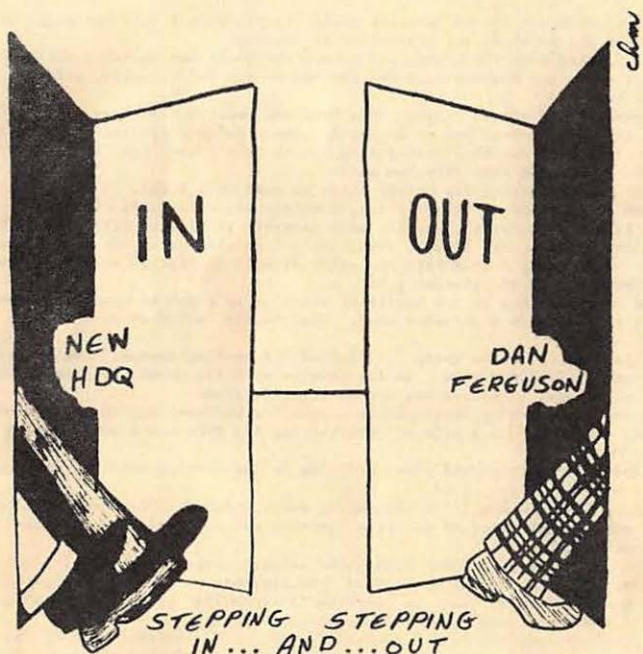


F R E N D X

The SHORT WAVE BROADCAST Journal - Since 1962

North American Shortwave Association
Vol. XIV No. 6 June 1975



New Naswa Hdq
PO Box 13
Liberty, IN

THE LOUDENBOOMER REPORT

I guess it began several months ago. I sat there in my sild robe (sent gratis from NHK) sipping the morning coffee and scanning the Sunday LA-Times. A filler article on the bottom of page 73 rivetted my attention: "Evil Spirits Abound in Zanzibar" it read.

The two paragraph short went on to unfold the resurgence of mysticism and voodoo on the island, and keyed on the renewed native belief in demoniacal possession.

And then, it all clicked! The piles of reports, hundreds of wasted IRCs, the pile of garbled replies in the corner of the shack -- all signed by the mysterious Oman O. Oman.

' Oman's a man possessed, ' I muttered to myself. No wonder all my stabs at QSLing R. Tanzania-Zanzibar had failed. Mephistocycles had Oman's soul.

My selfish desire for a QSL suddenly paled in significance compared to the plight of this poor devil (no pun intended). I decided I had to get this guy realigned, for his own sake and that of the DX-world.

I gave the boss notice that I was taking a leave of absence, and probably would return who-knows-when. He said the plans were "just fine, and please don't come back." What a sense of humor old Mr. Flintskins has, hi. Always joking.

I high-tailed it over to the local travel agency and learned the only way to Zanzibar was via banana boat to Nicaragua; cattle boat to Ascension; Flying Tiger Airfreight to Santa Isabel (or is it now called "Mambo?"); and finally, tunneling to Dar.

A giant catapult on the Tanzania coast represents the only passenger service link between the mainland and the island of Zanzibar.

So I plunked down the bread, and before you could say Mbabab...Mbabbozong... er, I just can't say Mbabanel...I was perched on the Dar catapult, suitcase in trembling hand.

Sprooonnnng! I was in flight. The mainland swiftly flew away. It was all I could do to keep the bugs out of my teeth. About halfway across, my Radio New York Wonderbread pennant (which I intended to use in Oman's exorcism) slipped out of my hand and fluttered down into the ocean.

After a few minutes, the island began to come into sight. A constant whosssshhh accompanied my flight. Yes, Zanzibar was clearly in view now.

The island, its houses, people, both cars--it all looked like a toy. Getting bigger. And bigger. And BIGGER. @#\$%&'()*! I collided with the R. Zanzibar whip antenna. In a flash, I shot into the other direction, finally crashing through the thatched roof of an islander's hut.

Mama Zanzibari was in the middle of stirring up a pot of crocodile stew. The kids were playing with a shrunken head. They hardly looked up as I made my entrance.

"It is Oman. He no so good," explained the sobbing spouse. She motioned toward a small, darkened room. As she pointed with the spoon, drippings flew down my collar, but I ignored the breach of etiquette.

The smell of rotting envelopes hung over the bedroom, and there, perched on a small cot on top of a pile of deteriorating RTZ QSLs was a small man in a turban -- Oman!

A wind swept through the room, whirling up the rotting mess and surrounding Oman in a satanic funnel cloud.

"YAN...KEE....GO HOME!!" a thundering voice ordered. There was no time to lose. I started unpacking my suitcase, getting out the tools I'd need to dismiss Mephistocycles.

WRTH. 26 c stamps. NASWA Portuguese language report form. 73 feet of #16 guage wire. A tape of the Happy Station. Autographed photo of Shot Breeze. A Radio Schmuick catalogue. And, my 20-year-old typewriter ribbon, containing the essence of thousands (how about 167) reception reports.

"Mephistocycles, begone!" I commanded, sprinkling confetti made of the Radio Schmuick catalogue onto Oman. A rumbling QRN buzz filled the room, followed by 15 ear-shattering minutes of the RNE interval signal. I could hardly take it.

"Mephistocycles, begone!" I again ordered, rubbing the typing ribbon on the wasted Oman's cheeks. His eyes blurred and turned into Nixie-readout tubes. "Fat chance," they read.

"Relent, Mephistocycles!" I again hollered, starting to tire of the whole song and dance. He was again transformed, this time into a five foot BBC rejection slip.

"I know the tricks, Mepho old boy, and I hate to do this but..." in a flash I pulled the ultimate weapon from my pocket and hit Oman over the head with it.

A blinding flash and deafening roar smashed through the room. As the smoke cleared, a bright-eyed and smiling Zanzibari sat on the bed babbling "May I confirm your report? Of course I confirm it. May I send you a QSL? Please, no IRCs. Can I include transmitter power? Of course I'll..."

(continued on credit page)

NASWA

A REPORT FROM
HEADQUARTERS

NORTH AMERICAN SHORT WAVE ASSOCIATION POST OFFICE BOX 13 LIBERTY, INDIANA 47353 U.S.A.

JUNE, 1975

A SPECIAL MESSAGE TO THE MEMBERSHIP

With this issue of FRENEX, we move into a new era for NASWA. Until now, FRENEX has always been published at the same location as Headquarters, and more or less under the control of a single individual. Headquarters is now P.O. Box 13, Liberty, Indiana 47353 and this issue of FRENEX is the first one to be published in Park Forest, Illinois under the direction of Alan Mayer. It is our hope that we may prove to be good enough managers to be able to turn out FRENEX month after month without fail as our predecessors have been able to do. We hope the membership will be patient if a few future issues may have a somewhat erratic quality from time to time since the new management people will have to have time to adjust to their new duties and begin to gain experience in the best way to do things.

Before pressing forward, let's look back a bit. Back in early 1972, some six months prior to the death of the then Executive Editor, Mr. Bill Eddings, it was necessary for the publishing and Headquarters work be assumed by some one else. Ed Shaw handled those duties until Mr. Eddings' death in August of 1972 at which time Dan Ferguson volunteered to take temporary charge and moved Headquarters from Altoona, Pa. to South Charleston where it has been until now. At the time Dan took over there was little money in the Treasury and it appeared NASWA would fold.

Here it is two and a half years later, and few people will ever realize the increasing amount of time and effort Dan had to devote to club matters to keep NASWA and FRENEX going with it's membership steadily growing. There have been a number others who have assisted the club in many ways, but Dan deserves the standing ovation with a round of applause for Ed Shaw for his behind the scenes work and continued interest in NASWA. We certainly hope that sometime in the future, both Dan and ED will find it possible to again take an active part in NASWA affairs, and both have said we will hear from them from time to time.

Now, about the future. At this point in time, it looks good. Most of the editorial staff have indicated their intentions to continue as before, the club is in satisfactory shape financially, so it's the same ball game, just a different park.

EDITORIAL CHANGES: Charles Wooten, our Short Wave Center editor, is being transferred by the Navy to Europe very soon and will have to give up his column. He has prepared his column ahead through August for FRENEX. Jerry Lineback, our current LR-C editor will take over SWC in lieu of LR-C starting with the September issue. Effective immediately, anyone having material for the SWC section are requested to send it to Jerry Lineback, P.O. Box 325, St. Joseph, IL 61873. Also, continue to send log reports for LR-C to Jerry until he announces when they should be sent to Andrew Robins, Kalamazoo, MI who will be doing LR-C starting with the September issue.

Dan Jamison, our Listener's Notebook editor is also having to give up his column with this issue. The next Listener's Notebook column will be under the editorship of Glenn Hauser, 1312 West Oak, Enid, OK 73701 and all material for LN should be sent to him.

Our appreciation to both Dan and Charlie for jobs well done, and we hope they might be available sometime in the future to again put on the old eye-shades for another tour. We welcome Glenn back as an editor, and Andy as a new member to the staff.

DSWCI TROPICAL BAND SURVEY III: Carol Feil of The Danish Short Wave Clubs International advises their Tropical Band Survey, 3rd Edition will be available about June 1 and will be off-set printed this year. Copies will be available direct from DSWCI, DK-8382 Hinnerup, Denmark for 5 IRC's via sea mail or 8 IRC's by air mail. This will not be available from NASWA Headquarters as it has been in past years, so place your orders direct. This is a very worthwhile DXing aid.

In the following months, Headquarters will reserve this one page to keep the membership posted on various subjects that may be of general interest.

o o o M.R Leonhardt

Shortwave Center

Charles A. Wooten
4911 Battery Lane, Apt. 1
Bethesda, Maryland, 20014

Japan Today

Transcription of \$ February 1975 broadcast over RADIO JAPAN at 1415 GMT, 5990 kHz, transcribed by Glenn Hauser, who apologizes and takes full responsibility for misspelling of names and occasional wrong words because of reception difficulty.

We now present JAPAN TODAY, a weekly program in which we hope to present various aspects of life and culture of present-day Japan. Today we shall introduce you to some of the increasing numbers of young people in Japan who enjoy listening to shortwave broadcasts from abroad.

"You know, I hate cold - and this year it's terribly cold. So, I listen only to stations in the southern hemisphere--Australia, for instance. I'm not good at English, but they broadcast in Japanese. It's quite amazing: listening to a story about surfing, while I toast myself at the stove. I feel as if it were midsummer!"

That was Yamazaki, a third-year student in a senior high school, who loves to listen to shortwave broadcasts from overseas, in the Japanese language. It was about a year ago that he began to listen to these broadcasts. At that time he was working very hard, and preparing himself for the entrance examinations to a college. He loves music, and whenever he grows tired of cramming, he'll listen to the radio.

One day he happened to pick up a foreign station: the Voice from a faraway country fascinated him, and ever since he has been fascinated with overseas broadcasts. The hobby of listening to foreign broadcasts is rapidly becoming popular among young people in Japan. Of course, there have been fans for many years, but they came from a limited number of the population. And they're usually college students, or people who have left the universities. This is because many of these old fans liked to make their own radio sets, and when they had become capable of making sophisticated models, they learned to listen to shortwave broadcasts.

About two years ago, the average age of the fans dropped, sharply. Even junior high school pupils and primary school children became enthusiasts, to say nothing of senior high school students.

One of the main reasons for the increase in the number of fans is that radio makers began marketing sets capable of receiving shortwave transmissions, at very low prices. Of course, radio sets with a shortwave range...earlier, but even then their frequency bands ranged from 4 to 12 MHz. Sets with wider range were only for professionals, and were very expensive. They retailed at more than 100,000 yen apiece, much too high for young people. Naturally, the sale of all-wave sets, with three shortwave bands, in addition to the mediumwave and FM bands, which are used for domestic broadcasting, at around 20,000 yen, made a very quick and creative shortwave boom.

As a matter of fact, the sale of these new models was a desperate attempt of makers to stimulate demand, as sales had grown smaller. Conventional sets could be found in a big house. So, the manufacturers rapidly changed the design of their sets. The color of the new sets was all black, and with their large dials and numerous features, they looked like a pot (?) facing from the shortwave panel of the best room. It seems that this... a trusted interest of the gadget loving youth.

Stimulated by the spread of shortwave radio, weekly and monthly magazines for young people began to feature stories about techniques and fun of receiving overseas broadcasts. The domestic commercial radio stations started new programs like "A Guide for Tuning to Foreign Broadcasts". Moreover, cassette tapes containing the interval signal music and opening announcements of various foreign stations were placed on sale to facilitate tuning.

With the help of the mass media, this hobby seems to have taken root among the younger generation of this country.

There are many clubs for foreign broadcast enthusiasts in Japan. And the oldest and most popular one is the Japan Short Wave Club. It was established in 1950, five years after the end of World War II, when the ban on the reception of shortwave broadcasts was lifted. So, the club has now spanned 25 years. The original membership of 20 grew to 300 in a few years, and in 1970, it had swollen to about 2000. All these members are adults. And now the greater part of the members, whose numbers jumped to about 5000, are junior and senior high school students. Commenting on this trend is Yoshio Kubayashi, an influential member of the JSWC and the news editor of the club's magazine, has this to say:

"I am glad that the circle of enthusiasts is expanding, but I'm not really unconcerned about it. You see, until recently, many of our members could understand German, French, or some other foreign language, enough to listen in. But, uh, young members, particularly the junior and senior high school students, who haven't studied English long enough, are naturally poor in the foreign tongues. (Everybody studies English, and apparently this is the springboard to learning other western languages--gh) So, they listen only to programs in Japanese. They can't really enjoy overseas broadcasts that well. I know from my own experience, that when you are a junior or senior high school student, you love collecting things, like music and stamps, and you also have passions for football

北京廣播局
編成部
N H K
國際局
編成部
1

and cycling. You have a big...for all kinds of things, so it seems to me that for young people, shortwave listening is only one of them. If they get bored with it after collecting some verification cards, they would throw away their radio sets, and never come back to it. I fear the greater part of the young members would do that. Actually, I've got a junior high school student for my son. And, he's mad about listening to overseas broadcasting; but for the present, he's only interested in programs in Japanese."

Mr. Kobayashi has been listening to foreign broadcasts for a quarter of a century; he's a real veteran. And reports that his son, Hazunori, must enjoy an ideal environment. And so we visited his own little shack, to find him tuning for the ABC of Australia. (Sound of Kookabura)

Hazunori is an animal lover, and likes the ABC which opens with the sound of the laughing jackass. As ABC's program for Japan winds up, his hand turns the dial to the BBC, and immediately gets the station. The BBC is over now, and we give the mike to Kazunori:

"I've been watching my father listening to foreign broadcasts so long that I learned to do the same myself. I started about four years ago, I guess. I can't understand English well, so now I listen only to the programs in Japanese. But, last year I had real fun on two occasions. Uh, I sent reception report to the BBC, with a question, and got an answer on the air. I'd asked what the colour of taxicabs in London is. That's because our TV in those days was black and white. The answer was: most of taxis in London are black. Then the BBC talked about how London cabbies treat their fares."

Kazunori goes on triumphantly:

"The other occasion was with the ABC. After listening quite awhile, I noticed that they never broadcast folksongs. There are many Japanese folksongs which are delightful to listen to. So, I wrote the ABC, asking them to broadcast some Australian folksongs. You know what happened? When they extended the air time last year, they started to broadcast a new program called "Australian Folksongs": So, I tell everybody that it was me that created the program."

So, that's the way that young shortwave fans listen to foreign broadcasts: increase their knowledge of other countries.

"I can certainly get the flavor of the change in the world situation through the programs beamed to Japan by various countries." So says Takahito Akabayashi, a graduate student of Waseda University in Tokyo, who has a ten-year career as a shortwave listener. He is only 25 years of age now, but is a real veteran, and writes reception reports in eight different languages. The number of verification cards he has received in the last ten years exceeds 1000. That's too many to stick on the walls of his room, so he keeps them in albums, and classifies them. Here's what Akabayashi says:

"You're right: the number of shortwave fans is increasing. But what percentage of them will stick it out to the last? Well, there seem to be some whose only purpose is to collect...verification cards. I'll be critical of the present trend. The purpose of listening to foreign broadcasts should never be to gather cards. It's to learn the contents of the broadcasts. Now, you should listen to broadcasts in foreign languages as well as Japanese. Otherwise, you can't be called a fully-fledged fan. In order to do that, it's necessary to study English, or Chinese, or some other foreign tongues, not because you're forced to, as in school, but because you find an actual need for it. That way you can master foreign languages more quickly and efficiently. Since you bought a shortwave set, uh, which is fine even if it's cheap, you should make up your mind to make definite progress. Otherwise, it's a sheer waste of time and money. Then you'll be able to make shortwave listening not a passing fad, but an enduring hobby, I think. And the real fun you get out of this hobby is that you can hear what's happening in a faraway land, directly from that country. You can hear about news or fashions, or other topics right away, and directly from the place they happen. It's an enjoyment that you can never get from newspapers, or from domestic broadcasting stations. And, before you know it, you're deepening your understanding of foreign countries, too. You're killing two birds with one stone, really. I certainly intend to keep listening for the rest of my life."

JAPAN TODAY; the program today was about those young people in Japan who enjoy listening to shortwave broadcasts from foreign countries.



QUICKIES DX TIP DEPT.

via Scott Reeves



Because song titles are sometimes valuable in reception reports, make yourself a nuisance at your local record store by visiting them every few months. Most record stores have free hand-outs put out by radio stations, the stores or record companies, listing the top records of the past week or month. A collection of these lists over several years is very useful in reporting. Next time you hear that familiar pop song on your DX station pick out the main phrases and look for the title on your lists. Often these lists have categories such as "Oldies But Goodies", "Soul" and "Country/Western" to help you find your title. These lists also give the name of the singer/group and the name of the record company.

SWC notes: this starts the summer season. Since most DX is supposedly at a low ebb, why not run up on your roof, pull down your antenna & accessories and give them a cleaning??

COMMUNICATIONS NEWS / MARCH, 1975

NBS Labs Uses Satellite for Time Signals

A successful two-year experiment in broadcasting time and standard frequency signals from an earth satellite has been completed by the Commerce Department's National Bureau of Standards.

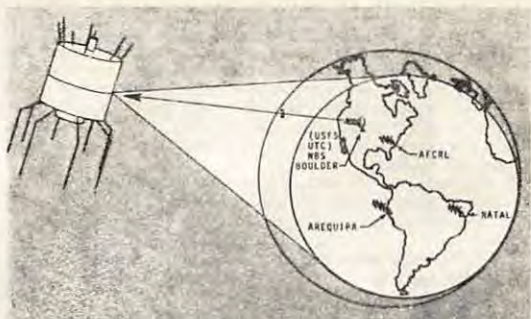
Radiated downward from the National Aeronautics and Space Administration's ATS-3 satellite, the signals came in strong and stable. They blanketed the North and South American continents, much of the Atlantic and Pacific oceans and part of Europe and Africa, for a total of 40 percent of the earth's surface.

Satellite-relayed signals have high signal-to-noise ratios, wide bandwidth (permitting flexibility in signal input) and line-of-sight propagation paths free from fading.

Signals with these characteristics are especially helpful in regulating and monitoring electric power, recording times of earthquakes and other events, monitoring automobile and airplane traffic, controlling timing of digital communications systems and performing other significant functions.

In the future, a satellite system based on this experiment may offer continuous time and frequency broadcasts as dependable as the local AM or FM radio station, covering a large global area with a timing accuracy better than one one-hundred-thousandth of a second.

Such a service would supplement the NBS time and frequency stations, WWV and WWVH, which are limited by noise and propagation path variations, and normally cover only 10 to 15 percent of the earth with equal reliability.



During a two-year experiment, the National Bureau of Standards Lab in Boulder, Colorado relayed, via NASA's ATS-3 geostationary satellite, strong and stable time and frequency signals covering forty percent of the earth.

In the experiment, a frequency-modulated 149-MHz (million cycles per second) carrier wave was transmitted for two 15-minute periods a day from the NBS Boulder laboratories to the satellite, which then rebroadcast the signal back to earth on a 135-MHz carrier.

Four NBS-equipped receiving stations, widely distributed around the point directly below the satellite, determined that these satellite disseminated signals had better than a 25-microsecond timing accuracy. The stations were located at the NBS Lab in Boulder and the Air Force Cambridge Research Laboratory in Massachusetts, in North America, and at the Smithsonian Astrophysical Observatories at Arequipa, Peru and Natal, Brazil, in South America.

During the experiment conducted by Wayne Hanson, Wallace Hamilton and Alvin Clements of the NBS Time and Frequency Division, the satellite-relayed signals were based upon the NBS Frequency Standard and NBS Coordinated Universal Time, both maintained at the Boulder NBS Laboratories. A standard frequency 1-kHz tone, second ticks, voice announcement of the time of day and satellite position and a time code were relayed to the earth twice a day for 15-minute periods. The bandwidth for these signals was 30 kHz. Time recovery required simple techniques and simple path delay computations. Frequency was derived from audio frequency modulations or from time synchronization over a period of days.

Africa, Lesotho, Botswana, Mozambique, Madagascar, Rhodesia, Zambia, Malawi, Tanzania, Angola and Zaire.

In his address Dr. Freed stated that the newest addition to TWR brings its combined broadcasting power around the world to over 3,000,000 watts. He also stated that the station closes one of the greatest gaps in gospel broadcasting, the southern portion of the African continent.

There are currently fifteen families on the staff of Trans World Radio in Swaziland. Dr. Freed said this number would increase as languages and transmitters are added.

Many of the programs carried on the new station are being produced by recording studios located in African nations being served by the shortwave broadcasts. Eventually programs will be broadcast in Xhosa, Shona, Swahili, Chichewa, Ndebele, Mandarin, Afrikaans, German, Portuguese, English and Mandarin.

Trans World Radio, with offices in Chatham, New Jersey, currently has stations in Bonaire, Netherlands Antilles and Monte Carlo, Monaco. The Bonaire facility utilizes two shortwave transmitters serving North America, South America and Europe, and one medium wave transmitter which reaches the eastern half of the United States and South America. The Monte Carlo transmitters include two short wave, one long wave and one medium wave, serving Europe, Asia and Northern Africa. TWR also broadcasts to the Middle East through facilities located on the island of Cyprus.

VIA GLENN HAUSER



Rumor has it he's been dead for 3 years and his wife didn't even know.

December 1974-January 1975-Religious Broadcasting

SWAZILAND (TWR)-In a ceremony attended by nearly 300 government officials, church leaders and local residents, Trans World Radio officially dedicated transmitters which will carry religious programming to listeners throughout the southern half of Africa.

Dr. Paul Freed, President and Founder of Trans World Radio, presided over the dedication ceremonies. A number of government dignitaries led by Prime Minister Hlopho attended the dedication. Speaking on behalf of King Sobhuza, the Prime Minister called attention to the importance of being able to broadcast programs in different African languages from the facility in Swaziland.

The two giant transmitters are the first phase of a building project which will eventually include four shortwave transmitters and a high powered medium wave transmitter. Through the shortwave facility in Swaziland, Trans World Radio will be able to beam the message of Christianity to the Republic of South



Falklanders in No Hurry To Be Shifted to Argentina

The Sunday Denver Post, 9-3-75, via G. Hauser, ace reporter

PORT STANLEY, Falkland Islands - (AP) - These South Atlantic Islands may in time be passed from Britain to Argentina. But the 1,800 islanders seem to be in no hurry - about that or anything else.

"We just don't want change, period," said one Falklander. "We've got a jail we never use, a wonderful slow way of life on the most beautiful part of God's earth. Why change?"

And with a society that willingly tolerates British pub hours, Argentina could have a long wait.

The islands are peopled by "kelpers", mainly descendants of Scots and northern English who take their name from the rich seaweed around their barren but beloved archipelago.

PRESSED IN THE U. N.

The two countries have been arguing over the Falklands since 1833 when the British took possession.

Argentina recently pressed its case in the United Nations, and one Buenos Aires newspaper tried to recruit an invasion army before the government closed it, saying it was meddling illegally.

The official Argentine line is to go slowly, gradually winning over the islanders by convincing them that Argentines are, basically, very nice people.

Argentina provides the Falkland's only air service to the outside world. It offers scholarships to Argentine schools and beams bilingual radio broadcasts to Stanley.

"ALL GENTLEMEN"

"Argentina obviously is careful to send very good men here for the airline, the oil company and other things... all real gentlemen," said one island businessman. "If there's any trouble over the Falklands, you'd never know it here".

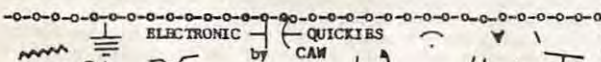
Britain, which has been losing money on the colony for 30 years, would probably be agreeable to a transfer. But not, it says repeatedly, against the wishes of the inhabitants. Acting British Gov. A.J.P. Monk told reporters recently, "There is no conscious program to wean the islands to Argentina. They want status quo...Who can blame them for that."

SOME SUSPICION

He allowed there was some suspicion of Argentina, saying, "The islanders are very courteous and well-mannered people... if it weren't for the claim, Argentines would be as welcome as anyone else."

Some kelpers, and some Argentines, suggest one real solution might be independence. But the islanders would need a lot of help from someone to make it alone.

The only real industry is sheep farming, and wool prices are down. Oil deposits are suspected, but the sovereignty issue complicates exploration and possible production.



Space diversity is a method of using two antennas based far apart by at least 3 wavelengths. Sometimes it works....

House Committee Postpones Vote on All Channel Radio Bill

After two days of hearings on the All Channel Radio Bill which would require all factory-installed automobile radios to be equipped with both AM and FM bands, the House Rules Committee has voted to postpone a vote on whether to send the measure to the floor of the House. Reportedly the Committee voted to defer action since both the bill's supporters and opponents were not sure they had sufficient votes to win.

The Senate has previously passed a comparable measure which would require all radios costing more than \$15.00 to be equipped with AM and FM bands. The Senate version of the bill is not restricted to just car radios.

SWC note: while they are at an impasse, we ought to write Congress to add a provision to make all radios include the major SW bands:

* SUNSPOT PULSE IDENTIFIED
 f from ASTRONOMY for 3-75
 * via cub reporter George
 * Schnabel-----
 *

* In addition to the
 * 11 year sunspot cycle
 * that astronomers have
 * long known about but ne-
 * ver really explained, a
 * mysterious 179 year va-
 * riation in the sun's tem-
 * perament has been iden-
 * tified. Completing a new
 * analysis of 214 years of
 * sunspot records, two so-
 * lar researchers conclude
 * that the 179 year varia-
 * tion results from inter-
 * action between the 11
 * year cycle and a previous-
 * ly unknown shorter cycle
 * of 9.3 years. The two
 * solar cycles set up a
 * "beat" frequency accord-
 * ing to T. Cohen and P.
 * Lintz of Teledyne Geo-
 * tech in Alexandria, Va.
 * About every 179 years the
 * cycles reach peak activi-
 * ty at the same time, mak-
 * ing the sun more ener-
 * getic than usual. Midway
 * between the long period
 * variation solar activity
 * falls to lower than nor-
 * mal as both stellar "hea-
 * rtbeats" peak years apart
 * from each other. The new
 * finding promises increas-
 * ed activity prediction
 * with some very practical
 * benefits. Since the sun's
 * changing electromagnetic
 * mood influences our wea-
 * ther patterns, long range
 * forecasting could grow
 * more reliable. We may al-
 * so better anticipate when
 * global communications
 * will be botched up by
 * "noisy" flares and sun-
 * spots. -----> (cont'd)

For the next 40 years, the researchers predict sunspot cycles will be calmer than those of previous decades. Coming in 1982, the next solar activity peak should offer only half the activity experienced during the last maximum in 1970. Things won't start picking up again until 2015 when we will be back to the surging activity of the late 1960's. Hopefully by then we'll be receiving global communications via laser or some other sunspot-immune medium.

FREQUENCY INTERPOLATION W/OUT GRAPHS

by NASMA scientist Ken M. Duke

I recently acquired a Hallicrafters R-2740 (similar to the SP-600) to augment my Drake R4B. I soon found out that frequency interpolation was required to obtain accurate readout. Reviewing a helpful FRENEX article (Serge Neumann's article 8-74), I began the task of preparing frequency graphs. I used a 25kHz X-tal calibrator and prepared tables relating markers every 25 kHz in the SW bands and 100 kHz elsewhere with the log scale on the tuning dial. Before making the graphs from my tables, I checked my work and found there was sufficient thermal drift and mechanical play to make absolute accuracy impossible. For example, the log scale value 24452 is equal to 9.6MHz and 24589 to 9.625MHz under the mechanical and thermal conditions at the time of the preparation of the table. When I checked the table values later under a different set of conditions, 9.6 appeared 21 units more than the table value; the 9.625 marker was also 21 units in error indicating that calibration was essentially linear between 25kHz markers. In graphing this example, I found that frequency readout using my tables could be as much as 5kHz in error on occasion.

Desiring accuracy on par with the R4B (1kHz) and unwilling to invest the time to prepare graphs of questionable accuracy, I went to a mathematical rather than a graphical calibration technique. This technique involves a modification of the standard interpolation formula to determine a station's frequency:

$$\text{Frequency} = \frac{(S - LM) \times C}{HM - LM} \times FD + FLM$$

where S = log scale number for the SWBC station, LM = log scale number from the table of the nearest marker lower than S; HM = log scale number from the table of the nearest marker higher than S; C = correction factor in log scale units; FD = frequency difference between the 2 markers in kHz; FLM = frequency of the nearest lower marker in MHz; and Frequency = calculated frequency of the SW station in MHz. An inexpensive 4-function electronic calculator is invaluable in performing the necessary calculations.



MANY PEOPLE MOVE DURING THE SUMMER.

IS THIS YOU?



The key to accuracy here is the correction factor "C". This factor is determined by checking at the time the interpolation is being made the accuracy of the nearest 25 kHz marker in the table with the crystal calibrator. The difference, positive or negative, between the marker and the calibrator (marker - calibrator), is then added algebraically to the difference between the SWBC station log scale number and the nearest lower marker number. Applying this interpolation formula to the above example for a SWBC station reading 24478 on the log scale gives, without the correction factor (-21 units), the calculated frequency of 9604.7 MHz. With the correction factor (-21 units) the calculated frequency is 9600.9 kHz. The actual frequency of the station in this example is 9600kHz. An accuracy of 1 kHz has been achieved by using the correction factor.

In practice, I have found using the BFO to zero beat both the SWBC station and the nearest marker to be the most accurate technique. Because of the correction factor, the BFO does not need to be zeroed with WWV or another known standard. Just don't change the BFO pitch setting during the interpolation procedure. To facilitate calculations, I note on my tables the difference between two markers (the denominator in the equation) the first time I make an interpolation using them. Next time around I just refer to the table for that difference.

THE SIERRA LEONE BROADCASTING SERVICE
by Richard A. Schwartz

Today I was privileged to receive information which I requested and solicited from the Sierra Leone Broadcasting Service through the kind offices of MR. B. Pele Roberts, and thought to share this information with the NASWA membership.

The SLBS is a national Radio and TV Broadcasting Service, and as such is a Government Department. Executive personnel include Mr. Joseph W. O. Pindlay, Jr., Director of Broadcasting, Mr. A.C. Ellis, Deputy and Chief Engineer, and there is a full complement of engineering and program personnel.

On Tuesday, 15 October 1974, SLBS celebrated 40 years of broadcasting. On the same day, His Excellency The President of Sierra Leone, Dr. Siaka P. Stevens, inaugurated a new 250 KW short wave transmitting station at Waterloo, approximately 40 km from the capital, Freetown. This new transmitter was built and installed by the Swiss firm of Brown-Boveri. Die Deutsche Welle has been using this transmitter for test transmissions in German. (This might well be the xtr reported by the BBC World Radio Club and noted in LN, PRENDX 3-75, operating on 5980, as reported by Jeff Slaff.)

In addition, SLBS operates a 10 kw short wave transmitter in Freetown on two SW frequencies and on one MW frequency (1,205mhz - 250 meters) servicing specifically the Western area of Sierra Leone. The Waterloo transmitter is capable of operation on either of the two shortwave frequencies of 3.316 and 5.980 mhz, and in addition on 9.630 mhz in the 31 meter band.

The SLBS also operates a television service on Band I, Channel II on 48.25 mhz vision and 53.75 sound according to C.C.I.R. system B. Television transmissions commence at 1630 GMT, and terminate at midnight daily. Radio is being expanded to operate from 0500-0000GMT.

Both radio and television studios are situated at New England in Freetown, and 8 km from the radio transmitting station at Goderich, just outside Freetown.

Both services are organized jointly except for a specialized programming staff. For the future, projects include a new Broadcasting House, a new sound and TV studio complex, two new TV transmitting stations, a new office block, and a new Engineering building; construction is now in progress.

Sierra Leone itself is a small country. The area is 23,000 square miles, and the population is approximately 3 million (Census figures for December 1974 have not yet been released). Sierra Leone is bordered by the Republic of Liberia on the West, by Guinea on the North-West, the Atlantic Ocean on the South, and the Republic of Mali on the North-East. English is the official language, and is the major programming language. SLBS broadcasts in French and in all local language at least once a week, and also provides transcription broadcasts from USA, France, U.K., Germany, USSR, and other countries.

The broadcast schedule as 19-4-75:
5980 0745-1015; 1230-1740 10 kw
3316 0555-0730; 1745-2330 10 kw + 250kw
5980 0745-1015; 1230-1745 250 kw
9630 0745-1015; 1230-1745 250kw

Antennas are four element, vertical, incidence, horizontal array.

Several final items just in: The TV service is operated only on weekends for the time being because of a current maintenance and rehabilitation program.

Radio coverage is being planned for the entire country on MW by 9 new xtrs.

REPORTER'S JOURNAL

HERE WE GO AGAIN....

BRANDON LOVETT'S

Point of View

Uncle Sam to prove his superiority in the shortwave broadcast power war. Yes, the day of the 500 kw transmitter is over, because, if the above mentioned USIA advisory committee has its say, the star spangled Voice of America will air new transmitters of (fanfare please) 2500 kilowatts. Yep, 2.5 million watts ought to show those other countries who's king of the airwaves, shouldn't it?

The Voice of America has perhaps the most elaborate SWBC facilities and relay networks in the world today. From practically anywhere in the world, you can tune into VOA broadcasts in many languages. I would like to challenge the membership of this club to tell me of any place in the world where it is difficult to pickup the VOA, other than where it is jammed. In fact, with VOA broadcasts emanating from four U.S. sites, Liberia, Morocco, the Philippines, Britain, West Germany, Okinawa, two Greek sites, and who knows where else - if you can't hear the VOA, you don't have a working shortwave receiver! I can

think of no legitimate reason for VOA to have to increase the power. If you use the argument that they need it to overcome jamming, this can be shot down by stating the fact that the offending country would simply build a better jammer, and we'd be right back where we started. Many stations with far less power are getting through to their audiences very well.

What would be the consequences of the VOA's operating 2500kw transmitters? We all know that it would add to the already-impossible congestion on the SW broadcast bands, and wipe out even more DX than is being wiped out already by stations operating 500kw transmitters. In addition to that, several other countries will feel the need to compete with us, and they, too, will construct 2500kw transmitters. By that time, the countries that didn't really want to go to the trouble of buying and the expense of operating those 2500kw monsters will, out of necessity, have to go out and get one of those shiny, new, super-transmitters, because that's the only way they're going to get through.

By that time, your favorite 49 meter band Colombian domestic station might as well use its shortwave transmitter for spare parts for the AM station, for all the good it will do them to stay on shortwave. So, we see that if the VOA carries through with the USIA's advice, the power norm will be 2500kw. (About that time, a USIA committee will tell VOA that its about time for the introduction of the first -gasp- 5000 kw transmitter). We've seen the power norm go from 50, to 100, to 250, and now 500 kw, and we'd be foolish to think that Uncle Sam would be the only one in the world operating on shortwave with 2500kw.

Scientific studies have concluded that too much RF is hazardous to the health of the ionosphere. A day is coming when the ionosphere could give out on us completely. Unreliable as it may be, it's the only ionosphere we've got, and we have to take care of it. It's been found that 2500 kw, beamed directly into the ionosphere, can disable it temporarily from reflecting radio signals. Can you imagine half the countries in the world operating six transmitters of 2500 kw, and its effect on the ionosphere? It would be a tragic day for longdistance communications without satellite. And VOA would be the trailblazer.

Let's look at another aspect, in regards to VOA building those supermonsters. Our government is in debt, and we are in an inflationary-recession. People are unemployed. The government is making or considering making cutbacks in such programs as food stamps, etc. Now I ask you, CAN WE AFFORD NEW TRANSMITTERS FOR AN ALREADY OVERSIZED SHORTWAVE OPERATION?? It seems to me that Uncle Sam can use the money it would cost to build, operate and maintain a few 2500 kw transmitters for better purposes. The USIA's recommendation states clearly enough that the only reason for this new high-power equipment is for national ego purposes.

Now, I don't want anyone to get me wrong. I think the Voice of America is doing an excellent job, and has a legitimate, even necessary function. It's just that I don't think the VOA needs to, or can afford to for communication's sake, expand any further.

Wake up America. Write to the USIA and your Congressman. Fellow DX-ers, it's later than you think.

Replacement of USIA. New Autonomy For Voice of America Are Urged in Study

VIA GLENN HAUSER

By a WALL STREET JOURNAL Staff Reporter

WASHINGTON — A prestigious private study group has recommended abolishing the U.S. Information Agency, the government's main organization for cultural-exchange and information work.

It also recommends that the Voice of America, the official American radio service, be given new autonomy. At present, it is supervised by the USIA.

To replace the abolished agency the report—issued by the Georgetown University Center for Strategic and International Studies here—says a new Information and Cultural Affairs Agency should be set up. It would report directly to the Secretary of State, though it wouldn't officially be part of the State Department.

The report also says a new Office of Policy Information should be established within the State Department itself. Its function would be to explain American foreign policy to overseas audiences via the VOA and other federal information services.

Reducing Overlap

Despite forming these new offices, the report says the changes it recommends would eliminate much existing bureaucratic overlap. Although specific figures weren't issued, the study asserts that both personnel and spending reductions would result, while the new agencies would perform more efficiently than those that currently exist.

The study group was headed by Frank Stanton, former president of Columbia Broadcasting System. Its 20 other members include former government officials, educators and members of two quasi-official commissions appointed by the President to oversee U.S. information programs abroad.

Mr. Stanton had two long sessions with Secretary of State Henry Kissinger about the study group's proposals, but declined to say whether the Secretary approved them. However, USIA and State Department information and cultural programs are criticized often, and there is wide agreement that some changes should be made.

Ford Gets Report

Mr. Stanton formally presented the group's recommendations to President Ford at a White House meeting yesterday.

Better management is a main goal of the study, according to Mr. Stanton. He said the commission found much unnecessary duplication between USIA and the State Department, and for the most part favored tightening policy control by the Secretary of State—who sets the foreign policy that the information and exchange programs are designed to promote.

The exception is the Voice of America: the study concluded VOA would have more credibility if it were given additional autonomy. It says a five-member board, with three members from outside government, should set the radio service's policies.

portfolio

APPLICATION OF SHORT WAVE RADIO IN FOREIGN LANGUAGE INSTRUCTION

by Richard A. Schwartz

The utilization of short-wave transmissions in foreign language instruction certainly cannot be representative of innovation or as a unique manifestation. Since the initiation of international shortwave programming in the second decade of this century, the option has been physically within the potential of the language instructor. Myself, as a student and teacher, I have been capitalizing upon this availability in a variety of foreign languages for more than 20 years. (SWC note: he has an AM, ABD, in Germanic Philology)

The advantages of foreign language short-wave transmissions are abundantly apparent. At the most basic level, news transmissions necessarily evidence a positive consistency,

which is of considerable advantage both to the instructor and to the student; whatever the language, or indeed political prejudice or inflection, news enjoys the catholic virtue of being essentially contiguous. Consequently, the student, should he be at all conscious of his own linguistic environment and of the collateral news media, enjoys the initial and pre-emptive advantage of some degree of familiarity with current news per se. This putative familiarity tends to establish a positive degree of communion for the student on a contextual basis with whatever language he might care to explore. Particularly with the Germanic and Romance languages, news context and format enjoy a conspicuous similarity, consistency and confraternity within themselves and, indeed, with English. Admittedly, journalistic expression of the language in news transmissions does not necessarily advertise the optimum literary and stylistic splendour of the particular language, but it does provide the advantage of a native speaker rendering the language in a reasonable approximation of the current idiom.

A quondam glorified mechanic...

Again, as student and teacher, over a spectrum of some twenty years, I have utilized such electrical emissions in my various affectations as student, instructor at the university and high school levels, and as an officer in the United States Army. The predication for effective use of such emissions include the minimum competence of the language instructor to comprehend the language transmitted to that degree, that he can realize an effective and accurate transcription, and the minimal dexterity, that he can comment adequately upon such material to massage at least the more apparent excrendences of grammar, syntax, morphology, and etymology. Taped recordings, in whatever application, do not exculpate the instructor from the obligation of effective knowledge of the language. The inherent and largely realized hazard of the AIM technique, the competence of the instructor is denigrated, and foreign language tends to be rendered by a machine rather than the instructor. However, with instructor generated tapes from a short-wave transmission, the instructor is to some degree coerced to evidence some minimal degree of competence. Otherwise, with depressing redundancy, the educationese doctrinated, pro-forma qualified language instructor in the high school (and other levels - SWC ed) tends to degenerate into the apparition of a quondam glorified mechanic pawing a multiplicity of controls.

Some relative degree of validity...

Currency and contiguity of information is an immediately available advantage of foreign language news transmissions. In my experience, the taping and transcription of a five or ten minute broadcast, at least in unedited form, should require no more than perhaps a half hour, and contemporaneous news can be delivered to the student within a real time frame. The levels of application of taped transmissions are boundlessly versatile, from beginning classes at the high school level to undergraduate and graduate level utilization. At whatever level of endeavour, the currency of news programs provides the advantage of a contextual criterion and pre-conditioned frame of reference for the student. Even at some point in the progression of a first year German class, such news broadcasts can enjoy some relative degree of validity, at least to the extent that the student can hear and exercise the basic sounds of the language.

Language...does exist in the real world...

In any event, current short-wave derived tapes do at least serve to advertise to the student, particularly the young adolescent student, that the particular modern language is not confined to the strictures and arbitrary and apparently synthetic covers of a textbook, but that the language does have currency, vitality, validity - - that it does exist in the real world.

(My apologies to Mr Schwartz for using the red pen rather freely, but I hope that the main point was brought out. The rest of you out there surely have an opinion on modern day language instruction. Why not write your opinion here to SWC??)

'Good Old Days?'

with Adam Gaffin

I walked into the main library in Brooklyn and asked for the oldest available copy of the World Radio and TV Handbook. Twenty minutes later the librarian came back with the World Radio (no TV) Handbook of 1952. Here's what shortwave radio was like back then:

First, the Handbook. It was 120 pages long and cost \$1.25 (How to Listen to the World was 40¢). An ad from Phillips Electronics offered a free 30" x 42" world map (in 16 colors) showing the locations of most SW stations. (Try doing that today!) There were also ads from CBC, WOA, and Sverige Radioklubb.

The U.S had 8 private SW broadcasters including CBS in New York, New Jersey, and

Delano, California; NBC in Boundbrook, N.J.; Westinghouse in Hull, Mass., and General Electric in Schenectady, N.Y.

The CBC used 9 transmitters scattered across Canada for its domestic service. RCI or the CBC International Svc. had an address of Box 7000, Montreal. It had programs in Dutch, Danish, Swedish, Norwegian and Italian. There were 10 private SW stations.

Cuba and Panama each had 16 commercial shortwave outlets.

Denmark could be heard via the Voice of Denmark in English 0130-0230 and 0300-0400. There was a DX transmission on Wednesdays at 2215-2230.

On the extinct country list, Andorra, Hong Kong, Surinam, Western Samoa, Jamaica, Trinidad and Macao all had SW outlets. VOA used a transmitter site in Moiliili, Hawaii. The Belgian Congo (now Zaire) had International Goodwill Station OTC which had a 2 hour program in French and English for the US and Canada. They also had a DX Club which you could join for a small fee.

There was Nortmalaysia, as there was no Malaysia. Broadcasting was in the hands of the British Far Eastern Broadcasting Service; and there were two networks: Red and Blue. In VietNam, it was Radio France-Asie. Sweden Calling DX-ers, Australian DX-ers Calling, and Happy Station (with Eddie Startz) were already on the air. HCJB broadcast in 19 languages. Israel used 3 out-of-band frequencies, including 9009, for its programs for Israeli seamen, and for Jews abroad. There was an hour and 15 minute English transmission.

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-0-

Adam goes on with further facts taken from Kane's "Famous First Facts":

The first license granted by the FCC for a SW station was to Experimenter Publishing Co. in New York on 15 October 1927. It operated on 9700 kHz with 500 watts. In 1929 it was bought by the World-Wide Broadcasting Foundation and moved to Boston where it received the call letters WJAZ. (This is the ancestor of today's WYFR).

The first round-the-world broadcast was accomplished in 1/8th of a second on 30 June 1930 via a series of relays when Clyde D. Wagoner spoke into a SW microphone at WZKAD Schenectady, N.Y. His voice was beamed towards Holland, then to Java, from there to Australia, and back to North America.

THE FOLLOWING WAS RECEIVED VIA NASWA MEMBER R. B. ODLIN:

I am currently doing Ph.D. dissertation research into the history of early short-wave broadcasting from this country for the period 1916-1939. Several companies operated these early stations including General Electric, Westinghouse, Crosley Radio, NBC, CBS, and World Wide Broadcasting. The programs were mostly simulcasts of their sister MW standard broadcast stations. Some of the call letters were W2XB (WCBX), W2XAL (WLWO), W2XAD (WGBA), W2XAF (WGEO), W6XBE (KGBI), W4XB (WDJM), W3XAL (WRCA), W3XL (WNBI), W3XAU (WCAB), W1XK (WBOS), W8XK (WPIT), W1XAL (WRUL), W9XF, and W9XAA. I would appreciate any information anyone has on these stations. If you think you have something, you can write me: M. Kent Sidel, Radio-TV Department, Speech Annex, Northwestern University, Evanston, Illinois, 60201, USA.

"THE BEEB IS LOOKING FOR A NEW HOME"

(15 Nov 74 issue)

by Russell Spur, a Far Eastern Economic Review
correspondent - - - via Glenn Hauser

British Broadcasting Corporation (BBC) broadcasts to Asia will be seriously curtailed if the Malaysian Government refuses to renew the licence, which expires in March 1975, for the Johore Bahru relay station. Although there is the chance that the Malaysians will grant a short extension, they are believed to be apprehensive about offering foreign broadcasting facilities anywhere on their territory for fear of offending China.

British officials claim that their two language services beamed to China are factual and non-controversial. Their contacts with Chinese embassy officials leave the distinct impression that the broadcasts are actually appreciated by listeners in China. So far, the Malaysians remain unimpressed, which means that the BBC has had to start looking for another site.

The Johore Bahru relay was established during the postwar colonial period. Modernised in 1967 at a cost of over 2 million pounds, the ten transmitters now beam as far afield as Turkey and Soviet Siberia. The revamped station has been particularly successful in building up an audience in Japan, where scientific and cultural programmes are often picked up by the domestic networks.

The BBC Overseas Service originates in Bush House in the centre of London and it puts

out 39 foreign language services worldwide, fourteen of them to Asia; that includes everything from Mandarin and Cantonese to Nepali and Pharsee. The Vietnamese service won a particularly appreciative following during the fighting which led up to the Paris Agreement. Others, like Burmese and Sinhalese, are also popular, if the flow of letters into London is anything to go by.

About one-third of the entire budget goes on the Asia service: somewhere around five million pounds. An impecunious British government is already cutting back. Some eight hundred thousand pounds in revenue and capital investment were lopped off last year and there have been since threats of a further 10% cut. Officials hope this latest pruning has been postponed; with inflation eating into revenue, the need is for more money rather than less.

The Malaysian Government's refusal to accommodate the BBC could not have come at a worse time. Moving to a new site will cost money the Corporation can scarcely afford. Engineers have made surveys in Brunei, where the long-term political future looks doubtful, and Singapore, which is growing more reluctant to put dwindling real estate at the disposal of foreign broadcasters. In fact, the whole idea of offering such facilities in the ere of detente is becoming increasingly unpopular throughout Asia.

What about the British colony of Hongkong? Apparently the BBC have tried that and drawn a blank. A Coporation official put it this way: "Hongkong is only interested in something non-political that generates money. A relay station does not fit into that category."

Carroll R. (Pat) Patterson

PRESENTS



THE CHECHENO - INGUSH REPUBLIC

The Chechens and their relatives the Ingush, both Caucasian peoples, were conquered by the Russians during the period 1801 - 1818. These Moslem peoples constitute 58% and 13%, respectively, of the republic's population of 732,833. The Checheno-Ingush Republic is located in the northern slopes of the Caucasus, southeastern European RSFSR. It has an area of 6060 sq. miles and is mountainous. The natural resource of most importance is oil. Grozny, the Republic's capital, a city of 300,000, is located on a stream that feeds the Terek River. The Russians established Grozny as a frontier fortress in 1818. It is an important petroleum centre. The Republic was established in 1920 by combining the Chechen and Ingush autonomous areas of the North Caucasus Region. During World War II these two peoples collaborated with the Germans who were trying to reach Grozny, but never did. The Soviets, as punishment of the Chechens and Ingush, abolished the republic 1943-44. It was reconstituted in 1957.

There is no shortwave broadcasting activity in the Republic according to the FBIS list of 1971.

*****QRP TOTALS*****

S W C Editor Pauses:

Ed Insinger's totals are shown here and says that they'll never compare to those of Marvin E. Robbins!

I wish to thank all those people who knew of the death of my daughter, Megan, on 12 April 1975, for their cards, letters and calls of sympathy. Your well-wishes were much appreciated.

CONTINENT:	CALL:	FREQ:	WATTS:
N.A.	CKZN	6,160	300
S.A.	LOL	15,000	2000
EUR	RNI	6,205	10,000
AFRICA	St Denis	2,446	4,000
OCEANIA	VL16	6,090	2,000
ASIA	VoMet	6,900	2,300
TOTAL			20,800

As I type this, on 30 April, I do not have too much more time in the USA - I am being transferred to the USS Gilmore, which is homeported in Sardinia, Italy...shortly after 1 July. (Come on, Ed!)

As yet, I do not know who the next editor will be - keep an eye for his address on other pages of FRENDX. I've been asked to complete the next two issues, and I will do so as I have just enough material to do so. If no new name has been announced as Editor by the time you read this, I strongly urge that YOU volunteer to keep NASWA going by helping to write this column. These 10 pages take less than 7 hours, and I am sure that someone has that much time to spare for NASWA. Thanks again - - and goodbye! CAW



"The Falklands is QRM-ing the Grape-vine!"

EDITOR:

Neal A. Perdue, WDX4NAP
4937 South Bilrae Circle
Millington, Tn. 38053 U.S.A.

Next Deadline: 15 August 1975

SCOREBOARD is published quarterly in March, June, September, and December. SPOTLIGHT this month is on ASIA, and will fall on EUROPE in September.

An annual update is required to remain in the active-file.

My anticipated move to Falkville, Alabama had to be postponed and the above address will be valid until further notice.

C/H= Countries Heard, C/V = Countries Verified, S/H = Stations Heard and S/V = Stations Verified.

REPORTER/LOCATION					ASIA		BEST QSL/FREQUENCY
	C/H	C/V	S/H	S/V	C/H	C/V	
1 Don Jensen, Wisc	220	215	---	---	---	---	-----
2 Gerry Dexter, Wisc	213	209	1009	801	---	---	-----
3 Dan Henderson, Md	209	197	---	---	62	56	R. Hong Kong 3940
4 Ed Shaw, Cal	206	191	598	324	62	53	R. Hong Kong
5 John Campbell, Switz	205	182	---	---	58	50	AFRS Tokyo 3900
6 Ernie Behr, Ontario	205	175	1012	295	60	45	R. Brunei 4865
7 Bob Padula, Australia	203	198	---	---	---	---	-----
8 Marvin Robbins, Neb	203	166	801	434	54	36	XTPA Canton 11650
9 Bill Sparks, Cal	201	196	---	594	---	---	-----
10 Al Niblack, Ind	200	125	---	---	---	---	-----
11 Alan Mayer, Ill	199	153	586	264	58	35	DZH-9 Phillip. 11855 Bangkok Met Stn 7863
12 Bob Hill, Cal	199	4	---	---	---	---	-----
13 Marlin Field, Mich	197	192	782	633	---	---	RRI Sorong 4872 Port. Timor 3668
14 Ralph Perry, Ill	197	185	---	---	57	51	-----
15 Scott Reeves, Md	196	159	717	---	---	---	-----
16 Dan Robinson, Pa	195	144	---	---	---	---	-----
17 Jim Hagen, Va	195	92	---	---	52	15	Bangkok Met Stn 7863
18 Alan Roth, N.Y.	194	179	595	447	49	41	Voice of Goa
19 Irv Johnson, Cal	179	53	---	---	---	---	-----
20 Victor Jaar, Quebec	178	4	---	---	---	---	-----
21 Larry Yamron, Pa	173	139	---	---	---	---	-----
22 Albert Garrou, Ill	172	128	---	---	---	---	-----
23 Tom Gavaras, Mn	169	129	304	227	44	30	VTVN 9620
24 Bill Whitacre, Mich	166	116	---	127	44	28	Azad Kashmir 4730
25 Steven d'Adolf, Tx	165	137	221	184	---	---	-----
26 Albert Miller Jr, Oh	164	141	369	173	---	---	-----
27 Hank Michalenka, R.I.	154	130	274	147	41	27	R. Baghdad 9610
28 Neal Perdue, Tn	163	54	---	---	40	12	R. Pakistan 4880
29 Myron Smith, N.Y.	162	126	---	109	37	26	V of Vietnam 15012
30 Charles Wootten, Md	158	123	402	284	43	29	RRI Yogyakarta 5047
31 Jeremy Valdes, N Scotia	157	72	---	133	---	---	-----
32 Fred Baines, N Scotia	155	145	281	271	---	---	-----
33 John Sgrulletta, N.Y.	154	149	---	---	---	---	-----
34 Doug Snyder, Cal	153	112	---	---	---	---	-----
35 Larry Abraham, Mi	152	115	294	154	40	24	RRI Java 4932
36 Mike Ryan, Cal	151	151	---	---	---	---	DZ-17 Philip. 6080
37 Ed Kusalik, Ontario	143	123	180	144	---	---	-----
38 Jerry Lineback, Ill	143	76	287	93	---	---	-----
39 Jerry Stuart, Ok	140	120	222	200	---	---	R. Singapore 11940
40 Steve Estes, Va	140	67	266	77	---	---	-----
41 Elliot Straus, N.J.	139	63	---	---	24	8	R. Brunei 4865
42 Joe DiLeo, Ct	138	112	334	180	29	19	Yemen 7190
43 Richard Schwartz, Del	138	98	134	181	---	---	-----
44 Neal Kolb, Fla	137	74	286	---	33	16	-----
45 Charlie Brunner, Pa	131	58	---	---	25	8	V of Turkey 11880

REPORTER/LOCATION	C/H	C/V	S/K	S/V	ASIA		BEST QST/FREQUENCY
					C/H	C/V	
46 Andrew Lappas, Ill	130	110	130	118	---	---	-----
47 Joey Nonnast, Tx	130	110	229	155	35	28	Sarawak 1950
48 E.L. Greer, N.C.	130	80	---	---	35	16	Jordan 7155
49 Greg Kelley, Va.	129	76	152	125	---	---	-----
50 Bryn Brandt, N.Y.	129	67	---	79	25	10	Luxait 9715
51 Hadley Cress, Va	126	6	---	---	21	2	330, Malaysia 15310
52 Denny Driscoll, N.C.	125	112	---	---	---	---	-----
53 Bill Paschke, Wisc	125	77	261	98	31	14	WREV Iran 15054
54 Wade Smith (?)	122	70	---	---	25	13	R. Singapore 11940
55 Keith Russell, Ill	121	53	---	---	19	9	Bangladesh 17935
56 Rick Sharnes, N.J.	120	93	---	---	---	---	R. Pakistan 11072
57 Carroll Patterson, Ga	114	102	315	158	---	---	-----
58 Arthur Smith, Ala	111	80	147	94	19	13	R. Iraq 15400
59 Woody Seymour, N.C.	110	92	155	120	---	---	-----
60 Derrell Duxton, Cal	109	71	---	---	---	---	PHRC Philippines
61 Michael Ager, N.S.	107	73	341	76	---	---	-----
62 Mac Leonhardt, Ind	107	65	---	---	24	11	VOPL Korea 14420
63 Pitt McNeil, D.C.	104	82	---	100	16	9	V of Vietnam 15012
64 Mike Hardester, Cal	103	56	153	135	25	23	Vol. R. Command 14460
65 Henry Lazarus, La	102	60	264	177	17	14	R. Pakistan
66 David Ball, Ontario	102	85	156	112	---	---	-----
67 William Zuk, N.Y.	102	64	---	---	22	14	R. Vietnam 10040
68 Jeffrey Powers, Pa.	98	61	163	67	---	---	-----
69 Allan Courtney, Ky	90	40	187	45	15	6	---
70 Edward Pyatt, Ga	96	86	177	100	20	17	R. England 7950
71 Irving Kaufman, N.Y.	91	53	103	65	---	---	R. Luxait 11345
72 Mildred Marshall, N.D.	84	66	156	124	---	---	-----
73 John Volk, Cal	74	84	110	101	---	---	-----
74 Corby Wohl, Ga	74	10	161	111	---	---	-----
75 John Moritz, Oh	91	22	130	72	17	7	Iran 9022
76 Dan McCarthy, Ind	89	67	117	87	19	8	---
77 Brian Price, Ky	89	40	153	50	---	---	-----
78 Philip Wales, Wisc	86	74	135	102	17	14	R. Bangladesh 17035
79 Jim Davis, Cal	81	59	156	78	22	13	R. S. Sarawak 5005
80 David Coursey, Tx.	80	11	136	56	---	---	-----
81 Kevin Atkins, Ala	78	38	103	45	---	---	-----
82 Henry Pine, N.Y.	77	55	80	64	9	4	---
83 Greg Ravenhorst, Minn	75	70	101	96	---	---	-----
84 Donald King, Pa	75	67	114	92	1*	11	R. Tashkent 9600
85 Andre Pineault, Quebec	75	51	127	54	---	---	-----
86 John Walenter, Ill	72	67	75	72	---	---	R. Iran 15004
87 Adam Gaffin, N.Y.	71	49	132	59	---	---	-----
88 Bryan Dorbert, Md	70	40	107	55	10	7	Sri Lanka 1100
89 Ciro Guarducci, Br Col.	68	60	142	92	---	---	-----
90 Arnold Lausevich, Wisc	68	34	90	53	3	8	VOA Philli. 11760
91 Greg Krause, Minn	66	45	92	50	12	10	R. Tashkent 6075
92 Frank Hermann, Quebec	65	52	89	61	---	---	-----
93 Larry Talbot, Wisc	64	43	---	---	10	9	Iraq 9745
94 Gus Miller, Cal	61	38	90	59	---	---	-----
95 J. Cole, Col	60	39	70	43	---	---	-----
96 Pat Tobin, Pa	59	36	74	31	---	---	-----
97 Bruce Schoenfeld, Ct	55	35	76	47	6	4	R. Luxait
98 Jerry Slaff, N.S.	49	43	75	58	5	4	V of Turkey 11000
99 Rex Wockner, Ill	48	47	69	65	6	6	V of Vietnam 10040
100 Gary Culbertson, Md.	48	34	63	30	7	2	---

Countries List Chairman Don Jensen advises that one country was mistakenly omitted from the NASWA Country List, Revised Edition, 3-1-75. Add: 91a. French West Africa (Upper Volta)-- Ouagadougou-- X-- French West Africa to 8-5-60, Upper Volta since then-- AF--.

Also, Al Sizer suggests- and I agree- that we could delete the S/K and S/V columns and include such info in Scoreboard as the year that the DX'er started in the hobby and the number of locations DXed from. I think for purposes of dividing the U.S. into zones for the latter, BCNA, WCNA and Mid-U.S. should suffice. YOUR COMMENTS WILL DECIDE THIS! 73,

NAP

LISTENER'S



Glenn Hauser
1312 West Oak
Enid, OK 73701

Deadline: 15th

It has been my duty, but a pleasurable one, to be your LISTENER'S NOTEBOOK editor for the past two years or so. This will be my last edition of LN as your editor. Starting next month, the LN editor will be Glenn Hauser of Enid, Oklahoma. I thank all the contributors to LN over the many months for their contributions which made LN possible. Effective now, all further contributions should be addressed to Glenn at the above listed postal address. Once again gang, many thanks for your support. Now please join me in supporting our newly appointed LN editor, Glenn Hauser, and all of the FRENEX editors to produce the hallmark of DX and SWL publications - FRENEX. (Dan Jamison)

AUSTRALIA It has been decided that the new Western Australia Radio - Australia relay base will be at Carnarvon, recently vacated by the US tracking station. (a W.A. reporter in SGDX via Glenn Hauser, OK)

BELGIUM The summer EE sked to NA lists kick-off time on 9730 at 2255. The pgm runs till 2315. 11855 runs to SA, also during the same time slot. At 0400-0100, tune 6080 (to NA) and 9730 to SA. Though the published sked gives the DX pgm only on the 4th Monday of the month, it is repeated on the 2nd Monday, according to Acmts. (Glenn Hauser, OK and Dr. Richard Wood, NY)

CAMBODIA The Republic of Khmer's former "Radio Phnom-Penh" has closed and their last b/c was hrd on April 16. After occupied by Khmer Rouge forces on April 17, the sta was silent until April 20, and 4907 came back on the air on April 21 with uninterrupted revolutionary music. Since April 22, the sta began regular b/c's under the name of the Voice of - National United Front of Kampuchea. The new sked for the sta lists transmissions fm 2300-2400, 0400-0500, and 1100-1500 on 918 and 4907. The sta ID in Cambodian is "Thini Phnom-Penh, Sathani Withayu Phsay - Somleng Bonnace Roup Roun Cheat Kampuchea".

(many thanks for your observations Isao - Isao Ugusa, Japan)

CLANDESTINE The Korean sta, R. Echo of Hope, now b/c's at 0200-0500, 0900-1200, and 1230-1530 on 6348.

Radio Mother of Viet Nam and Radio Motherland Viet Nam closed on April 21. Until then, M-O-V had operated 24 hours a day. The Voice of the Patriotic Militiamen's Front also closed on April 21 (or 22).

After the liberation of Phnom-Penh on April 17, VNUFK operated w/an extended sked fm 0000-0500 and 1030-1630 on various freq's. But now the sta has ceased clandestine operations.

(this information via Isao Ugusa, Japan)

FINLAND Radio Finland has been appealing for letters to it and to its embassies, protesting possible cancellation of EE b/c's at the end of May or sometime this summer. On at least one day, 5/9, nothing ran but an IS for 30 minutes of the EE segment at 1400. (Glenn Hauser, OK)

GERMANY, WEST DW has discontinued their regular NA svc but they now have a 20 minute, twice daily pgm of news and topics to NA in EE. Give them a whirl at 0130-0150 on 6010, 6040, 6100, 9690, 9565, and 11865. Or try at 0530-0550 on 6075, 6185, and 9545. (thanks to Gladys Keller, NY)

INDOCHINA The following events have taken place w/the conclusion of Viet Nam and the Cambodian fighting:

- * The Voice of the Nat'l United Front of Kampuchea: Went off the air on April 22.
- * Radio Liberate the Southern Part (6320) went off the air on April 17.
- * Radio Destiny of the Fatherland; The Beloved Voice of Peace; (6990) was still on the air on the 17th of April when Phnom-Penh fell. Anti-communist type pgm'ing...off by April 21.
- * Liberation Radio: no change - 4995, however, relays HS now. 7490 and 10020 noted.
- * South Korea's Voice of Hope: (6348) now at 1100, ex-1230.
- * Other of Viet Nam: (7085 and 9810) off on April 22.
- * Phnom-Penh: 4907 off on April 16 - returned April 21 w/ Khmer Rouge pgm'ing, not // of VNUFK.
- * Saigon continued till April 30 when at approx 1430, the sta changed hands and started calling itself "RADIO SAIGON LIBERATION and

USSR Our resident Soviet DX'pert, Bill Davis, CA, has sent the efforts of his many laborious hours of monitoring the Soviet Far East Transmitter Sites to LN in order for you to benefit from his efforts. Many thanks Bill! Here are Bill's observations.

"Radio Moscow" To North America From Far East Trans. Sites.

KHz.	LOCATION	GMT	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800
9710	PETROPAVLOVSK												E
11960	PETROPAVLOVSK							A					E
12020	PETROPAVLOVSK												E
12050			U	E	U	E	U						E
15100	VLADIVOSTOK												E
15130	KHABAROVSK							A					E
15180	KHABAROVSK							A					E
15210	PETROPAVLOVSK		U	E	U	E	U	E					
15245	PETROPAVLOVSK		U	E	U	E	U	E					
17720	PETROPAVLOVSK		U	E	U	E	U	E					
17900	VLADIVOSTOK			E	U	E	A						

U = UKRAINIAN, RADIO KIEV.

A = ARMENIAN, RADIO YEREVAN

E = ENGLISH

* U = UKRAINIAN ON T, W, F, SU. ENGLISH ON M, TH, SA.

* A = ARMENIAN/ENG. ON T, TH, SA, SU. MAYAK H. Svc. RUSS ON M, W, F.

"KAMCHATKA RADIO" SCHEDULE.

KHz.	USED:
7100	1700-2030
7160	1700-2030
9600	1630-2030
12010	1700-2030

ALL AT
PETROPAVLOVSK,
KAMCHATKA.

GMT	1600	1700	1800	1900	2000	2100
SUN.	M	M	M	M	P.O.	P.O.
MON.	M	M	M	M	M	M
TUE.	M	M	M	M	X	KR
WED.	M	M	M	M	P.O.	P.O.
THU.	M	M	M	M	X	KR
FRI.	M	M	M	M	P.O.	P.O.
SAT.	M	M	M	M	X	KR

M = MOSCOW PGM 2 (MAYAK).

X = MOSCOW PGM 1A (FAR EAST VERSION).

P.O. = "RADIO STATION PACIFIC OCEAN (FROM VLADIVOSTOK)

KR = "KAMCHATKA RADIO" (LOCAL TO FAR EAST).

And once again it comes time to thank our contributors to LN this month for their valuable contributions. Also let me thank all who contributed to LN during my tenure as editor. There is just enough space for me to end with the familiar ...

MAN-MADE NOISE

by CHARLES A. WOOTTEN

I. Sources of man-made noise.

The first step in solving a man-made radio noise problem is to locate the source of the noise. The kind of noise heard in the receiver may offer a clue to its source. Here is a short list of some of the types of man-made noise sources:

TYPE OF NOISE	POSSIBLE SOURCE
Clicking, regular or irregular	Calculating machines, (electric) Flashing signs Relays, Switches, Telephone dials Traffic signals Typewriters (electric)
Popping	Ignition systems Regulators of vehicular charging generators
Buzzing	Buzzers Electric Razors Vibrators
Humming	Antenna too close to power line Faulty receiver Poor ground connection Defective tubes
Continuous sputtering	Arc welders; defective insulation; loose contacts; low speed generator; Loose fuses; neon signs; various electrical office equipment.

II. Devices for Locating Man-Made Noise Sources

As an exploring device to trace the source of local magnetic fields, a small handmade loop consisting of a few turns of wire an inch or so in diameter can be connected to a well-shielded, battery-operated receiver with its automatic volume control (avc) circuit disabled or a radio interference measuring set. The connection between loop and receiver should be shielded and the shield connected to the receiver ground post. If only the magnetic field is wanted, the input system, including the loop, should be shielded and balanced, and the shield of the loop should be split, as in a direction finding loop, to prevent the flow of large circulating currents in the shield.

Another exploring device for locating high electrostatic field intensities can be made by taping about an inch of the center conductor of a piece of coaxial cable and connecting the other end of the center conductor to the antenna post. The outer conductor of the coaxial cable is connected to the ground post of the receiver and thus the receiver is operated with one side grounded. The bare portion of the center conductor serves as the electrostatic probe.

Use of the exploring devices mentioned above may give a source direction that is not the actual source of the noise. Man-made radio noise in the range below 30 MHz may follow wire lines for several miles. The noise may also be transferred from one wire line to another, although the two wire lines are not physically connected.

This series on Radio Noise will be continued at various times in future issues of FRENEX. Topics to be covered will be the continuation of man-made noise, atmospheric noise, cosmic noise, and solar noise, complete with diagrams, and explanations on how various types of noise become a controlling factor in radio reception.

We sincerely hope this series will better help you to understand the causes and sources of a noise producer and how to combat its effects.



LOG REPORT

Section A

1605 - 5899 kHz

EDITOR: Bob Hill, W1ARR/6
1626 Bonita Avenue
Berkeley, CA 94709

ASSISTANT
EDITOR: Kevin Szot

DEADLINE: 15th of month

Riddle: Why is summertime low-frequency DX'ing like the halftime entertainment at a high-school football game? Answer: Because the bands are lousy! . . . Uh, well, OK, let me put that another way . . . er . . . Anyway, those stout-hearted souls who keep on listening and reporting to Section A deserve a lot of credit. It's not everyone who has the intestinal fortitude to defy QRM, QRN, QSB and QESR (Editor's Sarcastic Remarks).

By the way, ol' "Blockhead" Szot was extremely pleased with his birthday card, which got back to California with only a few days to spare! Tnx, gang. Kevin was also the proud recipient of an R-390 and an Ameco PLF preamp, so watch for his reports to be better than ever. (He may even be getting a clock soon . . .)

You say you really liked that riddle? OK, here's another one: Why is this month's LR-A like Old Mother Hubbard's cupboard? . . . Riiiiifight!

- 2340 NEW BRITAIN I. R. West New Britain. 0940 church mx, Pidgin; F (Szot).
- 2376 NEW GUINEA. R. Chimbu. 0951 light mx, Pidgin; F (Szot).
- 2390 GUATEMALA. Voz de Atitlán. 0355 light mx, SS talk; 0400 anct, 0407+ hymn. Vy strong for only 300 w. (Kusalik). UnID 0530-0550 LA vocals, SS; F/P (Shingler).
- 2410 NEW GUINEA. R. Goroka. 1024 mx pgm; wk (Field). 1115 EE, vocals; G (Lineback).
- 2428 (T) NEW IRELAND. R. New Ireland. 1117-1135 lang, W ancr, mx; not positive, cud have been Chinese, hence PLA (Lineback 4/20).
- 2450 PAPUA. R. W. Highlands. 1125 C6W mx; P (Lineback). 1214 Pidgin ID, mx (Szot).
- 2468 PAPUA. R. N. District. 1125 mx in lang; P (Lineback 4/20).
- 2490 SULAWESI. RRI, Ujung Pandang. 1422 continuous Indo vocals (Padula).
- 2510 S. KOREA. KBS, Taegu. 0953 KK, clas mx (Szot). 1424 KK talk; P (Padula).
- 2601 CHINA. PLA, Fukien. 1430 CC ID after play (Padula 5/2).
- 2653 UNID. 1232 light clas mx, no ancts past 1242; G (Szot 5/11).
- 2775 N. KOREA. Hamhung. 1434 KK nx correspondent's report (Padula 5/2).
- 2850 N. KOREA. KCBS, Pyongyang. 1437 KK pgm; strong (Padula 5/2).
- 3200 CHINA. PLA. 1445 loud CC pgm (Hanner 5/2).
- 3203 UNID. 0927 in PP(?) to 0929, when mx for 15 sec; past 0948 with talk, mx (Szot).
- 3205 DOMINICAN REP. Voz de la Libertad. 0405 SS mx, ID; RITY QRM (Lucas 4/26).
- 3205 INDIA. AIR, Lucknow. 1446 Indian chants; hets all over the place (Hanner 5/2).
- 3220 CHINA. R. Peking. 1452 CC play; not sked this period of year (Hanner 5/2).
- 3220 NEW GUINEA. R. Morobe. 0938 Pidgin with church chorals; F-G (Szot). 1040 mx to 1050, when talk to 1110 fade (Field).
- 3223 BALI & LESSER SUNDA IS. RRI, Mataram. 1453 Indo pops; very strong (Hanner 5/2).
- 3223 SWAZILAND. Swazi Mx R. 2135-2200 pops, extended sked; G (Padula 4/26).
- 3240 PERU. R. América. 0230-0250 SS, LA mx; IDs 0239 and 0245; G (Brunner).
- 3241 MALUKU. RRI, Ambon. From 0815, EE pops, M host in Indo // 7139 (Shaw).
- 3250 KALIMANTAN. RRI, Banjarmasin. 1500 gamelan mx (Hanner 5/2).
- 3250 S. AFRICA. SABC. 0410-0415 lang talks by M&W; P (Lineback). 2130-2140 light mx, EE ancts (Padula). 2330 continuous light mx, 2332 ID; 323 (Lucas).
- 3255 VENEZUELA. Voz de El Tigre. 0210-0258 tropical mx, TC; NA 0258* (Tuchscherer).
- 3260 CHINA. Kweiyang PBS. 1456 CC cultural pgm (Hanner).
- 3265 MOZAMBIQUE. RCM, L.M. 2134-2136 EE ads (Padula).
- 3275 PAPUA. R. S. Highlands. 1040 C6W mx to 1100 fade (Field 4/29).
- 3275 VENEZUELA. R. Mara. 0304 ID, TC, freqs, M (Lucas).
- 3277 JAVA. RRI, Jakarta. 1504 mx; vy strong (Hanner). On late 2100-2200 with puppet plays; vy strong (Padula 4/26).
- 3280 ECUADOR. Voz del Napo. 0317 Andean mx, SS ID; moderate het; 323 (Lucas).
- 3285 S. AFRICA. SABC. 0410-0415 EE talk; F. Not dual 3320 (Lineback).
- 3286 JAVA. RRI, Madiun. 1509 relay Jakarta mx; vy poor sigs (Hanner).
- 3290 GUYANA. CBS. 0815-0830 Hindu mx; F-G with heavy RITY QRM (Shingler). 0923 just barely audible with EE and mx (Szot).
- 3288 MALAGASY REP. RTVM. 1507 FF pgm, 1510 African chants; hets from Peking/3290 and

- Madiun/3286. Seemed early fade-in (Hanner 5/2).
- 3290 CHINA. RP. 1511 CC nx (Hanner). ner).
- 3294 JAVA. RRI, Samarinda. 1512 relay Jakarta nx; 1513 ID, 1514 anthem to 1515* (Hanner).
- 3300 CHINA. PLA. 1515 CC with fa (XYL) and ma (OM) (Hanner).
- 3300 GABON. RTVG. 2140-2150 FF ancts after Bujumbura s/off same freq (Padula 4/26).
- 3306 RHODESIA. RBC. 2130-2200* EE pops. Af Svc on extended sked (Padula 4/26).
- 3315 INDIA. AIR, Bhopal. 1516 Hindi cmtry; G (Hanner).
- 3316 SIERRA LEONE. SLBS. 0652-0700 EE nx, pops, BBC nx, ID; strong; RTTY (Shingler).
- 3320 N. KOREA. R. Pyongyang. 1517 HS pgm, serious KK traditional songs (Hanner).
- 3320 S. AFRICA. SABC. 0410-0415 Afkns talk; F (Lineback).
- 3322 BOUGAINVILLE I. RB. 1045 weird mx, talk in EE or Pidgin, "newstime" 1050; 1100 songs; P in QRN (McNeil). 1101 nx to 1105, then native songs; 242 (Miller).
- 3325 VENEZUELA. R. Monagas. 0325 SS talk; moderate het; 323 (Lucas).
- 3339 ZANZIBAR. RTZ. 0315-0325 two M talk; couldn't tell lang thru QRN. Also 0430-0435 mx occasionally thru QRN & CW (Earhart). 2140-2200+ Af rhythms on extended sked. Don't confuse with Kampala/3340 (Padula 4/26).
- 3345 HAITI. R. Station 4VEH. 0033 FF(?) relig talk & mx, hymns by choral group; 242 (Miller). 1040-1045 SS talk, ID; F (Lineback).
- 3355 INDIA. AIR, Kurseong. 1519 Hindi pgm; G (Hanner 5/2).
- 3360 GUATEMALA. Voz de Nahualá. 0323 SS mx, talk; P, QRM (Duke).
- 3365 VENEZUELA. R. Puerto La Cruz. 0225-0359* soccer game, IDs during time breaks; also ads; off with freq, anth (Kusalik, Lucas, Duke).
- 3375 BRAZIL. R. Olinda Pernambuco. 0300-0440 LA standards, swing mx, ID, ads; always IDs as just R. Olinda (Lucas, Duke, Brunner).
- 3380 GUATEMALA. R. Chortía. 0325-0348 combo jazz selections, ID after nearly each selection, 0400* (Kusalik).
- 3380 MALAWI. MBC. 0325-0410 mx, ID, relig pgm; 0400 Chichewa nx, ads. "Best sig from Africa on 90M" (Kusalik). 2130-2150 Af pops, vernac ancts (Padula).
- 3385 NEW BRITAIN I. R. Rabaul. 1054-1124 mx, Pidgin & EE, S. Seas choruses by kids (McNeil, Lineback, Miller).
- 3385 SRI LANKA. SLBC. 1522 light mx in Tamil pgm (Hanner 5/2).
- 3385 VENEZUELA. R. Barcelona. 0255-0320 pops, 0319 ID; P (Duke).
- 3390 ECUADOR. R. Zaracay. 0315-0523 IDs, DJ pgm, Andean mx (Kusalik, Lucas, Jones).
- 3395 VENEZUELA. R. Universidad. 0315-0355* IDs, tobacco ads (Kusalik, Lucas).
- 3015 N. KOREA. RP. 1440 JJ, revolutionary mx (Hanner).
- 3030 UNID. Asian, pops in KK, 1500 time sig (Hanner). (Is Wonsan // 2600V. BH).
- 3055 JAVA. RPKDK, Sampang. 1300-1400 Indo (Willis 4/25).
- 3400 CHINA. PLA. 1040-1045 W in C; P with much noise (Shingler).
- 3400 DOMINICAN REP. UnID Santo Domingo "Radio Sir-ke-ous(?)" and also ID as "Radio Pasa-dos"; 0520* (Lausevich).
- 3414 SUMATRA. RRI, Medan. 1524 Indo drama pgm (Hanner).
- 3421 JAVA. RRI, Malang. 1527 W Indo ancts, Hindi mx pgm (Hanner).
- 3425 NEPAL. RN. 1528 Nepali mx, ancts, ads(?) (Hanner). (Hanner).
- 3432 JAVA. RPKDK, Kediri. 1529 gamelan mx; strong till 1530 QRM from Sydney Volmet
- 3450 CHINA. RP. HSI pgm. 1531 CC opera (Hanner).
- 3472 JAVA. RPKDK, Jombang. 1534 Indo pops, 1535 ancts; P-F (Hanner 5/2).
- 3483 JAVA. RPKDK, Pamekasan. 1536 gamelan mx; VP (Hanner 5/2).
- 3776 JAVA. RPKDK, Sumbawa. 1420 Indo. Beware another Indo on 3779 (Willis 4/26).
- 3893 JAVA. RPKDK, Sidoarjo. 1358 Indo ID; bad Pyongyang QRM (Willis 4/11).
- 3910 JAPAN. FEN. 0900 EE; early fade-in (Willis 4/4).
- 3916.3 (T) MALUKU. RRI, Ternate. Around 0940, Moslem chants; wk but QRM with Tebrau not on yet. Sked 0900-1130 (Hill 5/11).
- 3940 CHINA. Hupei PBS. 1330 EE lang lessons (Willis).
- 3952.5 ENGLAND. BBC. 0620 fade-in with World Svc, then 0630 FF; 0645-0700 EE. Vy unusual via longpath (Padula, Willis). 0245-0300 RR, 0259 EE ID & World Svc (Earhart).
- 3968 BANGLADESH. RBD. New freq 1410 Bangla ID (Willis 4/21).
- 3975 ENGLAND. BBC. 0200 Eastern Svc ID, into Farsi (Earhart). 0600 Czech, 0625 lang lessons; 0630-0700* FF // 7105/7230; unusual LP becoming common (Willis, Padula).
- 3985 SWITZERLAND. SBC. F/I 0640 FF to 0645*; *0658 and into EE 0700 till 0720A F/O. Most odd -- about 16,000 miles LP (Padula, Willis).
- 3990 TAIWAN. AFNT. 1307 EE nx. Hadrn't been hrd in quite a while (Willis 4/15).
- 3990 LIBERIA. VOA. 0700 EE nx for Af. Via LP; first time noted here (Padula).
- 3995 ASIATIC RSFSR. QTH unkn. 0900 loud indeed -- and later on, there are two Far East Radio Moscow's! (Willis 4/14).
- 3995 W. GERMANY. Deutsche Welle. 0010 GG nx pgm "Echo des Tages (Schwartz). 0210 also GG nx; quite G (Earhart).
- 4000 SULAWESI. RRI, Kendari. 1135 ID (Willis 4/1).
- 4120 CLANDESTINE. V. of the Rev. Party for Reunification, 1000 KK. An hour before, had been on 4115, so must use two xtals. No pgm change since fall of Viet (Willis).
- 4130 CHINA. RP. 1230 EE. Reactivated in April (Willis 4/4).
- 4650 SUMATRA. RPKDK Simalungun. 1340 W in dictation-speed Indo; lost by 1405 (Shaw).
- 4655 CLANDESTINE. V. of Pathet Lao. 1110 local mx // 6200/6212V/7480. (Has been hrd as varied as 4632-4662; may be off the air by now. BH).
- 4679.5 ECUADOR. R. Nac. Espejo. 0152-0515 ballads, ancts, IDs (Earhart, Lucas, Jones).
- 4750 UNID. 0525-0540 SS mx, ID as "Radio Nacional del-Is-ese(?)" (Lausevich).

- 4764 (T) SUMATRA. RRI, Medan. 1112 Indo by M&W, Oriental orch mx; 242 (Miller).
 4765 CONGO REP. RTVC. 2207-2234 mx, ID, FF mx; 2300* (Padula, McNeil, Schwartz).
 4770 LIBERIA. ELMA. 0636-0710 EE relig (Shingler, Willis). And 2205 (Schwartz).
 4770 UNID. *1226-1235 unfamiliar IS to 1230, slow orch mx, M&W in lang; vy weak (Perdue). (Likely Pyongyang, BH).
- 4770 VENEZUELA. R. Bolívar. 0245 SS mx, ancts (Lucas).
 4772 ECUADOR. R. Centit. 0215-0420*V Ecuadorian and other Andean mx (Reeves).
 4774 (T) AFGHANISTAN or INDIA. 1145-1200 EE, description of parade or celebration, sev mentions of Angola; 1200 into Asian lang, no ID hrd; P (Lineback 4/20).
 4775 (T) INDIA. AIR, Gauhati. 1127 Hindi(?) by W, SC string mx; 242 (Miller 5/10).
 4775V JAVA. RRI, Jakarta. *2200, mx to 2210*; *2215 again, not dual 4805 (Padula 4/11).
 4777 GABON. Voix de la Renovation. 2220 FF; 322 (Schwartz).
 4786 MALI. RM. 0655-0720 FO via LP. Af tunes, FF ancts (Padula). 2220-2240 native songs, 2230 talk not FF-sounding (Earhart, Schwartz).
- 4786.8 COLOMBIA. Voz del Combeima. 0517-0619 Colombian mx, IDs (Earhart, Szot).
 4795 ASIATIC RSFSR. Ulan Ude. Noted 1320 (Willis 4/13).
 4800 VENEZUELA. R. Lara. 1012-1020 SS, ballads, ID (Earhart). Around 2208 FI via LP; dance numbers to 2230A FO (Padula 4/19).
- 4805 BRAZIL. R. Por um Mundo Melhor. 2350-0015 PP ID, US pops, LA mx (Tuchscherer).
 4805 JAVA. RRI, Jakarta. 2259 "Love Ambon," 2300 national nx (Padula 4/14).
 4807 DOMINICAN REP. R. Norte. 0035 (Miller), 0845 (Jones), 0935-0950 (Earhart), ads, IDs, Latin pops.
- 4807 (T) REUNION. ORTF. 0355-0400 mx, poss IS; S5 (Schwartz 5/11). (Rather unlikely, as not even reported in Europe these days; not impossible, though. BH).
- 4810 S. AFRICA. SABC. 0350-0430 Springbok R. IDs, mx, nx, ads (Schwartz, Guarducci).
 4810 VENEZUELA. R. Popular. 0230 SS ID; some QRM (Lucas). And at 1025 (Willis).
 4815 CHINA. RP. 1058 IS, *1102 RR ID by M&W; into MM(?) nx; F with het QRM (Shingler). (Dan, is that Mongolian or Malay? Presume the former. BH).
- 4815V UPPER VOLTA. RTV. 0610-0715+ via LP. FF ancts, Af mx (Willis, Padula). 2235-2245 FF nx, ID; 322 (Schwartz).
- 4820 ANGOLA. Em. Oficial. 2155 FI; Af mx, PP ancts; 2320* (Padula 5/3).
 4820 (THE) GAMBIA. RG. Via LP, 0646 FI, pops to 0700, when BBC nx (Padula, Willis).
 4820 HONDURAS. Voz Evangélica. 0355-0404 EE relig pgm; F (Schwartz).
 4820 VENEZUELA. R. Tricolor. 1020 conversation to 1030 mixing with R. Paz y Bien; at 1030 HRVC signed on (Field 4/29).
- 4825 GUATEMALA. R. Mam. 0030-0100 local Indian(?), marimba mx; VG (Tuchscherer 4/16).
 4826 ECUADOR. R. Luz y Vida. 0520 W ancr, Andean mx; one night to 0600* (Earhart).
 4832 COSTA RICA. R. Capital. Operating 24H; pops, etc. (Lucas, Padula, Earhart).
 4835 S. AFRICA. SABC. 0445-0514 EE talk, also Afkns; wk (Guarducci, Jones).
 4845 MALUKU. RRI, Ambon. 1005 W Indo news, features on Ambon // 7139; G (Szot).
 4850 DOMINICAN REP. R. Clarfn. Intermittently 0000-0400; sometimes only a carrier for hours at a time (Cress, Brunner). *1000-1101 pops, light clas (Earhart, Miller).
 4850 MAURITANIA. RNM. *0658, into AA; via LP (Padula 4/10 et seq.).
 4855 COLOMBIA. Unid 0808 songs, SS talk, mentions of Bogotá (Szot). (R. Neiva? BH).
 4860 VENEZUELA. R. Maracaibo. 0245 (Lucas), 1042 (Willis), 2345-2359 (Lausevich), usual Latin pgms.
- 4865 COLOMBIA. Voz del Cinaruco. 0550 LA pops, 0607 ID (Szot).
 4860 USSR. R. Moscow. 2300-2330 EE to N. Am.; site could be anywhere. Likely intended for Americans residing in USSR (Padula 5/3).
- 4870 UNID. 1135-1145 lang talks by M&W, brief mx (Asian but not CC). Sorong? (L.'back).
 4871 W. IRIAN. RRI, Sorong. 1030 local nx-type pgm, 1035 mx; G (Szot). 1045-1100+ W in Indo; Islands mx; Sorong ID at 1100 (Perdue 4/29).
- 4875 S. AFRICA. SABC. 0330-0436 R. RSA pgm in EE, then Afkns (Sparks, Jones).
 4877 S. VIET NAM. Saigon. 1358 VV talks, mx in moderate Commie style (Szot).
 4880 VENEZUELA. R. Universo. 0250 SS mx, talk (Lucas).
 4880 SUMATRA. RRI, Bukittinggi. 1038 local ID after chorus with nat'l song (Padula).
 4880 ZAIRE. Voix du Zaïre. 2155-2200 FF talks; past 2330 some days (Padula).
 4890 BANGLADESH. RBD. 1400 Bangla ID // 3968 (Willis 4/21).
 4890 HONDURAS. R. Lux. Often 2345-0100, sometimes over YV (Perdue).
 4890 PAPUA. NBC. 1045-1130 EE cmtry, local nx, DJ with pops (Schwartz).
 4890 SENEGAL. Rdfif du S. 0710-0735 FF nx, AA chants; G (Lausevich).
 4890 VENEZUELA. Rdfif Venezuela. 0253 SS ads, ID, EE mx (Lucas).
 4896 MOZAMBIQUE. RCM, Beira. 0405 Af mx, lang talks; 0417 ID, chimes; F (McNeil). (T) 0405 PP, Af mx; severe RTTY QRM (Schwartz).
- 4900 SULAWESI. RRI, Gorontalo. 1400 RRI IS, local nx of Sulawesi Utara; 1405 sounded like "Programa Informasi" (is so scheduled); 1415 ID and mx (Szot).
 4900 VENEZUELA. R. Juventud. 0255 EE pops, SS ID (Lucas).
 4907 CAMBODIA. Phnom-Penh. Off 16-21 April, then back on with Khmer Rouge pgms. Next day, V. of NUPK went off (Willis). 1357 VV-type mx, not like previously (Szot).
 4910 ECUADOR. Em. Gran Colombia. 0500 ads, "Fiesta Musical"; F-G (Cress, Jones).
 4910 ZAMBIA. RZ. 0442-0500 vernac talk, mx, ads; 0500 EE ID (Kusaiik, Lausevich).
 4910 GUINEA. R. Nac. Via LP, FF political speech; 0700 nx (Padula, Willis 4911).
 4910 VENEZUELA. R. Carora. 0100-0120 rock mx; P (Lausevich).
 4915 ACCRA. GBC. 0610 EE cmtry & nx (Szot). 0654 FI, 0700 EE nx; LP (Padula). 2225-2240 vernac, relig pgm; 333 (Schwartz).

- 4920 HONDURAS. R. Progreso. 0252-0430* echo IDs, pops (Lucas, Walenter, Duke, Lause-
4925 MANCHURIA. Harbin. 1340 children's play in CC (Hanner).
4930 DOMINICAN REP. R. Mil. 0305 SS mx, into nx (Lucas).
4930 ECUADOR. R. Casa de la Cultura. Popular Ec mx, ancts and ID by M&W, 4-note chimes
at 0415* (Sparks), 1105-1115 SS, Andean melodies, IDs; G (Lineback).
4931V N. VIET NAM. VOV, Hanoi(?) New freq noted since 4/17 with Home Svc at 1340 (Will-
lis). *2100 to 2145 FO (Padula 4/27).
4932 JAVA. RRI, Surakarta. 1341 Indo pops after ancts; strong het (Hanner). On late
1700-2200* with puppet plays (Padula).
4940 IVORY COAST. RTVI. 0612 FF, then into mx that definitely did not appeal to me
(Sztot). (Expletives deleted by Editor. BH). FI around 0610, FO around 0710; LP
(Padula). 2227-2300 FF, ID, mx; 333 (Schwartz).
4940 VENEZUELA. R. Yaracuy. 2205 FI via LP after USSR s/off the freq (Padula).
4955 COLOMBIA. R. Nac. 2225 ID, cultural discussion; 2245 FO, via LP (Padula).
4960 CHINA. RP. 1342 JJ talk on Pakistan; strong (Hanner).
4962 ANGOLA. R. Cl. de Malange (per Euro DXer). 2251 pops, 2258 W in PP, 2259 "A Por-
tuguesa" to 2300; F-G (Reeves 4/30).
4970 SARAWAK. RMS. 1130A FI to 1215A FO, mx; 1200 poss nx. 1st time in 10 yrs (Field).
4975 PERU. R. del Pacifico. 0220 EE nx by W (Hill). 0345-0355 mx (Guarducci, Sparks).
4980 GHANA. GBC. Via LP, 0613 FI to 0700A FO; native. Also 2135-2200 (Padula).
4980 SWAZILAND. SMR. *0355-0615 EE DJ, pops, ads (Reeves, Brunner, Cress, Schwartz).
4980 UNITED. Perhaps Thai or Lao regularly 1330*; wk; no //s hrd (Willis).
4985 ANGOLA. R. Ecclesia. (T) *0357A-0440 EL pops, casual PP ancr; no positive ID
(Reeves). 0400 instr & vocal mx, lang ancts, ads in PP & lang; 0500 RTTY (Sparks).
4985 SULAWESI. RRI, Ujung Pandang. *2130 to 2200 FO; again 2245. Also 0835 (Padula).
4995 PERU. R. Andina. 0734* with anthem after late sked (Padula 4/27).
5005 SARAWAK. RMS, Sibu. 1135A-1215A, mostly talk (Field). *2200, into lang (Padula).
5010 DOM. REP. R. Cristal. 0550-0817, 2308, pops, IDs (Sparks, Sztot, Jones, McNeil).
5010 SINGAPORE. RS. 1348 light mx pgm, EE ancts (Hanner).
5015 ASIATIC RSFSR. Vlad. 1000 RR -- another RM HS under (Willis). 1139 mx (McNeil).
5015 (T) EUROPEAN RSFSR. Arkhangelsk. 0200 RR nx(?), mx, 0230 RR again (McNeil).
5015 SOLOMON IS. SII&BS. 0757 pops, Pidgin talk, nx; Vlad underneath (Sztot).
5020 NIGER. ORTN. 0545 FI, FF talks to 0618 FO; via LP (Padula).
5020 SRI LANKA. SLBC. 1351 Tamil talk; P-F (Hanner 4/26).
5025 BRAZIL. R. Aquidauana. 2310-0048 PP talk, DJ, ads (McNeil, Tuchscherer).
5035 KAZAKH SSR. Alma-Ata. *1230 R. Tashkent via AA in Uighur (Willis 4/5).
5040 BURMA. BBS. 1353 BB talk; splatter from 5047 (Hanner).
5047 JAVA. RRI, Yogyakarta. 1115 local mx, 1128 EE ID, 1130 EE nx (McNeil), 1354 ad
for what appeared to be "Super Majang Radio Transistor"; 1355 ID (Hanner).
5049 VENEZUELA. R. Mundial. 0530 coming thru again, R&R mx, ID (Sparks 5/6).
5052 SINGAPORE. RS. 1356 jazz // 5010; QRM de 5047 and 5054 (Ulan Bator) (Hanner).
5060 YEMEN PDR. DYBS, Aden. 2145-2200 AA mx, vocals (Padula).
5061 CHINA. RP. New freq, seems dialect; 1435, weak (Willis 4/25).
5065 PAKISTAN. RP. 1400* after Urdu-type ancts, Reactivated (Willis 4/24).
5075 CHINA. RP. 1358 "Int." HS ID; 1400 pips (Hanner).
5095 COLOMBIA. R. Sutatena. 2233 ID, hrd to 2300A, not // 5075 (Padula).
5125 CHINA. RP. 1402 CC to Taiwan, not // 5075 (Hanner).
5145 CHINA. RP. 1404 Mongolian nx; G (Hanner).
5162 CHINA. RP. 1405 CC play // 5075 but much stronger (Hanner).
5170 CHINA. RP. 1414 long boring talk in CC (Hanner).
5250 CHINA. RP. 1412 Tamil pgm, P for Peking sig (Hanner).
5525 CHINA. China News BC Stn. New freq hrd 1300 (Willis). (Ex-China Press Agency. BH).
5852V SUMATRA. RRI, Pekanbaru. 1330 Indo; drifting (Willis 4/21).
5860 CHINA. RP. HS1 at 1300 (Willis).
5868 N. KOREA. R. Pyongyang. *1400 KK (Willis). 1420 dictation nx in KK (Padula 5870).

Special thanks this month to our fair dinkum Aussie friends, Messrs. Hanner, Padula and Willis, without whose contributions this column could have been engraved on the head of a pin. Hang in there, DX'ers!

73,
Bob

Publisher's note: QSL Report not received by 6/3/75, I am going ahead with
 FRIENDX; hopefully QSL Report will return for July FRIENDX. Any comments, suggestions,
 and/or criticisms on publishing of FRIENDX are welcome in Park Forest... Al Mayer

Helping Hand: For sale, Heathkit SB310, w/ 17-15,60 meter crystals, spare tubes, and
 extra parts, band switch slightly misaligned, can be fixed. \$160,
 I ship. Contact: Al Mayer P.O. Box 321, Park Forest, IL 60466

LOG REPORT

EDITOR:

Larry Yamron
540 N. Neville St.
Pittsburgh, PA. 15213
U. S. A.

Section B

DEADLINE: 15th of month

Mucho Dx! Despite conditions, rare Dx stations are still being heard. Frequencies underlined are of special interest.

5900-11599 KHz.

- 5915 CHINA P.R. R. Peking, 1400 sign on, irregular (Willis)
5925 CHINA P.R. China Press Agency, 1100-1400, // 5525, CC pgm. (Willis) 4/17
5925 UZBEK SSR R. Tashkent, 1330, home svc. w/music and anncts. (Willis) 4/19
5930 CZECHOSLOVAKIA R. Prague, 2130, EE nx, Dx pgm. (Rozycki)
5950 CHINA RP, Manchuria, 1430 sign off, CC pgm. (Willis) 4/20
5955 GUATEMALA R. Cultural, 0800-0825 s/off, SS anncts, LA mx. (Padula) 0752 (Hanner)
5955 COLOMBIA R. Super, 0032, SS ads and tkl by annc. (Lucas) 4/24
5955 FRANCE ORTF, 2100-2200, SS to Europe; new svc. replaces FF formerly here; also change for the SS svc. previously on 2200 on 5960. (Padula)
5960 MOROCCO RTM, 2305, news pgm in AA by male and female annr. (Miller) 4/28
5960 CANADA CBC Northern Svc. 0900-1130 w/special tests in EE, // 9625. Signal strength suggest 250kw on both freqs. (Padula) 4/28
5960 HONDURAS L. Voz de Occidente, 1055, SS tkl, local mx. (Zilmer) 4/26
5960 MOROCCO RTM via Tangier per BBC-MS, 2240-2300 w/AA pgming, //6170(Padula) 4/11
5961.8 COLOMBIA La Voz de los Centauros is a new shortwave station which has been puzzling some DXers. Noted 4/26 0320 w/trans breaks; 0425 ID, then live till s/off at 4 a.m. giving HJKW-1140 (so, a name change from Horizonte Llanero), 5990 (nominal sw), and 96.1 FM. SW power as 5kw. Short version of anthem and s/off at 0506; fair. (Hauser) 1107, usual LA pgm. (Jones)
5965 SWITZERLAND SBC, 0145 s/on w/EE pgming to N.Amer. Annncing freq. as 5970. (Brunner)
5970 CANADA RCI, 0800-0900, EE to Aust. and N. Zealand. (Padula) same (Hanner)
5970 DOMINICAN REP RTVD, 1045, SS tkl by yl and OM, ID. (Zilmer)
5980 SIERRA LEONE SLEBS, 2325-2334 s/off. EE prgm, nx, IDs, fair. (Duke, Mayer,) 0700, mx and anncts, BBC nx, KGEI blocks channel. (Padula, Hanner, Willis)
5980 LEBANON R. Beirut, 0450 fade in, AA tlks/ mx. via long path. (Padula)
5980 AUSTRIA ORF, 0400 s/on, new svc. via long path; s/off 0600, GRM Beirut. (Padula, Hanner)
5980 S. AFRICA RSA, 2230, EE pgming, replaces 1970. (Padula, Zilmer)
5980 U.S.A. KGEI, 1048, EE relig pgm. (Earhart)
5990 CANADA BBC via Sackville, Out of the frying pan into the fire! Left 6175 due to QRM, now conflicts w/R. Japan, 1100-1215 s/off. EE pgm. (Hauser, Behr)
5990 ROMANIA R. Bucharest, 0145-0155, EE pgm, mx request. (Brunner) 0400, EE. (Talbot)
5990 GERMANY W. DW, 0535, FF to Africa. (Padula)
5995 MARTINIQUE ORTF, 0200, FF tkl and mx to 0300 s/off w/anthem, fair. (Behr) 0240-0259 s/off. FF, ID, mx, brief talk. Heard in Ft. De France harbor looking at station. (Brunner)
5995 MALI R. Mali, 0700-0715, african mx. and ID. fair (Brunner) 2225-2245, african rhythms, FF anncts. (Padula)
5995 AUSTRALIA R. Australia, 1043-1050, EE, pop mx, top 40. (Earhart, Ravenhorst)
5995 VATICAN Vatican Radio, 0100-0115, EE, ID, relig. pgm. (Brunner)
6000 BRAZIL R. Inconfidencia, 2350-0000, PP mx, ads, IDs, good. (Duke) 4/22
6000 HUNGARY R. Budapest, 0245-0310, EE, nx, features, fair to good. (Mc Neil, Zilmer talbot) 0245, GG pgm. Strong signals for Europe so early in the year. (Padula)
6005 CANADA CFCX Montreal, 2030-2040, EE, Expo baseball game. (Brunner)
6005 GERMANY W. RIAS, GG anncts over R. Moscow at 1640. (Willis) 4/10
6006.11 COSTA RICA R. Reloj, 0520-0610, SS, LA mx, IDs, good. (Brunner, Duke) 1230, het against R. Australia. (Hauser) harmonic also heard on 12012.
6015 USSR R. Moscow, 0515 via long path. (Padula) 2325-0000, RR, lite mx. (Tuchscherer)
6015 BRAZIL R. Clube de Pernambuco, 0158, FF, ID, live audience pgm. (Zilmer) 4/21-r)
6025 PARAGUAY R. Nac. del Paraguay, 0100, SS tkl. "fat" muffled audio; 0210 YL ID'ed for RNP, said mx. pgm ending, tune in again. QRM de 6020 splatter. (Hill)
6025 MALTA DW, 0540, AA to N. Africa, via long path. (Padula)
6025 NIGERIA R. Nigeria, Enugu, 2230-2306 sign off. Afr. mx. 2300 ID and nx in EE, news relay from Lagos. (Padula, Kusalik)
6030 PHILIPPINES FEBC, 2240 fade in, talks in tagalog, over USSR co/channel, pop mx to 2250. (Padula)
6030 COLOMBIA R. TV Nacional, in clear now that APRTS is on all evening on 9775, rather than 6030, noted 0106 giving precise sounding time signal for 8 p.m.! "Hora oficial," indeed. (Hauser) 0130, lang lesson in SS. (Tuchscherer)
6032 ITALY RAI, 0055-0135, EE, mx. (Lausevich)

- 6035 LIBERIA VOA, 0259 s/on w/ EE pgm "African Safari". (Jones)
- 6035 BOLIVIA R. Panamericana, 0335-0350, SS tlk. ID, mx, good. (Brunner)
- 6035 SWEDEN R. Sweden, 2300, EE to N. America. fair. (Zilmer) 5/5
- 6040 COLOMBIA La Voz del Tolima, 0335-0355, SS, LA mx, many IDs. (Tuchscherer) 5/7
2215 via long path, cuckoo chimes 2218, TC, (Padula) 4/24
- 6040 GERMANY E. R. Berlin Int. 0458, via long path, over VOA Wofferton w/ SS to S. America. (Padula)
- 6045 BRAZIL R. Clube Paranaense, 0949, PP tlk. fair. (Jones) 4/25
- 6045 JAVA RRI Jakarta, 0900 s/on w/ EE pgm. // 11789. (Willis)
- 6050 ENGLAND BBC, 2315-0030 w/ special tx in RR. (Padula) 4/5
- 6050 YEMEN R. Saana, 2153, AA chants, tlk. in AA, NA at 2159 s/off. (McNeil)
- 6055 ASCENSION IS BBC, 2315, EE, World Radio Club pgm. (Zilmer) 0005, World Svc., often better than Sackville 6175. (Hauser)
- 6060 UNID African, noted one day only w/african rhythms 0640, FF tlks. and nx. at 0700, fade out 0800. Seemingly mentioned Congo at 0659 $\frac{1}{2}$. (Padula) Zambia listed by WRTVH. ed.
- 6060nf CUBA R. Havana, 0523-0600 s/off, SS to Americas. (Hanner, Padula)
- 6065 SPAIN RNE, 0202-0225, EE pgm, beautiful mx, news. excellent. (Brunner)
- 6065 COLOMBIA R. Super, 0500-0755, SS vocals, IDs. good. (Brunner, Hanner)
- 6070 VENEZUELA R. San Sebastian, 0230-0240, SS, ID, LA Mx. (Brunner) 2231, via long path after Sofia s/off. (Padula)
- 6070 PAKISTAN R. Pakistan, 1300 s/on over Thailand and Jayapura w/ EE pgm. (Willis)
- 6070 JAVA RRI Jayapura, 0757 w/chime IS then theme mx to 0759. (Hanner) 4/27
- 6070 BULGARIA R. Sofia, 0608, news in Greek via long path. (Padula)
- 6075 UNID Wideband pulse jammer? centered here 5/6; on 5/4 extended all the way from 6050 to 6080 inclusive. (Hauser)
- 6075 COLOMBIA R. Sutatenza, 0145-0200, slow LA mx, IDs, ADe. (Brunner)
- 6075nf ECUADOR HCJB, 0830-0900, RR to Siberia; Quechua/GG/PP to SA 0900-1100. (Padula)
- 6080nf NEW ZEALAND RNZ, 0556 IS under VOA, EE pgm // 9540 EE. ex 11780. (Hanner, Willis)
- 6080 BELGIUM RTP, 0040-0100, EE pgm Belgium Speaking. // 9730. (Zilmer) 5/9
- 6080nf USA VOA Greenville, 0800, EE pgm. (Padula)
- 6090 LUXEMBOURG RL, 0000, EE Mx, pop mx and ads. (Talbot) 2155, GG relig pgm. (Zilmer)
- 6090 AUSTRALIA ABC Sydney, 0943-0955, EE, orch mx. (Shingler)
- 6095nf SPANISH SAHARA R. Sahara, 2207, SS tlks, classical mx. s/off at 2300 w/ anthem and ID; often here 2145 w/ AA chants and @200 s/off, very good (McNeil) 2215, SS nx pgm. Dominant over VOA, Warsaw. BBC-MS shows AA during this time period. (Padula)
- 6095 COLOMBIA LV del Centro, 0757, SS pop mx, ads and tes. (Jones) 4/14
- 6100 VENEZUELA Observatorio Cagigal, 2205, SS time and freq. goog signal. (Ravenhorst)
- 6115 MOZAMBIQUE R. Clube de Mocambique, 'A' program noted at 1415 in PP sports event. Heard past 1420 // 9618 $\frac{1}{2}$. Long path. (Hill)
- 6115 PERU R. Union, 0024-0050, SS nx. bulletins, IDs, US pop mx. (Tuchscherer) 5/7
- 6115 COLOMBIA La Voz del Llano, 0152, SS mx, IDs, QRM de VOA. (Lucas)
- 6118 NICARAGUA R. Atlantico, 1120, SS Baseball scores, nx, many ads. fair. (Miller)
- 6120 PHILIPPINES FEBC, 2123, CG pgm, IDs. (Padula) 4/24
- 6120 SWITZERLAND SBC, 0150, EE nx. and cmtry. (Jones)
- 6125 COLOMBIA R. Continental, 0700-0800, local mx. IDs, TCs. (Padula, Jones)
- 6130 CANADA CHNX, 2306-2335, EE pops, IDs. (Mc Carthy)
- 6130 GHANA R. Ghana, 2245, EE nx. summary. (Zilmer) EE tlk. 0555-0647, new svo. (Behr)
- 6130nf ECUADOR HCJB, Norwegian to Europe, 0530-0600; GG 0600-0630, ex-6140. (Padula)
- 6135 BRAZIL R. Gaucha, 0140-0200, SS nx. good. (Lausevich)
- 6145 NIGERIA R. Nigeria, Calabar, 2230-2305 s/off. EE mx and ID. (Kuaslik) 0602, Afro mx. heard to 0630. via long path. (Padula)
- 6145 ALGERIA RTVA, 2255-2330, AA mx into news by yl. QRM de EBC. (Moritz)
- 6150 COSTA RICA R. Atenas, 1041-1055, LA mx. IDs and Ads. (Jones, Zilmer)
- 6150 COLOMBIA La Voz del Huila, 0700-0830, seems to have deleted previous 24hr sked. LA tunes. (Padula)
- 6150 INDONESIA W. IRIAN-RRI Manokwari, 0802, vocals after s/on. Replaced 6186 a while back. poor. (Hanner)
- 6155 AUSTRIA ORF has no chance here now, as WYFR has taken its traditional freq., noted 5/5 at 0330. ORF is using log periodic antenna with angle of 25°, too high for distant areas. (Hauser)
- 6155 JAPAN FEN, AFRTS, 0920-0930, EE, lite mx. OM annor. (Shingler)
- 6160 COLOMBIA Emisora Nueva Granada, 1054, Ads, LA mx, IDs and nx. (Miller) 0130, SS pop mx, fair. (Ravenhorst) 0641-0801, SS w/IDs. (Hanner)
- 6165 VATICAN Vatican Radio, 0110-0115, EE relig. tlk. (Brunner)
- 6170 MOROCCO RTVM, 2102, AA chants, nx in AA followed by speech by YL. (Mc Neil)
- 6170nf GERMANY W. DW, 1900-2000, Greek pgm. QRM de Morocco, ex 6075. (Padula)
- 6175 ANGOLA Emisora Oficial, 2nd pgm. (ex "A Vox de Angola") African piano mx. 2230-2250 w/PP anncts. (Padula)
- 6180 VENEZUELA R. Turismo, 1045, LA mx. and IDs. (Zilmer)

- 6190 UNID 1415, subcontinental chants, flute mx, occasional anncts. in lang; off at 1500. Very weak, splattered by VOA 6185. Maybe Delhi but not sked. as such in WRTVH. (Hill) 4/12 Maybe USSR?
- 6190nf SUMATRA RRI Padang, 1417, ID, over R. Moscow. (Willis)
- 6190 GERMANY W. Sender Fries Berlin, Bremen, 0540 via long path, dance mx, GG anncts by man and lady, TC in GG at 0600. (Padula) 4/10
- 6195 NIGERIA Sokoto, 2240, W. African mx. dominant over BBC, 2305 s/off. (Padula)
- 6195 MALAYSIA BBC Tebrau, 2301, AA pgm QRM de Tunisia. (Kusalik)
- 6200 CLANDESTINE La Voix du Pathet Lao, 1012 in Lao, quiet talks, het. (Hanner) // 6213.
- 6348 S. KOREA Voice of Hope, 1024 in Korean, pgm. hosted by OM and YL. (Hanner) 4/5
- 6383 MONGOLIA R. Ulan Bator, relaying R. Moscow 1130, testing CC from 1400-1428. CC is irregular and station running late 4080, 5054 and 4762. (Willis) watch out for N. Viet Nam here. ed.
- 6400 CHINA PLA Fukien, 1027 w/revolutionary songs in CC. (Hanner) 4/5
- 6450 N. KOREA R. Pyongyang, 1032, tlk. in JJ, mentions of Cambodia. (Hanner)
- 6560 CHINA R. Peking, 1040, CC opera, unid station heard under. (Hanner)
- 6750 CHINA R. Peking, home svc. 1150, CC tlk. about Mao (who else!) (Hanner)
- 6825 CHINA R. Peking, 1121, Lao pgm. // 6290, ute QRM. (Hanner)
- 6990 CLANDESTINE Voice of the Fatherland the Beloved voice of Peace (whew!) Khmer pgm at 1200-1500 on the 17th and 18th of April when Cambodia had fallen. So station must not be in Cambodia. Non-communist pgm. (Hanner)
- 7025 CHINA PLA Fukien, loud CC pgm, 1132, strong. (Hanner)
- 7100 USSR Petropavlovsk, Kamchatka replacing 7300 for "Kamchatka Radio Program, 1700 s/on w RR pgm. 2030 s/off. (Davis)
- 7110 MALAYSIA R. Malaysia, 2323, malay play, TG, and malay ID 2330, local nx. (Padula)
- 7115 THAILAND R. Thailand, 1320, pgm in Thai. Pat signal. (Willis)
- 7115 ZAIRE Kinshasa, African songs, 2340-2355, after RPE s/off 2302. (Padula)
- 7120 ALBANIA R. Peking relay, 0300, EE pgm. usual fare. (Earhart)
- 7150 USSR R. Kiev, 0030-0100, EE nx. and cmtry, mailbag. (Mc Carthy)
- 7150 USSR R. Vilnius, 0030-0100, nx. and tlk. on communist party. (Earhart) NOTE: R. Vilnius and Kiev are relayed over the facilities of R. Moscow and are not transmitted from Ukraine or Lithuania. ed.
- 7160 USSR Petropavlovsk, Kamchatka now on 1700 s/on to 2030 s/off w/RR pgm. Replaces former 1630-2030 time. (Davis)
- 7161.86 INDONESIA W. IRIAN, RRI Jayapura, ID, theme mx, 1228, making a G note het against VOA-Japan, which is likely the reason RRI is down from nominal 7165. (Hauser)
- 7165 RYUKYU ISLANDS VOA, Okinawa, 1225-1235, "Easy listening music" EE. (Ravenhorst)
- 7165nf USSR R. Moscow, 0431 EE nx. //7150. (Hanner)
- 7170 NEU CALEDONIA R. Noumea, 0603-0805, FF pgm. Ids. mx. //11710. (Davis, Shingler, Brunner, Schwartz) 1025-1058, FF pgm. closing anncts. s/off 1100. (Miller)
- 7180 MLAYSIA BBC Tebrau, 1028-1100, CC/Indo pgm. nx. IS at 1100, BBC ID 1037. (Miller)
- 7190nf JAVA RRI Jakarta, 1000, //6045, ex Jayapura. (Willis) 5/3 Schwartz
- 7190 YEMEN DEM REP. Aden, 0322, AA pgm. w/mx. QRM VOA Tangiers. (Earhart)
- 7200nf AUSTRALIA R. Australia, 1029, CC prgm. ex 11790. (Hanner)
- 7205nf JAPAN R. Japan, 0900-0945 KK transmission dual 7140, 6030. 5995 not noted, so perhaps 7205 replaces it. (Hill) 0909, also ex 9675. (Hanner)
- 7215 BRUNEI R. Brunei, 1310-1315, EE nx. Explosion level at s-9r, must be new xmtr.
- 7215 IVORY COAST RTVI, 2330, afro mx. tlk. in vernacular. //11920. (Zilmer) (Shaw)
- 7225 RWANDA DW Kigali, 0430-0500, EE/vernacular, pop mx. (Lucas, Earhart)
- 7225 IRAQ R. Baghdad, 0310, EE, "Call to prayer" via long path. (Padula)
- 7230 MOROCCO VOA tangiers, 0445-0505, EE ID then into Bulgarian. (Earhart)
- 7245 MAURITANIA Nouakchott, s/on 0757, anncts in AA, into Koran 0800, via long path, dominant over Algiers FF svc. co-channel. (Padula)
- 7245 * VIET NAM Radio Saigon Liberation, VV at 0950, mentioned //4877. 6165, 9620, 7175, ex-VTVN. 5/4. (Willis) Another one down the drain. ed.
- 7252 GUINEA Conkary, 0700, FF anncts. (Willis) 4/30
- 7255 HUNGARY R. Budapest, 0425, EE to N. America, long path. (Padula, Hanner)
- 7260nf ASCENSION IS BBC African Svc. now here ex-9510; noted 0510 w/af. mx. very strong sked 0500-0700. (Hauser)
- 7270 S. AFRICA RSA, 2040, FF pgm. (Miller) 0450, into lang. (Earhart)
- 7270nf POLAND R. Warsaw, 0440, SS tp S. America, ex-SABC on this freq. (Padula)
- 7275 NIGERIA Voice of Nigeria, 0605-0647, EE nx. and tlk. good. (Earhart, Brunner, Schwartz, Lauserich)
- 7325 ENGLAND BBC, 0032-0040, EE Church svc. (Earhart) Schwartz, Brunner
- 7345 CZECHOSLOVAKIA R. Prague, 0103-0136, EE Nx. and cmtry. (Mc Carthy)
- 7417 CLANDESTINE R. Liberation, VV tlks. 1115-1120, // 10225. (Padula) 5/5
- 7470 CLANDESTINE Liberation R. 1100-1230, EE, still same sked. after Viet Nam fall. Note: R. Liberate the S. part and VoNUPK now both off the air. (Willis) 5/3
- 8240nf CHINA R. Peking, 1000-1055, CC pgm. (Willis) 5/3
- 9340 nf N. KOREA R. Pyongyang, JJ at 1100-1150. (Willis) 4/31
- 9370 N. KOREA R. Pyongyang, 1200 EE news and comment. (Zilmer) 5/3
- 9475 EGYPT R. Cairo, EE news, mx, excellent sigs. 0200. (Green)
- 9495 ISRAEL R. Jerusalem, 0455, weather report in Hebrew followed by nx. items, 0500 relay of HS // 11643. (Padula)

- 9505 PERU R. America. 0959 carrier, 1000 s/on w/music and anncts, ID, QRM de Brazil 9504.5 het, Taiwan 9510 splatter until its 1000 s/off (Hill) 0340-0350, SS mx, ads, echo, fair. (Duke)
- 9505 DOMINICAN REP. RTVD, 2105-2202, SS tlk. local nx. some EE at varied times, IDs. fair to good. (Schwartz, Hersh, Talbot, Shingler)
- 9505 CZECHOSLOVAKIA R. Prague, 1145-1205, EE pgm. lite mx. (Earhart)
- 9509.5 UNID. Somebody here 1005 after Taiwan left the air. CC type instrumental mx; weak lvl. No idea who this could be--awfully feeble for Peking. (Hill)
- 9510 CANADA/USA BBC relay. Australian report in May Frendx LR is incorrect. Canada used 0030, then Greenville. The changeover can be extremely smooth. Look for a few seconds of subaudible heterodyne (s-meter fluctuation) while the two carriers overlap. So staticky were the thunderstorms over Greenville one night that fill music had to be played approx 0235-0305! It seems VOA lacks any alternate recvr site, and has no access to cable feed to Montreal. (Hauser) very interesting!
- 9515 MEXICO Voz de la America Latina, 1400, SS tlks. ads, IDs to 1600 fade out. // 15160. (Behr, Zilmer)
- 9515 TURKEY Voice of Turkey, new svc. EE to N. America. s/on 2200 to 0118* w/nx, Turkish mx. asks for SINPO rpts. (Magne, Hersh, Schwartz, Jones)
- 9520 NEW ZEALAND NZBC, 1130-1143* EE pop mx. (Zilmer)
- 9525 INDIA AIR, 2150-2218, EE nx, and cntry, poor. (Mc Carthy)
- 9525 LEBANON R. Lebanon, 0232-0300, EE nx. tlk. QRM WYFR, RSA. (Earhart, Mc Carthy)
- 9525 S. AFRICA RSA, *2056, EE, pgm. to w. Africa and Europe. (Brunner) 2305-2320, EE pgm. lang lesson. (Earhart)
- 9530t CLANDESTINE from 1532, exhortation in CC; 1537 brief march. Strong w/jamming and het. Almost certainly the Red Army Station. (Hill) 4/12
- 9530 AUSTRALIA RA, 2200, EE nx. comment to S.E. Asia. (Zilmer)
- 9530nf USSR R. Moscow 0340, EE to N. America, over VOA Greenville co-channel. (Padula)
- 9534 PERU R. Sac. Tacna, 0225-0245, SS mx, ID at 0230 s/off. (Lausevich)
- 9550 FINLAND R. Finland, 0300, EE nx, good lvl. QRM Havana. (Tuchscherer)
- 9560 JORDAN R. Jordan, 1710-1730* EE to N. America, nx, and mx good. (Brunner)
- 9562 PERU R. Nacional, 0220-0240 t/o, SS LA Mx, IDs, splash HCVB. (Tuchscherer)
- 9565 CHILE La Voz de Chile, 0135-0150 s/off, ID, good. (Brunner)
- 9566 CHILE La Voz de Chile, 0315, EE pgm. (Zilmer)
- 9570 MALAYSIA BBC Tebrau, 0300 IS, Nx in EE. poor. (Zilmer)
- 9570 SPAIN RNE, 2125, SS, IDs and anncts. (Schwartz) 2100-2115, SS, Nx and mx. excellent. (Tuchscherer)
- 9570 CHILE R. Super Portales, 1115, SS tlk. mx, jingles, ads. (Zilmer)
- 9575 YEMEN R. Sana'a, Heard several times before the listed 0330 s/on. IS on flute is different than one heard previously, but ID was positive. (Shaw)
- 9675 PERU R. Del Pacifico, 1213, SS relig svc, hymns and choir mx. (Miller) out of
- 9580 SIERRA LEONE SLBS, 2240-2335 s/off. EE, listeners request pgm. order. ed. IDs, 2300 relig pgm. good to excellent. (Brunner)
- 9580 AUSTRALIA R. Australia, 1215-1227, EE news, mx. (Green)
- 9585 YEMEN REP R. Sana'a, 0308 AA chanting, 0320 tlk. in AA; 0325 clobbered by Bonaire 9590. Het, QRM, weak, fluttery as are all sigs on WONA from Near East. ID per Padula in 2/75 Frendx. (Hill) 0300 s/on, "Call to Prayer". (Padula) 4/27
- 9585t SYRIA R. Damascus, 0355-0345, AA mx. and tlk. (Earhart)
- 9585 CANADA R. Canada Int. 2145, EE Lx pgm. quote from Frendx denied QSLs will be curtailed. (Schwartz)
- 9590 CHILE R. Presidente Balmaceda, Santiago, LA rythms, fiesta mx. 0125-0132, rare daytime reception for this area. (Padula) 11.25-11.32 am
- 9591v BRAZIL R. Cultura da Bahia, 0000, PP ads and mx, QRM from Chile. (Behr)
- 9600nf USSR Petropavlovsk, Kamchatka, *1600-2030*, RR pgm. replaces 9540. (Davis) 1917, classical mx, past 1930. (Hauser)
- 9600 UZBEK SSR R. Tashkent, *1200-1230*, EE news, many IDs, strong sigs. (Brunner)
- 9605nf SWEDEN R. Sweden, new freq. and svc. Swedish lang. (Padula)
- 9610 AUSTRALIA RA, 1210-1225, EE comedy pgm. w/ live audience. (Earhart)
- 9618.5 MOZAMBIQUE R. Clube Mocambique, "A" pgm. 1620 w/PP anncts. pop vocals; poor to fair. 1700 s/off per latest UADX. (Hill)
- 9620 S. VIET NAM (Ho Chi Minh City), 1230, VV tlk. and mx. 4/28 last day before surrender. (Behr) VV tlk. by lady, 1016, here after absence. (Hanner) 5/5
- 9620 SAUDI ARABIA Riyadh, 1400 AA pgm. and ID; no trace of Abu Dhabi, but recent letter from station say Abu Dhabi still here, (9900-2100*. (Behr)
- 9620nf ENGLAND BBC, RR to Europe, 0245-0300, (Padula) 4/6
- 9620 YUGOSLAVIA R. Belgrade, 2200-2215 s/off. EE nx. and cntry. (Hersh, Talbot, Mc Carthy, Jones, Schwartz, Ravenhorst)
- 9625 INDIA AIR, 1215, IS mixing w/CBC NS, opening pgm. in Cantonese, fading. (Hauser)
- 9625nf EGYPT R. Cairo, AA to N. America, 0145-0245. (Padula) 5/4
- 9625 CANADA CBC Northern Svc. 1048 w/test on 5/3, QRM VOA. (Hanner)
- 9635 BRAZIL R. Aparecida, 0015, PP tlk. mentions of "Brasileira", usual Brazilian format 0030 ID; not reported in quite a while. (Hill)
- 9635 SINGAPORE R. Singapore, 2305 w/CC news read by lady. (Padula) 5/4
- 9640 S. KOREA R. Korea, 1100, EE news and comment, Sunday Magazine. (Zilmer)

- 9640 S. KOREA R. Korea, 1230, JJ ID, IS opening pgm; fair. (Hauser)
 9640 USSR R. Moscow, SS svc. to S. America, 0355. (Padula)
 9645 COSTA RICA TIPC, 0325-0425, EE relig. pgm, good to excellent. (Brunner, Zilmer)
 9645 BRAZIL R. Banderientes, 2338, PP live phone interviews//11925. (Lucas)
 9646.5 VIET NAM N. Tay Bac, 1145-1430, VV pgm. //6327. (Willis)
 9645nf CHINA R. Peking, 1000-1155, RR pgm. jammed. (Willis)
 9650 GUINEA REP 2200-2220, PP tlk. news, ID, fair-good. (Brunner)
 9650nf PORTUGAL DW-Sines, 0530-0600, ex 6010 w/pgm. in Czech. (Padula)
 9655 HUNGARY R. Budapest, 1945-2000, GG svc. to Europe, new svc. (Padula)
 9660 VENEZUELA R. Rumbos, SS news at 1040, not //4970. (Willis)
 9665 BRAZIL R. Nac. Brasilia, 2345, PP/EE pgm. EE IDs. (Lucas)
 9665 MALAYSIA R. Malaysia, Kuala Lumpur, EE nx. 0005, good daytime sigs. (Padula)
 9675 BRAZIL R. Diario Da Manha, 2330, PP tlk. (Zilmer)
 9680 UNID 1330, S. Asian mx. EE annot. 4/30 only over Australia. (Behr)
 9680 CUBA R. Havana, 1305-1315, SS speech. (Earhart)
 9690 PAKISTAN R. Pakistan, 1930 AA tlk. and S. Asian mx. 1955 AA news to 2000 s/off w/anthem; is not Abu Dhabi as I suggested last month. (Behr)
 9690 ARGENTINA RAB, 2358, SS ID, London Symphony Orch. (Lucas) 0330-0400 s/off EE mx. and cntry. (Talbot)
 9695 BRASIL R. Rio Mar, 2322-2346, Brazilian pop mx. ads, IDs. (Lucas, Miller)
 9700 BULGARIA R. Sofia, 0000-0030-EE nx, mailbag, folk mx. (McCarthy, Hersh)
 9701 MAURITIUS MBO, 1301 s/off after annots. Indian lang. Beware of Malaysia here.
 9710nf USSR R. Moscow via Petropavlovsk, 0730, EE pgm. to WCNA. (Davis) (Willis)
 9720nf INDIA AIR, Delhi, 2250, General Overseas Svc. ex 9570. (Padula)
 9730 GERMANY E. REI, 1839, very good w/EE nx. to Europe. (Hauser)
 9730 BELGIUM RTE, 2215-2315, 2255-2315 EE, (McCarthy)
 9740nf USSR R. Moscow, SS to Americas 0315, blocks VOA-Kavala, Prague. (Padula)
 9745 INDONESIA W. IRIAN, RRI Merauke, relay Jakarta nx. 2300-2310, very poor quality suggesting an 'off the air' speaker/mike arrangement for the feed. (Padula)
 9745 IRAQ R. Baghdad, 1942-2020 s/off. EE nx. ID, cntry. (Miller, Brunner, Hersh)
 975nf BELGIUM RTE, moved here from clearer 9730 5/11 at 2257, EE under AFRTS-Bethany carrier, which completely covered Belgium at 2300 modulation. (Hauser)
 9757.5V IRAQ R. Baghdad, ex-9745, 2030GG, 2115 FF, 22028 w/anthem. 5/1 (Behr)
 9757.65 UNID AA speaking station 1840, GRM VOA 9740. (Hauser) SEE ABOVE ITEM.ed.
 9760nf USSR R. Moscow, SS svc. 0310, ex-41mb. (Padula)
 9770 AUSTRALIA RA, 1250-1305, EE pgm. GRM 4VEH. (Earhart)
 9770 HAITI R. 4VEH, 1106, EE relig. pgm. (Willis)
 9755.5 VIET NAM S. (sorry out of order!) R. Saigon. This freq. active again after the fall of the South. 1045 w/patriotic chorus, annot. VV by woman, the a vocal number. // 9620. (Hill)
 98'5 ISRAEL IBA, 2000 s/on -2300, EE pgm. mx. and news. (Schwartz, Hersh) EE nx. at 0405, poor. (Hanner) 0415-0430, FF nx. new time //9009, 7395, via long path.
 9820 N. KOREA R. Pyongyang, 2300 s/on 2345* CC pgm. poor to fair. (Davis) (padula)
 9912 INDIA AIR, Delhi, 2005-2032, EE to UK and W. Europe, nx. IDs, excellent sigs! (Brunner) 2220-2230* EE tlk. (Schwartz)
 10020 CLANDESTINE Liberation R. 1230 EE, extra freq. used for few days only. (Willis)
 10041 N. VIET NAM Hanoi, SS tlks. about surrender, 1100-1130. (Padula) 5/5.
 10056 N. VIET NAM Hanoi, 1110, VV tlks. and revolutionary mx. (Padula) 5/5 1300-1400 VV tlk. and hymn like songs. (Shaw) your UNID ED.
 10080 CLANDESTINE VonUFK, ended transmissions on 4/22. (Willis)
 10225 CLANDESTINE R. Liberation, HS, VV tlks. 1100-1115; Saigon outlets carrying normal VTVN programming. BBC-MS report indicated that VTVN 7175 has been heard relaying R. Liberation. (Padula) 5/5.
 11290 CHINA R. Peking, 1330, HS relayin CC. 1730 s/off. (Davis)
 11487.5 N. KOREA Pyongyang, 0425-0445* Reports of Somali here may be questionable unless ID was heard. SS at 0425, closing w/ID and Nat'l Anthem. (Shaw)
 11535 N. KOREA R. Pyongyang, 1230 EE tlk. (Zilmer) 1040, EE, mx. 1052* (Shingler) *0400-0445* SS pgm. //12075. *2300-2345* EE pgm. //15630. (Davis)

So ends another log report! PLEASE!!! When reporting leave enough space between items so they may be cut apart (prefer if you would cut your reports before sending them) Type or print so I can read your reports. Many reports got the 'red pencil' due to hieroglyphics! Check page LR-A-7 of Aprils FRENEX for reporting guide. Many thanks to all who reported.

Charles Brunner, PA. SW4-A, Bill Davis, CA. Homebrew, Ken Earhart, PA. SX-190, Edward Kusalik, ONT. R-388, Ken Duke, OH. R-390A SPR4, Jim Hagen, VA. R-390, Robert Hanner, AUSTRALIA. Trio 9R59DE, Glenn Hauser, OK. HQ-160, Bob Hill, CA. R-390A, Dan Hersh, PA. Sony TFM 8000W, George Green, TX. DX-160, Arnold Lausevich, WI. DX-150B, Mark Lucas, OH. SPR-4, Larry Magne, PA. R4B, Alan Mayer, IL. SPR-4, Dan Mc Carthy, IN. DX-160, Pitt Mc Neil, DC. DX-160, Al Miller, OH. HRO-500, Jack Jones, MI. DX-150A, J. Moritz Jr. OH. DX-160, Bob Padula, AUSTRALIA, Marconi CR100, Greg Ravenhorst, MN. RA3, Carl Rosyco-ki, NY. R388, Ed Shaw, CA. Dan Shingler, MI. DX-160, Richard Schwartz, DE. Larry Talbot WI. SB-313, John Tuchscherer, WI. HQ-180A. Bob Zilmer, WI. SPR-4.
 APOLOGIES, APOLOGIES, AND MORE APOLOGIES! Due to a unexpected out of town trip LRB was edited and typed very late. Many reports had to be edited out due to this. 73's

LOG REPORT - C

6-75

Editor: Jerry A. Lineback

P. O. Box 325

St. Joseph, Illinois 61873

11600 kHz up

U.S.A

Deadline: 16 June 1975

- 11620 INDIA AIR; 2200 EE, nx, cmntry, //11740, poor (Zilmer 4-24)
- 11672 PAKISTAN R Pakistan; 1300 EE nx, 1842 lang, Pakistan stringed mx, 1900 ID, Urdu?, 1900-1930 AA like chants and mx, YW ancing mx, poor (Zilmer 4-20, Schwartz 4-5, Moritz 4-24)
- 11685 CHINA RP; 1200-1255* EE, nx, cmntry, features, ID, Inter, sched, fair, //11650, (Schwartz 5-11, Jones 4-28, Zilmer 4-20)
- 11690 USSR tent. R Yerevan; 0330-0340 lang, muffled voices and fast fade, RR ballad by male singer, poor (Earhart 5-1)
- 11695 CLAND R Peyk e Iran; 1630 OM tk in Farsi?, 1645 chant with strings, 1650 tk and short mx interruptions, Tehran hrd, 1700 one long then possible ID mentioning Iran, then more tk to 1705, slow fades but signal strong, (Cress 4-20), 1730 mx, time, ID, fair (Lucas 4-25).
- 11700 DOM REP R Clarin; 1312, 1830, 2000, 2320, 0056, 0400 SS, ads, mx, tlks, telephone talk show, fair-excellent (Jones, Earhart, Lucas, Moritz, Duke, Padula-Australia)
- 11700 GERMANY (DR) RBI 1257 AA, 1259 IS, 1300 ID in AA to 1310, nx, cmntry, fair (Schwartz 5-11)
- 11700NFUSSR RM; 0200-0230 SS to LA, (Padula-Australia 5-4)
- 11705 SWEDEN RS; 2300-2325 EE, class mx, ID, IS, px to NA, new time, //9605, 6035, poor (Zilmer 5-4, Miller 5-8)
- 11705 JAPAN NHR; *0930 ex 0900 in JJ, (Hanner-Australia 5-4)
- 11710 NEW CALIDONIA R Noumea; often hrd here from f/i at 0300 to after 0600, usually fair to good by 0430, FF, no local ID hrd, but Noumea often mentioned, //7170 (Davis)
- 11710 ARGENTINA RAE; 2305-2349 EE, Daily EE px, nx, features, mx, fair (Hersh 4-8, Earhart 4-22)
- 11710 USSR RM; 0305 SS, NF ex 41 m band, xed Noumea, (Padula-Australia 4-27)
- 11710 USSR Vladivostok; *1400-1700* VV, usually good, often jammed, (Davis)
- 11715 ALGERIA RTVA; 2314 AA, tk, nx?, AA mx, tk by W, good (McNeil)
- 11720NF USA WYFR; 0200-0230 EE, rel px, //9525, (Hauser, Padula-Australia 5-4)
- 11720 CANADA/CUBA 1900 CBC NS and RHC still head-on, EE against SS, not for so many hours, (Hauser 5-4)
- 11720NF USSR Kenga; 0000-0030 EE to NA //9665, 9685, 11750, 11770, 11870, fair (Legge 5-11)
- 11730 USSR R Tashkent; *1200 EE to Asia, NF ex 6025 (Hanner and Willis-Australia 5-3)
- 11735 YUGOSLAVIA R Belgrade; SS, ID, IS, NA, bands in use, nx by M&W, some fading, no time and credit lost.
- 11735 MOROCCO RTM; 1650, AA chants, fair (Schwartz 5-4)
- 11737.5 BRAZIL R C de Goiania; from 0115 barely audible through OAS 11740 splatter, var. of easy-listn mx, PP anmts, unreadable ID after OAS s/off, mentions of Goiania possible, 0258*, (Hill 5-11)
- 11738 INDIA AIR; 1230 EE, drifting from nom 11735, (Willis-Australia 4-19)
- 11740 INDIA AIR; 2201 EE, nx, hrd after VoA 8.0 off at 2200, fair (Zilmer 4-26)
- 11740 AUSTRALIA RA; 1200 EE, nx, fair (Zilmer 4-20)
- 11740 USA VoA Bethany; *0100-0115 EE, nx, rather poor w/QRM, (Moritz 4-16); 2347 EE, IDs, nx, Argentine mx, SS at 0000, good (McNeil)
- 11750NF USSR R Kiev; *2200-2300 Ukr, //9665, 11720, 11735, severe QRM of BBC, (Legge 5-11)
- 11760NF USSR RM HS; 1100, //11870, 1200, 11800, (Willis-Australia 4-25)
- 11765 BRAZIL R Tupi; 0147 PP, futbol, poor (Lucas 4-24)
- 11770 USSR RM; 0800-1000 EE to Aust/NZ, //15130, 15260, new time ex 1100-1300, (Hanner, Padula, Willis-Australia)
- 11770 USSR R Vilnius; 2230-2300 Lith (EE Sat and Sun) //9685, 9745, also 0030-0100 //9685, fair (Legge 5-11)
- 11770 USSR RM; 1005 CC svce, also 0750 (Padula-Australia 4-27)
- 11775 MEXICO R Mex; 1530 SS, anmt of return to air at 0000 with Radio Correo del Aire, no QRM.
- 11780 BRAZIL R Nac; 2115-2200 EE, features, (Padula, Tedone); poor, covered by BBC, (Earhart 5-5)
- 11780t SAUDI ARABIA BSKSA Riyadh; 1655-1705 AA, cmntry, AA chants, no ID, fair (Schwartz)
- 11780 NEW ZEALAND RNZ; 0555-0630 EE, IDs, nx, mx, px details, brief fading, fair (Brunner)
- 11780NF SWITZERLAND SBC; 0058 IS, FF till 0645*, excellent, (Willis, Hanner-Australia 5-4)
- 11785 BRAZIL R Guaiba; 2342, 0150, 0215-0235 PP, nx, mx, ads, ID, TWR QRM, futbol, fair (Miller 4-21, Duke 5-6, Lucas 4-24)
- 11789v INDONESIA JAVA VoI Jakarta; 0843 ID in Malay, Malay vocals, (Hill 4-15), 11790 1123 EE, nx, Indon mx, fair (McNeil); 1245-1248* Land, tk and mx, IS at s/off, poor (Zilmer 5-4)

- 11795 GERMANY (FR) DW; 1705 GG, nx, ID, px to SEA, fair (Schwartz 5-4); 1900-2100 AA to ME, Maghreb from 2100-2125, NF ex 9600, (Padula-Australia 5-4)
- 11800 CANARY IS RNE; 2330-0003 SS, clear IDs, mx of C&S America, good (Brunner)
- 11800 ITALY RAI; 1950 EE, disc. on art, fair (Hersh 5-7)
- 11800a POLAND R Warsaw; 1601 EE, nx, IDs, pop mx, features, off in middle of song 1626, back at 1630 with mx, into GG px, (McNeil)
- 11805 USA AFRTS Delano; 0700-0900, NF ex 6095, xed El Aaiun (Padula -Australia 5-4)
- 11805 BRAZIL R Globo; 0045 PP, Ads, mx, ID for Musical popular, fair (Lucas 4-26)
- 11805 SPANISH SAHARA R Sahara; *0700 ex 0800, SS, amts, march mx, (Hanner and Willis-Australia 4-23); 1130 AA, ID, 1320 SS, amts, Aaiun mentioned, US pops, AA mx, 1330 ID, 1400 ID, SS, mentions of Aaiun and Las Palmas, poor to fair (Schwartz)
- 11805 USA WYFR; 1800 ID and freqs, heavy QRM (no name)
- 11810 CHILE LVde Chile; 1304 FF, cmntry by YW, 1332 SS, ID, Andian mx, cmntry, 1220-1238 EE, nx, cmntry, poor (Jones 4-28, Miller 4-26, Zilmer 5-3)
- 11810 AUSTRALIA RA; 1230 EE, to E Asia, poor (Zilmer 4-27)
- 11810 ITALY RAI; 0100-0120 EE to NA, cmntry, nx, mx, poor (Zilmer 5-7); 0140-0305 II to LA, NF, //11905, (Padula-Australia 5-4)
- 11815 NETH ANT TWR; 1135-1140 EE, "Great is our Lord" px, 1215 EE DX special, 0030-0100* EE, mx and you px, DX special at 0045, Bob Padula mentioned with Australian DX Club, fair-good (Moritz 5-7, Zilmer 5-10, Brunner)
- 11815 JAPAN NHK; 1400-1430 EE general service, inaudible in April on //5990 intended for NA, on 5-4 back to //9505, but 11815 better, (Hauser)
- 11825 CANADA RCI; 1115 EE, nx to Caribbean, poor (Zilmer 5-6)
- 11825NF INDIA AIR; 0005 GOS to Asia, ex 11895, //11770 also hrd, (Padula-Australia 5-4)
- 11830NF ROMANIA RB; 0645 EE, //17775, 11940, 15250, 15380 unannounced, (Willis-A, 5-4)
- 11830 ETHIOPIA ETLF; 1635 lang, Afro mx, 1640 ID in lang/EE followed by sched, 1641*, (McNeil)
- 11830NF OKINAWA-VoA; 2327 CC, (Hanner-Australia 5-4)
- 11830NF USSR RM; 0300-0330 SS to LA, (Padula-Australia 5-5)
- 11835 SUDAN R Omdurman; 2150-2203* AA, Koran chants, 2201 ID, fair (Mayer 4-13)
- 11835 URUGUAY R El Espectador; 0203 SS, nx, ID, fair (Lucas 4-25)
- 11835NF CANADA RCI; 0100-0157 ex 6020, QRM from HCJB at 0230, SS to LA 0300-0357 again in bad mess w/HCJB, ex 6045 this tx, (Padula-Australia 5-5)
- 11835NF ECUADOR HCJB; 0350-0405 RR/Romanian, EE ID, rel px, poor, (Earhart 5-4); 0230-0300 RR, NF ex 11830, (Padula-Australia 5-4); 1200 JJ, ex 6065, EE DX px on sundays, //9715, good (Hauser)
- 11835 HAITI R 4VEH; 1125-1140 EE, nx, wx, tlk, 1400-1405* EE nx, 2345 EE, "Night Call", 0015-0031 SS, tlks and mx, fair-poor (Moritz, Hersh, Earhart, Jones)
- 11840 JAPAN NHK; 2307 VV tlk, new time ex 0430, (Hanner-Australia 4-9)
- 11840t ETHIOPIA ETLF; 2030* EE, rel and African mx, nx, slight QRM, (no name)
- 11845 MALTA RCI relay; 1905-1910, FF to Africa, NF ex 6110, (Padula-Australia 5-5)
- 11845 AUSTRIA ORF; 2200-2230 GG to SA, NF ex 11930, sched 2100-0000 but blocked 2100-2200 by HCJB, and from 2300-0000 by RN Lopik, both on 11845, clear only between 2200 and 2300, (Padula-Australia 5-5)
- 11845-7 ALGERIA RTVA; 0612 AA, Koran readings, // 6145, (Hanner-Australia 5-4), //9685 also (Willis-Australia)
- 11850 NORWAY R Norway; 1915-1930, NN, to Pacific, ex 11895, xed USSR, (Padula-Aust. 5-5)
- 11855 USA WYFR; 2252-2300 EE, into SS at 2300, fair (Earhart 4-13)
- 11855 CANADA/CUBA 1857 conflict on same freq here also, (Hauser 5-10)
- 11855 CANADA RCI; 1820-1845 EE, Listeners mailbag, (Moritz 4-19)
- 11860 NORWAY R Norway; *2300-0030* NN, 0300-0315 NN ex 11850, //9645, fair (Legge 5-11, Padula-Australia 5-4)
- 11865 USA VoA Delano; 0813 RR, sched 0800-1100, NF (Hanner, Padula-Australia 5-4)
- 11865 PORTUGAL DW Sines relay; 1830-1915, NF ex 4130 over jamming, (Padula 5-5)
- 11865 BRAZIL R C de Pernambuco; 2100 PP, ID, tlk, mx, fair (Zilmer 5-3)
- 11866 ZAIRE R Lubumbashi; 0440 FF political speech, via LP, (Padula 4-14)
- 11870 SWITZERLAND SBC; 1530-1540 EE, nx, to ME and Afr, fair (Earhart 5-3) Higham)
- 11880 MEXICO R Seis; 1235-1245 SS, 2330 SS, ads, Mexican mx, IDs, fair-good (Moritz, //
- 11880 TURKEY VoT; 1741 TT, TT mx, moderate het, good (Lucas); 0130-0300 TT, relay of HS, (Padula, Willis-Australia); *2054-2110 IS, CG px, nx, tlk, fair (Moritz); 2145 FF, 2200 EE, nx, ID, 2230 DX px, 0015 EE px, jazz, //9515 fair (Overcamp, Zilmer, Schwartz); 1053-1102 TT, songs with strings, poor (Earhart)
- 11885 UNTD; 1300-1400 all music station (Willis-Australia 5-4)
- 11890 USSR Irkutsk; *1500-1700 VV, 1700-1800 CC, replacement for 9810, poor to fair signal, some polar fade (Davis)
- 11890 PHILIPPINES FEBC; 0937-0952 EE, nx, choir mx, rel tlk, ID, fair w/fading (Shingler)
- 11895 SENEGAL R Senegal; 2140-2200 FF, jazz, YW ancer, FF nx on hour, then xed by DW and VoA s/on, good till DW came on, (Moritz 4-27)
- 11895 ECUADOR HCJB; 0120 SS, rel px to Americas, via short path, ex 11970, (Padula 4-20)
- 11900NF USSR RM; 1223 EE to UK, ex 12050 (Hanner-Australia 5-6)
- 11900NF ETHIOPIA ETLF; IS at 1328, 1330 EE, (Willis-Australia 5-3)
- 11905t TAIWAN BCC; *1530-1615* in CC dialect to 1600 then Korean or similar. No ID hrd begins and ends tx with oriental flavor orch. mx, no //, often jammed, probably tx beamed to mainland (Hill 5-8 and others)
- 11905NF PORTUGAL DW Sines; 1930-2030 HH, 2030-2115 Czech, ex 7285, QRM de NZBC, (Padula

- 11905NF GERMANY (FR) DW; 2300-2320 GG to A/NZ/E Asia, ex 6065, good (Padula-Australia 5-5)
 11910 HUNGARY RB; 2140-2150 EE, ID, DX px, for Eu, good (Schwartz 5-5)
 11910NF USSR RM; 0915 JJ, (Padula-Australia 5-3)
 11910NF ECUADOR HCJB; 0045 FF, 0100-0150, 0423, 0630 EE, ex 11915, rel px, (Hanner, Padula, Willis, Hauser, Cress)
 11915NF USSR RM; 2200-2300 NF ex 49 m band, in CC, (Padula-Australia 4-24)
 11920 IVORY COAST RTVI; 2725-2248 FF/Vern, tlks, mx, 2305-2325 FF, ID, mostly Afro mx, fair to very good (Brunner, Earhart)
 11920 SPAIN RNE; 1103-1115 SS, mx, tlc, earlier s/on on Sunday, fair (Earhart 4-27)
 11925 BRAZIL R Banderiantes; 0152 PP, futbol, poor (Lucas 4-24); 0020 sports (Padula)
 11925NF GREECE VoA Kavalla; 0424 EE to Africa, (Hanner-Australia 5-4)
 11930 USSR RM; 1400 AA, //11755, (Willis 4-24); Guarani to Paraguay at 0130-0200 into RP&P in SS, strong, over RHC, (Padula-Australia 5-4)
 11930 CUBA RHC; 0210-0230 EE, VoV px, asked for listeners comments, (Moritz 5-4)
 11930 AUSTRALIA RA; 2300 EE, nx to SEA, fair (Zilmer 4-24)
 11930 BELGIUM RTB; *1715 FF, IS, ID, px to Africa, into African lang, fair (Schwartz 5-4)
 11940 KUWAIT RK; 1700-1800 EE, US pops, TC, ID, tlc abt Kuwait-Iraq border, good nx, aced 11940 to ECNA and 9555 to WCNA, fair-good (Schwartz, Miller, Overcamp)
 11940 CANADA RCI; 0113 EE, added for Caribbean on 5-5, mix w/BBC audio, (Hauser, Zilmer, Padula)
 11945 SPAIN RNE; 2248-2300* SS, mailbag mx request, fair (Earhart 4-22)
 11950 LIBERIA ELWA; 1910-1930 lang, mx, EE ID into EE rel px from 2030-2045, very good (Brunner)
 11950 HOLLAND RN Lopik, 2200 EE, class mx, good (Zilmer 4-28)
 11950NF USSR RM; 0000-0030 SS, to LA, ex 41 m band, (Padula-Australia 5-5)
 11950 BRAZIL R Min da Educacao; 2255 PP, tlc, ID, poor (Zilmer 4-30)
 11960 ISRAEL IBA; 2050-2055* EE, freq quotes, (Moritz 4-27); 0415-0430 FF, new time ex 0515, 0406 EE nx, new time (Padula, Hanner-Australia 5-2)
 11960NF USSR RM; 0730* EE to NA, (Willis-Australia) Petropavlovsk, Kamchatka EE to Western NA from *0300-0730*, still jammed by Peking, apparently they think Vladivostok is still there w/CC, (Davis)
 11960 JAPAN NHK; 1858 closing in EE to EU, DX nx, //9605, 1900 into RR (Hauser 5-4)
 11965 RWANDA DW; *1800 GG, freqs and ID, (No name)
 11970 USSR RM; 0217 EE NA svce, //12050, possibly FE site, interesting because the audio was mixed with a heavy grind jammer, their own, (Hauser 5-4)
 11970 TUNISIA RTT; 1720 AA, AA chants, OM w/tlc, good (Miller 4-20)
 11990RF CHINA RP; 1300-1355 Law, //9440, (Willis-Australia 4-24)
 12005 CIAND Voice of the Nationa Union of Kampuchea left air on 4-22, after much extended transmissions, (Willis-Australia). How about a new 500kw tx each for Laos, Cambodia and S Vietnam??
 12010 USSR UNKNOWN far east site; *0000-0500 or 0600 f/o, CC, usually poor due to combination of UTE and Peking jammers, (Davis)
 12020 USSR Petropavlovsk, Kamchatka; (0500-0730* EE to western NA, also *0800 to 0830 in JJ, usually fair to good (Davis)
 12025 ISRAEL IBA; 2000-2010 EE, ID, nx, cmtry, fair-good; 0400 EE new time, ute QRM, (Hauser, Hanner, Schwartz, Hersh, Earhart)
 12050 USSR Far East site; *2200-0730* EE to NA, from 0300 to Western NA, Ukrainian also, usually good signal (Davis, Willis 4-25)
 12070 NORTH KOREA RPyongyang; 0420 SS, tlc abt Korea, mx, ID, some QRM, //11535, (Hauser)
 12075 NORTH KOREA R Pyongyang; *0400-0445* SS//11535, often good (Davis)
 12095 ENGLAND BBC; 1915 EE WS, often suffers from an open-carrier het on low side, (Hauser 5-8)
 12240 USSR Madagan; 0141-0150 RR, tlc, fair (Mayer 4-28)
 14975NF USSR RM; 1200-1300 CC, jammed by Peking (Willis-Australia)
 15003NF USSR RM; 1200-1300 CC, jammed, (Willis-Australia 4-13)
 15012 N VIETNAM VoV; 1828 EE, tlks abt South, letterbox, poor (McNeil 4-28)
 15060 CHINA RP; 0025-0130 EE, gloat and crow over SEA, good (Schwartz 4-19, Moritz 5-1)
 15070 ENGLAND BBC; 1500-1515 EE WS, nx on Vietnam, (Moritz 4-27)
 15080RF CHINA RP; 0130-0140 EE, more high-powered gloating over fall of Phnom Pehn, good (Schwartz 4-19)
 15084 IRAN R Teheran; 1330-45 Farsi, ID, Iranian mx, amts, also 1400-1435 tent in Farsi, 1905, Farsi, tent 2029 in unknown lang w/ID, tlc sounded Arabic; (Schwartz, Talbot, Earhart, Jones)
 15100 ISRAEL IBA; 2130 RR, ID, nx, good (Schwartz 5-5)
 15100 USSR Vladivostok; *0400-0730* EE to western NA, fair to good (Davis)
 15110 MEXICO R Sels; 2000-2012, 0130-0140, SS, ads, ID, musica tropical, (Moritz, Brunner)
 15110NF HOLLAND RN Lopik; 0930-1050 EE to A/NZ, clear, (Padula 5-4)
 15110 NEW ZEALAND RNZ; 0015 EE, oldies, nx, 2329 ID, DX world, No Mexico, poor (Miller 5-6, McNeil 4-28)
 15115 RF USSR R Tashkent; *1200 EE, cmtry (Willis, Hanner); RM here in KK at 1000-1030, xed Pakistan, (Padula 5-4)
 15115NS BRAZIL R Iquapo; New station, pronounced ee-kwa-co, issued a construction permit in spring of 74 for a 7.5 kw station to tx from 2100-0300, positive ID hrd, must be regular now (MacLeod). Thanks for the information. This brings up a point, please provide the LR editors with all information available when reporting new

- stations or other unusual circumstances. The LR editors try to keep up on the ever changing SW scene, but sometimes we don't know and it is difficult to evaluate a report without complete information from the reporter. -JAL
- 15120 VATICAN VR; 2005, 2017 Latin, 2020 ID in FF, 1700 EE, rel nx, fair-good, (Zilmer, Schwartz, Overcamp)
- 15120 MALAGASY REP RN; *1959 EE, Happy Sta. px, good (Jones 4-20)
- 15120 NEW ZEALAND RNZ; 0315 EE, quiz px, poor (Zilmer 5-9)
- 15125 BELGIUM RTB; 1525-1530 FF, ID, nx, poor (Schwartz 4-26)
- 15125 MALAGASY REP RN; 2103-2120*EE, Dutch brass band mx, ID, nx, tlk, good, (Shingler)
- 15125 MEXICO R Mex; 0430-0500 SS via short path (Padula-Australia 4-14); 0030 SS, px anmt, mx, fair (Lucas 4-26)
- 15125 TAIWAN BCC; *0200 EE, ex 9510, (Willis-Australia 5-4)
- 15130NF USSR RM; *0800-1000* to A/NZ, in EE, (Willis, Padula, Hanner); Khabarovsk *0300-0730* EE to Western NA, usually good (Davis)
- 15130 USA WYFR; 0025 GG, tlk, no ID, since moved to 15135, (Earhart 4-14)
- 15135 BRAZIL R Record; 2338 PP, tlks, singing, applause, fair (Earhart 4-19)
- 15135NF GERMANY (FR) DW; 1000-1050, Farsi, ex 15275, (Pasula 5-4)
- 15140 FRANCE RFI; 0700 FF, not listed, 1702 EE, Paris calling Africa, fair (Zilmer, Willis-Australia)
- 15140 SWITZERLAND SBC; 1410 GG, mailbag, good (Schwartz 5-11); 2318 PP cmntry, NF ex 9750 also at 0559 under RM, IS, ex 9625, poor (Hanner 5-4)
- 15140NF USSR RM; 0830-0900 CC, (Padula-Australia 5-3)
- 15150NF FRANCE RFI; 1310 FF, //15155, also 0825-0900 FF, (Willis, Padula-Australia)
- 15150 USSR R S Atlantika; 1635 RR tlk, good //15445, (Overcamp 5-11)
- 15150 CHILE LV de Chile; 2340 SS, diatribe, 2300 EE, 2310 SS, 0030 SS, ID in GG, 2330-2340 AA, usual px, fair to poor (Schwartz, Overcamp, Lucas, Earhart)
- 15160 ALGERIA RTVA; 1445-1455, 1950 AA, AA mx, ID, poor-fair (Mayer 5-3, Lucas 4-26)
- 15160 MEXICO Voz de la America Latina; 2205-2214 SS, pops, tlk, M&W DJs, ID, fair till VoA s/on, (Mayer 4-19, Duke 4-9)
- 15160 HUNGARY RB; 1030 EE to Australia, new service, (Padula-Australia 5-4)
- 15160 AUSTRALIA RA; 0300-0330 EE, mx to Pacific, //15355, fair-poor (Zilmer 5-10, Earhart 5-1)
- 15160 ENGLAND VoA Wooferton; 1200 RR nx, replaces Kavalla (Hanner-Australia 5-4)
- 15160 FRANCE RFI; 1705 EE, Paris calling Africa, fair (Zilmer 5-4)
- 15163NF CHINA RP; 1400 RR, not jammed, (Willis-Australia 5-3)
- 15165 VATICAN VR; 1540 EE to SEA, Anglican-Roman Ecumenism tlk, fair (Hersh 4-29)
- 15170 TAHITI RT; 2150, 2300-2310, 0314-0322, 0155-0205, 2253, 1815 FF, 0311 Tahitian, pop and Island mx, fair-good (Schwartz, Earhart, Lucas, Jones, McNeil)
- 15170 LIBERIA ELWA; 2000 AA, IS into ID, QRM from Tahiti, (Lucas 4-26)
- 15175 NORWAY RN; 1604 EE in weekly Sunday px, over QRM, het, (Hauser 5-4)
- 15175NF CANADA RCI; barely audible at 1115 to Caribbean, //11825, 9665, 5970, poor (Zilmer)
- 15180 USSR Khabarovsk; *2300-0230* CC, *0300-0730* EE, Chinese px usually weak to fair, EE to Western NA good (Davis)
- 15185 FINLAND RF; 1410-1414 EE, 2030 EE, 2300 EE, 2255 IS, good but fluttery till 2300 when RCI splash, poor by 2329, 1400 px remains better, requests letters protesting ending of EE broadcasts as proposed, (Hauser, Zilmer, Earhart, McNeil) *1600-1630 EE, nx, cmntry, 1530 Finnish, good (Schwartz, Higham)
- 15185 SRI LANKA VoA; 0156 Hindi cmntry, 0200 EE, (Hanner-Australia)
- 15190 UNID 2003-2013*, non-stop US pop instrumentals, no talk or ID, good (Mayer 5-4)
- 15190NF CANADA RCI; 2325-2355* PP, pops, 0000-0100 SS to LA, QRM NHK, (Moritz 5-1, Brunner 4-19, Padula-Australia 5-5)
- 15195 ASCENSION IS VoA; *1130-1400* SS to LA, QRM from Sweden, ex 21455, fair (Legge 5-11)
- 15195 SWEDEN RS; *1300-1400* Swedish/FF to LA, QRM VoA, (Legge 5-10)
- 15205RF PAKISTAN RP; 0230 EE, good (Willis-Australia 5-4)
- 15210 USSR Petropavlovsk; *2200-0430* EE to NA, strong, often low modulation and poor sound quality, (Davis)
- 15225 TUNISIA RTVT; 2013-2025, 2150, 1715-1748 AA, AA mx, tlks, poor-good (Mayer 4-26, Lucas 4-25, Duke 4-16)
- 15230 AUSTRALIA VLH15 Melbourne; 0400 EE sports results, mx, over RHC, rarely reported in NA, (Hauser 5-5)
- 15245 BRAZIL R Nac; 1957 PP ID, chime IS, 1958-2000, cmntry to 2010 then pops, 2015-2030 GG, fair (Schwartz 4-27, Cress 5-8)
- 15245 UNID; 1445-1500* CG, mx, tlk, poor (Mayer 5-3)
- 15245 USSR Petropavlovsk, Kamchatka; *2200-0500* EE to N America, to W NA from 0300, strong, often low modulation and poor sound quality, (Davis, Hauser, Padula)
- 15245 GERMANY (FR) DW; *1330 GG, nx, fair (Jones 5-3)
- 15250 ROMANIA RB; 1300 EE, nx, fair (Zilmer 4-27)
- 15250NF SWEDEN RS; 1200-1230 Swedish to Africa (Legge 5-11)
- 15250NF CHINA RP; *0900 CC, //15270 (Willis-Australia)
- 15255 USSR RM; 0830-0900 NF for CC svce, EE to Asia 1000-1030, 2345 RR, clear ID, (Padula-Australia 5-3, Earhart 5-1)
- 15255 NETH ANT TWR; 1323* EE, s/off, good (Jones 5-3)
- 15260NF USSR RM; 0800-1000 EE to A/NZ, (Hanner, Padula, Willis-Australia)
- 15260 ASCENSION IS BBC; 2030-2100 EE, march mx, good, (Tedone)

- 15270 ECUADOR HCJB; 2130* SS, amrt that this freq will continue in 10 sec and that //15405 is going off, but 15270 did not return till 2200 and 15405 on past 2130, moves to 15270 from 15265 to protect BBC at 1900, extended sched past 2130 to 0030 wipes out Japan *2345 on this freq. Japan has been here a long time, have suggested HCJB desist, (Hauser 5-4)
- 15270NF CHINA RP; *2330 Indon, (Hanner-Australia 4-27)
- 15275NF SWEDEN RS; *1230-1220* EE/Swed to FE, ex 15105, fair (Willis-Australia, Legge 5-11)
- 15275NF GERMANY (FR) DW; *0930 EE to A/NZ, ex 15135, poor level (Padula-Australia 5-5)
- 15280 NEW ZEALAND RNZ; 0313 weaker than //15110, EE, US comedy record, not on 17900, poor, (Hauser 5-4, Miller 5-11); 0200-0230 EE, nx, class mx, sports report, //15110 fair-poor (Quinn 4-29, Schwartz 5-5, 5-8)
- 15280NF USSR RM; 1000-1030 EE to Asia, (Padula-Australia 5-4)
- 15285 USA KGEI; 2250 SS, rel px, IDs, good (McNeil) 5-1
- 15290 AUSTRALIA RA; from 0455 EE cmtry re fall of S Vietnam, fair, //17820, poor (Cress/PHILIPPINES VoA; 2215 EE, breakfast show, nx, features, mx, good (Talbot)
- 15290 ENGLAND BBC; 1015-1030 RR, special Sunday svce, //15235 hrd xed NHK, (Padula 5-4)
- 15295NF ISRAEL IBA; 1810 RR, ex 15300, poor, jammed, //15100, 15485, later this freq moved to 15405, notice QRP freaks, this is only 7.5 kw and is on much of the day (Hauser 5-4)
- 15300 FRANCE RFI; 1700-1730 EE, Paris calling Africa w/nx and features, //15150, fair (Zilmer 5-4, Lucas 4-25)
- 15300 USA VoA Dixon; 2330 EE breakfast show, lags 4 secs behind 15290, (Hanner 5-4)
- 15300NF MALTA RCI; *1800-2000* EE/FF to Africa ex 15305, severe QRM from RFI, (Legge 5-11)
- 15300 JAPAN NHK; 2311 VV, tlk, fair, slight splatter from VoA Philippines on 15290, (Hanner-Australia 4-9); 2357-0040 EE, cmtry, features, fair (Earhart 4-18)
- 15300v INDONESIA TRIAN JAYA RRI Jayapura; again noted on a Sunday (GMT) at 0300-0330 w/Indon pops, (Padula-Australia 4-13) 4-13
- 15305 MALTA RCI; *1800-1900 EE, nx, Canada this week, wx, FF at 1900, fair (Overcamp /AUSTRIA ORF; *1500-1600* GG, class mx, ID, freq amrt, fair (Mayer, Legge 5-4)
- 15310 MALAYSIA BBC; 1530 class mx, pops on 4-29, 1600 EE WS nx, fair w/mild polar flutter, //11955 very poor, (Talbot, Cress 4-29)
- 15310NF JAPAN NHK; ending JJ at 0230, blocked by AIR (Willis-Australia 5-4); 0412 EE, general svce, ex 9585, fair but 15105 better, 15310 also sked every hour 0100-1100, to Eu, (Hauser 5-5)
- 15310NF SWEDEN RS; *1230-1300* EE to NA, *1330-1530*, 1400 -1426 EE, nx, features, some mix w/BBC Tebrau, ex 17710, //21690 and 15275 noted (Schwartz, Hauser, Zilmer, Legge)
- 15320t INDIA AIR; 1545-1600*, Hindi, sitar and Indian mx, very poor (Mayer 4-27)
- 15320 AUSTRALIA RA; 0115-0200 EE, fair, light mx, (Quinn 4-29)
- 15335NF S KOREA RK; 0645 EE, 2100-2130 RR, 2130-2200 CC, 0200-0230 KK, 0230-0300 SS, ID, (Willis, Padula-Australia 5-4, Hill 5-6)
- 15345 ARGENTINA RNac; 1230, 1545, 1720 SS, tlk, mx, ads, fair-poor (Lucas 4-25, Jones 4-26, Zilmer 4-27)
- 15345 GRECE EIRT Athens; 1415-1445 Greek, nx, ID, bazouki mx, poor (Schwartz 4-19); *1600-1700* Balkan langs, QRM'd by Norway and Argentina, fair (Legge 5-4)
- 15345NF TAIWAN VoFC; 1220 VV, ID, (Willis-Australia 5-4); 0200-0350 EE, ID, trad. CC instrumentals, //15370 barely audible, 15125 badly QRM'd, and 11860 ok, also noted (Hill 5-6)
- 15350 NETH ANT TWR; 0150-0215 SS, tlks, time beep, no ID till 0214, fair (Earhart 4-14)
- 15355 AUSTRALIA RA; 0130, 0245, EE, nx, mx, NF ex 15395, (Zilmer 5-10, Hanner-Australia)
- 15360NF CHINA RP; 0230 SS, adjusted down from 15365, //15385, 17650 (Hill 5-10)
- 15360NF FRANCE RFI; 0600-1700 FF, 1700 EE, poor-good (Zilmer 5-4, Legge 5-11)
- 15365 CANADA BBC RELAY via Sackville; 1100, 1600 EE, 1100 px to Caribbean //5990 poor, 1600 resumed westward beam, now like it was in Jan, (Zilmer, Hauser 5-4)
- 15375 ECUADOR HCJB; 2350-0000 JJ, tlk, hymns, fair (Earhart 5-1)
- 15380NF CHINA RP; *2333 Thai, nx, (Hanner-Australia 5-4)
- 15395 AUSTRALIA RA; 2300 EE, nx to SEA, poor (Zilmer)
- 15395 PHILIPPINES VoA; 2332 CC, (Hanner-Australia 5-4)
- 15405 ECUADOR HCJB; *1330-2200* SS to SA, ex 15240, fair-good (Legge 5-11)
- 15405 BANGLADESH R Bangladesh; 0445-0515 EE to ME, 0515-0545 AA, anced 15410, GOS (Padula-Australia 4-11)
- 15405 ISRAEL IBA; as reported low power RR tx on 15295 moved here just a few days into the season, but not heard here due to more QRM (Magne via Hauser)
- 15410 JAPAN NHK; 2310 VV, tlk, very poor (Hanner 4-9)
- 15410 RWANDA DW Kigali; 1215 EE, to Africa, good (Hauser 4-12); 2305-2325, 0130-0140 GG, songs, ID, mx, tlk, poor-good (Brunner, Earhart 4-14)
- 15420NF JAPAN NHK; 0230 EE ending to NA, 0132 EE nx to LA/NA, (Willis, Hanner-Australia 5-4)
- 15425 FRANCE RFI; 1700-1735 EE, Paris calling Africa w/features, nx, mx, poor-good (Earhart 4-26, Duke 4-16, Zilmer 5-4)
- 15425 SRI LANKA SLBC; 0030 EE, all Asia svce, mx at 0100, rel px, (Zilmer 4-29)
- 15425 GRECE EIRT; 1323-1335 Greek, female anncer, tlk, local folk mx, DW under, poor (Earhart 4-19)
- 15430NF SWITZERLAND SBC; 0601 GG nx, ex 15305, almost inaudible (Hanner-Australia 5-4)
- 15430NF JAPAN NHK; 0703 GG nx, ex 15390, (Hanner-Australia 5-4)
- 15435NF AUSTRIA ORF; 2135 SS to LA, ex 7105, also 2200-2300 GG for SA, (Padula 5-4)

NASWA ABBREVIATIONS

The following abbreviations are the ones most commonly used in the preparation of Log Report. Abbreviations are sometimes confusing, but they are necessary to keep the amount of space needed to cover an item to minimum. These abbreviations can also be used in reporting loggings to the LR editors. If you do abbreviate, stick to the standard ones listed below. Please do not use abbreviations known only to the contributor.

All times in FRENDX are in GMT, 24 hour system.

*0000 s/on (sign on)
 0000* s/off (sign off)
 // parallel
 a,A approximate
 AP A Portuguesa
 ARO Amateur Radio Operator
 BBC MS BBC Monitoring Service
 clas classical
 cmntry commentary
 CW continuous wave
 DJ disc jockey
 ECNA East Coast North Amer.
 EIR East is Red
 EL, E-L easy listening music
 FBIS Foreign Broadcast Information Service of the CIA

 FE Far East
 f/i fade in
 f/o fade out
 freq,fqy frequency
 fund fundamental
 harm harmonic (see X)
 het heterodyne
 HS Home Service
 ID identification
 Int Internationale
 IS interval signal
 ITU International Telecommunications Union

 LA Latin America(n)
 lang unknown language
 lbx letterbox
 LL language lesson
 lcl local
 lvl level
 M man
 mod modulation
 MoR Middle-of-the-road music
 mx music
 NA Nat'l Anthem or N. America
 NF,nf new frequency
 nx news
 pgm,px program
 QRK readability
 QRM Interference
 QRN Static
 QSA Signal strength
 QSB Fading
 QTH Geographical location
 RC, RT recheck, retune
 relig,rel religious
 rev revolutionary
 RF,rf reactivated frequency
 s/b should be
 SEA South East Asia
 SSB single side band
 svc service
 t, T tentative
 TC time check
 tx transmitter
 tk,tlk talk
 ute utility station
 v varies
 w/ with
 W woman

WCNA West Coast N. America
 WS BBC World Service
 wx weather
 x harmonic (also see harm)
 xmsn transmission
 xmtr transmitter

 Af,Afr Africa(n)
 As Asia
 CA Central America(n)
 Eu Europe(an)
 Pac Pacific
 SA South America

Languages:

AA Arabic
 Afkns Afrikaans
 BB Bengali
 Cant Cantonese
 CC Chinese
 CS Czech-Slovak
 DD Dutch
 EE English
 FF French
 GG German
 Indo, Indon Indonesian
 Ital Italian
 JJ Japanese
 KK Korean (sometimes Khmere)
 MM Malay (sometimes Mongolian)
 NN Norwegian
 Pid Pidgin
 PP Portuguese
 RR Russian
 SC Serbo-Croat
 SS Spanish
 TT Turkish
 VV Vietnamese

When 3 digit numbers are given in the Log Report, these are "SIO" numbers rating the signal received. The criteria are:

Signal Strength - S

5=Excellent, greater than S9=20db;
 4=Good, between S9+5db and S9-20db;
 3=Fair, S7 to S9+5db;
 2=Poor, S3 to S7
 1=Barely audible, less than S3

Interference - I

5=None; 4=Slight; 3=Moderate;
 2=Severe; 1=Extreme

Overall Merit - O

5=Excellent (local quality); 4=Good;
 3=Fair; 2=Poor; 1=Unusable

NASWA FLASHSHEET

The Flashsheet is published twice monthly by NASWA, 3119 Western Ave., P.O. Box 321, Park Forest, Ill. 60466

JUNE 1975

Freq: KHz

Time: GMT

AL NIBLACK, EDITOR, 420 Shelby St., Vincennes, Ind. 47591 DEADLINES 10 and 20th MONTH
 Reproduction of items here-in is welcomed, provided credit is given the NASWA FLASHSHEET
 and to the individual reporting. Thank you. AL Niblack's phone # (812) 882-3976.

ANTARCTICA (FLASH) 7050 AFAN, McMurdo, heard from 6012, heard in New Zealand from 0600-0900 fade. (Art Cushman to BBC World Radio Club, via Glenn Hauser)
ARGENTINA Radio Nacional, 6060, 2345, SS, native music, many IDs to 2359, rather poorly heard. (Bob Zilmer)
AUSTRALIA 15160 RA from 0245 tuning in EE...stock market report from 0315, with parallels of 15240, 15355. Unusual to hear at this hour for me. (Hadley Cress)
BOLIVIA 6035 Radio Panamericana is holding to this freq for noted 5/13, 1037, many IDs, ads, Indian language and music. (Jack Jones)
BRAZIL 4985.5 (TENT) A Voz do Oeste from 0045 with FF, vocals, TCs from Zulu -3(GMT-3), still at it past 0500. Partially unreadable due to low modulation, but assumed is this one, as does not parallel Aparecida. (Bob Hill)...This one noted since 5/14, suddenly appearing on the band around 0030 checks, think I have heard two IDs for, Voz do Oeste, Guiba. (AL Niblack)...John Tuchscherer thinks likewise on this Brazilian on 4985, but is not positive as to IDs...9635 R. Aparecida around 0015 with FF talk. This one has not been reported in FRENIX in quite a while...11737.5 (TENT) Radio Clube de Goiania from 0115, barely audible through splatter, with easy listening music, FF anncts. (Bob Hill)...Just in from Jack Perolo, Brazil, the long awaited freq changes for Brazilians, just in effect as of 5/1. The following based on loggings 5/2-3-4, and are nominal freqs, not necessarily to the last kHz. New Channels: 3225 Idns R. Clube ex 4935; 3235 RC de Maxilia ex 3255; 3245 RC de Varginha ex 4823; 3265 R. Cultura Pocos ex 4885; 3335 R. Alvorada ex 3345; 3345 R. Bluc. Uberlandia ex 3355; 3365 R. Cultura Araraquara ex 4915; 3285 (if in sequence, perhaps this should have been 3385) R. Olinda ex 3375; 4755 R. B. Rural Campo Grande ex 3295; 4795 R. Aquidauana ex 5025; 4815 Rdf. Parana ex 3365; 4835 Rdf. Teresina ex 3385; 4855 RC do Para ex 4865; 4915 R. Anhanguera ex 5035; 4925 Rdf Taubate ex 4855; 4965 R. Soc. Triang. Mineiro ex 4835; 5015 R. Cult. Guiba ex 5055; 5025 R. Borborema ex 3325; 5035 R. Aparecida ex 4985...Unchanged: 3265 RC Rob. Prato; 3315 R. Gazeta Alagos; 4765 R. Feixe de Santana; 4795 R. Tabajara; 4835 R. Roraima; 4875 R. Jornal do Brasil; 4905 R. Relogio; 4945 R. Capixaba; 4994 R. Brasil Central; 5055 R. Victoria. The Brazilian on 4937V is Radio Poti, up from earlier 4933. (These FLASHES all courtesy NU)
CHINA (PR) 15360, RP with new freq adjusted from 15365, 0230 SS, //15385, 17650. (Bob Hill)
COLOMBIA 5990 LV de los Centauros on 5/15 was on nominal 5990, ex 5961.8, with ID 0435. (Glenn Hauser)...Noted on 5/14, new LV de los Centauros, on 5989, numerous SS IDs, moved up in freq near their quote, somebody must have culd them in, 0405-0430. (AL Niblack)
ECUADOR 4930 R. Casa de la Cultura, 1105-1110 SS, Andean melodies, positive IDs, (Jerry FINELAND)
FINLAND 15185 Radio Finland from tuning 1615, pops, EE anncts, acknowledge- / (Bob Hill) ment of listeners' letters, DX items, fairly good copy. (Hadley Cress)
GHANA QSL from Accra came today for 9545; lists the EE GBC svc in EE to NA, Caribbean, 2000-2100, on 11850....My 61st country QSLed in less than two years. (Charles Brunner, Jr.)
INDIA AIR, 9912, at 2200, EE news, in // with 11620, and 11740, poor lvl. (Bob Zilmer)...
 6145 AIR IS audible under VOA, at 1259; lists as Delhi. (Glenn Hauser)
INDONESIA 3241 RRI Ambon, MOLUCAS, from 0615 plus, early for an II to show, in parallel with 7139; OM hosting with regular EE pops. Low noise lvl this week, supposed kW, and a favorite in recent days. (El Shaw)...2815.5 (TENT) Maybe a RPKK station, though nothing listed near freq, from 1347 with Asian-type vocals, soft voiced woman amncr, man amncr, seemingly in II, past 1400...5916.3 (TENT) MALUKU Station around 0940 in Moslem chants, weak but readable; presumed RRI Ternate, sked 0900-1130, 5/11...11789 Voice of Indonesia, Jakarta, 0843 ID in Malay; 6045 listed in parallel but not audible. Credit all to Bob Hill)
ISRAEL 12025 IBA with 300kHz, 0400 in EE, 5/12, fair lvl with news. (Glenn Hauser)
JAPAN 7205 NHK new freq for 0900-0945 KK transmission, nice, in dual with 7140, and 6030; 5955 not on, so perhaps 7205 replaces. This on 5/11. (Bob Hill)
KOREA (N) 9340 Radio Pyongyang logged 0958 in SS, IS, an ID, and into EE prgm. (Jack Jones)
KOREA (S) 15335 R. Korea, Seoul, a new freq, replacing 11925 for 0200-0230 KK; 0230-0300 SS, and possibly others. At 0230 SS ID and details for Latin America mission. (Bob Hill)
LESABON 9675 RL noted on this new freq at 0230 with EE news, Music Box, to NA. (Bob Zilmer)
MOROCCO 5960 2328-2400 with AA chants, v'y strong lvl. Wiped out by GBC at 2400. Parallels 6190 till 2400. My buddy, Al Miller, informs me that BECIS says this is a VOA transmitter in Tangier, which Morocco is using; BECIS is most reliable; this may answer some questions in last FRENIX. (John Moritz, Jr.)
MOZAMBIQUE 6115 L. Marques with "A" prgm around 1415 in FF, some kind of sporting event... 9618.5 RCH, L. Marques, with "A" prgm around 1620 with FF anncts by man and woman, pop vocals, at poor to fair lvl. WREN says 1400 S/off, but Ginbey says 1700* in UADX. (Bob Hill, credit for both items)
NEW ZEALAND 15110 NZBC, 0315, with EE quiz prgm and music, though not strong lvl. (Bob Zilmer)
NORWAY R. Norway, 11860, 2200, with "Norway This Week", prgm, fair copy. (Bob Zilmer)

(continued)

PAKISTAN 17830 R. Pakistan at 0520 with subcontinental music, vly fluttery; at 0520, Urdu talk, an unusual opening. (Glenn Hauser)

PAPUA/NG 2450 Radio Western Highlands, 1125 Country and Western music, poor lvl. (Jerry Lineback)...3385 Station in New Britain at 1110 Pidgin, music, good lvl, no strain copy, / Back) on recent check. (Jerry Lineback)

PARAGUAY 6025 Radio Nacional del Paraguay, Asuncion, from 0100, SS talk-0210 woman IDed for RNP, said music prgmg ending, tune in again. (Bob Hill)...Several recent checks, most recent 5/20, of 6025, show Radio Nacional del Paraguay, at much improved lvl, so good that 2n Nacional did not block out, with 0023 carrier on the air, from Lisboa. Just wondering, has the Paraguayan indeed increased power, as per tentative plans. (AL Niblack)

PERU (TEMT) 4995 Radio Andina from tuning 0310. Folk and ballad type music on 5/12th, several IDs which I missed due QRN, but not the Brazilian. (Hadley Cross)...5970 Radio El Sol observed S/on 1022 in SS, 5/14, Andean music, IDs. (Jack Jones)...Radio del Pacifico, 4975, news in EE read by an American woman announcer; at 0226 an ID, into instrumental music. Soon clobbered by that RTTY-type utility station...9505.5 Radio America, Lima, at 0959 with carrier, *1000 music and S/on anncet, including an ID; 1003 another ID. Plenty QRN abounding. (Credit both items to Bob Hill)

SWEDEN Am currently hearing RS in EE to NA on the following schedule: 1230-1300, 15310(H); 1400-1430, 15310(H); 2300-2330, 9605(H); 11705(H); 6035(K); 0230-0300, 9695(H), 11705(K). Heerby (H); Karlsborg (K) transmitters. These fogs are heard with poor to fair signals. (Bob Zilmer)...9605 RS can be well heard here at new time, new fog, though conditions vary; good on 5/15 in EE, //11705, 6035. (Glenn Hauser)

SOLOMON IS 5015 Honiara from 0832 with EE and/or Pidgin; seemed news. Heard till 0840, almost entirely under Vladivostok, making readability vly difficult. (Bob Hill)

TAIWAN 11825 Presumed the BCC station, noted in Mandarin talk, songs, 1310, as per schedule. (Glenn Hauser)...11905 (TEMT) BCC, Taipei, noted regularly at *1530-1615*; seems Chinese dialect till 1600, then into KK or similar. No ID discernible...15345 VoRC, Taipei, noted 0200-0350 in EE, perhaps replacing 11825, which could no way get through the Tahiti signal. IDs at 0255 and 0504. Parallels 15370, 15125, 11860 (good lvl), 5/6. (Credit both items to Bob Hill)

USSR 11735 Radio Kiev at 2201 IS, opening Ukrainian prgm. Wonder where this xtr is? (Glenn Hauser)...17745 KIRGIZ SSR R. Moscow late night transpolar opening, EE cntry in African / Hauser) Svc, 0525/0530, into PE. Legge says this Prunze in spring quarter, likely still is. (Glenn Hauser)

VICTORIAN VR 11700, 2115-2130 with EE religious news, fair lvl 5/10. (Bob Zilmer) / Hauser) **VIENTIANE V** 7245 5/10, 0915 plus, lotsa talk by men and women, some martial music. Does not appear that they are calling themselves, "Giai Phong", any longer. Just what? (Ed Shaw)...

9755.5 R. Saigon (or, R. Ho Chi Minh City) This fog never heard while the Thieu Govt. was in control, is active again. Noted 1045 with patriotic chorus, VV anncets by woman. (Bob Hill) **YEMEN ARAB REPUBLIC** 9585 R. Sanaa, 0308 chants in AA, but clobbered by sideband from Bonaire, 9590, at 0325. Ret QRN, weak, and fluttery. (Bob Hill) (TEMT ITEM)

U.S.A. CORRECTION The NBS has notified that the address for requests for the questionnaire in re conserving energy should be sent to the following QTH, instead of the original quote of mine in a previous FS: National Bureau of Standards, Time and Frequency Division, Boulder, Colorado 80302. Also stated, "....We have received many objections to the proposal to cut the power of WWVH...." I feel that this matter concerning energy conservation at WWV/WWVH, should be given attention, as it affects our SWL hobby. (Arnold Lausovich)

UNIDENTIFIED AFGHANISTAN (or, **INDIA**) 1145-1200 EE, man describing parade or celebration, mentions of Angola (news blast), into Asian language 1200, no ID heard, 4/20. (Jerry Lineback) ...6190 from 1415, subcontinental chants, flute music, anncets in language. Vly weak, maybe Delhi, though not so scheduled as such in WWTN 1975. USSR another possibility. (Bob Hill)

GUINEA-BISSAU 9530 (TEMT) From 1532, exhortation in CC; 1537 brief march, then silence. Almost certainly the Red Army Station - the kind of speech is its trademark. (Bob Hill)

LAST MINUTE ITEMS BRUNEI 7215 Got to be a new transmitter for Radio Brunei for their EE news heard from 1310-1315 at explosive S-9 plus lvl. (Ed Shaw)

COLOMBIA (FLASH) Long QSL ltr from Dir. Gen. Carlos Barrera Martinez; station runs 5kW now but was on 2kW during first few weeks of operations. New on SW since 4/10. As to fog, they knew they were "off", which they blame on a test crystal. This was replaced 4/30, which was supposed to put them on 5990. QTH is, Apartado Aereo 2472, or Biificio Los Centauros, Oficina 1001. (Don Jensen)

APRIL 1975: SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY 5-5-75- 1-0, 2-0, 3-0, 4-0, 5-21, 6-0, 7-15, 8-17, 9-9, 10-13, 11-0, 12-0, 13-0, 14-0, 15-0, 16-0, 17-0, 18-0, 19-0, 20-0, 21-0, 22-0, 23-7, 24-8, 25-7, 26-7, 27-26, 28-19, 29-16, 30-20 MEAN-6.2

PREDICTED: MAY-12 JUN-11 JUL-10 AUG-9 SEP-8 OCT-7 (Grady Ferguson)

NEW EQUIPMENT Bill Sparks kindly sent along literature on the recently new AMECO P1P ALL Band PreAmp, 6 through 160 meters, continuous tuning, providing overall gain in excess of 20 DBs and providing a noise figure of 1.5 to 3.4 DBs, depending upon the band. Weak signal performance is improved, as well as image and spurious rejection figures. Priced at \$44.00 complete with power supply. See your Ameco dealer. (According to specs this one has better gain than my old Ameco PQL-P PreAmp, Editor)

ACKNOWLEDGMENT THANKS to all those who kept the DX news flowing and made this issue of the FS possible. Please keep reporting. Credits to: Jack Perolo, BRAZIL, via NU; Art Cushman, New Zealand, to BEC World Radio Club, via Glenn Hauser; Bob Zilmer, Wisc; Don Jensen, Wisc; Hadley Cross, Va; Jack Jones, Miss; Bob Hill, Calif; Glenn Hauser, Okla; Jerry Lineback, Ill; Ed Shaw, Calif; AL Niblack, Ind; Charles Brunner, Jr., Pa; Arnold Lausovich, Wisc; John Morris, Jr., Ohio; Grady Ferguson, So. Carolina; John Tuchscherer, Wisc. VY 73....., AL NIBLACK

Thirty-nine contributors to Log Report this month. There may have been a few more who may have reported to LR-B only, and those will not be mentioned since the credits for that section were not received in time to meet the publishing deadline.

Charles H. BRUNNER, Salford, PA (SPR4/Zenith T.O.)...Hadley D. CRESS, Harrisonburg, VA (R4C/SX190)...Bill DAVIS, Laguna Niguel, CA (Homebrew)... K. DUKE, Columbus, OH (R274D/R4B)...Kenneth A. EARHART, Allentown, PA (SX190) Michael EDELSON, Cedar Grove, NJ...Marlin A. FIELD, Hillsdale, MI (SX100) Ciro GUARDUCCI, Cassiar, B.C., Canada (SX190)...Robert HANNER, South Cauldfield, Victoria, Australia (Trio 9R59DE)...Glenn HAUSER, Enid, OK (HQ160) Daniel HERSH, Hollisople, PA (Sony TFM 8000W)...William HIGHAM, Youngstown, OH (DX160)...Bob HILL, Berkeley, CA (R390/R390A)...Jack R. JONES, Jackson, MS (DX150A)...Edward KUSALIK, Chatham, Ont., Canada (R388/HQ129X) Arnold LAUSEVICH, Milwaukee, WI (DX150B)...Roger LEGGIE, McLean, VA (Collins 51J)...Jerry A. LINEBACK, St. Joseph, IL (SPR4)...Mark LUCAS, Lancaster, OH (SPR4)...Pitt MCNEIL, Washington, DC (DX160)...R.A. MacLEOD, Erie, PA (Halcraft S-210)...Alan MAYER, Park Forest, IL (SPR4)...Albert A. MILLER, Youngstown, OH (HRO-500)...John J. MORITZ, Youngstown, OH (DX160) Tom OVERCAMP, Bladenburg, MD (SP600/BC221)...Bob PADULA, Surrey Hills, Victoria, Australia (Marconi CR100)...Neal PERDUE, Millington, TN (SW4A/2C)...Bill QUINN, Moira, NY (DX160)...Scott REEVES, Laurel, MD (SX190) Richard A. SCHWARTZ, Dover, DE (SX190/S-108)...Edward G. SHAW, San Diego, CA (SP600)...Dan SHINGLER, St. Clair Shores, MI (DX160)...Bill SPARKS, San Francisco, CA (R390A/R4B/HQ180A)...Kevin SZOT, Vacaville, CA (NC-183D) Larry TALBOT, Menomonee Falls, WI (SB-313)...Mark TEDONE, Holybrook, NY (Eico DX718)...John WALENTER, Franklin Park, IL (R4B)...Michael WILLIS, Hampton, Victoria, Australia (Trio 9R59DE)...Robert ZILMER, Milwaukee, WI (SPR4).

Gerry E. Wood, DX Editor for Radio RSA calls to our attention that during the broadcast season May through September, DXers are requested to submit reports on transmissions of the South African Broadcasting Corp. Listeners must correctly verify one transmission of either Radio RSA or SABC domestic transmissions in each of the SW bands in use during the contest period. i.e. 11 meters through 120 meters if all bands are used. The first 40-qualifiers will receive a book on DXing written by G. E. Wood, and all later qualifiers will receive a booklet on foreign language reception reporting.

The first annual Midwest DXers Rap and Bull Symposium sponsored by the Great Lakes and Grand River DX Associations will be held June 21, 1975. We'll deal with all facets of DX, scrutinize QSL's and discuss the future of GLDXA's "Newsmec". For more information, write Bill Whitacre, 2609 Devonshire, Lansing, MI 48910.

The LOUDENBOOMER REPORT - continued from inside front cover

Thank God, he was cured. He'd regained his senses.

As I was leaving, his grateful wife -- a pretty sharp wench, if I do say so -- winked and asked if she could do ANYTHING to repay me. No, I insisted, all in a day's work for ol' CL.

"One thing before you leave, Yankee stranger. What was the secret weapon used to cure honorable spouse?"

I laughed and handed it to her -- a copy of Ben Hankett's recent book.

"It was written by other authors, in large part, who were never paid," I laughed.

She shook her head.

"Well, that beats the devil out of me," she said.

NASWA ANTENNA/ACCESSORIES SURVEY - Part 2

The results of this survey will run in FRENEX for several months until all entries have been printed. Contributions are still solicited until further notice. Send to Neal A. Ferdue, NASWA Scoreboard Editor, 4937 S. Bilrae Circle, Millington, TN., 38053.

- Bob Hill, Cal. 100 ft inverted-V dipole at 50 ft ht, fed with 300 ohm twinlead to homebrew ant.tuner. Ameco PLF preselector, Heath Q-multiplier, Tape record.
- Ernie Behr, Ontario 8 ft wire on wall indoors!!! Wire is grounded to waterpipe for reception below 10 Mhz. NO pre-selector or any other accessories. Various other "standard" ant. setups have failed at Ernie's QTH. Ernie has heard 202 countries and verified 170 of them, mostly with this arrangement. AMAZING!!!
- Bryan Dorbert, Md. 40 ft singlewire S.E. to N.W. & 7 ft whip.
- W. Keith Russell, Ill. 50 ft singlewire at 15 ft ht, N.W. to S.E. 75 ft Window at 15 ft ht N.W. to S.E. (No, Keith, the Window- or even a dipole- will not show much directivity unless it's at least $\frac{1}{2}$ wavelength above ground. At 15 ft ht you might be better off end-feeding it and seeing which antenna is better on various bands).
- Andy Robins, Mich. Dipole cut for the 60 Meter band at 10 ft ht, N.E. to S.W. Folded-dipole cut for the 19 Meter-band at about 8 ft ht, W. to E.
- Richard Tutt, Cal. 100 ft singlewire, N. to S. and E. to W. in a horizontal right-angle configuration, at 27 ft ht 70 ft singlewire, at 27 ft ht, N.W. to S.E. 12 ft singlewire, at 27 ft ht, N.E. to S.W. semi-vertically.
- Marlin Field, Mich. 50 ft singlewire at 25 ft ht, W.N.W. to E.S.E. Gilfer A-20 preselector.
- Paul Jordan, Tx. 71 ft inverted-L, at 35 ft ht, E. to W. BC-453, Q-Fiver. (Don't ask me, kks, I don't know what those things are either.)
- Dan Shingler, Mich. 65 ft singlewire at 30 ft ht S.E. to N.W.
 22 " " " " " " " " " "
 16 " " " " " " " " " "

Right here might be a good place to mention that ye olde ed. is not a mindreader, and if you have oddball or military-surplus gear it would help me considerably if you could tell me what it is and what it does- rather than just giving me the letter/number designation of it. For instance, my LM-18 is a great help to me but when I told several of the veteran long-time top DXers in NASWA that I had one they said "Huh"? It happens to be a 115 volt AC version of the BC-221-series frequency-meter capable of reading received freqs down to less than $\frac{1}{2}$ Khz, but this illustrates the point that if you tell me that you have a ARN/BCF-441-2C and don't supply any further info, the chances are pretty good that I won't have any idea what you're talking about and won't be able to do any better than to just list it in this survey as you gave it to me. One last note: Please be advised that the new address as mentioned at the top of this page is a permanent change for this survey, Scoreboard, and all personal correspondence. The fact that the new QTH is on top of a mountain, that the ground-plane is loaded with iron-ore, that neighbors are few and far-between, and that my new home is the only residence on that power-transformer had absolutely nothing to do with my decision to move there- HI!

73 from

NASWA

Publishing **FRENDX** Monthly

Unity and Friendship

NASWA'S dues are \$12 per year for members in North America, and for delivery via First Class Mail. Overseas dues are the same, but airmail is available for an additional fee. The following is the additional fee for overseas airmail: Central America and the Caribbean \$5; South America and Europe \$6; Asia and the Pacific \$7.

NASWA'S FLASHSHEET is compiled twice a month giving the DXer the very latest DX news while it is hot. The FLASHSHEET is edited by veteran DXer Al Niblack. All reports for the FLASHSHEET go directly to Al at 420 Shelby Avenue, Vincennes, Ind., 47591, USA. One issue of the FLASHSHEET is incorporated in each issue of FRENEX, the other issue, the Mid-Month FLASHSHEET is available in a separate mailing to NASWA members for \$2 per year in North America. It is airmailed overseas for \$4 per year. These fees are, of course, in addition to the annual membership dues.

All inquiries, checks/ money orders/ dues/ renewals and/ or orders for the Mid - Month FLASHSHEET Should be sent to NASWA Headquarters: P.O. Box 13, Liberty, Indiana 47353, USA. All remittances should be in U.S. funds. Sample FRENEX and FLASHSHEET are available for \$ 1.00.

Reports to the individual sections should go directly to the editors listed below:

- SHORTWAVE CENTER—*Jerry Lineback, P.O. Box 325, Ill. 61873*
- QSL REPORT — *Bob Zobot, P.O. Box, 62659, Virginia Beach VA 23462*
- SCOREBOARD — *Neil Perdue, 4937 S. Bilrae Circle, Millington TN., 38053*
- LOG REPORT (A) — *Bob Hill, 1626 Bonita Ave., Berkeley, CA., 94709*
- LOG REPORT (B) — *Larry Yamron, 510 N. Neville, Pittsburgh, PA., 15213*
- LOG REPORT (C) — *Jerry Lineback, P.O. Box 325 St. Joseph, IL., 61873*
- LISTENERS NOTEBOOK — *Glenn Hauser, 1312 West Oak, Enid, Oklahoma 73701*
- AWARDS CHAIRMAN — *Dan Henderson, 317 Brockridge Rd., Laurel MD., 20810*
- COUNTRY LIST CHAIRMAN — *Don Jensen, 5204 70th St., Kenosha, Wis., 53140*



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