draw your attention to two in particular, from R. Atlantico in the Canaries and Tallinn in Estonia. Also, Martinique now verified by a definite QSL letter. Finally, note new Australian Solomon Islands!

ALBANIA: Radio Tirana, 7265/7300/6187, folding card, letter and sked in 2 months by airmail. Full and complete data (Gaharan, La; Berard, Kansas) in 13 wks registered (Padula, Australia) in 11 wks (Wasson, Pa.)

ALGERIA: RTA, Algiers, 6080, new card w/station emblem on front, specific verie text on reverse and aerogram for future rpts. Seamail in 2 months (Wood, Hawaii)

ANGOLA: Radio Diamang, 11685 kc/s, sends card airmail in 2 months (Kuparinen, Finland) Radio Clube de Angola, 9628 (nominal "9625"). Subsequent to letter, card now also received. States only date; 9 wks seamail (Wood, Hawaii)

ARGENTINA: LRX2, Radio El Mundo, 9710, card in 11 months after 2nd rpt via airmail; card stated freq./call; signer: Charles N. Cutler (Craighead, Kansas)

ARMENIAN SSR: Yerevan, small white card w/p/p/card via registered airmail in 2 months. For 17880; complete information (Lobdell, Mass.)

ASCENSION IS: BBC S. Atlantic Relay, 15140, card, sked in 1-2½ months via London. No verie data, on BB card. Stamps or IRCs sent (Cohen, Conn; Foulis, Mass; De Smith, Minn)

AUSTRALIA: Radio Australia, Melbourne, 7190/11710/17840, card w/photo of 2 Koala Bears, rpt forms (Rodau, N. Y., De Smith, Minn;) 6 wks seamail, plus sked (Hurst, Md.) 8 wks; 1)IRC (Wasson, Pa.) 4 months, No IRCs (Beggus, Ga) 86 days (Berard, Kansas) card w/photo of Waratah flower; 19 days airmail; 4 IRCs sent (Edmonds, Iowa)

VLX9, 9610, card seamail in 6 wks. 2 IRCs (Charnes, N. J.)

VLX15, Perth, card & letter in 79 days seamail. V/S: I. W. Greville. 2 IRCs Full QSL data (Frecosky, Ontario)

VLQ9, Brisbane, 9660, regular ABC card in 3 months seamail, plus sked.

IRC sent (Charnes, NJ) 2 months, complete info (Lobdell, Mass)

VLH9, Melbourne, 9680, card in 3 months seamail. 1-IRC (Charnes, N. J.)

VLI6, Sydney, 6090, card airmail in 9 days. 3 IRCs; full data (S. Kamp, Tex)

AUSTRALIAN SOLOMON ISLANDS: new country for NASWA? - Radio Bougainville, Kreta, 3322.5 kc/s; 2-page letter, airmail in 6 weeks. 1st in world?? (Wood, Hawaii)

AUSTRIA: Vienna, 9770, card airmail in 51 days plus detailed transmissions sked. Full data (Chicoine, P.Q.) 8 wks (De Smith, Minn) 5 wks (Moeller, Pa.) 7 wks; 2 IRCs sent (Beggus, Ontario)

AZERBAIDJAN SSR: Baku, 9840, card and p/cards registered airmail in 3 months for Home Service; contains complete data; came direct from Baku (Ryan, California)

BELGIUM: ORU, Brussels, 9615, card/sked airmail in 30 days. 1-IRC. Partial verie info (Weber, Ohio) 6125, blue, yellow and red and white card; 12 days (Anderson, Fla) 11 days airmail (Zamora, Texas) 10 days (Sizer, Conn)

BOLIVIA: Radiodifusora Los Andes, Tarija, 4775, long, interesting 2-page letter from Jaime Rollano Monje, Director Proprietario, w/magnificent pennant in 5 wks airmail (Wood, Hawaii)

La Cruz del Sur, 4985, 2 separate letter, card from Hazen C. Parent, General Director. Detailed QSL; airmail in 1 wk (Wood, Hawaii) in 7 days for 5025 kc/s new; airmail both ways; pennant too. Card is very attractive with antenna mast and concentric circles over a mountain scene of a llama and hut (Hirst, Texas) 5025 replaces 4985 (GAC) card for 1st day reception on 5025; 10 days (Glover, Washington) in 2 wks after f/up (Billingsley, California)

Radioemisoras Bolivia, Oruro, 4755 kc/s, sending 2 separate letters, card, brochures, etc. from Esperanza de Aillon, Secretaria Ejecutiva. Myriam Montero R., Directora de Relaciones Publicas. 6 months airmail (Wood, Hawaii)

BONAIRE: Radio Nederland, 9590/11730, flamingo card, sked in 2-4 wks via Hilversum. Another card shows aerial verification view of Hilversum studios. IRCs not req'd. (Kessler, Mass; Weber, Ohio; De Smith, Minn; Moeller, Pa; Barley, W. Virginia)

- BONAIRE: TWR, 9695, folder-type QSL in 12 days; with pennant, letter and sked. 3 IRCs sent; reply with religious folders by airmail. Full data (Chicoine, P. Q.)
- BRAZIL: Radio Aparecida, 9635, card and letter in 2 3/4 months from José Dinys. Airmail with full data. 1-IRC sent (Charnes, NJ) card in 3 wks (Craighead, Kansas)
- Radio Brasil Central, Goiania, sent letter in Portuguese and broken English via registered airmail in 3 wks for 4995; 3 IRCs; complete information (Lobdell, Mass)
- Radio Cultura de Araraquara, 4915 kc/s, letter, stamps and card from the Gerente in 3 wks airmail. (Wood, Hawaii)
- Radio Educadora de Parnaíba, 4825; letter and card, full details, from Luiz de França Rêgo, Gerente, air in 22 months without a follow-up (Wood, Hawaii)
- Radio Gazeta, 5955, view card in 3 months from Esther B. Palloni (Craighead)
- Radio Guarani, FRH-6, card registered mail in 2 wks for 6175. Date and freq. given only. 3 IRCs (Lobdell, Massachusetts)
- Radio Nacional, Rio, 6145, card and Pennant showing Rio from air by airmail in 5 weeks. Complete data. IRC sent. (Osborne, Ontario)
- Radio Pioneira, 4885, letter, no details from Pedro Mendes Ribeiro, Diretor Artistico. Air in 4 months (Wood, Hawaii)
- Radio Rio Mar, 9695, letter in 1 month (Craighead, Kansas)
- Radio Sociedade de Feira de Santana, 4765, w/card & pennant airmail in 5 wks.
- V/S: Fr. Agatangelo de Crato, Dir. Gen. SASE sent (Field, Michigan)
- Radio Sociedade Farreupilha, Porto Alegre, 9730, card in 3 wks (Craighead)
- Radio TV Gaucha, replied airmail in exactly 2 wks. 6135 kc/s. Letter in Portuguese signed by Glenio Peres, Diretor. Also sent a car transfer "canal 12"; rpted in Portuguese w/IRC (Padula, Australia)
- Radio 9 de Julho, 9620, letter and 2-sided view card in 1 month registered.
- V/S: Cgo. Christofaro, Diretor-Geral. (Dexter, Wisconsin)
- BULGARIA: Sofia now issuing new set of 6 QSL cards. One shows color pic of Sofia University. For 9700 in 3 months via registered seaimail (Brammer, La) 3 1/2 months; full data 2 IRCs (Beggs, Ontario) 4 months, no IRCs (Boggus, Ga; Carson, Pa;); 15 wks for 7670 (Peters, Illinois) Odd frequency Frank? (GAC)
- BYELORUSSIAN SSR: Minsk confirmed with card via Moscow for North American Service as 15150. 49 days airmail. (Macken, Mass)
- CAMBODIA: La Voix du Cambodge, 9695, letter in 6 wks. Sent return postage and US stamps (Craighead, Kansas)
- CAMEROUN: Radio Yaoundé sent 2 cards and letter via airmail for 4972.5 in 2 months.
- V/S: M. Kamdan. Mint stamps sent (Lobdell, Massachusetts)
- CANADA: CBC, Montreal, 9625/11720, card in 2 1/2 weeks from B. Duke; No IRCs req'd (Kragy, Pa; Silverstein, N.Y; Barman, Illinois)
- CFCX, Montreal, 6005, card by 1st class mail in 95 days. Return postage sent; no time (Weber, Ohio) 3 months seaimail; 1-IRC (Spieler, N. Y.)
- CFRX, Toronto, 6070, card surface mail in 6 days showing new city hall. V/S: Clive Eastwood. (Hurst, Md.) (De Smith, Minn; Berard, Kansas)
- CHNX, Halifax, 6130, white card in 10 days; IRC (Berard, Kansas)
- CKZN, St. Johns, Nfld; 6160, card in 1 wk; regular CBC regional card (Craighead, Kansas; Osborne, Ontario)
- CANARY ISLANDS: RNE, personal letter in Spanish from: Juan de Rojas in 16 wks; also pennant for 15365. 1st rpt sent to Pascual Souto in Madrid. 2nd sent to Canaries in English. 3 months (Hagerman, Michigan)
- Radio Atlantico, 9400, sent red card, w/islands of Canaries in gold raised relief; w/English text "greetings to listener to Radio Atlantico". In 10 wks 2 IRCs (Peters, Ill) Very good, Frank - a rare one (GAC)
- CENTRAL AFRICAN REPUBLIC: Radio Bangui sent card in French in 15 wks by airmail for 5035 kc/s. Reported in French and recvd OCORA card with sked on reverse. (Hagerman, Michigan; Kuparinen, Finland)
- CHINA: Peking, 15060, card, "Red Bk", magazines, in 59-90 days. Card shows drawing of Mao. No data, No IRCs (Kessler, Mass; Kragy, Pa; Andrews, Iowa)

COLOMBIA: La Voz del Espinal, 6095, card of bullfight w/pennant in 4 months airmail. V/S: J.A. Yara Villarreal; SASE sent (Field, Michigan)

La Voz del Pueblo, Pereira, HJGR, 5995, card in 3 weeks on 3rd try, w/ pennant. V/S: Dolly Agudelo M., SASE sent (Field, Michigan)

Ondas del Meta, 4885, letter and large pennant from Gabriela Gantiva C., Secretaria. In 4 weeks airmail (Wood, Hawaii)

Radio Villavicencio, 4875, letter in 3 wks (Craighead, Kansas)

Emisora Nueva Granada, Bogota, 6160. Form letter, stamps and attractive pennant from Jardany Suarez Ramirez, Vice-Presidente. Air in 2 wks (Wood, Hawaii)

CONGO REP: ORTF, Brazzaville, 11725, usual card from Paris w/"Brazzaville" typed on it. 6 wks airmail. V/S: D. Bloch (Silverstein, N. Y.) 15190, 8 wks direct. 2 IRCs; full data (Cohen, Conn) 11725, 1½ months (Stuart, Okla) 45 days, card shows map of Africa (Barman, Illinois) Replies either direct or via Paris (GAC)

CUBA: Radio Habana, 9525, card airmail in 10 wks. 1-IRC; full data (Wasson, Pa) in 6 months with letter of apology for delay (Carson, Pa)

Voice of Vietnam relay sent letter acknowledging reception; promises QSL to come (Semenec, Alberta)

CYPRUS: BBC relay, 7140/9625, regular BBC card in 89 days seamaile. No IRCs (Precosky, Ont) 52 days (S. Kamp, Texas) normal Big Ben card sent via London (GAC)

CZECHOSLOVAKIA: Radio Prague, 7345/9630/11990 kc/s, card showing a 17th C bldg, by airmail from Vladimir Kucera in approx 1 month (Moeller, Pa; Chaffee, Pa; Wasson, Pa; De Smith, Minn; Lobdell, Mass; Artiss, Michigan)

DAHOMEY: Radiodif. du Dahomey, 4870, colorful card in French in 15 days seamaile. Sked on reverse. Back of card identical to Bangui (Hagerman, Mich; S. Kamp, Texas) in 5 months; IRCs (Glover, Washington)

DENMARK: OZF, 15165, very attractive multi-colored card in 2 wks airmail from S. Jackson. Also sends "Voice of Denmark" folder (Moeller, Pa; Menna, Pa)

DOMINICAN REPUBLIC: Radio San Juan, 3375, 2nd card from this station airmail in 30 months. Appears to be making up backlog (Wood, Hawaii) 5 wks, SASE (Field, Michigan)

Radio Hit Musical, 3385, card and sked in 2 wks airmail. Mint stamps sent. Complete data (Osborne, Ontario)

HISD, 6090/9505, white p/card from Universal Being Corp, Exclusive Agents for HISD, mailed from NY. Written in English and Spanish, time varies up to 2½ months. Sked promised but not yet received. Reports sent to Santo Domingo. (Poulis, Mass; Jinkinson, Ont; Anderson, Fla; Caldwell, Calif; Silverstein, N.Y; Lobdell, Mass; Calkin, New Brunswick; De Smith, Minn; Menna, Pennsylvania)

ECUADOR: HCJB, Quito, 11915/15115, card, sked, religious material by airmail in 21-41 days. V/S: Herbert F. Jacobson. No IRCs; Full data (Carson, Pa; De Smith, Minn; Moeller)

La Voz de los Caras, Bahia de Caraquez, 4795, letter from Marcelo Nevarez F., Studio Engineer. Airmail in 1 year after f/up. (Wood, Hawaii)

Radio Quito, 4923, letter, pennant in 77 days airmail. V/S: Leonardo Fonce M. 2 IRCs sent (Weber, Ohio)

HCAU2, Sistema Emisoras Atalaya, Guayaquil, 4600, letter and pennant in 10-20 wks. V/S: Gladys Kocher Hermida, Secretaria. IRCs (Craighead, Kansas; Peters, Ill.)

ENGLAND: BBC, 7235, card airmail in 49 days. Usual BBC card of Big Ben (Jinkinson, Ont)

ESTONIAN S.S.R. Eesti Radio, Tallinn 402, sent card with full data in English in 2 months for 6065 kc/s. Signed by the Foreign Relations Board of Radio Tallinn, and initialed. They also sent B&W photo of Tallinn townhall. Reported by registered airmail in English. 4 IRCs sent. (Calkin, New Brunswick)

ETHIOPIA: ETLF, Addis Ababa, 11920/15135, card & sked in 4-7 wks airmail. V/S: B. Svensson. Full data; IRCs sent (Wasson, Pennsylvania; Homan, Missouri)

FINLAND: FBC, Helsinki, 2 cards - one from FBC and one from Finlands DX-Club. Both have full verie info; Club card wrongly says I heard their program (Sizer, Conn°) its always sent OM (GAC) for 15155 kc/s, (Kennedy, Maryland)

FRANCE: ORTF, Paris, 15445, card seamaile in 3 months. IRCs sent (Gaharan, Louisiana; De Smith, Minnesota; Edmonds, Iowa)

FRENCH GUYANA: ORTF, Cayenne, 3385, letter and sked from A. Guillaume, Le Chef des Services, by airmail in 1 month. Inspecific QSL data (Wood, Hawaii)

G.D.R. Radio Berlin International, 9500/9600/21540, card of '64 Olympic Football team and other olympic stars. V/S: Paul Lindner; full data; IRCs sent. 2½-3 months. (Jinkinson, Ont; De Smith, Minn; Beggs, Ontario; Wasson, Pennsylvania)

G.F.R. Deutsche Welle, Köln, 9650/11925/11945, card & sked in German in 4-20 weeks. Full data. V/S: Thiele (Jordan, Georgia; Carson, Pa; Chaffee II, Pa; De Smith, Minn; Barman, Illinois)

Die Bayerischer Rundfunk, 6085, card and booklet in 6 wks airmail. 3 IRCs sent (Field, Michigan) 1st rpt from Hawaii; 3 wks airmail (Wood, Hawaii)

Süddeutscher Rundfunk, 6030, letter in German from a Mr. Berner. 1st report from Hawaii - 3 weeks airmail (Wood, Hawaii)

GHANA: Radio Ghana, 9760/11850/17910, card & sked in 3 months airmail from O.D. Omash. Full data; 3 IRCs (Trigilio, Conn; Gaharan, Louisiana; Hurst, Md; De Smith, Minn; Rodan, New York)

GUATEMALA: La Voz de Guatemala, TGWB, letter in Spanish for 6180 in 7 days. Date and frequency given. V/S: Eva Piedad Sandoval. Mint stamps sent (Lobdell, Massachusetts)

GUYANA: Radio Demerara, Georgetown, 5980 sent p/card type QSL with date and freq given. V/S: F.S. Bowen. 35 days airmail (Edmonds, Iowa; Padula, Australia) 4 wks (Osborne)

HAITI: 4VEJ, Cap Haitien, 11835, card, sked and memo book in French in 9 wks. 1-IRC (Hurst, Maryland) & Osborne°)

HONDURAS: HRVC, 4820, card/form letter in 13 days airmail. 2 IRCs. Full data (Cohen/HRHR, La Voz de Occidente, Santa Rosa de Capan, 5960, letter in 6 weeks by airmail. V/S: Arturo Rendon Pineda (Craighead, Kansas)

HUNGARY: Radio Budapest, 7100, card, sked, letter and magazine in 3 months seamaile. IRCs sent. Full info (Jinkinson, Ontario) 11910, 2 months (Chaffee II, Pa) 9833, 5 wks; no IRCs (De Smith, Minnesota)

INDIA: AIR Calcutta, 4820, card seamaile in 13 weeks. 4 IRCs (Peters, Illinois)

INDONESIA: 8FB62, Djakarta, 6045, card in 2 months from "Mrs. Susie" (Craighead, Kansas) YDK, Ambon, Moluccas, 7140, verified direct by card in 3 wks after f/up. (Craighead, Kansas)

RRI, Sukarnapura, W. Irian following earlier vague letter in Dutch, a specific 3-page letter in Indonesian from Iskandar Soeksmana. 5 months seamaile. (Wood)

IRAN: Radio Iran, letter and copy of "Iran Today" via registered airmail in 2 months. 15135 kc/s (Lobdell, Massachusetts)

IRAQ: Radio Baghdad, 7180, yellow p/card printed in German, French and English. Map of Iraq on one side and condensed prog. sked. Full data. 3 months; no IRCs (Sia, Hawaii) for 6095 in 2½ years!!! (Matthews, Pennsylvania)

ISRAEL: Kol Yisraël, 9009, card & sked in 7 wks seamaile. 3 IRCs. Full data (Spieler, NY)

ITALY: RAI, Rome, card airmail in 3-11 wks. Card features a colorful drawing of antennae and Italy in background. Full data. Some replies seamaile. (Carson, Pa; Wasson, Pa; Barman, Ill; Hoeller, Pa.)

IVORY COAST: Abidjan, 6015, card seamaile in 1 month after f/up. Date of report, not of reception given (S. Kamp, Texas)

JAPAN: Radio Japan, Tokyo sends usual pretty cards & sked, pennant, calendar, rpt forms, etc. Varies from 12-61 days. Full data. (Edmonds, Iowa; Precosky, Ont; Kessler, Mass; Kagy, Pa; Chaffee II, Pa; De Smith, Minn; Osborne, Ont; Arties, Mich; Horie, Indiana; Barman, Illinois)

KUWAIT: Radio Kuwait, 5976.5, card airmail in 6 weeks. 3 IRCs. Full data (Field, Mich)

LAOS: Radio Nacional Lao, 6130, card in 12 days airmail. IRCs (Sparks, California)

LEBANON: Radio Lebanon, Beirut, sends card (p/card drawing of studios), plus thank-you note by registered airmail in up to $3\frac{1}{2}$ months. Sked sent often. For 11785/11925/11875/15440. (Wasson; Kagry; Caldwell; De Smith; Brammer, Stuart; Doonan; Berard)

LIBERIA: VOA/Monrovia, 7195, card by 1st class mail in 2 wks. (Spieler, New York)

ELWA, Monrovia, 11950, card and tract in 6 mos. Full data (Semenec, Alberta)

LITHUANIAN SSR: Radio Vilnius sent card with flowers on front via airmail 3 wks. No IRCs, and rcvd direct (Padula, Australia) 11790, 2 months. V/S: St. Vilkas (Miller Mo.) 11980/9780, 2 cards and nice note (Berard, Kansas)

LUXE BOURG: Radio Luxembourg, 15350, card, all details, seamail in 5 weeks (Wood, Ha.)

MALDIVES IS: ILBS sent back my own prepared card, plus their own, for 4740 in 10 wks after f/up. Rpted by registered mail, including mint stamps. Card is printed by mimeo process on plain green card signed by the Director. Front has emblem of country with drawing of island group. Sked too (Padula, Australia) Very good Bob (GAC)

MAIL: Bamako, 9745 kc/s, card in 2 months. Mint stamps sent (Billingsley, California)

MARTINIQUE: Fort-de-France, sending now the personal letter from M.J. Dupre, the Regional Engineer. This letter contains definite QSL statement and is the one promised in the earlier vague QSL letters sent out. (Billingsley, California) Rpted in French, replied in French; mint stamps sent; for 3315 (Hagerman, Michigan)

MAURITANIA: Radio Mauritania, 4850, card & letter in French from André Marrill, whose wife collects stamps. $5\frac{1}{2}$ months. (Kuparinen, Finland) 5 wks, rpted in French; 5 IRCs (Matthews, Pennsylvania)

MONACO: TWR, 7295, letter & sked seamail in 3 months. Full data (Trigilio, Conn) 11 wks, folding-card QSL seamail; 2 IRCs (Poulis, Mass; De Smith, Minn) $2\frac{1}{2}$ months; mint stamps (Zamora, Texas)

R. Monte-Carlo, 7140, card airmail in 7 wks. 3 IRCs; full data (Field, Mich.)

MOROCCO: VOA/Tangier, 17855, card by 1st class mail in 4 days. V/S: Opal Lau. Date verified only (Weber, Ohio)

NETHERLANDS: Radio Nederland, 11730, replied new card showing their studios; also sent their Spanish/English dictionary which I had requested. 1 month (Zamora, Texas)

NEW CALEDONIA: Nouméa, card for 7170 in 2 mos. This was a taped rpt with letter in French (NASWA form). Card is a plain white p/card with full data. (Schmabel, N.Y.) 6 wks, french card, 5 IRCs (Matthews, Pennsylvania)

NEW ZEALAND: ZL3, 11780, card, sked & tourist brochures, 'tiki-pin' in 2 months seamail. 3 IRCs. Complete information (Gaharan, Louisiana)

NIGERIA: Radio Lagos, 15255, card showing Nigerian flag and sked from Mr. Harold Foote, C.E. by seamail in 4 months. Full data (Caldwell, California) 15120, 2 months air (Gaharan, La) 4 wks 15275 (Boggus, Ga.) card specifying Ikorodu transmitter location w/sked and booklet. 15120/22 weeks (Dexter, Wisconsin)

NORWAY: Radio Norway, Oslo, p/p/card showing ski-lift in Norway, quarterly publication, and bookmark from Mr. Thokle. 3 months airmail. 17825 (Caldwell, California) 11850 (De Smith, Minn; Miller, Mo;) full data; no IRCs (Kennedy, Maryland)

PAKISTAN (W): card and carbon letter for 17945 airmail in 121 days w/signer: Maud Chureshi via Rawalpindi. 1-IRC (Macken, Massachusetts)

PAFUA: VLT4, Port Moresby, 4890, p/card type showing block map of Australia on a blue field indicating call letters of the ABC network. 14 days airmail. 4 IRCs (Edmonds, Ia)

PARAGUAY: Radio Teleco, 11852, sent Paraguay pennant (49 cm!) and friendly letter in Spanish in 17 days by airmail. 1-IRC sent. V/S: Justo B. Roa, reporter de noticias (Kuparinen, Finland)

PERU: Radio Arequipa, 5950, letter no details, and blue and silver pennant from Rufino Zuffiga G., Gerente. Airmail in 2 months (Wood, Hawaii)

Radio La Cronica, Lima, 9520, attractive illustrated program, very specific from Juan Silva Villacorta, Gerente, airmail & registered in 5 weeks (Wood, Hawaii)

Radio Santa Rosa, letter in Spanish for 10045 in 3 weeks. V/S: F. Francisco Villena C., O.P., Director (Chicoine, F. C.)

PHILIPPINES: VOA/Poros, 15210, card surfaced mail in 6 days. V/S: Diane Schott. Date & transmitting site only (Cohen, Conn) Be thankful for that. hi (GAC)

United Nations Radio, 17830, card all details, but transmitter location not specified, in 2 weeks. (Wood Hawaii)

FEBC, 9545/11850, cards by air in 2 & 3 wks respectively. IRCs sent.

(Craighead, Kansas; Berard, Kansas)

POLAND: Polskie Radio Warsaw, 7205/9655/9675/11870 sends card (map series), sked, FDC, etc in up to 3½ months. Full QSL data given. V/S: S. Nowocien, Ed-in-Chief. (Artiss, Stark, Precosky, Silverstein, Weber, Edmonds, Menna, Sizer, Macken, Matthews)

PORTUGAL: Lisboa, 11935, 2 cards airmail in 110 days. Complete data, very large and beautiful map card; DX-Club info and rpt forms too. (Chicoine, PQ) 7 wks (Wasson, Pa) 2 months (Doonan, Wisconsin)

Radio Safari, 6025/11935, card signed by R. Ginbey, direct from S.Africa in 2 months seamail. 2 IRCs sent. Full data (Foulis, Massachusetts) 2 mos (Charnes, NJ)

RHODESIA: RBC, card, 3306, 2 wks (Craighead, Kansas)

ROMANIA: Bucharest, sent card showing 15th century church and letter, sked and wallet calendars by airmail in 4 wks. Full data (Caldwell, Calif; De Smith, Minn) 11940, card showing different sections of Romania (Zamora, Texas) 1 month (Field, Michigan; Hurst, Md; Menna, Pa; Macken, Mass; Matthews, Pa)

RUSSIAN S.F.S.R.: Moscow, 9665/9700/11870, card & sked airmail in 4 wks airmail. No IRCs. Full data (Jordan, Georgia; Wasson, Pa) sent rpt to Moscow asking to forward one to Pyongyang (Chicoine, P. Q.)

Address for Radio Peace and Progress is simply Moscow, U.S.S.R.

(Matthews, Pennsylvania) Thanks Bill (GAC)

ASIATIC: Radio Moscow relay, Petropavlovsk, 17880, card in 46 days confirming transmission for N.A. No IRCs (Macken, Massachusetts)

RWANDA: Deutsche Welle, Kigali, very attractive card, sked in 4½ wks (Brown, Mich) for 17765 via Köln in 2-3½ wks (Weber, Ohio; Berard, Kansas)

SAO TOME: Radio Clube de São Tomé, 4807, w/rpt forms, listeners mag. and info on DX-Club in 9 wks via Lisbon. (Field, Mich) in 2 months w/pennant direct from: Carlos Alberto Ferreira Dias. 3 IRCs (Field, Michigan)

SAUDI ARABIA: Riyadh, 11950, card in 3 wks airmail from Werner Story, CE. Full data (Field, Michigan)

SENEGAL: Dakar, 9720, card in 15 days. 2 IRCs. Full verie info. (Stuart, Oklahoma) for 15115 in 3 wks airmail (Osborne, Ontario)

S. AFRICA: Radio RSA, 11875/6075/9705, colorful card seamail from the CL in "-12 wks. (Hoeller, Pa; De Smith, Minn; Doonan, Wisconsin; Barman, Illinois)

SPAIN: RNE, Madrid, sent color card showing xmtrs, conols and listing stations in Spanish network, with sked in Spanish, by seamail in 5 wks. Date only given. 3 IRCs (Michalenska, RI) 9760, 9 days airmail (Peters, Ill) w/beautiful silk pennant (Caldwell, California) V/S: Enrique Pascual (Mochizuki, Hawaii; Ferdue, Calif; De Smith, Minn; Wasson, Pa; Artiss, Michigan; Lyon, NY; Menna, Pennsylvania)

SWAN ISLAND: Radio Américas (now defunct) has sent cards and pennants, from a F. Coleman (or Collamore) to 15 of our members. One member, Dr. Caldwell of California reports his is postmarked direct from "Swan Island".

SWEDEN: Sveriges Radio, 5990/11705/11805 with attractive card, sked, SCDX bulletin in 2 weeks average (Spieler, De Smith, Wood (Indiana), Chaffee II, Beggs, Barman, Doonan, Wasson, S. kamp, Chicoine,)

SWITZERLAND: I.C.R.C., 7210, card airmail in 15 days for their test transmissions. (Jinkinson, Ontario)

SBC, Berne, 6015/9535/11715, card showing scenes of Alpes, of man shotting crossbow and other Swiss scenes. Time up to 1½ months from D.A. Johnson. (Jordan, Ga; Precosky, Ontario; Chaffee, Pa; De Smith, Minnesota; Osborne, Ont; Artiss, Michigan) 3965 kc/s, card, all details, air in 3 months (Wood, Hawaii)

SYRIA: Damascus sent form letter plus sked for 20290/15165. Registered seamail, in 2-4 months; QSL in Arabic and English; IRCs sent (radula, Australia; Lobdell, Mass.)

QSL REPORT

presents



Q
S
L

O
F

T
H
E

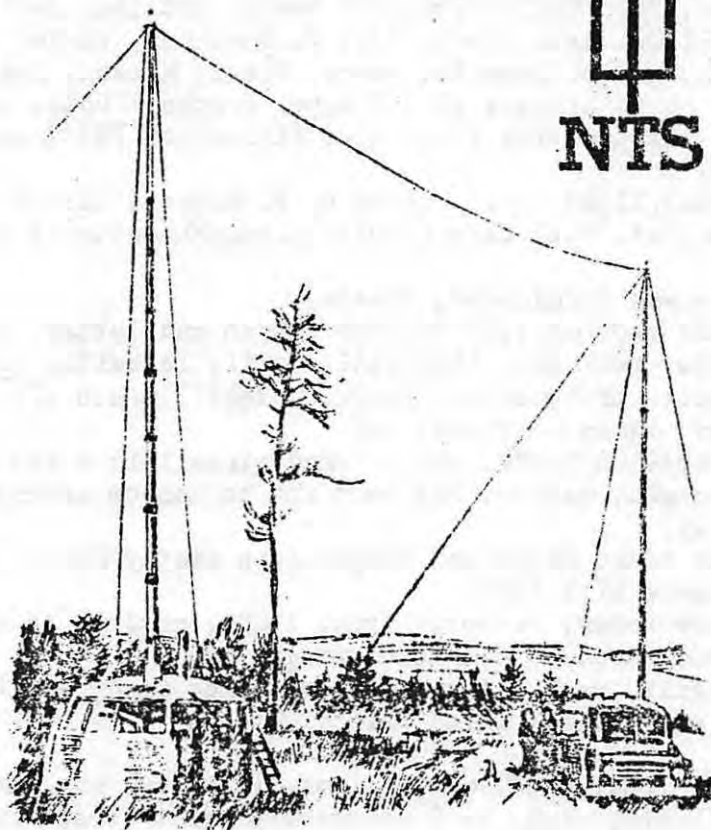
M
O
N
T
H

Q
S
L

O
F

T
H
E

M
O
N
T
H



„Свободная Россия“
radio-station
„FREE RUSSIA“

Following last month's Clandestine "Radio Luzkadi" QSL, we present a second and somewhat rarer Clandestine, from Narodno Trudovi Soyuz, "Radio Free Russia". Operating in Western Europe from VW vans, they are a very rare catch in North America. Programs from NTS are sometimes relayed by Radio Libertad, and in this way can occasionally be heard in North America. Elsewhere this month, in SHORTWAVE CENTRE is an article on NTS.

o o o o o o

TAIWAN: BEC76, 7200, card & personal letter in 10 days airmail. Date and QSL statement. V/S: Wang I., Station Master. IRCs sent (Churchill, Calif) 5998, (Wood, Hawaii)
THAILAND: Educational Broadcasting Station, Bangkok, 6062, letter from Khunying Ambhorn Meesook, Director of Educational Information, by air in 5 months. 1st from this station? (Wood, Hawaii) Congratulations. Richard (GAC)

Thats it for July. More next month. Report today. Best 73s es DX, GREGG



NEWSROOM

DAN HENDERSON, EDITOR
8806 HUNTING LANE, APT.103
LAUREL, MARYLAND 20810

Deadline 15th of Month

All times GMT

* * * * *

A brand new FRENDX/NEWSROOM welcome to the new Shortwave Centre editor, Richard Wood!! Welcome, Dick, and I know that NASWA will continue to grow and prosper under your capable guidance just as it did under Don Jensen's!!

Our Man in India, B. H. Manohar, reports that Radio Singapura may be heard with news in English from 1530 to 1543 on 5052 khz with very good reception. (B.H. Manohar, Lucknow, India).

Radio Portugal sends the following schedule, valid until September:

To the U.S. from 0200-0245 in English on 9680, 11935, and 6025 khz; from 0300-0345 to Canada on 9630 khz; to Great Britain from 2045-2130 on 7130 and 6025 khz; from 0730-0900 to Australia in English on 21495 and 17880 khz; to South and East Africa in English from 1815-1915 on 17895 khz; and to North America from 0345-0415 on 9680, 11935, and 6025 khz. (Radio Portugal via Chris Stark, Canada).

A.A. Jinkinson reports that La Radio Nacional de Colombia sends a broadcasting schedule valid currently as follows: From 1120-0300 on 4955 khz with music, news, and Spanish programming, at a power of 50 kw.

Radio Bucharest sends the following schedule, valid from May 5:
To North America from 0130-0230, 0300-0330, and 0430-0500 on 15380, 15250, 11940, 11885, 11810, 9590, and 9570 khz. (Radio Bucharest, direct from the station).

Elisora Nueva Granada, Bogota, on 6160 khz, is now on a 24 hr sked.

The following current schedule has just been received from ORTF, Paris (English broadcasts only):

To Africa from 0615-0630 on 3232 4795, 5970, 9730, 11725, and 15445 khz; from 1100-1115 to Africa on 11970 and 15445 khz. All the above transmissions are via the Brazzaville relay station. Paris transmissions heard at this time are on 17825, and 21650 khz, to Africa.

Their new address for English language mail is as follows:
M. Otadar Hajek
Service de Langue Anglaise-D.R.E.
Maison de l'ORTF, Bureau 6535
116, Av. de President Kennedy
Paris XVI (France). (ORTF, Paris, via Douglas Anderson, Florida).

TIQ, Radio Casino, Puerto Limon, Costa Rica, is now operated by Long-Distance International Radio, an American missionary organization. A long sign-off announcement in English prior to 0600 close-down expresses desire for cooperation with DXers and DX clubs, and shows understanding of the DX hobby. The station seeks information on reception and promises to endeavor to improve signal strength in all areas from which it receives reports. Reports in English are welcome and no return postage is required. The frequency is 5954 khz. (Richard Wood, Hawaii). Fine report, Dick!

Radio Belgrade sends the following schedule: from 1530-1600 on 11740, 15230, and 9620 khz; from 1830-1900 on 6100, 7200, and 9620 khz; from 2000-2030 on 6100, 7200, and 9620 khz, with another broadcast at 2200-2215 on the same frequencies. (Radio Belgrade via Doug Anderson).

Please put your names and addresses on EACH AND EVERY SKED sent!!!

Radio Brussels, Belgium, sends the following current schedule, valid until September 1:

To Africa from 1000-1215 in French, Dutch, and Congolese on 17860, 21510, and 21590 khz, from 1600-1715 in the Congolese languages on 11715, 17860, and 9740 khz; from 1815-1830 in Dutch and French on 17860 and 9740 khz; from 1830-2100 in French and Dutch on 11715, 17860, and 6010 khz; from 2115-2205 in French and Dutch (beamed to South America) on 15335, 9615, and 6010 khz; In English from 0050-0100 on 9615, 6125, and 6010 khz; with Sunday Sports programs heard in French and Dutch from 1330-1630 on 21510, 17860, and 6010 khz, and from 1645-1715 on 11715, 17860, and 9740 khz. (Radio Brussels, via Doug Anderson and Alvin V. Sizer).

All India Radio sends the following schedule of AIR's Home Services, valid until 1 September: Bhopal, on 4990 khz, until 0215; from 0230 on 5990 khz; Afternoon (Local time) broadcasts are on 7180 khz, with evening programs on 3315 khz.

From Bombay until 0215 on 4840 khz, after 0230 on 7240 khz, afternoon transmissions on 9550 khz, with evening and night broadcasts on 4840 khz.

From Calcutta, until 0145 on 4820 khz, after 0200 on 7210 khz; with afternoon transmissions until 1000 on 9530 khz, with evening transmissions on 4820 khz.

From Delhi on 3365, 6190, 7290, and 3905 khz. From Gauhati on 4940, 5970, 7280, and 3375 khz. From Hyderabad, on 4800, 7140, 9720 khz. From Jammu on 3345, 5960, 7160, khz. From Kurseona on 4895, 7230, and 3355 khz. From Kohima on 4850, 7170, and 6065 khz. From Madras on 4920, and 9590 khz. From Srinagar (Kashmir) on 4860, 7270, and 3277 khz. (All India Radio via George Schnabel).

Radio Beirut, Lebanon, sends the following current schedule, valid until September 1:

In English from 0230-0300 on 15280 khz. In Arabic from 0300-0330, and in Spanish from 0330-0400, on the same frequencies. (Radio Beirut).

George Schnabel reports that Kol Israel has been noted on 9625 instead of the announced 9725, from 2045-2130 daily.

Doug Renwick reports that AIR's General Overseas Service can be heard from 2245-0045 on 9740 khz, from 2245 to 0115 on 11710 and 15235 khz, and to Northeast Asia from 2245-0115 on 11965 from 0030-0115 on 15105 khz, and 2245-0015 on 9615 khz. Transmissions to Australia and New Zealand from 1000-1100 on 15165 and 17705 khz and to NE Asia on 15105, 17800, and 21615 khz. (All India Radio via Doug Renwick).

Deutsche Welle, Germany sends the following schedule, valid at the present time: To North America from 0130-0250 on 9640 and 11945 khz in English and French; from 0445-0545 on 9545 and 11945 khz, from 1045-1055 on 11905 and 15315 khz; and from 1900-1910 on 11795, 15405, and 17790 khz.

To West Africa (via Kilgali) from 0545-0630 on 11905 khz; from 1200-1245 on 17765 khz, and from 1745-1845 on 17765 khz. (Deutsche Welle, via the station and Tom Waldron, Jr.).

F.E.B.C., Manila, has introduced a new language, Esperanto. On Thursday from 1100-1115 and Sunday from 2145-2200 with both transmissions on 11920 khz, beamed to the Far East. (This may be in reaction to Radio Peking's introduction of programs in the International language). (Richard Wood).

Radio Jordan, Amman, is scheduled on 7155 khz at 0330-0745, 1030-1230, 1400-1830, and 1845-2300; on 9530 khz at 0930-1345; on 9560 khz at 1400-1830; on 11810 khz at 0330-2300; on 15170 khz at 2330-0030. (Richard Wood).

United Nations Radio broadcasts of interest via the VOA, Phillipines Xntr are scheduled as follows: from 0230-0245 (Tuesdays and Saturdays) on 17830 and 15210 khz, and from 0845-0900 on Dixon's Xntr on 9740 khz and 5985 khz, and from the Phillipines from 1000-1030 on 17825 and 15090 khz. (UN Radio).

That's all for now. Thanks to all reporters, and keep all reports CURRENT please!!
73. Dan Henderson



LOG REPORT

DEL HIRST, EDITOR
202 BIRCH STREET
SNYDER, TEXAS 79549

Deadline 15th of Month

All times GMT

ALL TIMES GMT

- 23540 USA AFRTS Delano, 2x11770, sporadic-E opening; deep fades & TVDX de WC also (Hauser)
- 21790 S. AFRICA June, R. RSA here, out of band; why? (Hauser)
- 21740 AUSTRALIA R. Australia hrd 0115-0230, v.g. (Lachman)S/on NA 0100 (Hooser)
- 21740 ENGLAND BBC on NF w/WS at 1100 (Padula)
- 21715 USSR R. Moscow w/HS 1100A //21725; since beginning of May (Padula)
- 21700 CZECH'KIA R. Prague s/on Eng to AMZ 0700, //21450 (Wood)
- 21610 LEBANON Beirut 1830-1900 Eng, move from 15350 (Berghammer)
- 21610 ENGLAND BBC NA Ser. 1600-1615 fair (Waldron)
- 21595 CANADA R. Canada Eng to Eur 2100 //15320, 17820 (Murray)Good 2300 (Padula)
- 21580 FRANCE ORTF, new, 0000-0030 Port to Braz.,//11845, 15120, 17730 (Berghammer)
- 21570 VATICAN R. Vaticano 0030 Sp, new fq. //15285, 11760(Laveaga) S/on 2330(Padula) //17860 (Berghammer)
- 21570A HOLLAND R. Ned. nx in Sp; s/on 2100-2114 off (Murray)
- 18312 HAITI Voix Rev. Duval., 3x6104 str, invasion day; raucus vocals 0115, ID 0134; 0138-0140 break in xmsn (Hauser)
- 17950 EGYPT Cairo N-F, 1810 ID Arabic (Niblack)
- 17945 PAKISTAN W. R. Pakistan IS 1333, s/on by W. 1335; dictation speed nx in Eng to 1349, s/off 1350 by W; hrd most mornings (M.Kamp)
- 17910 GHANA R. Ghana, Accra, 1505 nx pgn, fair (Bacon)
- 17880 MALAYSIA BBC Tebrau 0000-0030 WS to NEA (Berghammer)Close w/local ID 1329 // 15435 (Hirst)
- 17880 ECUADOR HCJB 2100 s/on Eng w/DX Party-Line, Mon. to Eur; story on VOA/Delano by A. Balbi (Michalenka)
- 17865 SYRIA R. Damascus 2300-0000 s/off Arabic, some Sp to LA //15165, 15290(Berghammer)
- 17860 BELGIUM RTB, Brussels, 1720, again 2015, Fr(Rowell)Fr ID, anthem, off 1259 (Hagerman)
- 17860 UZBEK SSR Tashkent (list) 1600 Eng, good (Bacon)S/on lang 1303 (Hagerman)
- 17847 PAKISTAN W. Karachi, Eng nx 1500 (Wood)
- 17845 SWITZERLAND SBC 1830 Rel. pgn, hvy QRM WNYW(Bacon)//15180 Afr (Ed.)
- 17840 AUSTRALIA R. Australia 0230 ID, poor (Henna) 0250 to NA, fair (Waldron)
- 17828 CEYLON Colombo, 1100, w/Eng Ser., seemingly new (Padula)
- 17825 NORWAY Oslo excel. 2224 w/Eng ID (Henna)
- 17820 TURKEY The Voice of Turkey 1415, Letter-box, 5/28 (Saman) To S.Asia, Eng, het CBC, Moscow (Berghammer)
- 17801 POLAND Warsaw w/IDs & Polish 0100, NF; het AFRTS 17800 (Padula) Freq. used to Afr; new time, unsked (Ed.)
- 17793 CHINA Peking, new morning Eng ser 0500, 0600, 0700 //15290 (Wood)
- 17790 S. AFRICA R. RSA 1800-50, Fr to Eur (Rowell) 1900 Afr Survey, nx (Saman)
- 17765 RWAND. DI relay, Kigali, 1915 Fr pgn, good (Bacon) Eng (Di Leo)
- 17750 LEBANON Beirut well hrd 0020 w/Sp, Arabic 0030 (Padula) 0000-0100 to LA; ex-17715 (Berghammer)
- 17750 HOLLAND Hilversum w/NF 0130 Dutch to NA //17810 this time (Padula) //11945 (Berghammer)

- 17735 FRANCE ORTF 1300 Fr //21580, 21620, 21645 (Berghammer)
 17730 FRANCE ORTF Paris in Sp 0200, very good sig (Laveaga)
 17720 CANADA CBC 2330 Port to Braz. new (Berghammer) Repl. 11945; //15190, 9625 (Ed.)
 17710 USSR R. Moscow, sounds like Eng to Carib. 0000-0030, tlk about Guyana (Berghammer)
 Khab. also list FBIS (Ed.)
 17700 ESTONIA SSR Tallinn (list) relay Moscow Sp to LA 0200 (Wood)
 17630v CHINA Peking 0300 Eng to ECNA, ex-17680; //17795, etc. (Berghammer)
 16250A N. KOREA R. Pyongyang, 2319 Sp; 2329 ID (Hauser)
 15450 E. GERMANY RBI 0330-0415 Eng WCNA //15225, 15315, ex-15190 from 6/5 (Berghammer)
 15445 SWEDEN S/on Eng, strong 2245 (Padula)
 15445 CONGO REP. ORTF, Brazzaville, local ID 0630 (Wood)
 15445 BRAZIL R. Nac. Brasilia 2330, usual pgn (Schnabel) S-9, 0030 (Jamison) 0130, ID
 after every selection (Sizer) 0045 ad for "Bonnis & Clyde" (Hagerman)
 15435 TANZANIA Dar-es-Salaam, Eng nx 1700, into Myanja 1715 (Wood)
 15430 S. KOREA Seoul 0400 Eng to NA, to 0430, poor; good until 3 wks ago (Caldwell)
 15425 AUSTRALIA VLK15, Perth 0720, Eng, sports (Rowell)
 15400 ETHIOPIA ETLF 1330 Eng to India, good dly (Bacon)
 15400 ASCENSION IS. BBC Relay 2029-2045, good w/Quiz Show (D'Angelo)
 15385 PHILIPPINES FEBC, Manila 2330-0030 Eng to SEA (Berghammer)
 15382 ROMANIA Bucharest on N-F, Eng, 0200 ann. for 15360 (Niblack)
 15380 RWANDA DW Relay Ger 2300 to Afr, to 2330, excel. (Waldron)
 15380 PAKISTAN W. R. Pakistan, wk w/Eng 2010 to 2030 s/off (D'Angelo)
 15360 E. GERMANY RBI 0330-0415 Eng s/off //15225 //15190 (Ahrendts)
 15360 CANARY ISLANDS En. Nac. 0200 Sp pgn, 0330 Sp to LA (Caldwell)
 15358A USSR (Eur) R. Peace & Progress, 1438-1503 fair in Eng, IS, then lang (D'Angelo)
 15320 HOLLAND R. Ned. 2230-2245 Sp nx to LA, new (Berghammer)
 15320 AUSTRALIA R. Austr. 0230 to NA //17840, both excel. DXers pgn 0430 Sun. GMT,
 to Afr (Hirst)
 15315 PAKISTAN R. Pakistan 1045-1145 Hindi, Eng, Tamil to S. Asia (Berghammer)
 15315 ETHIOPIA ETLF 1331 slow nx to India, in Eng (Hauser)
 15310 MALAYSIA BBC Tebrau 0900-1000 WS to S, SEA //11750, 11955 (Berghammer)
 15305 SWITZERLAND SBC start Eng 0130 //11715 //9535 (Ahrendts)
 15285 VATICAN Vatican R. s/on Sp at 2357 (Dexter) Nx of RTE, s/off 0100; s/on 0110
 Fr (Breedon) 0103, clobbered Cuba (Hagerman)
 15280 LEBANON Beirut, usual brilliant best, 0130-0400 to NA (Padula) Eng 0230 (Di Leo)
 To NA & W. Eur (Barman)
 15280 MALAYSIA V. of Malaysia, Kuala Lumpur 0030 Eng nx, s/off 0645 (Jamison)
 15265 AFGHANISTAN 1730, Kabul w/Ger; Eng distinguished 1807, terrible sig (Schnabel)
 Ger 1730, Eng to Eur 1800 (Wood)
 15265 INDIA AIR, Delhi good 2300 Eng ID, into nx (Menna)
 15245 BRAZIL ZYB21, R. Marajoara, Belem, live sports in Port 1805 (Lobdell)
 15245 CONGO D.R. Kinshasa, Afro/Cuban nx 1900 (Wood) 2345 w/nat. nx (Ias)
 15245 USA KGDI 0300 Sp nx to LA; ExR 0306 (Murray) QSY from 15240 0200 nitely, covers
 then a Fr spkr, believe to be Kinshasa (Nordgren)
 15240 USA KGDI, San Francisco 2300 s/on Russ; 2330 s/on Eng blocked by Vatican R.
 (Michalenka)
 15240 SWEDEN Hörby, Ger to Afr 1730 (Wood)
 15235 INDIA AIR (M?) S-9 at 0200 w/Eng, unlist my sources (Jamison) New fq. w/nx
 in Eng by W. 0230 (Niblack) Nx 2305 comment. 2310 (Hagerman) NF, Eng 2310 (Padula)
 Repl. 15265 (Berghammer)
 15230 CEYLON Cm. Svc. w/pops, ads in Eng, time quotes from 0215 t/i (Niblack) Eng sked
 to India 1650-1700 s/off; WRTH sked 1230-1645; fine sig (Palmer) 0206 jazz, ID
 (Hagerman)
 15220 S. AFRICA R. RSA fair 1250 to ANZ w/ID (Menna) S/on 0955, new xmsn (Padula) 1225,
 het (Waldron)
 15210 PHILIPPINES VOA/Toro 2330 Eng to SEA (Berghammer)
 15200 FRANCE ORTF opens 0230 w/multi-lang arrng (no Eng) M-F to SA (Niblack)

- 15197 CHINA Peking, new Fr ser to Eur 0500, 0600, 0700 (Wood)
- 15190 CONGO REP. ORTF, Brazzaville 1930 Fr, excel (Bacon) Eng nx 1915 (Di Leo)
- 15185 FINLAND Organ mx, Swedish ID 1701, poor, 5/26 (Hagerman)
- 15180 ETHIOPIA ETLF 0430-0500 Fr to Congo, new (Berghammer)
- 15180 AUSTRALIA ABC, sports 0430 //15220, new fq. (Wood)
- 15180 BRAZIL R. Cultura da Bahia 0130, Port lx & mx (Caldwell)
- 15160 HUNGARY Budapest 2300 in lingo on seldom hrd freq. (Niblack)
- 15165 DENMARK V. of Denmark; Eng to NA 1255, sked 1245-1317, better at 1305 (Waldron)
- 15165 SYRIA R. Damascus, nx, Eng tlks 1533, 5/30 (Lyon) 1530 Eng nx, loud & clear (Nordgren)
- 15165 CHINA Peking, Eng to NA, 0300, new fq. this ser (Wood)
- 15160 TURKEY R. Ankara ID 1830 in Ger after 6 pips (Wilkner) Nx, Eng tlk 2206 (Lyon)
- 15155 VATICAN 0050-0105 Eng to ECNA //11760, 17860, ex-15285 6/1; splatter de Moscow (Berghammer)
- 15155 BRAZIL R. dif. Sao Paulo, Eng pops, Port ID 2338 (Hagerman)
- 15155 LIBERIA ELWA, IS, Eng s/on 1659 (D'Angelo)
- 15150 USSR IS and "Hovorit Kiev", 2230; genuine or relay? (Niblack) Moscow s/on 2300 to NA, list as Minsk; Macken has QSL confirming; anyone else confirm? (Calkin)
- 15150 SAUDI ARABIA Jidda 0400, Arab mx, good lvl (Sizer)
- 15135 IRAN Teheran Eng nx 2000-10; chamber mx! (Schnabel) Arabic 1815, Eng 2000 5/16 (Wilkner) Sked Arabic 1830 (Ed.) Eng s/off 2028, drifts (D'Angelo) Unint. drum beat armt. that due Moslem mourning period there would be no mx; 5/25 (Sizer) Rptd. abroad as clock ticking; sounded like drum to me (Ed.)
- 15130A USSR R. Vilnius, Lith., w/Eng tlk, 2246; Simferopol list (Hagerman) R. Moscow IS & s/on 2300; this freq. not anncd; obviously SFE relay (Hirst)
- 15125 SWITZERLAND SBC at 2315 s/on Port, seemingly to Brazil, on W-F (Niblack) Port 2315, Sp 0030 (Padula)
- 15125 BRAZIL R. Soc. da Bahia, 1930 sound of Big Beat, ORTF JRM (Schnabel) Sports event 1925 (Dexter)
- 15110 E. GERMANY RBI 0205 in Port, prob. to Brazil; pretty het w/Mexico (Niblack)
- 15105 ENGLAND BBC NA Ser, new freq around 1430-1445, 6/3 (Waldron)
- 15105 JAPAN NHK 1558 IS, then Jap/Eng ID (Wilkner) 1700 Eng nx (Bacon)
- 15100 PAKISTAN R. Pakistan 1335-1350 Eng dict. nx to IE //11875, 17945, 21590; QRM (Berghammer)
- 15080 CHINA Peking, Cantonese to NA 0300 (Wood)
- 15050 CLANDESTINE R. Libertad 0230, 5/26, loud & clear (Schnabel) 2242-2320 w/3 IDs Eng/Sp; carrier on ther, but off during Sp IDs; jamming? (S.Kamp) 0226 full Eng/Sp ID (D'Angelo) ID 0232 (Barman)
- 15040 INDIA AIR GOS 1000-1100 Eng to ANZ //17705, ex-15165; very readable (Berghammer)
- 15030 CHINA Peking wk in lang 2046-51 (D'Angelo)
- 15015 N. VIETNAM Hanoi, Viet nx 1900 (Wood)
- 15000 JAPAN JJJ Tokyo clearest ID ever hrd here 1700, 6/2; YL w/high tones over WWV, WWH, LOL (Berghammer)
- 15000 CHINA Peking CPBS 1st. Pgm, illegally on standard frequency 0900-1100 //7190, 9060, 9080, 11100, 11290, 11330, 12110 (Wood)
- 14459 RYUKYU IS. VUNC, Deragawa, 1440 march mx; not list 167 IFL (Hauser) 14460 Asian lang 1800 amts & lite mx; s/off 2100, wk but clear (Murray)
- 12005 EGYPT R. Cairo 2145, lt. mx, World Press Review (Saman)
- 12000 USSR "Hovorit Kiev" at 2230; into lang nx (Niblack)
- 11990 CZECH'KIA R. Prague in Eng 0100; Port 0200 (Loser)
- 11975 RUMANIA Bucharest 0430-0500 Eng to WCNA // others (Berghammer)
- 11965 PAKISTAN R. Pakistan 1945-2030 Eng to UK //15332, ex-11885; QRM Japan (Berghammer)
- 11965 ENGLAND (or relay?) BBC 0330 Sp nx (Glover) FBIS list London; prob BBC/Mar (Ed.)
- 11950H PARAGUAY R. Encarnacion, 0000 nx in Sp; many ads incl. some, 2 IDs, nice lvl; up in freq (Niblack) Singing comm's. 0100, ID (Hirst) 11940, fair to poor to 0208 s/off; hvy QRM DM (Calkin)
- 11950 LIBERIA ELWA, Konrovia, Eng sermon (Wood)

- 11945 ENGLAND BBC, "London at Six", 1700 to Eur. (Wood)
- 11945 W.GERMANY DW, 0445-0545, Eng to NA (Rowell) Eng nx 0135 (Moser)
- 11935 PORTUGAL Em. Nacional 0100-0200 (Laveaga)
- 11930 PHILIPPINES VOA/Malolos 0945 Eng to SEA (Berghammer)
- 11925 PORTUGAL Em. Nac. 0540, Port., 6/5 (Rowell)
- 11925 UZBEK SSR. Tashkent 1200 Eng to India //9600 (Berghammer)
- 11925 W. GERMANY DW in Ger. at 0100 (Laveaga)
- 11920 PHILIPPINES FEBC, Manila, Ukrainian sermon 1715 //11855 (Wood)
- 11910 HUNGARY R. Budapest at 0115 in Eng(Laveaga) 0300-0400 Eng //9330(Caldwell)
11907 drifting, to NA, //11885, 11940 (Wood)
- 11910 THAILAND NES 1130-1200 Malay (Berghammer)
- 11903 INDONESIA (Java) R. Angkatan Udara, full ID, s/off 0801(Wood)s/on 1000(Berghammer)
- 11900 MALAYSIA V. of Malaysia, Kuala Lumpur, 1330-1500(Laveaga)1045 Indonesian //6175, which is stronger(Berghammer)1400-1500 Cantonese (Hirst)
- 11900 SAUDI ARABIA Arabic spkr. here w/clear IDs just before s/off, 2330 to 2338; nat. nx, M-F (Miblack)(Palmer)
- 11890 PHILIPPINES FEBC, fair lvl 0910(Jamison) 0900 ID "Manila Calling", into FEBC nxcast(S.Kamp) 0900-1000 Eng to NZ ex-11855 (Berghammer)
- 11890 ETHIOPIA ETLF, R.V. of Gospel, Eng nx to W. Afr. 0530 (Wood)
- 11884 RUMANIA Bucharest, M-F to NA in Eng, staggered freq; ancd. 11880, is not (Miblack) 11885, Yiddish to NA 0230 (Wood)
- 11880 AUSTRALIA R. Australia w/fair sigs 0905 //11810 (Jamison)
- 11870 POLAND R. Warsaw fair 0315 w/ID, ID (Menna)
- 11865 SWITZERLAND R. Switzerland 1130 (Saman) To UK & Ireland(Ed.)IS 1927(Hagerman)
- 11860 NORMAN NRI, s/off after "Norway this Week" Mon. 0435 (Wood)
- 11860 ASCENSION IS. BBC Relay Eng, 0445, good sig(Lyon) Early; sked 0500 (Ed.)
- 11857.5 S. AFRICA Springbok R. 0630-0700, spurious radiations of nom. 11865, shifting rapidly; incl. 11860, 11865, 11872.5, 11880, 11887.5, 11895, 11907.5, 11915, 11920...RSA has done this before (Wood)
- 11855 PHILIPPINES FEBC, 1630, rel. in Russ., strong (Rowell)Ukrainian sermon 1715 //11920 (Wood)
- 11850 NORWAY (slo fair 0306 w/Eng ID, into lang(Menna)0300-0430 Norsk, ID Eng(Rowell)
- 11850 GHANA Accra, 2005, nx, 2015 ID, 6/1 (Wilkner)
- 11843 N. VIETNAM Hanoi 1200 Cambodian, not dual 9760, 11753, 15015 (Berghammer)
- 11840 N. VIETNAM V. of Vietnam, reading list of AIs in Eng 1327, 6/2 (Hauser)
- 11835 CLANDESTINE (Algiers?) R. Portugal Libre 0105 s/off; Portuguese to Portugal, Conny talk; 5/29 (Berghammer)
- 11835 ALGERIA (Tent.; 1955 M. spkg, no clear ID; M. in Fr. 2005, not Haiti (Wilkner)
- 11835 CEYLON(?) VOA outlet good 0100; loc. unknown, VOA has deleted JTH from anmts, apparently(Padula)Is Colombo sked from 0045-0330(Ed.)0230 Eng to SEA(Berghammer)
- 11820 MEXICO R. Exito, Nemosillo active again, pops 0540(Wood) New name; hrd relay baseball from NYW 2030; beer ads; ID "BH", MW outlet (Hirst)
- 11820 MOZAMBIQUE RCM 0430 s/on Port. //6115 (Berghammer)
- 11815 BRAZIL R. Brasil Central, sound effects, ID 0902 (Hagerman)
- 11815 POLAND R. Warszawa, 2130 Mailbag, Polish nx(Saman) Sked Eng to Eur. (Ed.)
- 11810 RUMANIA Bucharest, s/on Eng to NA //many others (Wood)
- 11805 BRAZIL R. Globo ID 0001, nxcast; nx to 0030; ads 0032(S.Kamp)0010 loud(Murray)
- 11800 CEYLON Colombo, Indian duet 1415(Wood) 1100 s/on Hindi, Tamil Comm. Ser. (Berghammer)
- 11800 GHANA R. Ghana, Fr. talk 1730 (Wood)
- 11795 BRAZIL R. Nac. Rio, Port. at 0000, nx, nx, loud (Murray)
- 11795 USA MINB, Red Lion, Pa., Eng to Mediterranean; s/off 2200, fair (Murray)
- 11790 CHINA Peking 1000-1100 Russian//6025, 6290(strong)etc. all jammed(Berghammer)
- 11770 NIGERIA V. of Nigeria, Lagos, Fr. talk 1930 (Wood)
- 11765 CANADA CBC, Eng to Eur. 0715, repl. 5990, //9625(Wood)0420 Fr. (Berghammer)
- 11760 VATICAN Vatican R. Eng to NA s/on 0250 //5285, 17860 (Murray)
- 11735 MOROCCO 1945 tlk in Arabic; W. 2005(Palmer)ID, then nx 1854 (Menna)

- 11735 NORWAY NRK, "Norway this Week" C400 Mon. (Wood) Eng ID C330 (Murray) Not in summer sked (Berghammer)
- 11730 HOLLAND R. Nederland Eng to NA 2100-2150 (Murray) //17810 (Waldron)
- 11730 IRAN Teheran, s/on 1800 (Wood)
- 11725 CONGO REP. ORTF, Brazzaville, Eng nx 0615 (Wood)
- 11720 BRAZIL R. Nacional w/pops, complete ID 2345; some Eng noted; QRM (Niblack) Port ID, march mx 0956 (Hagerman) Port nx 0045 (Nordgren)
- 11720 VATICAN Vatican R., IS 1800 (Wood)
- 11715 SWITZERLAND SBC 0445-0545, Eng to WCNA //9720 (Rowell)
- 11712 ARGENTINA RAE 2245 Fr to Eur //11780 (Berghammer)
- 11710 AUSTRALIA R. Australia 0715 LBJ sends decorations to "Aussie" Battallion in S. Viet (Rowell)
- 11710 CONGO REP. R. Brazzaville at 0000 w/Eng nx (Daley)
- 11700 VATICAN Vatican R. Eng to Afr s/on 1710 (Wood)
- 11655 EGYPT Cairo, Voice of Arabs, Arab tlk 1750 (Wood)
- 11415 CLANDESTINE (Assumed USSR) Peyk-e-Iran, Persian tlk; harp arpeggio also used on R. Moscow, 1750 (Wood) App. not closed down after all (Ed.)
- 10226 CHINA Sian (Tent.) YL/OM hrd in HS, 1425; IFL lists fixed circuit here (Hauser)
- 9912 INDIA AIR Delhi, 2210 at end of nx w/S-5 sig (Jamison)
- 9780A ALBANIA Peking 0100-0156 Eng to ECMA; Tirana IS & ID by mistake before Peking pgm took over, 5/16 (Barman)
- 9770 AUSTRIA Vienna 0100 w/multi-lang ID, then Sp pgm (Barman)
- 9760M ALBANIA Tirana, N-F in Sp 2345, s/off just prior 2400; may vary (Niblack)
- 9760 GHANA Accra 2000-2015 w/Eng nx, 6/1 (Millner) Eng tlk 2000 (Di Leo) Eng 2030 (Waldron)
- 9765 W. GERMANY DW, Cologne, IS from 2100, Eng 2110-2200 to ANZ (Waldron)
- 9745 ECUADOR HCJB 0230 Mon. w/DX Party Line //11915, 15115 (Poser) Tues. G.T. (Ed.)
- 9745 MALI Banako, soccer commentary in Fr, 1800 (Wood) Fr ID, organ mx 0611 (Hagerman)
- 9730 E. GERMANY RSI Eng to 0312 s/off (Lyon)
- 9730 CONGO REP. R. TV. Cong., Brazzaville, Fr accordion mx 0530 (Wood)
- 9720 SENEGAL R. Sénégal, Fr ID, nx after time chck, 0702; what is power? (Hagerman)
- 9720M CHINA R. Peking, N-F w/Eng 0250, tlk on "imperialism", off w/antherm (Niblack)
- 9710 ARGENTINA LRX2, R. El Mundo, Sp nx 0400, then class. mx, 6/11 (Sparks)
- 9705 S. AFRICA R. RSA 0230-0320 Eng to PCNA //11875, 9530, 6075 (Rowell) S/on 2330 (Padula)
- 9705 FRANCE ORTF 1030 s/on Fr //17740; new, to W. Indies? (Berghammer)
- 9700 FRANCE ORTF, Eng nx 0515, s/off 0530, new fq. (Wood) Vy. strg.; relay? (Barman)
- 9695 NETH. ANTILLES TWR, Bonaire 0230-0345 Eng (Rowell)
- 9690 VATICAN Vatican R. 0053 Eng to NA (Lyon) 0050 s/on (Doonan)
- 9685 BRAZIL R. Gazeta w/nx & sports remote 2314; good lvl but QRM builds (Dexter)
- 9684 ARGENTINA RAE 0600 Eng to WCNA (Berghammer)
- 9680 PORTUGAL R. Portugal 0345-0430, Eng to WCNA (Rowell)
- 9680 AUSTRALIA VLH9, good sigs at 0856 (Jamison)
- 9667 S. VIETNAM Regional, listed for Hué, 1140 w/Viet tlk (Padula)
- 9665 SWITZERLAND SBC Eng to UK 2020, good sig (Waldron)
- 9660 MALAYSIA R. Malaysia, K-L 1215 Eng //7300 QRM ABC, het (Berghammer)
- 9660 AUSTRALIA VLQ9, Brisbane fair lvl 0910 (Jamison)
- 9660 ANGOLA R. Cl do Huambo 0530 s/on Port wk, QRM ABC (Berghammer)
- 9660 BULGARIA R. Sofia 2130 s/on to Eur/EE, good (Mas)
- 9655 PERU OAX9G, Chachapoyas fair 0409 w/LA mx, foll. by "R. Mor Peruana" ID (Kenney) S/on 1100, good (Calkin)
- 9653 THAILAND Thai NBS 1030 Thai; good sig (Berghammer)
- 9650 W. GERMANY DW, new fq. to ANZ, 0645-0940 (Wood)
- 9645 BRAZIL R. Cultura Pocos de Caldas 0230 Port (Berghammer)
- 9645 COSTA RICA TIFC 0300-0400 "Eng Hour", 6/10; also 6037 & FM (Upton)
- 9635 SINGAPORE R. Singapore, Chin. tlks 0915 (Padula) 1045 (Berghammer)
- 9634 HAITI R. Lumière, 0230 Fr, new; 40 over. (Berghammer)

- 9625 ISRAEL Jerusalem 2125 ann. 9009 & 9725; latter not hrd; 7169 anncd. for 0500, 1130, 1330 (Schnabel)
- 9620 YUGOSLAVIA Belgrade, Eng 2000, Ger. 2030(Padula) Eng 2200, very poor here(Hirst) Eng nx 2200 (DiLeo)
- 9615 COSTA RICA La Voz de Victor, Eng/LA mx, fine at 0230; VOA/ORM 0245(Schnabel)Exc. pop mx pgm 0230 (Caldwell) Seems too strong for 3 kW(Upton) 50 kW(Padula) 0145 Sp. ID (Barman)
- 9615 BELGIUM Brussels w/Eng 2200 foll. by Fr./Flemish ID 2215(DiLeo) sun. w/Eng // 6010, 15335; long absent (Berghammer)
- 9615 MOROCCO Sebba Lioun, muezzin chanting Koran at 0635 (Schnabel)
- 9595 BRAZIL ZYN29 fine lvl w/Colo ad 0003, nat. lang (Wiblack)
- 9590 CHILE R. Pres. Balmaceda 0045 Sp. & mx to 0200 (Caldwell)
- 9575 ITALY Rai, Rome 0115 (Doonan)
- 9565 RWANDA DW relay, Kigali, s/on Swahili 0345 (Wood)
- 9562 PERU R. Nacional as early as 2345, S9+20 lvl. (Wiblack)
- 9560 AUSTRALIA R. Australia 0645 sport, DXers Calling (Saman)
- 9555 IRAQ R. Baghdad Arabic nx 2200, prayer 2206, anthem 2214, off; //7180 (Wilkner)
- 9550 PERU R. Nacional de Tumbes Sp. from 0230-0310 folk mx, ID as R. Nacional; ORM (Wilkner)
- 9545 GHANA Accra, w/Arabic rx at 2020 (Padula)
- 9540 POLAND Warsaw w/nx in Eng 2230(Padula)Sked //7285, 5995 to Eur. (Ed.)
- 9540 CONGO D.R. R. Lubumbashi 0430 Swahili pgm & Fr. ID to 0500(Caldwell) Fr. nx 0530 //9775 (Wood)
- 9540 N. ZEALAND RNE, 0557 Bellbird, Eng to 0845 //6080 (Rowell)
- 9532 PERU R. Nacional, Tacna, s/off 0410; now up to 1 kW, loud(Wood) Was 300 W. (Ed.)
- 9520 N. ZEALAND RNZ 0900-1145 Eng to Australia //11705, new (Berghammer)Pops 1015(Ed)
- 9520 DENMARK Eng to MA 0151, bad QRM de Cuba 9525, 6/5 (Lyon)
- 9520M CHILE CE952, R. El Morro hrd from 2330 f/i, fair by 0330; list 1 kW (Wiblack) 0313 past 0400 rx & ann.; Havana QRM, but readable (Dexter)
- 9490 AZERBAIJAN SSR (list) R. Baku, 2355 w/Moscow ID, open carrier to 0000 pips, into Russ. (Dexter)
- 9418 RYUKYU IS. WJMC, Deragawa, Korean nx 1745 (Wood)
- 9009 ISRAEL Kol Israel, Jerusalem, 2115, pol. commentary(Saman) Fr. 2105 (DiLeo)
- 7345 CZECHOSLOVAKIA R. Prague 0143 (Doonan)
- 7300 MALAYSIA (M.) R. Malaysia, Penang, Eng sports 1355 (Wood)
- 7293.5 INDIA AIR, Delhi, Eng DJ show 1525 (drift) (Wood)
- 7280 MALAYSIA (M.) R. Malaysia, Penang, country/western nx in Malay(!) 1355 (Wood)
- 7270 INDONESIA (Java) RRI Djakarta, Indonesian, IS 1258-1300; gongs, ID, nx (Palmer)
- 7263 INDIA AIR, Delhi, Vividh Bharati, Indian songs 1525 (Wood)
- 7260 S. AFRICA SABC "This is the English Service" s/on 0515 (Wood)
- 7250 INDIA AIR, Lucknow, local Eng ann. 1529, relay Delhi nx 1530 (Wood)
- 7240 NORWAY R. Norway, 1200 5/19, Topic of Today, In Town Today (Saman)
- 7235 MALAYSIA BBC FLS Tebrau 1100 Eng w/WS (Berghammer)
- 7220 AUSTRALIA R. Austr. 1210-1250 Mandarin; sked //11740 unable to raise (Palmer)
- 7210 SWITZERLAND ICRC (Red Cross) 5/20,22,24 Eng/Fr/Sp; 7/22,24,26 next test(Michalenska)
- 7205 CONGO D.R. R. Lubumbashi 0400 s/on Fr. //9540 (Berghammer)
- 7205 MOZAMBIQUE R. Fax 0400 s/on Port.; 6/2 equal str. w/Congo (Berghammer)
- 7200 ENGLAND VOA/Wooferton w/Breakfast Show; Monrovia 7195 same show w/7200 3 seconds ahead (Dexter)
- 7195 LIBERIA VOA/Monrovia, excel. 2345 s/off (Menna) Sked to 2400 (Ed.)
- 7195 JAPAN NHK 1205-1215 s/off in Korean, sked from 1130;//6080 best, also //6140; 7195 worst (Palmer)
- 7170 NEW CALEDONIA Nouméa, 0725 Fr. & Pidgin(?) w/U.S. mx, fair 5/27 (Glover)
- 7163 ANGOLA Rádio Clube do Luanda, Tijuana Brazz 0520 (Wood)
- 7125 GUINEA Conakry 0630 s/on Fr., fading out by 0700; poor (Glover)
- 7105A MALAGASY REP. R. Antananarivo 0400 s/on Fr; CW QRM, QRM (Berghammer)
- 7100 NEPAL R. Nepal, Kathmandu, Indian songs 1535 (Wood) New xtr? About due (Ed.)

- 6580 PERU R. Nacional del Peru at 0100-0400 (Laveaga)
 6207 COSTA RICA R. Reloj, Sp, freqt. IDs, 0200 (Sizer)
 6195 HAITI R. Haiti, 4VHW Fr 1250, pop mx & patriotic speech on hr (Wilkner)
 6195 CHILE R. Corporacio'n, Santiago, Sp ads 0405 (Wood)
 6190 CHILE R. Corporación v.g. 0959 w/ID, nxcast 1000; also good most evenings (M.Kamp)
 6175 PERU Cuzco, "Esta es R. Tawantinsuyu" 0400 (Wood)
 6170 S. KOREA Korean Army sta.(reportedly) pop & Korean mx & anmts; 1402 dly sound effect that may be IS, of birds similar to sea gulls (Sparks)
 6165 SYRIA Damascus 0500 Ar. to Egypt, after Mex. off (Berghammer)
 6162.5 ZAMBIA RZ, Lusaka, Afr songs 0415 (Wood)
 6145 BRAZIL R. Nac. del Rio, Rio de Janeiro 0000 ID; uses "Born Free" many times(Henna). 2348 lively LA type rx & Port anmts; dly (Lobdell)
 6145 NIGERIA Biafra 5/25, 2230 time chek "half-past 11" Eng; not gone(Michalenska)
 6140 BURUNDI LV Rev. Bujumbura 0400 s/on Fr QRI Tahiti (Berghammer)
 6138 TAHITI R. Tahiti 0444 tune, all Fr & nice lvl, nat. mx (Dexter)
 6135 BRAZIL R. Gaucha nice sigs early as 2330, Port (Niblack)
 6130 SPAIN RME, Madrid Eng to MA 0100-0145 (Waldron)
 6130 JAPAN NHK, Kumamoto, time sig 1400; JRM Vladivostok (Wood)
 6125 HONDURAS La Voz de Suyapa ann. as R. Suyapa 0130, fair str. (Dexter) Pop ms, ID & s/off 0500, 6/4 (Sparks)
 6125 BELGIUM CRU, Brussels, new Eng pgm 0045-0055 "Belgium Speaking" from May 5(Sizer) In 1962 was "Belgium Calling the World" (Ed.)
 6120 MEXICO XEIS 0410-0500 s/off; many ads, LA mx; "R. Tapachula" ment. often(S.Kamp) ID & s/off 0453, 5/22 (Sparks)IS is "Woody Woodpecker" theme (Hauser)
 6120 ARGENTINA LEXI, R. El Mundo, B.A., 0215 w/many IDs in Sp, hvy QRI (Lobdell)
 6120 PERU R. Cuzco, full ID 0600; now back on nominal fq (Wood)
 6116A HONDURAS R. Comayagüela 0500 s/off; last 6110 (Kenney) WITH lists Tegucigalpa, FBIS Comayagüela (Ed.)
 6105 COLOMBIA R. Visión, Medellín, live show, abrupt (SW) s/off 0600 (Wood)
 6104A HAITI LV de la Rev. Duvalieriste, 0605, Sp w/IDs, good(Glover) Fr 0216, into Eng 0220 ID "V. of the Rep. of Haiti Calling" & reading of Papa Doc speech about invasion (Dexter) 2330 Eng, "invasion day" (Berghammer)
 6100 CHILE R. Calama, on late Sun. morn., lite mx 0600 (Wood)
 6095 SOMALI REP. Mogadishu, s/on anthm, Somali 0330; now here (Wood)
 6095 COLOMBIA LV del Centro wk most nites, Sp mx & anmts; ID 0324 (M.Kamp)
 6090 ARGENTINA RAE via R. Belgrano in Sp, wretched modulation 0430 (Wood)
 6090 AUSTRALIA VLL6 Sydney, wk at 0935 (Jamison)
 6090 DOMINICAN REP. HTSD 2325, Eng, mx, ID "in beautiful Santo Domingo" (Sizer)
 6090 NIGERIA R. Kaduna, Eng mx 0530, 6/3 (Sparks)
 6085 COLOMBIA Ecos de Pasto, Pasto (far So. Col.) good at 0315, 5/26 (Schnabel)
 6082 PERU R. Nacional, Lima, excel. sig 0200 ID (Kenney) Sp drama 0320 (M.Kamp)
 6075 S. AFRICA R. RSA 0230 s/on to WONA Eng (Roser) 0100 (Waldron)
 6075 URUGUAY R. Ariel, Montivideo, "R. Ariel presenta" 0900 (Wood)
 6070 BULGARIA R. Sofia hrd at 1930 (Saman)
 6070 THAILAND NBS, Bangkok, Thai rx 1400 (Wood)
 6065 SWEDEN R. Sweden, Highlites from Sweden 2045 (Saman)
 6065 BRAZIL R. Nac. Brasilia, list inactive FBIS, active, f/in by 2330(Niblack)Some- times ann. as R. Popular (Kenney) Eng ID 0035, requested comments & reports(Lobdell)
 6065 S. KOREA VOFK, Seoul, s/on in Korean //15135 at 1400 (Wood)
 6040 COLOMBIA LV de Tolina, Ibaqué 0130 w/tlks & lively comm's in Sp (Lobdell)
 6025 MALAYSIA (W.) R. Malaysia, Kuala Lumpur, Chinese tll: 1400 (Wood)
 6025 PORTUGAL R. Portugal, 2045 music requests (Saman)
 6020 HOLLAND R. Nederland, 1900 (Saman)
 6011.5 PERU OAXAV, Lima, list R. América, s/off anmt. "...de Americana R. Nuevo Mundo" 0555 (Kenney)
 6005 BOLIVIA R. Progreso, La Paz now active, 011 ID 0400 (Wood)
 6000 SWAN IS. R. Américas 5/15 w/usual pgm; 15 off as they said they would be(Dexter)

- 6000 BRAZIL PRK5, R. Inconfidencia, Belo Horizonte 0125 w/LA mx & comm'ls, Port (Lobdell)
- 5990 ITALY Radio Roma, 0525 (Saman)
- 5985 ARGENTINA R. Splendid 0140 w/mx, M&W ancrs. (Dexter) 0030 40 over (Berghammer)
- 5985 TANZANIA R. Tanzania in Eng w/mx & comm'ls excel. lvl 0320(Dexter) 0300 s/on Swahili (Berghammer)
- 5975 RHODESIA RBC, Gwelo, Eng/Shona pop show 0445 (Wood)
- 5970 COLOMBIA R. Horizonte (tent.) 0533-0632, fair; M. ment. "En Horizonte.." 0632 (S.Kamp)
- 5970 PERU R. El Sol nx Sp 0500-0530 s/off; distinctive theme mx before comm'ls(Kenney) 0430 Sp w/mx & IDs, fair 6/2 (Glover)
- 5965 BRAZIL R. Guaiba, 0100 frenetic LA ppg (Schnabel)
- 5957 CONGO D.R. Lubumbashi, Fr nx 0430 (Wood)
- 5955 BRAZIL ZYR226, S. Paulo, lite mx to 0930, then auto horn & "R. Gazeta" ID(Kenney)
- 5954 COSTA RICA TIQ, 0513, Eng, old pops(Lyon) Appeal to DXers & DX clubs for reports; international ser. begins soon; off 0600 (Wood) 0415, 1st Wed. of month, DX pgm, new (Berghammer) 0515, asks for reports (Calkin) 0545, "...calling Eur, Afr, Asia, India & CA"; rel. pgn 0540, new format, 6/13 (S.Kamp)
- 5930 CZECH'KIA R. Prague, 1900, 5/31 (Saman) Eng to Eur
- 5926 PERU R. Puno, tropical nx 0615, on late week-ends (Wood)
- 5875 HONDURAS LV de Honduras, fair lvl w/tlk & nxcast 1215 (H.Kamp)
- 5060 REP. S. YEMEN Aden, Arabic chorus 1655(Wood) Not for stateside, I know (Ed.)
- 5047 TOGO Lomé, heard coming on in Fr. at 0530 (Sparks)
- 5045 BOLIVIA LV del Altiplano w/W. ancrs. 0305; full ID 0335, into U.S. pops(Dexter) 0610 w/whistle, ID 3. freq.(Kenney) Whistle as in bet, or sound effect?(Ed.)
- 5043a COOK ISLANDS ZK5, R. Cook Is. w/pol. comment. in Eng 0545, 6/4(Sparks) Marotonga chants 0715 (Wood)
- 5042 ANGOLA R. Cl. de Benguela, s/on Port., and pop mx 0546; early fade 5/22(Sparks)
- 5040 BURMA Eng nx at 1445 (Padula)
- 5035 BRAZIL R. Anhanguera, church ser. 0041, good; GRI Continente (Hagerman)
- 5035 UZBEK SSR Tashkent, Uzbek talk 1520(Wood)One of few genuine outlets (Ed.)
- 5025 BOLIVIA La Cruz del Sur, moved here, S9+20; power increase?(Hiblack) Tape from CBC, Eng 0230; gives freq now 5025, s/off 0300(.Kamp)strongest on 60 M.(Hagerman) s/on 0955 (Padula)
- 5020 COLOMBIA En. Caldas nitely; Eng tourist lure in Eng or quarter hr. sometimes (Schnabel) 5021, now drifting here (Wood)
- 5018.5 PERU R. Juliaca, Peruvian flute mx 0420 (Wood)
- 5010 CAMEROON R. Garoua, s/off 1200 Sat., good (Padula)
- 5010 VENEZUELA R. Boconó Sp. tlk, ID 0300, weak (Hagerman)
- 5005 PERU R. Jaén, Sp. tlk, ID 0305, almost inaudible (Hagerman)
- 4999 CAMBODIA Eng at 1250; latest freq. noted, also 5002 recently (Padula)
- 4972.5 CAMEROON R. Yaoundé, s/off 2300 Sat., quite good (Padula)
- 4970 MALAYSIA (Sabah) R. Malaysia, Sabah, w/relay of Eng nx 1400 (Sparks)
- 4950 VENEZUELA R. Coro, IDs 0310, 0320, good sig., much LA nx (S.Kamp)
- 4932 NIGERIA Benin City, Eng lang pgn 0510 (Sparks)
- 4926 SI. GUINEA R. Ecuatorial w/relay of Sp. nx from Madrid at 2100 (Padula)
- 4925 MOZAMBIQUE R.Cl. de Moçambique 0430 tune, fair to weak, & droppin rapidly (Dexter) Port. ads 0450 (Wood)
- 4905 BRAZIL R. Relogio Federal concert class. nx 2354 (Hagerman)
- 4904 CHAD Ft. Lamy s/on w/anther at 2300 Sat. (Padula)
- 4900 GUINEA Conakry, strumming guitar sig 0555; list 4920 (Schnabel)
- 4897 BURUNDI R. Cordac, Bujumbura, Kirundi talk 0410; new fq. (Wood)
- 4895 BRAZIL R. Baré, Manaus; M&W w/Port. talk, no mx (Schnabel) 0200?
- 4895 S. AFRICA R. RSA, Swahili to 0412, IS then Eng to 0428; test(?) to NE & SE Afr. (Palmer) 0510 Eng to S. Afr, new fq, illegal for Int'l use (Wood)
- 4885 BRAZIL R. Fieira de Teresina, Port. ads, IDs 0837; real wallop every morning (Hagerman)

- 4875 ECUADOR LV de Esmeraldas, Ecuadorian mx 0615 (Wood)
 4872 INDONESIA (I.Irian) RRI Sorong, 1400 s/off w/Indonesian mx after ID Ind.(Sparks)
 4865 BRUNEI Malay Ser., nat mx & annts. 1115 (Padula)
 4840 VENEZUELA R. Valera good w/Lone Ranger theme & ID 0346, into s/off 0356(M.Kamp)
 4835 FIJI Animated babble w/drums & cora mx 0614, nitely (Schnabel)
 4831 THAILAND Bangkok, Thai songs & annts; nominally 4830, 1115; //6070 (Padula)
 4830 ECUADOR Ondas del Angel w/full ID 0400, trumpet mx and off 0403 (Dexter)
 4820 ANGOLA CR6RZ, class. mx 2353, Port. annts, 5/24(Schnabel)0500 s/on Port., powerful; sounds like increase in power(sparks) 0508 annts. w/"Charade" mx quite strong (Hauser) Strong at 0500 s/on (Calkin)
 4820 HONDURAS R. Evangelica 1108-1137 Sp, gospel mx; also 0310-0350 Eng; QRM Vancouver RT sta (Palmer) Eng rel. 0304, RTTY QRM (Lyon)
 4815 PERU R. Amazonas, Iquitos, romantic mx 0430 (Wood)
 4810 VENEZUELA R. Popular, Maracaibo, fair at 0217, Sp.(Jamison) 0300 ID (DiLeo)
 4808.5 ECUADOR 0611 ID "La R. Popular de Cuenca", Indian mx; ID; listed FBIS 5060(?) (Hauser)
 4805 INDONESIA Djakarta w/Fr. lang lessons(!) on Mon. 1100 (Padula)
 4800 INDIA AIR, Hyderabad, 1350, Indian mx & ann. 5/20 (Sparks)
 4785 PERU OAX3V, R. Horizonte, 0545, L. mx, ID & s/off 0553 (Sparks)
 4780 VENEZUELA La Voz de Carabobo choral singing 0250(Schnabel) 0200 usual mx & talk; ID 0222, hrd 6/3 only (M.Kamp)
 4755 BRAZIL R. Brasil, Campinas 0200 fine pgng if you want headache(Schnabel) List inactive FBIS (Ed.)
 4701 CLIMBENTINE LV de Patnet Lao, Lao mx, s/of 1530; new freq. (Wood)
 3997 S. AFRICA R. RSA, Eng, mx to C. Afr 0500 (Wood)
 3995A ECUADOR HJCA5 (Tent.) sounded like "R. Tarqui" IDs 0640-0700, pop mx Sp(Kenney)
 3995 V. del Rio Tarqui, Cuenca, request mx 0455 (Wood)
 3986 NIGERIA NBC, Lagos, Eng mx 0500 (Wood)
 3980 NIGERIA R. Nigeria excel from 0516 t/i, ads & songs; drum IS 0530(M.Kamp)Enugu list (Ed.)
 3965 S. AFRICA SABC Eng Ser, morn. exercises 0445; new freq (Wood)
 3938 S. AFRICA SABC Afrikaans Ser, mx 0500; new freq (Wood)
 3385 VENEZUELA R. Barcelona, clear ID 0305, then mx & tlk; many IDs(M.Kamp) Sports event, ID 0205 (Hagerman)
 3385 NEW BRITAIN IS. R. Rabaul 0950, S-9, 5/12(Jamison)Country mx 1100, chimes, ID & time chck 1110(Kenney)1114-1138 "Village choir" w/hymns, tlk in Pidgin(S.Kamp)
 3380 GUATEMALA R. Chortis, ballads, complete ID Sp0232; off 0258 (Hagerman)
 3355 NEW CALEDONIA ORTF, Nouméa, Fr tlk 0715 (Wood)
 3345 ZAMBIA Bc. Ser., Lusaka, Eng mx 0415; sig lasted 20 min 5/21 (Schnabel)
 3335 NEW GUINEA VL9CD, Newak poor 1040A lang; chimes & ID 1042(Kenney)Wk at 1055 Pidgin; fair lvl 1110 mx in Pidgin(M.Kamp)1158 Pidgin ID, country mx(Hauser)
 3325 VENEZUELA R. Monagas around 0130-0200 w/nat. mx & tlk; wk(M.Kamp)Sp ID, anthem, off 0305 (Hagerman)
 3320 S. AFRICA SABC, Afrikaans tlk 0500 (Wood)
 3315 MARTINIQUE ORTF, Fr mx & tlks, poor sig w/much QRM (Lyon)
 3300 BR. HONDURAS Belize ID 0300, prayer 0428, anthems (Schnabel)
 3285 FIJI FBC, Suva, sitar mx 0625 (Wood)
 3250 S. AFRICA All-nite Comm'l Svc 0302-0410 Eng, lt. mx, just above S-9 QRM(Palmer) Eng ads 0500 (Wood)
 3250 PERU R. La Oroya, wk, nitely; thot hrd Eng between mx sel.(Schnabel)
 3222 TOGO R. Togo, Lomé, hymns, Fr ID, then Afr mx 0532, wk (Hagerman)
 3220A MOZAMBIQUE R. Cl. Moçambique 0255-0302 Eng, mx, ads, L-M's gongs; at or just before local sunset on WC briefly, maybe twice a month (Palmer)

ERRATA

- 5975 Last month's listing of Korean spkr. as Seoul in error; it is R. Peking, from recent monitoring, & a powerhouse; is violating their 168 WRTH sked (Palmer)

IDENTIFIED

11902A Arabic spkr. to s/off around 2330 is Saudi Arabia, as noted in June Frendx (Palmer)
9695 (May) Cambodia, Phnom-Penh consistently noted here 1045A to 1300 f/o; only Chinese hrd, but prob. s/off in Fr. (Berghammer)

UNIDENTIFIED

15163A Unid. 1726 s/on, IS, strong hetro, unid. lang, SINPO 34322, 6.5 (D'Angelo)
5061 Unid. L., possibly R. Litoral, Venezuela around 0115; weak & RTTY/QRM (Dexter)
4785 0410-0503 s/off Sp. lg non-descript higher class LA pgng, lite orch. mx, few "ritmos"; no ID or place names noted; believe Tingo Maria or Popular, Costa Rica (Palmer)
3295 0302-0310 in Braz. Port., soccer match; faded into noise before ID hrd; would guess N. Educ. de Uberlandia, Brazil; what say someone, pse? (Palmer)

This marks my last month as your Loggings Editor. I sincerely regret having to retire, but health problems make it necessary. I have greatly enjoyed the nearly two years, and it has been one of the great experiences of my life. We have seen NASWA grow into a truly international club; the Log Report has reflected this with many logs from overseas members, and with many printed for their benefit. No longer do we have a provincial "for N. Americans only" outlook. The support that you have given to this section has been truly great. The new editor has now been chosen, and is qualified to do a good job, and will try his best. This will only be possible if you give him the same support which you have given me. Please give your new editor this support, and NASWA can continue to climb to the top. I'm not going QRT by any means, and will give the new editor all the support that I can, and will be seeing you in the Loggings.

-30- Del

(HDQ NOTE: New Editor for Log Report is Rod Williams, 8 Bellmeade Drive, Rossville, Georgia 30741. He begins with August bulletin. Reports should reach him by 15 July.)

: : : : : :

THX TO THIS MONTH'S REPORTERS

- | | |
|-------------------------------------|--|
| David Ahrendts, Neb. GR-64 | * Chris Loddell, Mass. SW-4A |
| Ray Bacon, La. SW-4A | * Raymond Has, N.Y. HQ-120X |
| Greg Barnan, Ill. Star Roamer | Adolph Wenna, Pa. Zenith 15U246 |
| Bill Berghammer, N.Y. SW-4 | Frank Michalenka, R.I. GR-54 |
| Dwight Breeden, Tenn. S-120 | Bob Moser, Ill. CX-62A |
| Dr. Bill Caldwell, Calif. SW-4A | Bill Murray, Ore. HQ-50TI |
| Gregg Calkin, N.E. S-108, GR-54 | Al Niblack, Ind. BK-100 II |
| James Daley Jr., Ga. (?) | Warren Nordgren, Ill. HQ-180 |
| Nick D'Angelo, N.Y. HQ-190 | Bob Padula, Australia Marconi E-28; HE-230 |
| Gerry Dexter, Wis. HQ-180 | Bob Palmer, Wash. HQ-160 |
| Joe DiLeo, Conn. S-118 | Sam Rowell, Wash. Sears Warfarer |
| Dennis Doonan, Wis. R-100 | Josef Šaman, Czechoslovakia Tesla 536A |
| Art Glover, Wash. HQ-160A | Geo. Schnabel, N.Y. SW-4 |
| Bob Hagerman, Mich. Star Roamer | Al Sizer, Conn. DX-150 |
| Glenn Hauser, N.Y. HQ-160 | Bill Sparks, Calif. HQ-180 |
| Del Hirst, Texas HQ-100 | Tom Upton, Texas GR-64 |
| Danny Jamison, Va. SW-4 | Tom Waldron Jr., Conn. S-120 |
| Mike Kamp, Texas HQ-140X | Bob Wilkner, Fla. SW-4A |
| Steve Kamp, Texas HQ-140X | Richard Wood, Hawaii HQ-180A |
| Don Kenney, Calif. SX-42 (Modified) | * Ken Lyon, N.Y. Zenith |
| Harold Lachman, Idaho GR-54 | SCDX |
| Alberto Laveaga, Mexico SW-4 | TRB/ENTVII '68 |

: : : : : :

Report forms are available fro Rod Williams for SAS& or return postage. See above for address (or see Hdq section). Said forms are for use by NASWA members only.

Last minit NEWS/TIPS
All times are GMT

FLASH
.....



SHEET
.....

Last minit NEWS/TIPS
All times are GMT

AL NIBLACK-EDITOR, 420 SHELBY STREET, VINCENNES, IND. 47591 DEADLINE 23rd OF MONTH

SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY 6-5-1968

1-126	2-154	3-157	4-138	5-134	6-144	7-135	8-128	9-130	10-117	11-106
12-82	13-91	14-80	15-95	16-103	17-114	18-136	19-138	20-140	21-145	
22-139	23-149	24-165	25-146	26-121	27-139	28-133	29-135	30-126	31-136	

MEAN - 128.5

PREDICTED: JUN-109 JUL-109 AUG-108 SEP-107 OCT-106 NOV-105 (Ferguson)

ASCENSION IS: BBC Relay 15435, S/on at 1630; at 1700 on 15400; at 2000 on 15260; at 2200, 11865, 15235, and 15435; and at 0730, 11860 and 9600 S/on the air. (Balbi)

AUSTRALIA: (FLASH) Tests of the new 250kW xmitters from Darwin in English to S. E. Asia should begin in July 0730-0830, 0930-1030, no fqys quoted as yet. (Balbi)

BELGIUM: (FLASH) ORU will soon use 250kW transmitters. (Sweden Calling via Menna)

BOLIVIA: La Cruz del Sur at 0302 annos fqys as: 730kcs MW, 5025kcs SW and 95.0Mcs FM. (Palmer) (Would seem that 4985 has been deleted, Editor)

BRAZIL: R. Rio Sao Francisco, XYL20, Penado, listed for 4925 is currently on 4915. Annos as, "A Voz da Unidada Nacional", at 0033 and ID. (Objio)....The only good one here on 60M is R. Pioneira de Teresina, 4885, with ads and IDs. (Hagerman, Mich.).... R. Nacional, Brasilia heard poorly from 2330-2355, and ID. (Cohen).... R. Rural de Brasileira, 15105, at strong level at 2304, reading names and address of listeners who sent in reports. (Hagerman).... R. Nacional de Brasilia, 15445, logged with LA mx at 0112. (Hagerman) (Would seem that conditions are good for Brazilians, Editor)

CEYLON: Ceylon Broadcasting Company (new name) has a DX show broadcast on the second and last Saturday of the month from 1100-1115, 17830. (Sweden Calling via Menna, Penn.)

CHILE: 9690 R. Cooperative has indeed moved here from 9700. Heard well from 0425 to 0505 S/off. American pops, LA ballads, and "rock" music. (Palmer)

COLOMBIA: (FLASH) 4795 A new station in Bogota anncing as, "R. Reloj", heard 6/13, from 0535, with ads, music, and many time chexs. (Palmer, Washington)

COSTA RICA: 5954 (FLASH) R. Casinc, Limon, now has a new format during their 0430-0600 English period -now its religious programming. ID at 0545 went like this; "This is R. Casino, calling Europe, Africa, Asia, India, and Central America". Has there been a power increase?? (Steve Kamp).... Radio Reloj, San Jose, is not on old 6208, but is on 6212.5. Choice of spot is a bad one as are covered by ute. (Palmer)

DEENMARK: 15165 "DX Window" heard irregularly on Mondays, 1915-1935. (Balbi)

ECUADOR: 4910 Observed from 0655-0905 relaying HCJB's Castillian Prgm till 0700, then "Southern Cross Salute" in English. No IDs only HCJB's. Could it have been HCMJL, Em Gran Colombia, Quito, with a relay?? What say, somebody? (Palmer)

FINLAND: 15185 Pori, heard on a Friday from 1815 in English by a gal with a most awful accent on the air. One had to listen extremely closely! (Palmer)

GERMANY (FA.): HBI heard at 0330, on 15315 and 15450, in English to No. America (Balbi)

GUINEA (REP.): R. Conakry at sometimes good level with no QRM till 2230. (Cohen)

HAITI: (FLASH, FLASH) "La Voix du Nord-Est" is a new station with QTH in Fort Liberte (about 25 miles East of Cap Haitien). Call is 4VRL, on 4500A, and logged at very strong level on 6/9, with French songs at 2135. (Objio).... Radio Lumiere it is rumored, now beasts in English from 2030-2130 Monday and Fridays only, on 2410, 6100, and 9635. Can any one confirm?? (Williams, Georgia)

INDONESIA: 7270 (FLASH) RRI, Djakarta piles in here around 1300 like 100kW. IDs as, "Inalah R. Republik Indonesia, program nasional, Djakarta". then into RRI national news. (Palmer) (Agreed, it surely is a FB signal, Editor)

KOREA(SO.): VOFK, Seoul, with English 0600-0700, on new 15155, FLASHES Balbi.

LIBERIA: ELWA heard on new 11975, 0600-0745, 6/5 till 6/16, then returned to usual 11950; In portuguese 2200-2300 on new 15125 to Brazil. (Balbi)

MADAGASCAR: (FLASH) Radio Nederland has purchased a land site for a new relay station on this island to improve transmissions to S. E. Asia, Australia, and New Zealand. (Radio Nederland via Merna)

MALAYSIA: (FLASH) BCBFES, Tebrau, noted on new 9760 at 1300 with the BBC news in parallel with 11750, 15435; at 1400 English news on 9725, 9580, and 11750. (Balbi)

MALAYSIA: 7160 Sarawak heard in lingo at 1030, at 1400 in English with news. (Balbi)

MARTINIQUE: 3315 Fort-de-France excellent from 0215 nightly, in usual French (Hagerman)

MEXICO: 11820 XEBR, Hermosillo, is definitely active for logged 6/12 with fade-in at 2125. Much native music and ads. (Palmer)

NEPAL: 9590 (EXTRA FLASH) Radio Nepal has begun operating with 100kW. (Sweden Calling via Merna) (Can any one confirm this often circulated rumor?? Times? Editor)

NETHERLANDS: (FLASH) R. Nederland anncd that they will start bcasts from their new relay transmitters in Bonaire sometime this coming November. Will be comprised of two 200kW jobs and 21 antennas of the simple dipole and curtain type. (Zamora, Texas)

PAPUA/NEW GUINEA: 3385 R. Rabaul heard from 1114 till 1208 with a program in Pidgin. Cowboy music heard from 1138. (Steve Kamp)... Heard on 6/12, in Pidgin with an English ID at 0915. Could hear Cayenne S/on underneath with La Marseillaise. (Palmer)

PERU: 6012A R. America noted from 0540 in native with time chex and ID after each recording. Anncd for 24 hr operation. (Palmer)... 9655 R. Non-Peruana, Chachapoyas heard till 0503 S/off, poor modulation. (Palmer)

SO. AFRICA: 11885 SABC Home Svc heard at 0630, good, formerly on 15365. (Balbi)

SWEDEN: R. Sweden has English news at 1600 on 21585; 21690 at 1900; 15275 at 0030 and 0200; and, 0330 on 11705. (Balbi)

TAHITI: 11825 Papeete heard with beautiful sigs, mx, ID, off at 0759. (Hagerman)

TUNISIA: (FLASH) R. Tunis heard at 1730 S/on in French, new freq. (Balbi) (21475)

U.S.A: KGEI now 250kW on 15240 from 2230-0200; on 15245 from 0200-0400. (Balbi)

USSR: (FLASH) For their No. American Svc with S/on at 2300, 15150 (they so anncd) I received a QSL card in 45 days from Mrs. Stepanova verifying their transmission "via Minsk". This is at variance with some reports! (Hagerman)

VATICAN: R. Vatican noted to So. America on new 17860, paralleled by 15285 and 11760; to Africa at 1710 in English on new 15195. (Balbi)

VIENTNAM(NO.): 15015 Hanoi heard from 1625-1635 in Vietnamese; at 2000 begins French xmission. Evidently a move from listed 15044. (Palmer)... Heard from 1740 till 1830 in lingo; at 1830-1900 in French, also 2000-2029 in French, S/off at that time. (Murray)

CLANDESTINE: 15050 R. Universidad noted at 2330 with multi English-Spanish IDs. Gave QTHs of Caracas, Venezuela, and Miami Beach, Florida. (Murray)

Those of you who took note of the BC-221 Frequency Meter article in a recent FRENDX by the Editor of this column may be interested in the following info supplied by Bill Murray, Oregon, that the manual for all the BC-221 models is available from Fair Radio Sales, Box 1105, 1016 E. Eureka, Lima, Ohio, for \$5.00 and postage.

ACKNOWLEDGEMENT and THANKS to all those who made this possible: August Balbi, Calif... Steve Kamp, Texas... Steve Cohen, Conn... Grady Ferguson, No. Carolina... Bob Hagerman, Michigan... Cesar Objio, Dominican Republic... Rudolph Merna, Penn... Bill Murray, Oregon... Bob Palmer, Washington... Rod Williams, Ga... Larry Zamora, Texas.

In closing we would like to suggest that all those that write us with special questions concerning receivers and other types of associated gear that require definite answers that it would be appreciated if return postage were included. The editor of this column will reply to all questions in re the hobby, that is guaranteed.

Please keep the reports coming, observe the monthly deadline, write on one side of the paper only, double space between items, and quote the name/model number of your receiver. Very last minute items may be phoned in after 2300 GMT to 882-3976.

Happy DX Hunting, hope to see you all with reports incoming for next month's column.