

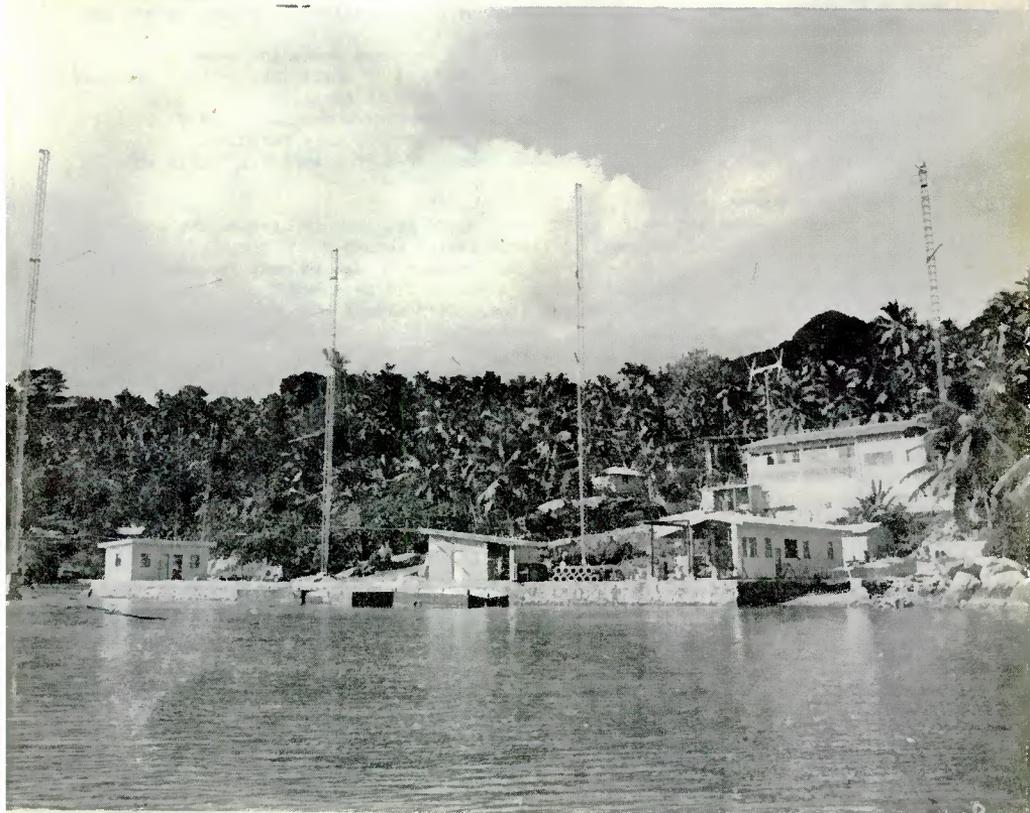
# FRENDS

The SHORT WAVE BROADCAST Journal - Since 1962

NORTH AMERICAN SHORTWAVE ASSOCIATION

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THE LOUDENBOOMER REPORT

My travels have recently taken me to Moscow where I had the honor of talking with Miss Evgenia Stepinover at Radio Moscow. Here's our discussion:

CL: It's a great pleasure to be able to visit with you Miss Stepinover.

MS: It is an honor for me also Mr. Loudenboomer. Our weather here in Moscow is very nice right now, don't you think so?

CL: Yes indeed. Now, what about this verification business? Why is it you only confirm sites for transmissions to North America?

MS: Radio Moscow does not confirm sites. Oh, if a report is of exceptional quality we sometimes include the site as an exception if the broadcast was to America.

CL: Well then, why is it that once in awhile someone reports a verie with a site for a non-NA broadcast?

MS: We have no knowledge here in the NA service of what goes on in the other services. But I suppose it could happen once in awhile.

CL: How's that?

MS: Well, usually around the first of May and in mid October. All those parties. All that vodka. Sometimes things get confused the next day.

CL: I see. Well, another thing that interests me. How do you manage to get all the announcers for all the services to sound so much alike?

MS: Well Charles, that's because they are the same ones.

CL: Evgenia, you mean to tell me this huge organization has only two announcers?

MS: Yes, that's correct. They are quite adept at the various languages we use and with tapes it is possible. In fact, routine.

CL: Amazing. But even those on Radio Peace and Progress sound the same.

MS: They are. They work for Peace and Progress too! I admit they do have problems getting across town to the other station in time once in awhile.

CL: Come on Genny! What about that door I saw downstairs that had "P-A-P" on it? Don't try to kid me that the studios aren't right here in this building.

MS: "P-A-P?" Oh, you mean our custodians room! "P-A-P" stands for "Pails and Polishers."

CL: Can I get a look in there?

MS: Sorry comrade. Restricted. By the way, would you like to have me ask Adamov to get us some sandwiches and tea? A little caviar perhaps?

CL: Sounds great Gin. Now tell me, why do you have to use so many frequencies in your broadcasts to North America? Wouldn't one or two be enough?

MS: I'm afraid not Chuck. Jamming you know. It's always a problem.

CL: Jamming? We don't jam anybody's broadcasts!

MS: Oh I know that Chuck. The problem is, er, a little closer to home, if you know what I mean. We have a little trouble now and then. So we have to use the extras.

CL: You said earlier you will occasionally confirm, with sites, on your QSLs for non-North American broadcasts, right?

MS: Radio Moscow does not have any information about which sites are used or when they are used. Thus, we cannot include sites on cards any longer, unless of course you report in the language of the program you heard, to the proper department. Or, unless the report reaches us around May 1.

CL: You don't say! How about outlets like Dushambe and the like?

MS: QSLs are available only from those stations which operate a foreign service. Radio Moscow has no knowledge or information about their schedules and frequencies.

CL: I'm afraid you have me a little confused Genny. I don't think I understand exactly what the policy is. Could we go over the whole thing one more time?

MS: Chuck, it's getting late. My working day is nearly over and I still have 20 letters to write. Perhaps later.

CL: Later?

MS: Charles, didn't I understand you to say we would be going to the Bolshoi tonight followed by dinner?

CL: Oh that's right. I'll just stroll around til you're finished. Then we can leave. Incidentally, can you do anything with this report of mine on Tula?

MS: Radio Moscow does not....



# HEADQUARTERS CALLING

A number of things have been delayed over the past few months, for one reason or another. We'll see how much catching up we can do on some of them.

First, on special publications... We currently have the survey of 1605-4000 kHz available for US\$1.50.

A brand new 60 meter survey has just been completed, and is available for just a SASE with 24 cents postage on it. (Please make sure you send a long envelope!) The new survey runs 15 pages, is printed on only one side, with plenty of space for noting changes.

Still available is the NASWA QSL signers list, which gives the names of station personnel who have signed QSL cards or letters in the past year and a half. The list is in booklet form, 20 pages, and covers over 230 stations around the world. Cost is US\$1.00.

The complete LOUDENBOOMER series is now being typed and will be available sometime this fall. CL first began enlightening the hobby back in 1966. Certainly he is as popular as ever, and is still going strong. If you've not got the complete series, don't miss this when it is announced.

NEW MEMBERS are requested to wait a while longer on the new member packet. Some of the items in the packet are out of stock and are being redesigned. The work should be finished in a few weeks.

Those who have requested copies of the NASWA country list are advised that the latest edition of the list is being typed and will soon be available.

Membership dues remain at US\$10 per year, with airmail rates available on request. All membership fees, as well as orders for the above mentioned special publications should be sent to  
NASWA  
P.O. Box 8452  
S.Charleston, W.Va. 25303  
U. S. A.

SHACK CLEAN OUT The following items are available from Gerry Dexter:

- \*Tape of LA National Anthems. Not best quality due to apparent tape slippage when recorded, but useable..\$5
- \*WRTH Broadcast ID tape, 60+ cuts \$4
- \*WRTH Broadcast ID tape, LA \$3
- \*Vol 1&2 of LP record "For Shortwave Listener's", Interval sigs, s/ons, s/off's, pgm excerpts.....\$3 each
- \*LP record "History of Offshore Radio", pirate bsters, RNI, others \$3 each
- \*3 inch reels of recording tape. Some used, some not. Excellent for taped reports to stns or preserving your DX. 50 cents per reel, 10 for \$4

Will accept cash, check, money order, IRCs, or stamps. Write Gerry Dexter, Rt..1, Maple Road, Lake Geneva, Wis. 53147 USA.

FOR SALE Allied SX-190 with 13 crystals, matching speaker. For info & details write Ed Insinger, 24 Madison Ave, Summit, NJ 07901

WITH ANOTHER DX SEASON beginning, it seems an appropriate time to carry a reminder in the bulletin that the idea of list logging just doesn't belong in the DX hobby. Too often DX editors receive loggings which just do not fit in with the known facts about current operating conditions. Such loggings usually are the result of too heavy reliance on some list of stations (e.g., WRTH, or the BAND SURVEYS which we and others publish from time to time), and these lists will almost always have a few items which are no longer accurate, since stations, for some reason, have a tendency to change schedules and/or frequencies without notifying the DX clubs!! So be sure you have some reason for believing a station to be the one you report, before even reporting it as "tentative". And be sure you know exactly who you hear before reporting it as "definite". Watch future issues for hints on proper use of "lists".

# MAIL CALL!

Deadline: 20th of the Month

Edward C. Shaw  
621 Burleigh Avenue  
Norfolk, Virginia 23505

LETTERS TO THE CORRESPONDING SECRETARY

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## UNITY AND FRIENDSHIP

William P. Eddings died August 23, 1972. Most of our club membership knew him only as the Executive Secretary. He was much more than that, though. Bill's inspiring leadership guided the fledgling new club NASWA from its beginning in 1962 and watched it grow and prosper into the first class organization we have today. For ten years, Bill Eddings, nearly single-handedly presided over and published NASWA's monthly bulletin. His personal, humanitarian approach was one of the bright assets that permitted NASWA to shine with that luster not found elsewhere. He believed in our motto. It is my earnest desire to serve NASWA in the same manner, and try to promote Unity and Friendship.

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Question: Dear Ed; My Radio Shack dealer advised me to leave my DX-150 in stand-by position when it is not in use, and therefore it would not need calibrating as much. What is he talking about?

Answer: That's a good piece of advice - moreso for vacuum tube receivers than for solid state devices, though. Your dealer is referring to the off and on surges of electricity and heat that affect tubes and the performance of receivers. If the receiver is left in standby, the high circuit voltage is cut off, but the lower filament voltage is left on, thereby eliminating the off/on surges. Solid state equipment may benefit from this, and vacuum tubes certainly will. The heat from tubes will keep the interior of your receiver dry and less likely to have corrosion. A solid state device used in a humid environment might benefit from silica-gel sacs, as you suggest, since there is insufficient heat generated to accomplish this. I do recommend leaving your receiver in standby. The electricity costs amount to only a few pennies a day. By the way, your receiver should not need alignment as often as a tube receiver, especially in the short space of only one year.

Question: Dear Uncle Ed; Can you tell me just how large our club is? I've heard we have over 500 people.

Answer: There isn't such a mystical answer to this as many would like to believe. Actually, we can't really give you a fixed answer that would be accurate from one day to the next. To be sure, NASWA is over 500 in membership and is probably 600. Our actual mail out, including samples, has at times been nearer 700 - occasionally over. As any club secretary or bulletin publisher will tell you, membership applications are received daily. While the summer season is more slack than winter, a typical month may see perhaps 20 expirations, but 30 new members, for a net gain of 10. We consider "reenlistees" simply as continued members, and these are not counted.

Question: Dear Ed; What is your guess as to a good percentage return on reception reports to Latin American regional stations? I get about 50%. Buena o mala?

Answer: Well, if one has the ability to use Spanish as you seem to, his percentages will naturally be considerably higher. English is not as well understood in Latin America as other parts of the world, particularly by the station personnel in the lesser populated regions. Your percentages will be governed by which particular stations you reported to. All too often, a station will not understand what it is that you want - even with a Spanish report form - believe it or not. Another consideration is the actual utility of your report to the station. Did you really send them something useful, or was your letter basically a request for a souvenir card? Honestly, I believe you should be doing a little better than 50%. You will certainly do better by using Spanish if you aren't already. Mint stamps of the country concerned help. Language forms are available from Gregg Calkin at his QSL Report address for a SASE. Mint stamps are available from DX Stamp Service, 83 Roder Pkwy, Ontario, N.Y. 14519.

Question: Dear Uncle Ed; Do Latin American stations use a 24 hour clock, or do they have an equivalent for our "a.m." and "p.m." ? In other words, how do you report local times to Latin American stations?

Answer: Latins speak to each other the same way we do in our country. They say, "5 horas" (5 o'clock) for either 5 a.m. or 5 p.m. But likewise, the same as for ourselves, the meaning of "17:00 local time" would not be lost upon them. I have some QSLs from Latin countries expressed in their local time - using both ways. For instance, from YSS San Salvador, one letter refers to their schedule ... "desde las 11.00 hasta las 23.00 horas" (referring to their local time). Another letter from Argentina says.... "a las 7.00 y 10.45 de las noche"... and..." a las 5.30 de la tarde". Both of the latter times were references to evening or afternoon times. I recommend that you use the 24 hour clock system to avoid any confusion; however, be absolutely sure you indicate whether you mean G.M.T. (Hora Greenwich) or local (i.e., Hora local Venezuela).

Question: Dear Uncle Ed; I recently joined NASWA, and would like to know if any back issues of FRENDX are available?

Answer: Yes. A limited number of issues since March 1972 are still available and can be obtained from Headquarters in Charleston, W.Va. (See bulletin cover). Cost is \$1.00 per issue, or any three issues for \$2.50, postpaid. Publisher Dan Ferguson says payment can be either money or in small denomination postage stamps (i.e. 8¢). Also, although not available at the present, NASWA is toying with the idea of offering an index of material available from past issues of FRENDX which will enable one to order single reprints.

Question: Dear Ed; Last winter season while listening to Moscow and VOA I noted several instances of what seemed to be echos of the station heard. Do some of these broadcasts use more than one transmitter simultaneously for the same program on the same frequency? I figure that if one signal was a bit slower than the other, it would result in the echo sound I heard. What do you say?

Answer: Right you are! The delay is infinitesimal, but the human brain can detect it. I have noted several times VOA signing on two transmitters (say Tangier and Dixon) simultaneously, but the transcription tapes soon following were played back on separate recorders, one slightly slower than the other. The result was an ever-increasing disparity in synchronization. Of course, it was made up with a few silent seconds at the end of the program. The two transmissions heard were not intended for audiences in my locale, and it is unlikely the target areas heard the other station like I did. The echo could also be caused by the milliseconds delay of one transmitter's signal propagating completely around the globe and back to you again. For instance, if you heard VOA directly from Greenville, it's also possible for you to hear the same signal nearly simultaneously, but slightly delayed by its travel around the globe. It takes slightly longer for the signal to travel the greater distance, and results in a slightly resonant hollow sounding signal.

Thanks again to the many sending in questions each month. Unfortunately, we haven't the room to use every question submitted, and I must make the judgement as to which will be of widest general interest. Several persons have continued to send questions with no return postage, evidently assuming their questions will be used. I am sorry these persons will not receive an answer if their questions are not used. There are simply too many letters received to bear the expense of answering each one. Once again, if you desire an answer, include return postage. Your answer will be promptly forthcoming, and you may further benefit even more than you thought.

Sincerest 73 for the coming DX season,

Uncle Ed

*Uncle Ed*

Temporary Editor - Dan Ferguson. The new editor, Al Sizer, begins with the December issue. Until then, send all material for the SWC section should be sent to the HQ address: NASWA, P.O. Box 8452, So. Charleston, W.Va. 25303 USA.

## NASWA INTERVIEWS.....Mr. J. M. Frost, Editor-WRTH



Jens M. Frost  
WRTH Editor

I'm 52, and have been working on the WRTH since 1949. My main interest is DX-ing, even if the time no longer permits me to do active DX-ing myself. Besides this, other interests are astronomy, railways and climatology.

Q: First of all, Jens, NASWA would like to thank you for consenting to take part in this interview for us. Might you fill us in as to how you first became involved in the WRTH? Are you or have you been a DXer?

A: It was in 1947 when I bought a new receiver with excellent shortwave bands, and one evening I tried to find out what these bands contained. It was in those days with no jammers, so I first picked up ALL INDIA RADIO, and the domestic service of the AUSTRALIAN BROADCASTING COMMISSION, which had a loud and clear signal like a local station and carried "morning

programmes" when we went to bed. At this time my interests for the shortwave bands really started, and owing to a dispute with a newspaper about broadcasts in Danish from foreign stations I met Mr. Lund Johansen (the founder of WRTH) and got really involved in the work with the WRTH.

Q: I see. Tell me, how many people are in the employ of the WRTH, and how are they coordinated so that the final product, the WRTH, is promptly ready for the DXer, year in and year out?

A: The number of people employed and working on the WRTH is 2 plus an extra one in the months with peak load, here in Denmark. Furthermore throughout the year one person in Sweden, plus 5 other Swedish people in August and September. As you will understand it is often a problem to get all sections coordinated, so that the handbook can go to printing as early as possible, but after that time the printing and binding takes a rather long time, which I cannot do much about. However, we are struggling year after year to get the book to the DXers as early as possible, but if you find it goes too slow, I hope you now know why.

Q: Do you ever have trouble gathering data on various SWBCers? I'd imagine that some of the smaller domestic LA outlets might prove particularly troublesome.

A: Yes, the problem is the same nearly every year. It is a troublesome work to get the correct details from LA countries, and here we for a great deal have to rely on our cooperators and monitors in the various countries. As you know, the aim of the WRTH is to be correct, and if something is unclear or vague, this is simply left out. Only where we know the details are 100% all right, we publish them

Q: Could you explain why the Summer Supplement (WRTH) was discontinued? Purely for reasons of economics?

A: Simply because of the decreasing interest for it amongst DXers. When it started - as far as I remember it was in 1959 - it was meant as a service to the DXers, but

since now only every 12th DXer is interested in the summer supplement, you will certainly understand that there is no point at all to produce it.

Q: I understand. Could you tell me, Jens, what is the total circulation of the WRTH?

A: 30,000.

Q: Hmmm. And of that figure, do you have any idea as to how it is broken down? That is, how many are purchased as merely reference sources by libraries, etc., and how many are bought by actual dyed-in-the-wool SWLs and DXers? To put it but another way, just how many of us DXers are there? hi.

A: I'm afraid I cannot answer this question, since we don't know where the copies go sold through the booksellers.

Q: How much time goes into the preparation of the WRTH? Is it a year-round task, or just a seasonal type thing?

A: For myself and my secretary it is a year-round task, but when the new edition is prepared the total number of people involved comes to 9, as answered earlier.

Q: I imagine your postage costs must be phenomenal!

A: Yes, at least 5000 \$ in a year, and each time the postage rates are increased we are hit seriously, so do not grumble when the price for the WRTH is going up.

Q: Once all the information is gathered, what's the next step in compiling the WRTH?

A: The proofreading and make up, which is done in England in October and November, at which time I'm "lost" for the outside world, so do not expect a quick answer from me, if you write at that time.

Q: Jens, you also publish the handbook, "How to Listen to the World". Has this publication been as much success for your firm as the WRTH?

A: I would rather put it this way: The WRTH is purely a manual, whereas the HtL is more an instructive book.

Q: Do you solicit contributions for HtL?

A: Yes.

Q: I see. Tell me, do you foresee any upcoming major changes in WRTH or HtL, etc.?

A: I do not want to answer this question today. Just wait and see.

Q: What are your feelings concerning the future of international shortwave broadcasting? Some feel that the coming of satellite communications may render SWECing obsolete and inefficient...thus probably ending our hobby and your publication -hi-...what do you think?

A: Shortwave broadcasting will never become obsolete, because shortwaves penetrate every border regardless of political systems.

Q: Do you have any final comments for our members, Jens?

A: Yes, if your members will write me letting me know what they have of amended details not conforming to WRTH. I'm thinking about LA outlets (not the international stations, which change their schedules four times a year) or even new stations in Africa and/or Asia.

.....thank you, Mr. J. M. Frost, editor of the "DXers Bible", the WRTH. We in the hobby wish you and your firm continued success.

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And thank you, Ralph W. Perry, for continuing to support NASWA and FRENEX with fine articles and interviews such as this.

SHORTWAVE RADIO IN THE DOMINICAN REPUBLIC

by César Objío

The Dominican Republic is situated between 18° and 20° north latitude and 66° and 72° west longitude. It is about the size of New Hampshire and Vermont together, 18,816 square miles. The climate? Just like Miami, and two hours in a straight flight from this city, and perhaps more famous because of the long dictatorship we had to stand during 30 years. Here in Santo Domingo, a city founded in 1496, being the oldest settlement in the Western Hemisphere, you can see the oldest cathedral in the New World with Columbus' remains, Columbus House and other interesting spots in the colonial era. We have the highest mountain of the Caribbean Islands, Pico Duarte, 10,444 feet high and formerly known as Pico Trujillo; and the longest river: Yaque del Norte, even though we are the second largest of the Greater Antilles after Cuba.

The Dominican Republic occupies the eastern two-thirds of the island of Hispaniola (discovered by Columbus on December 5, 1492), lying between Cuba on the west and Puerto Rico on the east. The boundary between it and the Republic of Haiti, which occupies the western part of the island, is 241 miles long, running from north to south, a borderline settled after several treaties with France during colonial days, the Dominican side being represented by Spain. It has a coastline 979 miles long.

Chief products are sugar, cocoa, coffee and tobacco. Most of the sugar mills are government owned, due to the purchase by Trujillo during his regime. The biggest one is Central Romana which belongs to the Gulf and Western; two others belong to a private enterprise settled by Italian immigrants, now Dominican citizens. Main coffee industry is Industrias Banilejas, which produces ground coffee named "Santo Domingo", "Meca" and "Paliza". In the tobacco field are two competitive enterprises: Compañía Anónima Tabacalera (government owned) and E. León Jiménez, C. por A. (private industry), producing both different brands of cigarettes. In the mining field the Dominican Republic produces nickel, gold, copper, iron, salt, chalk, Bauxite, marble, amber (the latter in great quantities and sold in different shapes and colors in Santo Domingo streets to tourists). Alcoa Exploration Company works the bauxite mines and Falconbridge the nickel mines.

Main cities are Santo Domingo, capital of the country (617,402 inhabitants), Santiago (155,151), San Francisco de Macorís (43,941), San Pedro de Macorís (42,473) and Barahona (37,889) according to the 1970 population census.

Many are the stations listed as operating on short waves by the World Radio and Television Handbook 1972 in the Dominican Republic. But really that is not the case. Most of them are most of the time off the air. The reason is simple-operation expenses. Some other times: transmitter failure, or the high price of a part needed keeps them off the air for no apparent reason for a long time. Some time later they are reactivated for a few days and seem to be forgotten later. When a station is new the owner is so enthusiastic that he wishes to add short waves in order to be heard as far as possible. In other cases they are assigned a shortwave frequency as there is no medium wave frequency available when the location is Santo Domingo, close to it or in the eastern part of the country, with the dial so crowded that there is no place to add a new station. In the east a frequency has to be studied very well before granting it to avoid causing QRM to a Puerto Rico station. For instance, R. Sol 3265, R. Ocoa 3255, La Voz de la Romana 3355, R. Difusora Popular 4990, later R. Boyá, and La Voz del Papagayo 5030. All these stations have tried to operate on medium waves, as they are not heard on shortwaves, for business' sake.

Following is a list of stations in the Dominican Republic that are operating now, or have operated in the past on shortwaves. Many, as will be noted, will not be returning to shortwave operation.

(continued next page)

The 90 meter band is exclusively dedicated to in-the-country stations, the 60 meter band for stations in Santo Domingo. No station is permitted to operate on any higher frequency with the exception of Radio Television Dominicana on 9505 kHz as the government station.

- 3215 HIDB R. Libertad, Santiago. Usually operating with two shortwave fqys, 6080 KHz in the day, and this 90 meter frequency at night. They had to close the 49 meter outlet because of the 1966 telecomunicaciones law, and have kept operating sporadically on this frequency only. Operation time on 750 kHz is 1100-0300 GMT daily except Sundays. Director is the owner, Abraham Vanderhorst.
- 3255 HIMP R. Ocoa, San José de Ocoa. This is one of the stations assigned to short waves before they were able to obtain a medium wave frequency. The location is a small town on the mountains, closer to Bani, my home town, than to any other place, both in the same province. The first MW fqy used was 925 kHz, then 1340 where they are now operating with a power of 250 watts. I could only hear them with the help of a loop, as R. Centro, San Juan, (on the same frequency) is stronger (1 kw). No longer on shortwave and will never be back to this frequency. Operating from 1100 to 0500 or earlier. The owner and director is Felipe Isa, a local businessman.
- 3265 HIRM R. Sol, Higley. This station was also assigned a SW frequency as Higley is the easternmost town in the country and liable to cause QRM to Puerto Rican stations. Despite this they moved to 1240 kHz on their own and after more than one year in operation on this frequency were closed by Telecomunicaciones as an illegal station, still off. Won't be back on shortwave, probably on MW if permission granted. Owner is Rafael Pacheco Jabid. It operated from 1030-0400.
- 3285 HISS R. Televisión Dominicana, Santiago. This transmitter operated till about 1962, reactivated during the 1965 civil war for a short time, but no longer on the air, probably for good.
- 3315 HIAA R. Ritmos, Santiago. This station is very irregular on shortwave, but daily on 560 kHz from about 1130-0300. Hours of transmission in WRTH for this transmitter are 2000-0430, but it is inactive to this date. You can hear them now and then on shortwave if you are on the watch. Director and owner is Johannes W. Streese.
- 3355 HIBD La Voz de La Romana, La Romana. This was another station assigned only to S.W. as they are on the east. But they at last got a M.W. frequency after several years of hard fight, on 1540 kHz. They probably won't be heard again on S.W.
- 3365 HIRL R. Exitos, Santiago. Almost the same as R. Ritmos. This one operates on 1130 kHz from 11.00 to 05.00 daily. Director is D. De la Rosa.
- 3375 HIAD R. San Juan, San Juan. (I remember this frequency very well, as this was the first one used by R. Bani on the immigration on 1951, and first time I became interested in radio and S.W., now only on 1310 kHz.) Irregular as R. Ritmos and R. Exitos. This one usually operates on 1440 kHz. from 12.00 to 03.00. Off the air right now.
- 3385 HIDA R. Hit Musical, Santiago. (On 1590 from 11.00 to 04.00). Same as R. Ritmos and R. Exitos (irregular). Director is M. Jorge.
- 3395 HIAZ R. Santiago. Drifting from here to about 3405 kHz and sometimes heard during the baseball season relaying R. Clarín (860-Santo Domingo), irregular. Felipe Moscoso is the owner.

Most of these stations won't QSL easily. The best recommendation is to send a report in Spanish even if you use a report form. Don't use GMT but the station

local time; you can hear their time calls as they frequently mention it during the evening programmes. If you don't understand Spanish try to calculate it through the WRTH. Don't send IRCs but Dominican mint stamps; one 10 cents stamp is good for airmail to the U.S., 33 cents for Europe. As all of these stations are not in Santo Domingo it is difficult for me to have a talk with the directors and convince them to do that.

On the 60 meter band are the following stations - all of them in Santo Domingo:

- 4750 HIFE R. HIFE. This is a new station which has already been heard in the U.S. on some test programmes, operating with a low power transmitter. It has been off the air for about one year, but will soon be back on. The studios have been moved to Avenida Primera #15, Ensanche Ozama, where it will be more comfortably housed. The antenna is already erected 140 feet high and it will be heard again soon with 1 kW, of power some 10 hours a day, from 11.00 to 13.00 in the morning and from about 22.00 to 05.00 in the evening with educational, cultural and religious programmes. No commercial ads will be announced. They are also planning an F.M. transmitter to operate on 93.5 MHz with a power of 3 kW. The owner is José Antonio Morel and he says he will verify all correct reports received. No name has yet been chosen for the station.
- 4775 HIAS Onda Musical. Even though announced to operate on 4795 they are usually heard on this frequency. The director, Mario Báez Asunción, is a very good friend of mine and will willingly QSL any report if received; perhaps too much work will prevent it. Address is Calle Palo Hincado 48. Operation time is from 10.30 to 04.30. Even though he doesn't ask for it, you should enclose Dominican mint stamps with your report for a quick reply. This one is one of the most steady stations on S.W. in Santo Domingo even though usually drifts.
- 4825 HIFA La Voz de las Fuerzas Armadas. As you probably read my recent article about this station there is not much to add about it. They QSL easily with reports addressed to Apartado 1350, Santo Domingo. Right now they are silent on this frequency, but heard daily on 107.1 MHz F.M. in Santo Domingo and on their Moca relay on 1330. Their excuse for not operating here is that a building is being erected for the station on the outskirts of the city as they are usually operating from military buildings. This station was created as a sequel of the civil war when the army did not have a voice on the air, and R. Universal (950) transmitters had to be seized in order to broadcast their side on the fight. At the end they operated for a short time on 1440 kHz. Some years elapsed and they later asked for a frequency and a space had to be made in order to accommodate them on the M.W. dial on 1600 kHz.
- 4880 HIJP R. Comercial. Another steady station on their frequency despite their being heard around 4882 most of the time. This was the leading station on the rebel side on the 1965 civil war. Formerly in the business and colonial area of the city moved to outside, close not to the baseball park. A very good friend of mine, Luis Cambero Gil, speaker at the station, took over the task of replying reports with verification letters. It is a pity that he is no longer working there but the actual director will answer. It is almost useless to mention the name of the director as most of them are easily changed in Santo Domingo stations with a few exceptions. Just address your letter to the director at Apartado 1322. Their operation time has been extended after 0500 as it is the usual trend in Santo Domingo stations in their competitions to be the first stations in the listener's preference. Also willing to increase power to 50 kw in MW as it has already been granted to R. Clarín-860 (this station is also willing to operate a shortwave transmitter). Their strong FM signal on 95.1 MHz studio-transmitter link is only heard in Santo Domingo.

4910 HLN R. HLN. Irregularly heard here. Right now inactive, heard always on 1220 MW. One of the oldest stations in Santo Domingo, formerly on the 49 meter band, then on the 90 meter band. The owner interest is centered mainly on the MW and especially on TV channel 7. One of the few stations with a building and sign outside for anybody to know the place. Located in the Independencia Avenue, Centro de los Héroes neighborhood, formerly known as Ferie de la Paz, because of the world fair celebrated on the area by former dictator Trujillo in 1955. QSLs can be obtained with a report to Apartado 1220. Pedro Pablo Bonilla is the director and owner. Operation time is from 1030 to 0600. Also with an FM studio-transmitter link heard weakly on 91 mHz.



Radio HLN and RAHINTEL, Channel 7, building. 4910 and 1220 kHz. Santo Domingo, Dominican Republic.

4930 HIBE R. Mil. One of the new stations after Trujillo was killed. Started operation in 1962, now one of the most modern and most heard. Victor Jaar, Richard Wood and I had quite a time trying to convince them to change their frequency from 4940 kHz as there were three stations in the Caribbean area on the same frequency and none of the three were well heard; the other stations were R. Yaracuy, YVPA, San Felipe, Venezuela, and Radiodiffusion Haitienne, 4VM, Port-au-Prince, Haiti (not usually heard now). Only Radio Yaracuy is heard on the frequency right now. Radio Mil moved at last to 4930 kHz and all is well. They do verify and they even have a programme in order to say hello and thanks to listeners who send them reports. The programme is aired at 0400 every evening as "Ruta Internacional 11-80". Operation time is from 1000 to 0700. Director is Joaquín Jiménez Maxwell. Owner is Manuel María Pimentel. FM operation is on 103 mHz, as studio-transmitter link.

4962 HICN R. Antillas. A recent article on this station appeared in Frendx. Verifications are on the way.

5010 HIMS R. Cristal. Always here since almost the beginning of operation of this station, no change, only QRM from R. Boconó, Boconó, Venezuela, and Radio Eco, Iquitos, Perú. They moved the studios in about 1969 to a new place most comfortably located. This station is well heard for their news programmes about anything every 30 minutes; a release and "on the action" news at once with a mobile transmitter. This is the making of Nobel Alfonso who is no longer director. They can verify, just try Apartado 819, addressing your letter to the director who is now José Peláez. The owner is Elizardo Dickson. Recently this station went to 24 hour operation with a silent period Monday mornings 0500-0930. It also operates an FM studio-transmitter link on 96.5 mHz.

5030 HIBE La Voz del Papagayo, La Romana. This is an exception to the rule, being in the country, but still on 60 meters. Have used this frequency for over 20 years. They are trying to get a MW frequency, so can't say if they will keep this frequency after that. They are strongly QRMed by Radio Reloj Continente, Caracas, Venezuela, on this frequency.

6090 HISD R. Televisión Dominicana. This is one of the former Radio Caribe frequencies, which operated about 1960-61. Actually is off the air and is mainly because of lack of interest shown by the directors of this station appointed by the government, and partly because of the damage received during the 1965 civil war. There is no news at this station about whether or not this frequency will be reactivated. All private Dominican stations operating on this band were ordered to move to the 60 or 90 meter bands, leaving this only for government broadcasting in the Dominican Republic. Incidentally, the first Dominican station was one which operated in the 60 meter band. It was HIZ, Broadcasting Nacional, on 6112 kHz, now on 730 kHz only. Begun in 1926 and still owned by Frank Hatton.

9505 HISD R. Televisión Dominicana. This frequency was also unused due to the lack of interest by appointed directors. Some years ago it was used with the name "Radio Quisqueya Internacional", but only for a short time. It did not operate after the civil war because of damages suffered. The actual director thought it wise to reactivate it as Dominicans abroad were asking how to hear their country news on shortwave. Actual director is Ramón Font Bernard, and his interest extends to the installation of new MW relays in Monte Cristy and Pedernales, the north-westernmost and south-westernmost Dominican towns on the Dominican-Haitian border. Also, new TV channels for Puerto Plata and La Romana, both on channel 12, are planned.

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A BELIZEAN INTERLUDE

The lumbering Lockheed Electra had rapidly dropped from 15,000 to 2,000 feet and was now coming in low over the offshore cays on its final approach to Belize's Stanley Airport. The flight had been uneventful following the 7 a.m. departure from Mexico, except for stern warnings at the Tegucigalpa and San Pedro Sula stops that photographs of the airports were not permitted. Everywhere a Salvadorian informer: Now, however, the flight was nearing its end and from the right side of the aircraft one could discern the peninsula and on it, Belize City. To the north and south the coastline stretched unending, its brown wooded color contrasting with the greenish-blue of the Caribbean.

The turboprop soon touched down, none too easily, and taxied to a stop before the Belize airport, a small two-story white building, where, together with two other venturesome souls, I deplaned. Inside, passport formalities were rapidly completed and as I approached the Baggage Claim to be told the luggage had not yet been off-loaded, I could hear the Electra making its final run as it took off for Miami. "It's no big thing, man", I was told, "It'll probably return tomorrow!"

Undaunted and clutching my Drake SW4-A, which I had fortunately had the presence of mind to carry as hand luggage, I hailed the Fort George Hotel Taxi and headed off into Belize City. Within a few minutes of arriving I was comfortably settled in on a top floor room facing the Caribbean and the SW4-A was humming reassuringly, coupled with a 40' antenna of insulated wire thrown from the hotel window. I was ready to DX Central America.

It was 3 p.m. on July 10 and although I was not expecting too much at that time of day on the lower bands, I was pleasantly surprised to hear several stations on 60 meters beginning with Radio Juticalpa on 4780 kHz and ending with Radio Progreso on 4920 kHz. In between, La Voz Evangélica/4820, Radio Capital/4832 and Radio Lux/4890 boomed in. Static seemed to have not yet been invented in British Honduras and together with my coastal location, the signals were S9+. The 49



Radio Belize Studios - Albert Cattouse Bldg.

meter band was non the less active, with Zelaya/5950, Casino/5954, TGNA/5955, Occidente/5962, El Salvador/5980, Reloj/6006, Sotavento/6020, TIFC/6037, América/6050, Junco/6077, Hernandez de Cordoba/6100, Mérida/6105, Suyapa/6125 and TGWB/6180 all presenting good accounts of themselves. In addition, the special Radio Canada eclipse test was well-heard on 5970 kHz, the only audible non-Central American at that hour.

Belize City cannot be described as a bustling metropolis, but neither it is the end of the earth as Aldous Huxley suggested four decades ago. Since then considerable aid has flowed into B.H. and the Belizeans have done a fantastic amount of work, construction and development. This self-governing country is being programmed for early independence and has recently built a new capital city, Belmopan, some miles inland from Belize. The overall climate is sub-tropical and with a brisk prevailing wind from the Caribbean the weather remained both dry and pleasantly invigorating during my visit.

The next day, July 11, after a brief tour of the city, I headed for center town to visit Radio Belize. Some four months earlier, I had received a QSL for a two-year old reception of Radio Belize in Canada. I now wanted to thank the engineer and ask why Radio Belize had dropped this well-heard SWBC channel.

The studios, I soon found, are located on the second flight of the large Albert Cattouse Building in downtown Belize - a building which also houses the offices of Cable and Wireless Ltd. Engineer G. Sandiford, the radio engineer who has verified many DXers' reports, very graciously showed me their facilities and answered my questions, although I believe he was somewhat surprised to have had a foreign listener visit the station. The transmitters, he mentioned, were not in the Albert Cattouse building, but were located  $1\frac{1}{2}$  miles away on the Princess Margaret Drive. All programming originating in Radio Belize's studios is normally fed to the transmitters by land lines. In the case of an emergency, however, such as the occasional floods which inundate Belize during the



Thomas Greenwood  
Assistant Program Organizer

rainy season, a VHF standby transmitter link on 104 MHz is available.

The Engineer went on to explain that with the increased coverage that would be given by the three new medium-wave relays in Belmopan, the new capital (920 kHz), Punta Gorda, in the southern state of Toledo (930 kHz), and in Corozal in the north (940 kHz), the short-wave outlet was originally considered to no longer be needed and it was therefore closed down. The station in Belmopan is already in operation (and audible in Belize), while the stations in Punta Gorda



Engineer Sandiford at the controls



Radio Belize transmitter site - Princess Margaret Drive, Belize City

and Corozal are nearing completion. Punta Gorda, Engineer Sandiford said, should be on the air by December. Nevertheless, it was subsequently discovered, that by removing the SWBC channel, many regular listeners in neighboring countries would not receive Belizean programming nor would many marine craft which depended upon it for news and weather. The station therefore decided to re-institute the 3300 kHz channel (5 kw) and to expand its operation to all-day transmissions. I mentioned to the engineer that this move would also certainly please many DXers to which he expressed the hope that their listeners abroad would continue to write to the station.

Radio Belize's programming covers all aspects of the Belizean way of life. The station has nineteen newscasts a day, including five in Spanish. Home News programmes provide listeners with a more intimate picture of the Belizean scene. International events are related to British Honduras on a programme entitled "Today" (daily at 0230 GMT) on which your writer was interviewed. In addition to programmes in Spanish and English, Radio Belize transmits one programme partially in Carib and Maya, entitled "The New Belize" on Tuesdays at 8:05 pm (0205 GMT Wed.). Programming from the BBC, VOA and Radio Canada is picked up on the station's Eddystone received, edited and re-broadcast. Shortplays, country, western and pop music, school broadcasts and weekly review programmes round out Radio Belize's programming, together with weather reports received directly from Stanley airport by means of a UHF transmitter link.

Radio Belize attempts, in both English and Spanish programming, to project the image of a developing nation, a nation that wants peace with its neighbors and a nation which welcomes all those who wish to be its friends. As promised during my visit, Radio Belize has now returned to 300 kHz where it is well-'eard until

0500 GMT s/off. The station, which presents itself as "The Voice of the Emerging Central American Nation of Belize" is most interested in receiving letters from its listeners abroad and has promised to verify all correct reception reports. Address your reports to Mr. G. Sandiford, Radio Engineer, Radio Belize, Box 89, Belize, British Honduras. Tell him you read about it in FRENDX.

- G. A. Calkin

FREON BATH!!! Huh?

Sometime in the past 6-9 months one of the bulletins ran a short squib about a fellow that took to cleaning out his HQ-180A (I seem to recall) using a TV-type tuner cleaner. It fouled up the bandswitching like mad and the article pointed out that using such cleaners might not be a good idea. I can't find the item in question, but I have studied this problem and here are my thoughts.

Oddly enough, TV tuners are not as delicate as bandswitching assemblies in communications receivers. Aerosol sprays for TV tuners are manufactured by 4 prime companies in the USA, regardless of how many brand names you may see. However, all of the TV aerosol cleaners now contain trichloroethylene (some substitute a perchloroethylene-- and two have carbon-tet::) that can harm SW bandswitches. The only safe cleaner is one using Freon and here I personally recommend Miller-Stephenson MS-180 or MS-230. The former should be used (in moderation) if the bandswitch appears greasy, the latter if you think the bandswitch is dirty. The Freon used here is not simply Freon (flouorocarbon) propellant, but a Freon solvent and neither of these sprays has ever harmed a receiver in my lab. Both are expensive (about \$3.75 each a can), so maybe a sharing plan might be best because one good shot should last about 18-20 months in normal usage. Find a buddy and take a Freon bath!!

- Oliver P. Ferrell

GOVERNMENT LICENSED QSLs ??? In the "Shortwave Shorts" section of the July '72 S.W.C., there appeared an article by Larry Magne dealing with a recent court ruling concerning the reception of mail from "enemy countries". I got curious and wrote a letter of inquiry to Uncle Sam with some surprising results:

"...they (the regulations in question) do prohibit the unlicensed transfer of all property, including funds, to North Korea, North Viet Nam, and Cuba or their nationals respectively. Accordingly, you are prohibited from transferring any money, stamps, checks, etc., to any of the above-listed countries for any purpose (including QSL) without a license from this Office...

"...It may be helpful to you to know that the courts have consistently upheld the validity of the prohibitions against unlicensed remittances to the above-named areas."

Rhodesia is also on this "black list", but the People's Republic of China is now okay. The letter was signed by Stanley L. Sommerville, Acting Director, Foreign Assets Control, Dept. of the Treasury.

- Frank Alexander

A NOTE FROM G.A. Weston expresses a feeling which is quite common among various editors of club bulletins: "In your letter of 2nd September you express your disappointment over the comparatively small number of requests for the Peking external services reprint (incidentally, thank you for the reprint and yet it surprises me how often the DX fraternity seems to go wild with joy when someone obtains a fragment from it and then spurns the opportunity of having a reasonably up-to-date complete schedule for the cost of postage. I hope you have more success on another occasion."...Mr. Weston is Chief Monitor, Special Listening Section, BBC Monitoring Service....May we again point out the availability of the 60 meter band survey, for a (long) self addressed envelope with 24 cents postage? 16 pages: (DF)

PHENOMENON OF THE DARKNESS PATTERN - EXPLAINED

By Edward C. SHAW

This is the Seventh part in the series of configuration for determining sunrise and sunset times for any part of the world. Knowing these for both your location and the desired station will enable you to determine whether there is even the possibility it can be heard. This month we are providing example configurations for a listener in Brunswick, Maine who desires to listen to Radio Baghdad in Iraq. As in each series, the cardinal points to remember are:

1. Low frequency transmissions will only propagate between two points in darkness.
2. Exact GMT for any longitude on the globe may be easily figured by adding 4 minutes of time for each degree West of 0° Greenwich, or subtracting that amount of time for East of 0° Greenwich. This is the Sidereal Time difference.
3. The accompanying chart tells when sunrise and sunset will occur (within a few minutes) in local time for most latitudes. Nearly exact estimates may be interpolated for latitudes between those listed.

RECEPTION OF TRANSMISSIONS BELOW 7,000 MHz

Reception unlikely after...				LAT. °	Reception unlikely before...			
SUNRISE (Local Time) *					SUNSET (Local Time) *			
12/7	12/17	12/27	01/6/73		12/7	12/17	12/27	01/6/73
0845	0859	0904	0859	60	1457	1453	1458	1513
0829	0841	0846	0843	58	1513	1510	1516	1529
0815	0827	0832	0829	56	1527	1525	1530	1542
0803	0814	0819	0818	54	1539	1538	1543	1554
0753	0803	0808	0807	52	1549	1549	1554	1605
0744	0753	0758	0758	50	1559	1559	1604	1614
0724	0733	0738	0738	45	1619	1619	1624	1634
0703	0716	0720	0722	40	1635	1636	1641	1650
0654	0702	0707	0709	35	1648	1650	1655	1703
0643	0659	0654	0657	30	1700	1703	1708	1715
0622	0628	0633	0637	20	1721	1724	1729	1735
0604	0610	0615	0619	10	1738	1742	1747	1753
0548	0552	0557	0602	Equator-0	1755	1800	1805	1810
0531	0535	0539	0545	10	1812	1817	1822	1826
0512	0516	0521	0527	20	1830	1836	1841	1844
0451	0454	0459	0506	30	1851	1858	1903	1905
0430	0441	0446	0453	35	1904	1911	1916	1918
0424	0424	0431	0439	40	1918	1926	1931	1932
0407	0408	0413	0422	45	1935	1944	1949	1949
0346	0345	0350	0400	50	1957	2006	2011	2010

(\* ) Add Sidereal Time difference for longitudes West of Greenwich.  
Subtract . . . . . for longitudes East of Greenwich.

EXAMPLE CONFIGURATIONS for December 17th between: Brunswick, ME: 70° W 40° N and, Baghdad, Iraq: 45° E 33° N

- a. Brunswick: 70° W x 4 Mins equals 04 hrs 40 mins Sidereal Time difference,  
Added to : 40° N local sunrise (0716) equaling 1156 GMT  
 40° N local sunset (1636) equaling 2116 GMT
- b. Baghdad: 45° E x 4 Mins equals 06 hrs 00 mins Sidereal Time difference,  
Subtracted from: 33° N local sunrise (0701) equaling 0101 GMT  
 33° N local sunset (1651) equaling 1051 GMT

From the above, we can see that Baghdad will still be audible for nearly four hours after sunset in Brunswick since the sun won't rise in Baghdad until 0101 GMT. However, Baghdad is still bathed in sunlight during the dawn hour in Brunswick and reception will be nil at that time. During the Ramadan season, Arab stations will frequently be noted with extended hours of broadcast. Please consult the tables in August FRENDX for times during the Ramadan season which is late September and most of October.

# QSL Report

G. A. Calkin  
P.O. Box 1345  
Station "E"  
Ottawa, Ontario K1P 5R4  
CANADA

Deadline: 12th

## BACK IN CANADA!!!!

Just a reminder that your QSL Editor now has a new address as mentioned in the September QSL REPORT. The address, given above, should be used for all QSL reports from now on. Mail sent to my Mexico City address will probably not reach me.

## QSLs RECEIVED

Many excellent verifications have been received this month. Of particular interest are those rare QSLs from LAOS, BOLIVIA, MEXICO, NICARAGUA, LATVIA, plus two rare CLANDESTINES. In addition, Sender Freies Berlin has now been verified on shortwave!

ALBANIA: Radio Tirana, 7300, very small schedule after 3 months; surface mail. Sent second report; no QSL yet! (Fino)

ANGOLA: Radio Angola, 11875, schoolyard scene card with full data in 3 months seammil for 2 IRCs. (Johnson)

Radio Clube do Huambo, 3345, native drummer card w/veri statement in 6 languages, but no details. 2 months for 2 IRCs. (Behr)

Radio Clube de Moçamedes, 5015, personal letter in Portuguese, hand-written, thanking me for report and wishing to exchange correspondence. Reported in Port. w/2 IRCs; air reply in 5 weeks. (Padula)

ARGENTINA: Radio Belgrano, 6090, letter airmail in 2 weeks from V/S: Maximo Koelble, Gerente Técnico. (Dexter)

ASCENSION IS: BBC South Atlantic Reply, 9580 kHz, replied from London with a no data card (but giving site) in 57 days air, together with two program schedules. No IRCs. (Wiseberg)

AUSTRALIA: Radio Australia, Lyndhurst, 11710 kHz, card in 86 days seammil. No IRCs. (Self)

AUSTRIA: Austrian Army Radio, 6255 kHz, new white card with call signs and emblem in 1 month; no IRCs. (Behr) card in 10 weeks after follow-up (Dexter)

ORF, Vienna, full data card in 69 days seammil. No IRCs. (Dushane)

BANGLADESH: Radio Bangladesh, 11650, plain full data card in 2 months air; 3 IRCs. (Johnson) 17935, card in 2 months for 2 IRCs; still using Pakistani stamps (Conner) 11650, card in 7 wks; no IRCs (Behr) 16 days air from M. Habibullah, C.E.; 1 IRC. (Lym)

BELGIUM: ORU, Brussels, 9550, map card, sked and mailbag transcript; 16 days for no return postage (Lym) 2 weeks w/sked (N. Kolb), two cards for two reports, sked and transcript in 1½ months seammil; no IRCs (Fino) 73 days (Hafer)

BOLIVIA: Radio Riberalta, 4283, letter and pennant, airmail in one month from V/S: Francisco Florida, Dir-Gen and Francisco Robeles Guerber, Dir-Artístico. (Dexter) Radio Fides, CF72, La Paz, 4845, form letter with verie statement and data on station from the V/S: Director. 3 weeks for mint stamps and a small Virginia state pennant. Station also sent station pennant. (Lohe)

La Cruz del Sur, 4875, card in 1½ months for mint stamps and English report. Station also sent small pennant. (L. Marshall)

BRAZIL: Radio Aparecida, ZYE-236, 9635 kHz, black/blue/white card with full data in English in 8½ months airmail. V/S: Waldo Jose Fontanari, Gerente. Reported by tape w/ mint stamps. (Lobdell)

QSL - CARD		<b>FUNDAÇÃO NOSSA SENHORA APARECIDA</b> <b>RADIO APARECIDA</b> <b>ZYE - 236</b>
	9635 KHZ <small>31 M</small>	4985 KHZ <small>62 M</small>
12570 - APARECIDA - SÃO PAULO      BRASIL		
Dear Mr. CHRISTOPHER LOBDELL - U.S.A. This card verifies your reception of <b>RADIO APARECIDA, ZYE - 236, - BRASIL</b> on 31/12/71                      at 09:29 to 09:39 GMT Frequency: 9635 KHZ      Band: 31 m. (YOUR DETAILS ARE CORRECT! THANK YOU!)		
 Waldemiro José Fontanari GERENTE		

BRAZIL: Radio Brasil Central, 4995, card of Goiania and English/Portuguese veri letter including all QSL data; 6 weeks air for 2 IRCs. (Duba)

Radio Clube de Ribeirão Preto, 15415, letter QSL and station decal in 2 months for a Portuguese report and mint stamps (not used). V/S: Ticiano Mazzeto, Director Superintendente (Conner).

Radio Gazeta de Alagoas, 3315, personal letter and 11 postal cards in 3 wks on the 8th try!!! V/S: Edécio Lopes, Dir.-Artístico. SASE sent but not used. Reply by airmail. (Field) Very good OM (Ed.)

Radio Jornal do Comércio, Recife, 15145, personal letter and full data card from V/S: Artur Miranda who also promises pennants and p/cards. 2 weeks for mint stamps. SASE sent but not used. (Lym)

Radio Nacional, Brasilia, 15445, color card of bus terminal and TV Tower, giving date only. V/S: Walter M. Barbosa of the International Dept, who also sent large pennant and p/card. 5 IRCs sent; reply in 15 days. Letter from Luthero Toledo one week later, but no veri data. (Lym) 45 days for English report and mint Brazilian stamp; little or no data letter. (Henderson) beautiful p/card and pennant in 2 months from Barbosa. (Conner)

BRUNEI: Radio Brunei, Berakas, 4865, card and schedule in 3 weeks after f/up. (Dexter)

BULGARIA: Radio Sofia, 9700, Sofia University card in 93 days for no IRCs; all data; and a small blue pennant also received together with sked. (Mayer) 23 weeks w/sked (N. Kolb)

BURUNDI: La Voix de la Revolution, 6140, b/w antenna card in 10 weeks; complete and correct verification data with sked on reverse of QSL. 3 IRCs sent with an English rpt. (Estand)

CANADA: Radio Canada International, 15325, "Maison de Radio-Canada" card in 10 days w/all data (Sellers) 2 bilingual cards for 11945 and 9625 in 11 days; no IRCs (Fino) 5970, black/white/yellow ellipse survey map card; w/full data in 11 days air for rpt in English. No IRCs. (Lobdell) 11850, large multicolor card with several views of Canada in 10 days air (Fino)

CHU Time Signal, Ottawa, 7335, plain card w/all details in 7 days seamaill. (Hafer)

CHNX, Halifax, N.S., 6130, plain white card in 16 days for mint stamps; gives frequency only. (Mayer)

CFCX, Montreal, 6005, full data card except for time; 12 days air for mint stamps. (Wiseberg)

CFRX, Toronto, 6070, card of Toronto skyline from V/S: Clive Eastwood. 16 days for Canadian dime (Lym)

CANAL ZONE: NBA Time Signal, 17697, QSL letter from V/S: K. E. Bailey in 31 days; no return postage sent. (Norko)

CHINA (PEOPLE'S REPUBLIC OF): Radio Peking, card w/no details and sked in 3 weeks; magazines and opera records later (Hafer) form letter and p/card of Yanan in 3 weeks airmail for 9780 kHz. No IRCs. (Fino) full data in 22 days airmail (Wawroski)

➤ CLANDESTINE: Radio Free Russia, 6350 kHz, card with mobile transmitter site and NTS trident symbols; 9 weeks for 1 IRC. Reported to Postbus 902, Rotterdam; reply posted in Arnhem, Holland. (Behr)

➤ World Music Radio, 6225, new green card with full data, plus letter, in 6 weeks for 2 IRCs. Station operates with 60 watts from the Netherlands. Address: Steve R. Wainwright, 79 Rookery Lane, Rainford, St. Helens, Lancs., England. Logged while on recent visit to Europe. (Behr) Fantastic OM (Ed.)

# WMR



Date..... 2/7/72

Freq..... 6225 kHz

Time..... 0900-1055 GMT

Power..... 0.05 kW

# QSL

"World Music Radio" thanks you for your reception report which we are pleased to verify.

COLOMBIA: Radio Bucaramanga, 4845, personal letter and pennant in 1 month on 2nd try from V/S: Gustavo Sorzano J., Gerente. Reply by air for mint stamps. (Field)

Emisora Nueva Granada, 6160, Spanish letter on RCN stationary in 15 days air for mint stamps (not used). Reported in Spanish to V/S: Lucy Rodriguez C., Secretaria Gerencia (Sellers) 6160, short veri letter from Lucy Rodriguez C., in 19 days air for English report. (Lym) 10 days with no verie; returned for completion and received in 1 month total (Plum)

La Voz del Cinaruco, HJLZ, Arauca, 4867, personal letter in Spanish w/p/ card from V/S: Garrid Mufioz Tello, Gerente on CARACOL stationary. 3 weeks for mint stamps and a small Virginia pennant. (Lohe) letter and folder/rate card in 3 weeks by airmail after follow-up. (Dexter)

Radio Mira, Tumaco, 6015, long personal letter from the "Secretaria" for the Gerente; splendid pennant, and car stickers. Airmail in 4 weeks for 2 IRCs in answer to a Spanish report. (Padula)

COSTA RICA: Faro del Caribe, TIFC, 6037, card, schedule and a long personal letter from V/S: Sharon Saylor, Secretary of English Correspondence Dept., who advised that mine was the first report from Australia on this frequency. Air in 4 weeks; 4 IRCs. (Padula)

CZECHOSLOVAKIA: Radio Prague, yellow/brown post card QSLs for 7345 and 9630 kHz; 27 days air together with two issues of Czechoslovak Life. Also in 20 days for 11990 kHz followed shortly by sked. (Fino)



PRIMERA CADENA RADIAL COLOMBIANA, S. A.

la voz del cinaruco

Arauca, Abril 13 de 1972

Mister

ERNEST G. LOHE

2605 WAGON DRIVE

ALEXANDRIA, Va 22303

ESTADOS UNIDOS

Apreciado amigo:

Muy estimado por nosotros fué recibir su reportaje de recepción.-

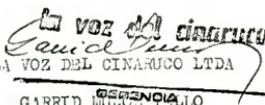
Transmitimos con un equipo de propia fabricación de 1 KW de Potencia - con dos tubos 833, modulados en placa por dos 833.-

Estamos probando una antena de cuatro elementos para nuestra frecuencia de 4.865 Kcs.-

Certificamos la veracidad de nuestra transmisión a la hora señalada por usted.-

Próximamente estaremos transmitiendo toda la noche, para asegurar mejores reportajes de personas tan gentiles como usted y acercarnos más a su maravilloso pais.-

Cordialmente,

  
 LA VOZ DEL CINARUCO LTDA  
 GARRIDO MURILLO  
 Gerente

transmite desde arauca, para arauca, colombia y venezuela

DOMINICAN REPUBLIC: Radio-Television Dominicana, Santo Domingo, 9505 kHz, letter in Spanish with thanks and info sheet, also pennant and used stamps in 3 months seamail. V/S: R. A. Font Bernard, Secretario. Mint stamps sent w/rpt. (Lobdell) 19 days air: for English report and 1 IRC (Noroko)

ECUADOR: Radio Paz y Bien, Ambato, 4820, personal letter from Padre Jorge Enriquez S., Director, 4 weeks airmail after f/up. Advised that my original report had been answered some weeks earlier, but never received here. Quoted from original reply, which contained a specific verie statement. For Spanish report and mint stamps. 4 months total (Padula)

HCJB, 15115, color p/card of Galapagos cactus; full data from V/S: Roger Stubbe; together with sked. Air in 27 days; no IRCs (Pino)

EGYPT (ARAB REPUBLIC OF): Cairo, 9475, Egyptian art repro card, with full data, plus personal typewritten letter and sked in 3 weeks airmail. No IRCs sent (Pino) 28 days for 2 IRCs. Pic p/card QSL (Noroko) Karnak temple card in 98 days air (Hafer)

EL SALVADOR: Radio Nacional, 5980, card in 1 month for mint stamps and Spanish report (L. Marshall)

ENGLAND: BBC, 7325, Thames card showing Parliament buildings; air in 25 days (Pino)

ETHIOPIA: ETLF, Addis Ababa, light blue card w/sked in 82 days air for no IRCs.

(Hunt) 9750, blue RVOG card in 11 weeks for 3 IRCs (Johnson) 15400, 81 days w/sked. (Mayer) 9 weeks for 2 IRCs (Perdue)

FRENCH GUIANA: O.R.T.F., Cayenne, form letter with verie statement for 3385 kHz, but no details; also card with Guyane coat-of-arms; but not a QSL. 5 weeks for 1 IRC (Behr)

FRANCE: O.R.T.F., Paris, orange p/card with several views of broadcasting studios, antenna etc. Full data plus sked; air in 2 weeks (Pino) How many DXers realize that the photo inserts on ORTF's QSL spell "QSL" in Morse Code??? (Ed.)

GABON: La Voix de la Rénovation, Libreville, 3300, OCORA map card, with station site given, air in 4 weeks for 1 IRC and English rpt (Padula) 4777, map card in 1 month for English report and 2 IRCs. (Rodman)

G.F.R. Radio Bremen, 6190 kHz, orange card showing tower in 1 month for mint stamps; also plastic pennant. (Behr)

Sender Freies Berlin, 6190 kHz, via Bremen xmtr, blue-white card with radio tower in 6 weeks; no IRCs. (Behr)

Radio Liberty, 3990 kHz, dark blue card with full data for Lampertheim site; 9 days no IRCs. (Behr)

Radio Free Europe, 7115 kHz, blue-white card with full data for Biblis site; 1 month; no IRCs. (Behr) 9595, 45 days from NYC address for mint stamp (Plum)

G.D.R. Radio Berlin International, 11820 kHz, tower card with all details in 58 days airmail. No IRCs sent. (Hafer) 9650 kHz, flag/Rathaus card in 2 months (Harrington)

GHANA: Radio Ghana, form letter stating report is useful and will be checked; 59 days; no IRCs. (Hafer) 11850, red/green/gold bordered card in 39 days for registered air rpt and 2 IRCs (Hunt)

GREECE: NHBI, 15345, white card w/full data in 3 months seamail for 3 IRCs and English report. (Dubá)

GUATEMALA: Radio Cultural, TGNA, 5955, Quetzal card in 2 months air for 1 IRC. V/S: David Keeler, Eng. (Plum) TGNB, 9505, card, sked and letter in 2 months. Mint stamps sent w/English report. (Calkin)

La Voz de Nahuala, 3360, card with all details; air in 8 weeks for Spanish rpt and 2 IRCs. (Padula) flame on mountains card in 11½ months, 2½ months after f/up w/mint stamps and 50 centavo note. Full data and accompanied by a personal letter from V/S: Antonio Ixmata Hernandez, Locutor Encargado de Reportes Internacionales. (Calkin)

GUYANA: Radio Demerara, 3265 kHz, card in 16 days airmail for 1 IRC. (Noroko)

Action Radio, 3290 kHz, duplicated letter with data filled in; 3 wks air for 2 IRCs. While not rare, is significant for Australia, as frequency is usually destroyed by strong external mixing products of local MW/BCB stations. (Padula)

HAITI: 4VEH, Cap Haitien, 11835, folder card w/all details and ball point pen. 80 days; no IRCs. (Hafer) 68 days air for 3 IRCs. (Wiseberg) 60 days for 2 IRCs; V/S: Mrs. Linda Ragsdale, who says she is also from Fenton, Michigan. Small world (Dushane) 11835, folder card w/photo of Vertiers Memorial and letter month souvenir pen; 77 days for 2 IRCs (Peters)

HAWAII: WVVH, 15000, brown card with native and outline of Kauai. Full data in 7 days by airmail; no return postage. (Wawroski)

HONDURAS: Radio Juticalpa, 4780, long personal letter from V/S: Victor Rubi Zapata, Gerente-Proprietario, who also provided details on station and its facilities. Air in 5 weeks, for Spanish report. (Padula)

HUNGARY: Radio Budapest, 9833, full data card in 2 months air for no IRCs; also details on station and pennant, sked and letter (Wiseberg) yellow p/card, sked and "Budapest International". (Fino)

INDONESIA (Celebes): RRI/Gorontalo, 4900, personal letter and sked in 6 weeks on 2nd try. V/S: Miss Marjulis Said. Reply by air (Field)

IRAQ: Radio Baghdad, 6188, colored map card, with all details, by air in 5 weeks (Padula) 15400, full data card except for time, in 1 month air for 2 IRCs (Wiseberg)

ISRAEL: Israel Broadcasting Authority, 9625, Jerusalem card w/all details and sked. 24 days (Hafer) 37 days air for 2 IRCs; w/sked (Wiseberg)

ITALY: RAI, 11810, card of antennas with map; 93 days for 2 IRCs. Pennant, sked and station booklet also received one month earlier. (Mayer) 11810, pink p/card airmail in 3 weeks; no IRCs. (Fino) 9575, map/antenna card in 42 days. No IRCs (Self)

JAPAN: NHK/Tokyo, 9505, "Bingata" card in 3 weeks airmail. Date and Frequency only given; received together with pennant and RJ News. (Sellers) 13 days air (Self) 11 days w/card showing pagoda and fireworks. (Hafer)

JORDAN: Hashemite Broadcasting Service, Amman, 15170, Jerusalem card with date, time and frequency; received in 16 days airmail for 2 IRCs. (Norko) 7155, attractive card of Aksa Mosque with full data in 3 1/2 weeks airmail. V/S: Director General. 2 IRCs sent w/English report. (Duba)

KOREA (REP): VOFK/Seoul, 9640, "Kyonghoeru" card, full data, w/book, booklets and p/cards. 18 days airmail for 2 IRCs. (Johnson)

KUWAIT: Radio Kuwait, 11825, full data folder card in 32 days air for 2 IRCs. V/S: Jawad Al Mazaedi. Also sent a programme schedule and small flag of Kuwait. (Wiseberg)

- LAOS: Radiodiffusion Nationale Lao, Vientiane, 6130 kHz, card in 3 weeks on 5th try; reply by air for SASE, which was used. Signer unreadable. (Field)

- LATVIAN S.S.R. Riga replied by card with all details for 5935 (recent SW outlet for Riga home service // MW) airmail in 8 weeks, plus letter in English from Swedish Dept, and Swedish and Latvian schedules. (Padula)

LESOTHO: Radio Lesotho, Maseru, 4800, card in 3 weeks airmail for 3 IRCs (L. Marshall)

LIBERIA: Voice of America relay, Monrovia, 15140 kHz, card with site and date; 19 days airmail for 1 IRC. V/S: W.E. Dulin. Card was 30th Anniversary antenna card (Wiseberg)

MALAGASY REPUBLIC: Radio Nederland, Talata, 15195, island map card in 44 days for no IRCs. (Norko) separate cards for 7285, 7295 for initial transmissions on these frequencies to SEAsia and Australia respectively; air in 10 days (Padula) 15260, card in 9 days air for 2 IRCs (Johnson)

MALAYSIA: BBC Tebrau, 11750 kHz, regular card with site only in 12 days; no IRCs. (Mayer)

MALI: Radio Mali, 17895, card, full data for English report and 3 IRCs. 2months air. (Lym)

MEXICO: Radio México, 11770, letter from V/S: Lic. Victoria E. Perez de Leon, plus questionnaire; airmail, registered, in 4 weeks for English report. No return postage sent (Padula)

YNHC

# RADIO HERNANDEZ DE CORDOBA

Ocotal, Nueva Segovia, Nic.  
TEL No. 46-1



Ocotal, 12 de Septiembre de 1972.-

Sr. G. A. Calkin.  
Melchor Ocampo 463-7  
México 5, D.F.

Muy señor mío:

En nuestro poder su atenta del 4 de los corrientes junto con su reportaje con cinco córdobas adjuntos, asimismo le comunicamos que su anterior reportaje lo recibimos y por múltiples ocupaciones no se la habíamos contestado pero ahora lo hacemos con gusto.

La Emisora que Ud. sintonizó el 18 de Junio de 1972 era la nuestra que se identifica: YNHC RADIO HERNANDEZ DE CORDOBA, que opera en la frecuencia de 6100 Kc, onda corta, en la banda de 49 metros y el programa que Ud. escuchó a las 1730 ese programa se llama: "MONSEÑOR HABLA A LOS CASADOS" programa que nuestro Director Intelectual Mons. Nicolás Antonio Madrigal corre todos los días de Lunes a Sabado a todos los casados, tambien es cierto el resto de su reportaje.

De nuestra capital Managua a esta ciudad hay 224 Kilómetros por carretera pavimentada, o sea, que Ud. se dilataría de Managua a Ocotal, 3 horas.

Quedamosle agradecidos por su reportaje y como un recuerdo de esta su Emisora amiga, le envío un banderín.

Con respeto y consideración me suscrito de Ud. muy Atto. y Seguro Servidor.

Reynaldo Zuniga.  
Gerente.

(One of the rarest Nicaraguan stations currently operating!)

- MEXICO: Radio Universidad de Chihuahua, XERUU, 6140 kHz, replied by personal letter in Spanish from V/S: Alfonso Varona T., Director. Reported in Spanish with SASE. Reply in 6½ months, 1 month after second f/up, also with SASE (not used). (Calkin)
- MOROCCO: Voice of America/Tangier, 15205, card in 26 days. V/S: Paulette Busi. No IRCs sent. (Mayer)

NETHERLANDS: Radio Nederland, Lopik, 11730, Madagascar card with full data in 9 days airmail. No return postage sent. (Johnson) Happy Station card for 21570 kHz in 3 wks for 25th Anniversary. (L. Marshall) 11 days by airmail (Wawroski) p/card QSL with view of station building; 3 weeks (Fino)

NETHERLANDS ANTILLES: Radio Nederland, Bonaire, 25th Anniversary card in 2 weeks for no IRCs. (Peters)

NEW GUINEA: Radio Madang, 3260 kHz, usual folder in 15 days for 1 IRC. V/S: Philip N. Charley. (S. Kamp)

NEW ZEALAND: Radio New Zealand, 17770, orange/blue globe card in 125 days for no return postage. V/S: H. Taylor-Smith; also received tourist info and sked seammil. (Mayer) 20 weeks for 17770 kHz. (N. Kolb)

- NICARAGUA: Radio Hernández de Córdoba, YNHC, Ocotal, Nueva Segovia, 6100 kHz, sent a personal letter in Spanish from V/S: Reynaldo Zúñiga, Gerente, in 3 months airmail, after original and two follow-ups, each w/SASE, and the last with a five Córdoba note. Full data including data on Ocotal, plus attractive blue/yellow station pennant. Valued. (Calkin) QSL appears on QSL-7. (Ed.)

Radiodifusora Nacional de Nicaragua, Managua, 11875 kHz, letter from V/S: Douglas Amaya, Director Artístico, plus pennant in 2 weeks air. Report registered. Third try for this one. (Lym) 45 days air for 2 IRCs. (Plum)

NIGERIA: NBC Calabar, 6145 kHz, aerogramme in 2 months on 2nd try from V/S: E. B. Ntekim, Officer-in-Charge. (Field)

NBC Maidiguri, 4900, card in 191 days for report to Lagos in English w/2 IRCs. IRCs were returned - said not needed. (Henderson)

NBC Enugu, green map card from Lagos for 6025 kHz; xmtr site specified. VON sked included; air in 18 weeks. (Padula)

Voice of Nigeria (VON), Lagos, 7275, white and green flag card w/skeed in 16 days air. No IRCs. (Lym) 15185, card in 78 days (Hunt) card in 124 days for Ikorudu site (Dushane) 7275, flag card in 1 month air w/sked (Sellers) 12 days air (Calkin)

NORWAY: Radio Norway, 15175, full data card in 12 days airmail; no IRCs sent. Also sent booklet on the Overseas Service with QSL. (Wiseberg)

PAKISTAN: Radio Pakistan, 9460, card from Rawalpindi in 9 months airmail. (Padula)

PAPUA: ABC, 4890, blue/yellow/white card in 3 weeks for 2 IRCs (Conner)

PERU: Radio Atlántida, Iquitos, 4785, letter from the Secretaria, quoting name of programme heard, plus nice pennant; air in 8 weeks for Spanish report. Station also sent selection of used Peruvian stamps. No return postage sent w/rpt. (Padula)

PHILIPPINES: FEBC, 11920, usual red FEBC card with full data in 94 days for 3 IRCs; also received sked and religious material. (Mayer)

Voice of America, Poro/Tinang, 30 years of broadcasting card in 19 days from V/S: Paulette Busi. (Dushane) 2 weeks w/skeds (Fino)

POLAND: Warsaw, 15120, 1st card in map series; 25 days air. Station states IRCs not required; all data on QSL. (Sellers) 27 days airmail (Hafer) 7270, full data card in 38 days air (Wiseberg) 9645/15120, card in 1 month airmail plus letter from V/S: Jan Wiersbinski, Editor-in-Chief (Ferguson)

PORTUGAL: Lisbon, 11840 kHz, large map Discovery card in 13 days airmail; no IRCs. (Fino)

RHODESIA: RBC sent "gazelle" card in 6 weeks for 1 IRC and report on 3396 kHz; reverse side has "Southern Rhodesia Broadcasting Corporation" label, w/"Southern" crossed out in pen - this in turn is all taped over logo mentioning "Nyasaland". (S. Kamp) 7 days for 3396, but frequency mistyped as 3306 on QSL. Air for 2 IRCs and English report. (Duba)

RUSSIAN S.F.S.R. Radio Peace and Progress, 11890 kHz, card in 3½ months. (Plum)

RUSSIAN S.F.S.R. Radio Moscow, 11900, green card in 19 days air; no IRCs (Fino) 15130 card plus pennant in 2 months airmail. (Johnson) card and personal letter on question I asked them; 47 days airmail (Hafer)

Radio Moscow, Armavir, 12020/12040, card from Latin American Sec.,

air. (Field)

Radio Moscow, Moscow, 15210, card in 6 weeks w/site. (L. Marshall)

Radio Moscow, Nikolaevsk on amur, 11980, card in 5 wks w/site. (L. Marshall) 11980, card in 9 weeks. No IRCs. (J. Kolb)

Radio Moscow, Petropavlovsk-Kamchatsky, 15130, card in 7 weeks w/

site (L. Marshall) 5 weeks for 15180 kHz. (L. Marshall) 15180, 9 weeks (J. Kolb)

Radio Moscow, Serpukhov, 12110, card in 6 weeks w/site. (Field)

Radio Moscow, Khabarovsk, 12050, card in 9 weeks. No IRCs. (J. Kolb)

Radio Moscow, Vladivostok, 15130, card in 9 weeks; no IRCs (J. Kolb)

RWANDA: Deutsche Welle relay, Kigali, 11965 kHz, blue and yellow African map card;

25 weeks w/sked of Olympic broadcasts. (N. Kolb)

SARAWAK: Radio Malaysia Sarawak, Kuching, 4895, card showing station building and confirming this rarely heard frequency. All details; by air in 6 weeks. 1 IRC (Padula)

SEYCHELLES: FEBA, 11955, card in 24 days w/full verification for 3 IRCs; V/S: Mary Berry. (Mayer)

SINGAPORE: Radio Singapore, 11940, plain card in 13 days air; 3 IRCs sent. (Johnson)

SOLOMON IS: SIBS, Henderson Field, 3995, card in 2½ months. (Dexter)

SOUTH AFRICA: Radio RSA, 9695, card w/full data, book, booklets, map, sked, p/cards, etc. for 2 IRCs sent. 23 days. (Johnson) 11970, card in 18 days airmail (Fino)

Springbok Radio, 11935, scenes of industry card w/full data and sked; 19 days air for one IRC. (Mayer) 16 days; no IRCs. (Reeves) 11935//11835, cards in 2 weeks for 2 IRCs. All details (Perdue) 6 weeks airmail (Guarducci)

SPAIN: Radio Nacional de España, card by seaman in 8 weeks. (Guarducci) 11925, card showing control room, together with schedule. 62 days airmail for no IRCs. (Hafer) Studio card w/pennant and sked in 17 days air. 2 IRCs. (Johnson) 6140, full data studio card w/language and meter bands typed in on sked; 8 weeks seaman; no IRCs. (Helms)

Radio Liberty, 15130, card in 10 days air; 1 IRC sent. (Field)

SRI LANKA (CEYLON): Sri Lanka B.C. (now officially called by new name according to QSL), 11800, card of women lace makers with all data in 2 months airmail for 1 IRC. (Duba) 9720, 8 months air for 2 IRCs (Lym) 17830, card air in 4 months (Lobdell) 5½ mos via 2nd class airmail for 2 IRCs (Perdue)

SWAZILAND: Swazi Radio, 3223, letter from V/S: Miss Barbara Christiansen after f/up, who advised that first report had never been received. Station also sent p/card and car stickers for a total of 4 IRCs sent in two reports. (Padula)

SWEDEN: Radio Sweden, 11805, "Northern Lights" card w/full data in 21 days air. (Johnson) 15310, card in 9 days airmail; no IRCs. (Norko) 15295, "Only One Earth" card for 15292 in 17 days (Lobdell) 35 days for 2 IRCs (Window) 7 days (Guarducci) 22 days (Fino)

RNE/NOBLEJAS XMTR SITE - VIEW

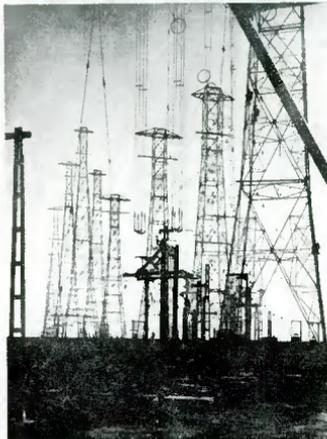
-OF CURTAIN AERIAL ARRAYS

(EBU Photo)

SWITZERLAND: Swiss Radio, 9535, card in 3 months; no IRCs. (Peters) b/w photo card of Zurich airport. 2 months for 6120 kHz. (Lobdell) 15305, airplane card w/full data in 35 days air. (Mayer) 3 weeks (Guarducci) 11715, antenna card air in 17 days w/programme schedule; all details for 3 IRCs (Window) 9535, b/w antenna card in 2 wks (Fino)

TAIWAN: VOFC, Taipei, 17720, card in 18 days for 2 IRCs and photo of me at the rig. Also received nice felt pennant from station, w/sked (Perdue)

TANZANIA: Radio Tanzania, 15435, brown-yellow card in 1 month after f/up. (Behr)



THAILAND: Thai TV Radio, 6010, personal letter in English from V/S: Raksak Vadhanapanieh, Director (new); air in 2 weeks on 2nd try. (Field)

Thai Educational Station, 6062, personal letter from V/S: M. L. Chintana Navawongs, Director, Division of Educational Information. Air in 2 weeks on 2nd try Mint stamps sent. (Field)

TCGO: Lomé, 5047, Globe card with full data for report in French w/3 IRCs. 1 month, 13 days seamaill. (Avery) 2½ months (Marks)

TUNISIA: Radiodiffusion-Télévision Tunisienne, 11900, beautiful post card verie w/ full data airmail in 25 days for 2 IRCs. (Norko) 6195, full data card in 2½ weeks for 2 IRCs and report in English. (L. Marshall)

TURKEY: Radio Ankara, 15195, native dancer card with full details, also sked and a booklet on Turkey received in 109 days for 1 IRC. V/S: Elizabeth Selamek. (Mayer)

UKRAINIAN S.S.R. "Radio Kiev", 11900, card in 20 days with full data. No IRCs sent. (Lobdell) 35 days airmail (Fino) 1 month w/sked (Bril) 22 days air (Johnson) 25 d., (Avery) 13 days airmail w/all details plus sked (Window) 11850, card w/full data; no IRCs (Megyesy) 38 days air, w/report forms, schedule and newsheet (Johnson) colored map card in 7 weeks w/sked (N. Kolb)

Radio Moscow, Ivan-Frankovsk, 9660, card from Moscow in 28 days w/ site (Patterson)

Radio Moscow, Kharkov, 11975, card 1 month after it was returned to RM for site addition. Also b/w photo of Moscow received. (Field)

Radio Moscow, Lvov, 11900, card in 2 months airmail (Plum) 2 mons., air w/full details and site (Sellers)

Radio Moscow, Vinnitsa, 5985, card w/data and site in 35 days. (L. Marshall) 11850, card in 1½ months air (Plum) 6 weeks with site for 11850 (L. Marshall)

U.S.A. KGEL, 15280, card w/sked in 9 weeks for mint stamps. (Linsenneyer) 11920, cd in 66 days surface mail. (Johnson) card, sked and pennant in 40 days for 25¢ (Stone) 15280, card in 13 days. Thanks to Ed Insinger for showing us his QSL:



NSS Time Signal, Annapolis, 5870 kHz, card surface mail in 112 days; full QSL data (Schultz)

WINB, Red Lion, Pa., 15340, plain card with full data in 3 wks. (Window) 36 d w/sked for 17720. 8-cent stamp sent. (Helms)

AFRTS, card in 1 week w/full data; 11805 kHz (Megyesy) 21500, via Bethany, cd in 5 days w/full data. (Norko)

WNYW, 9715, card in 15 days for 8-cent stamp. (Donnelly) 11805, 9 days (Norko)

UN Radio, 9530, card w/full data in 6 weeks; no IRCs. Via Greenville (Perdue) 6055, plain card in 37 days; also via Greenville and so stated. (Hafer)

WWV Time Signal, Ft. Collins, 15000, Indian card in 23 days (Hunt) 10 days on 10,000 kHz (Wawroski)

XECM

ONDA 145

XECMT

BANDA INTERNACIONAL

KILOMETRO 560 CARRETERA MEXICO - LAREDO

APARTADO POSTAL 79

TEL. 2-02-13

CIUDAD MANTE, TAMAULIPAS

Junio 29 de 1972

SR. GREGG A. CALKIN  
Río Balsas 35-702.,  
Colonia Cuauhtémoc  
México 5, D. F.

Muy estimado Sr. A. Calkin:

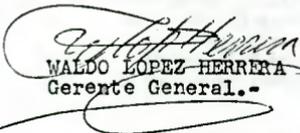
Estimamos mucho el reporte que nos envía de la buena recepción que ha tenido escuchando ésta Radiodifusora.

Las anotaciones que hace son correctas. Nosotros estamos enclavados en una pequeña región del Estado de Tamaulipas, la actividad de nuestra población se rige en el campo y en la producción de azúcar, es decir contamos con un Ingenio - Azucarero que es la vida de nuestra ciudad.

Nuestros estudios y oficinas están en el km. 560 de la carretera México-Laredo, estamos a orilla de carretera, nuestra antena se distingue a mucha distancia cuando se viene por carretera ó por avión.

La frecuencia de 6,090 kilociclos es correcta, otras personas gentiles como usted nos han escrito de Argentina, Chile, Washington, etc. con muchos de ellos intercambiamos ideas, experiencias, impresiones, correspondencia, ojalá podamos hacerlo con usted.

Desde ésta ciudad cañera, reciba un fuerte abrazo y el estrechón de manos más sincero:



WALDO LOPEZ-HERRERA  
Gerente General.-

U.S.A. Voice of America, Greenville, 5995, 30th Anniversary card in 1 week. (Seymour) 15225, 3 months w/site given (Window) 26040, 12 days (Norko) 5 days for 8-cent stamp (Megyesy) 2 weeks for 9770 (Megyesy)

➤ UNION OF ARAB EMIRATES: Abu Dhabi, 9620, letter from A. M. Sallam, airmail in 8 weeks advising me that my report was the 1st for this freq. from Australia. Returned the 2 IRCs sent with the report. (Padula) 9695, letter from V/Si Farouk Jarral, Director of Radio-TV. Airmail in 2 months (Dexter)

UZBEK S.S.R. Radio Moscow, Tashkent, 15350, card in 5 months seamail for the African Service. (L. Marshall)

Radio Tashkent, 11925, Chimes card in 2 months. No return postage (Draut)

VATICAN CITY: Radio Vatican, card and sked in 2 weeks air (Guarducci) studio card in 11 days for 2 IRCs (Johnson) 11 days (Megyesy) 15110, card and sked air from LA Dept (Padula) 15420, card in 13 days (L. Marshall) 9615, 10 days (Helms) 2 weeks (Fine)

VENEZUELA: Ecos del Torbes, 4980, letter w/veri stant only in 49 days from V/S:

Carlos Sarmientos; plus pennant (Mayer) 1 month w/beautiful pennant (Reeves)

Radio Barquisimeto, globe card and decal in 1 month for 4990 (Dushane) 2 weeks for a Spanish report and IRC. Full data QSL. (Megyesy)

Radio Lara, 4800, network card in 3 weeks for Spanish rpt and MS (Marshall)

Radio Los Andes, Mérida, 6010, long personal letter from V/S: Guillermo

Lobo Lobo, Director-Proprietario. Also sent magnificent selection of mint Ven. stamps plus two very nice p/cards of city. Air in 4 weeks for Spanish rpt and 2 IRCs.

Valued. (Padula)

Radio Nacional, 11725 kHz, letter and pennant in 2 months airmail. IRC sent. (Taylor) letter and beautiful pennant in 5 weeks for English rpt. (Stone)

VIETNAM (DEM REP): Radio Hanoi, paper QSL with full data in 5 months for 2 IRCs, plus sked, for a report sent direct. (J. Kolb)

ZAMBIA: Radio Zambia, 3346, card with full details in 3 weeks; 2 IRCs. (Rodman)

And that wraps up another months, gentlemen. Sincere thanks to the following for their continued support:

Joseph Avery, NC  
Ernest S. Behr, ONTARIO  
Gordy Brill, WI  
G. A. Calkin, MEXICO  
John Campbell, TX  
Charles Conner, LA  
Gerry L. Dexter, WI  
G. W. Donnelly, NC  
Eric Draut, IL  
Mark Duba, VT  
Richard Dushane, MI  
Robert Estand, TX  
Dan Ferguson, WV  
Henry Fino, NY  
Ciro Guarducci, BC  
Gary Hafer, PA

Rob Harrington, CO  
Harry Helms, NC  
Dan Henderson, MD  
Ken Hunt, CA  
Don C. Johnson, CA  
Steve Kamp, CA  
John Kolb, CA  
Neal E. Kolb, FL  
Albert Linsenmeyer, IL  
B. Lym, CA  
Christopher Lobdell, MA  
Ernest G. Lohe, VA  
Anthony Marks, OR  
Larry Marshall, CA  
Alan Mayer, IL  
Dave Megyesy, NJ  
Robert Norko, CT

Bob Padula, AUSTRALIA  
Carroll Patterson, GA  
Neal Perdue, TN  
Harold Peters, SC  
W. J. Plum, NJ  
Scott Reeves, MD  
D. Rodman, NY  
Bill Schultz, PA  
Charles Self, MN  
Harold Sellers, ONTARIO  
Woody Seymour, NC  
Dillard Stone, TX  
Peter Taylor, ONTARIO  
Henry Wawreski, NJ  
Glenn Window, PQ  
Michael Wiseberg, ONT.

Just a brief reminder, in closing, that the next SCOREBOARD will appear in the December QSL REPORT, when the spotlight will fall on North America. In March 1973, we shall look at your best QSLs from Africa. Don't forget to update!

A Request: If you have recently received a new or rare QSL which would be of interest to other DXers, why not send a clear distinct photocopy of it along to your editor. Let someone else see it too! And so until NOVEMBER, best 73s.

*Shugg*

# LISTENER'S

# NOTEBOOK

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## CHINA

### REGIONAL OUTLETS

Larry Magne, NASWA Log Report Editor, using information obtained himself, as well as information supplied by DXers Bundy and Nagase, and information from the BBC Monitoring Service and the FBIS, has put together a study of the Home Service broadcasts from Chinese regional stations. Our thanks to him for sharing the study with NASWA members.

9490	Tibet	5020	Kiangsi	3310	Kirin
8775v	Kwangsi	5010	Kwangsi	3260	Kweichow
7324	Kansu	4990	Hunan	3245	Tsinghai
7165	Fukien 1	4975	Fukien 1	2475	Chekiang
7050	Sinkiang	4952	Unid 1200-1515	2415	Chekiang
6975	Inner Mongolia	4914	Heilungkiang	2350	Shantung
6936v	Yunnan	4865	Kansu	2340	Fukien 1
6840	Inner Mongolia	4833 $\frac{1}{2}$	Liaoning	2200	Fukien 2
6500	Tsinghai	4785	Yunnan		
6280	Sinkiang	4759v	Yunnan		<u>MW</u>
6260	Tsinghai	4750	Inner Mongolia		
6178	Sinkiang?	4525	Inner Mongolia	1460	Inner Mongolia
6176	Shensi	4500	Sinkiang	1330	Inner Mongolia
6080	Inner Mongolia	4400	Sinkiang	1290	Ningsia
6070	Kirin	4220	Sinkiang	1230	Hunan
6000	Chekiang	4110	Sinkiang	1060	Kwangtung
5950	Heilungkiang	4068	Inner Mongolia	1030	Kweichow
5935	Tibet	4035	Tibet	930	Honan
5925	Sinkiang	4003	Inner Mongolia	920	Shantung
5800	Sinkiang	3950	Tsinghai	880	Fukien 1
5441	Sinkiang	3940	Hupei	770	Hupei
5057	Sinkiang?	3930	Inner Mongolia	620	Heilungkiang
5040	Fukien 1	3900	Inner Mongolia	580	Fukien 2

Following are the schedules, given as:

#### ADMINISTRATIVE DIVISION

City	Schedule	Identification.
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In these schedules, midday transmissions breaks are not always noted. Too, in some cases, due to time and propagation limitations, it was necessary to make educated guesses on transmission breaks and the period of time any given frequency might or might not be in parallel. Finally, many of the dialect IDs are written as they sound and are not authoritative. Nevertheless, this study should form the basis for reasonably accurate monitoring of Chinese regional radio outlets, as well as the foundation for improved versions in the future.

## CHINA (continued)

Chekiang

Hang-chou 2110-1520 6000, 2475  
Chi: "Chechiang Jenmin Kwangpo Tientai"

Wen-chou 2105-1520 2415  
Chi: "Wenchou Jenmin Kwangpo Tientai"

Fukien

Fu-chou 1st 2045-1400 Chinese 7165, 5040, 4975, 2340, 880  
Provincial 1400-1430 Chinese\* 7165, 5040, 4975, 2340, 880  
Program 1430-1500 7165, 5040, 4975, 2340, 880  
1500-1530 Amoy\* 7165, 5040, 4975, 2340, 880  
1530-1700 7165, 5040, 4975, 2340, 880

\*Beamed to Quemoy & Matsu  
Chi: "Fuchien Jenmin Kwangpo Tientai"

Fu-chou 2nd 2045-1400 Chinese 2200, 580  
Provincial 1400-1430 Fu-chou  
Program dialect\* 2200, 580  
1430-1700 2200, 580

\*Beamed to Quemoy & Matsu  
Chi: "Fuchien Jenmin Kwangpo Tientai"

Ha-erh-pin 2055-0900 Chinese 5950, 4914, 620  
0900-1000 Korean 5950, 4914, 620  
1000-1426 Chinese 5950, 4914, 620  
Chi: "Heilungchiang Jenmin Kwangpo Tientai"

Honan

K'ai-feng 2120-1435 930  
Chi: "Kaifeng Jenmin Kwangpo Tientai"

Hunan

Ch'ang-sha 2030-1620 Chinese 4990, 1230  
Chi: "Hunan Jenmin Kwangpo Tientai"

Hupei

Wu-han 2130-1605 3940, 770  
Chi: "Hupei Jenmin Kwangpo Tientai"

Inner Mongolian Autonomous Region

Ch'ih-feng 2120-1515/30 Chinese 3930  
Chi: "Nei Mengku Chaowuta Meng Kwangpo Tai"

Hai-la-erh -1500 Mongolian 6080, 3900  
Mong: "Ubergmongolin Aratin Arajio Horoone Hyirtogar Horoo"  
-1515/30 Chinese 4750  
Chi: "Nei Mengku Hulenseih Meng Kwangpo Tai"

Hu-ho-hao-t'e 2120-1515/30 Chinese 6840  
Chi: "Nei Mengku Jenmin Kwangpo Tientai"  
2130-2200 Mongolian 6975, 4068, 1460  
2200-0055 RP Mong HS 6975, 4068, 1460  
0055-0320 Mongolian 6975, 4068, 1460  
0320-0530 RP Mong HS 6975  
0945-1340/45 RP Mong HS 6975, 4068, 1460

"Silinhot" 2120-1530 Chinese 4525  
Chi: "Nei Mengku Hsilnkoulo Meng Kwangpo Tai"

Inner Mongolian Autonomous Region

Teng-k'ou -15007 4003  
Chi: "Payennaerh Jenmin Kwangpo Tientai"

Kansu

Lan-chou 2000-0800a 7324, 4865  
0945-1630 7324, 4865  
Chi: Kansu Jenmin Kwangpo Tientai"

Kiangsi

Nan-ch'ang-hsien 2000-1735 5020  
Chi: "Kiangsi Jenmin Kwangpo Tientai"

Kirin

Ch'ang-ch'un 2000-1430 Chinese 3310  
2020-0030 Chi/Kor 6070  
0915-1600? Chi/Kor 6070  
Chi: Chilin Jenmin Kwangpo Tientai"

Kwangsi-Chuang Autonomous Region

Nan-ning -1205 5010  
Chi: "Kuangshi Jenmin Kwangpo Tientai"  
Pei-hai 2200-1157 Chi/Tai 8775v  
Fisheries Chi: "Pei-hai Yu Kwangpo Tientai"  
Tai: "Puh-hoi Yi Dibobo Dienhot"

Kwangtung

Canton -1605 Cantonese 1060  
Cantonese: "Kwangtung Yenmun Kwangpo Tientoi"

Kweichow

Kuei-yang 2155-1500 3260, 1030  
1500-1620 3260  
Chi: "Kueichou Jenmin Kwangpo Tientai"

Liaoning

Shen-yang 2100-2400 4833 $\frac{1}{2}$   
0330-0515 4833 $\frac{1}{2}$   
0900-1515/30 4833 $\frac{1}{2}$   
Chi: "Liaoning Jenmin Kwangpo Tientai"

Ningsia

Yin-ch'uan -1620 Chinese 1290  
Chi: "Nibghsia Jenmin Kwangpo Tientai"

Shantung

Chi-nan 2120-1518 Chinese 2350, 920  
Chi: "Shantung Jenmin Kwangpo Tientai"

Shensi

Hsi-an 6176  
Chi: "Shensi Jenmin Kwangpo Tientai"

Sinkiang-Uighur Autonomous Region

Urumchi  
Kazakh pgm 2340-0130 5925, 4220  
0130-0300 RP Kaz HS 5925, 4220  
1200-1400 5925, 4220  
1400-1445 RP Kaz HS 5925, 4220  
1445-1700 5925, 4220  
Kazakh: "Sinkiang Aratyn Radyo Horooqas Yariji Baina"

(continued next month)

Larry Magne & Dan Henderson  
 NASWA Log Report  
 P.O. Box 2133  
 Middle-City Station  
 Philadelphia, PA 19103

# LOG REPORT

DEADLINE: Here by 12 Oct.

Although DX in recent weeks has been more typical of summer conditions than it was last month, there are several signs that an improvement in reception is underway all the way from 90-13 meters. By late October we should be experiencing a fair number of nights of good "low end" reception, as is the usual case, plus we may have a repeat of the strong geomagnetic storms that have occurred in early and mid-August and September, which afforded opportunities to snare normally-inaudible stations to the south. There isn't space here to cover this topic with justice, but if you notice the bands denuded of the usual Europeans and filled, instead, with LA stations, then a geomagnetic storm is likely underway.

\*0100 s/on; 0100\* s/off; // parallel; a approx; EE English (SS Spanish, etc); EGFP exc-good-fair-poor; EIR East Is Red; f/o fade out; GSTQ God Save The Queen; Indon Indonesian; Int Internationale; IS Interval Signal or Island(s); JKT Jenmin Kwangpo Tientai; lbx letterbox; LL language lesson; LM light music; loc local; M man; mx music; NA National Anthem or North America; NF new fq; nx news; px programming; QRM interference; QRN static; rel religious; RF reactivated fq; t tentative; TC time check; tx transmitter; v varies; w/ with; W woman; wx weather.

## 120 Meter Band

- 2450 UNID 1020 SS, LA mx, P (AR) Likely 4VSO in Creole (Ed)  
 2498 - 3199.9 kHz
- 2880 COLOMBIA R Reloj de Tulua (2x1440) 0529 SS, new ID ex-R Tulua  
 Aguila Rosa ad, mx, F (GH)
- 3000 UNID 1545-1700\*, Indon & C&W mx, no anns, 2x1500?, weak (BBy)

## 90 Meter Band

- 3200t CHINA Fukien Front Stn 1115 CC, W talk, CC mx (AR) This is  
 easy to ID, just check for //3400,4380,5170,5240, etc (Ed)
- 3210 MOZAMBIQUE RCM 2138 PP, loc songs, anns (RFB)
- 3215 VENEZ Ondas Panamericanas, El Vigia, 1031 SS, ads, chimes,  
 "El Vigia" hrd oft, P (CP)
- 3216 DOM REP R Libertad 0350-0434 SS, ID "Radio Libertad" (WJP,CP)
- 3216 ESPIONAGE 1015 SS, 5# groups by W, G (ECS)
- 3223 JAVA (LOMBOK) RRI-Mataram 1503-1525\*, QTH presumed, Indon nx,  
 steel guitar mx w/RRI IDs, loc ID QRNd, F on LSB only (BBy)
- 3230 FIJI R Fiji 0900 EE, nx, 2% readable (JLK)
- 3240 PERU R America 0320, ID, Andean mx, FP (GLD)
- 3250 S AF Springbok 2230-0400+ EE/Afr, LM, nx (FH,HS,WJP)
- 3260 NIGER Naimey 2142 FF, loc songs (RFB)
- 3265 BRAZIL R Riberao Preto 2348-0003 PP, soccer, ID, F (FH)
- 3265 GUYANA R Demarara f/i 2200-0245\* EE, pops (FH)
- 3275 VEVEZ R Mara 0005-0341 SS, ID "R Mara", usual, FG (FH,GLD,CP)
- 3275 JAVA RRI-Djakarta 1020, string mx, little QRN (ECS)
- 3277 MOZAMBIQUE RCM "B" 2330-0000 ID, chimes, pops, W DJ, FG (FH)
- 3285 S AF SABC 0440 EE, LM, few anns, G (MD)
- 3286t PHILIPPINES PBS 1035, Tidikling mx, no ID, Tagalog? (ECS)
- 3290 GUYANA Action R f/i 2215-0115 EE (FH,AAM) \*0845-0920 EE, IS  
 "Puppet on a String", G (CP,HS,MD,CP)
- 3294 BRAZIL R Educacao de Uberlandia 2310-2330 PP, ID, LL (FH)

- 3295 GHANA GBS 2250-2300\*, hilife mx, //s not noted (FH)  
 3295 VENEZUELA R Trujillo 1026 SS, "Buenas Dias, Ven", TCs, Ven mx, ID "R Trujillo", QRN, F (CP)
- 3299.7RF BRITISH HONDURAS R Belize from 9/2 0245-0510\* EE, jazz, US pops, local events, BBC nx 0300, loc nx 0400 & 0500, IDs "This is R Belize", many ads (Campbell's Soup, Alka-Seltzer, etc.), 0505 National Prayer, NA, GSTQ, P-G, but best on LSB due to UTE QRM, some SS in 0400 nx (CP,AR,GAG,LM)
- 3300 GRENADA RG 2300 EE, BBC nx, G before 9/2 (FH)  
 3315 BRAZIL R Gazeta 2330-0010 PP, mx, nx, ads, ID, F (FH)  
 3315 ECUADOR R Pastaza, El Puyo, 0400\* some days, 0500\* others, SS, mx, ID "R Pastaza, LV de Oriente Ecuatoriana" (MAF) 0423\*, abrupt off, vocals, F (GLD) Rather elastic sked, it seems (Ed)
- 3316 SIERRA LEONE RSL, Freetown, 2300-2330\* EE, LM, pops, ance s/on \*0600 on 5980 (FH) t 0600 EE, chorals, Af accent, P (AR) Dunno why they ann 5980 only, noted for years \*0600 on 3316 (Ed)
- 3320 S AF SABC 0430 Vern, clas mx, not //3285 (MD) \*0430?, IS (WJP)  
 3322.5 BOUGAINVILLE IS R Bougainville 1052-1130 EE/lang, Poly mx, nx 1115, TC, chimes 1130, P (AAM, CC)
- 3324.7 VENEZ R Monagas, Maturin, 0400\* SS, ID, NA (MAF) 0954 SS, Ven nx, ID "Aqui R Monagas", QRN but otherwise F (CP)
- 3325 GUATEMALA R Maya \*1035 loc dialect, discs, G (SK) \*1045 SS, martial mx, ID "Esta es R Maya", pops, G (CP) 1100-1205 SS, ID, hymns, sermon, also non-rel px, few anns, mx (CC,HS)
- 3325.3 ECUADOR Ondas Quevedenas, Quevedo, 0350-1000+ SS, YV QRM to 0402, UTE & CHU QRM, "Sto Domingo" hrd oft (60 mi fm Quevedo), IDs, Andean mx, seems 24h daily now, F (LM)
- 3335 N GUINEA R Wewak 1108 Pidgin, Is mx, C&W, PF (AAM)  
 3339 ZANZIBAR RTZ \*0330 Swahili, IS on gourd, anns by W, chants (FH)  
 3345 ANGOLA RC do Huambo 2300\* PP, LM, ID, "A Portuguesa" (FH)  
 3350 GHANA RG Nat Sve 2245-2300\* EE, mx, anns, NA (FH)  
 3355 N CALEDONIA ORTF, Noumea, 0930-1230+ FF, clas mx, pops, nx, talks, FP, sked extended? (HMa) Yup, cf Tahiti 6135 (Ed)
- 3355.2 ECUADOR Cf Sept LR-2. Not Luz, but R. Cotachachi (name per official Ec Govt list via Dexter), 0415-0500\* M-Sa, 0545\* Su, SS, QTH Ibarra, Imbabura Province, list 500 watts, new stn, IDs (roughly) "R Felice...Musical" & "LV de la Noche", "Ibarra" oft hrd, once as "...en la capital de Ibarra" (Provincial capital), "Ecuador" hrd, ancs only one fq and says s/on "7:30 am", i.e. \*1230 GMT, ads, LA pops, Ecuadorian NA, P (LM)
- 3360NF PAFUA R Milne Bay 0900-1230v\* ex-3235 since 8/28, EE nx 1120, Melanesian pops, IDs, s/off varies fm 1230-1235, far better here than old 3235, C&W mx, some tx problems 9/4 (BBy,HMa,BP)
- 3365 VENEZ R Puerto La Cruz 2330 SS, "Zulia" hrd, why?, IDs (FH)  
 3366 GHANA RG Comml Svc 2245-2300\* EE, mx, better than 3350 (FH)  
 3375 BRAZIL R Olinda Pernambuco, many IDs, mix Angola, best 90M Brazilian (FH) Time must be afternoon (Ed) t 0815, LA mx, P (LM)
- 3375 ANGOLA Em Official 1937 PP, EE pops (RFB) 2300-2359\* PP, pops, drama, LM, nx 2345, Angolan NA, "A Portuguesa" (FH)
- 3381 ECUADOR R Iris 0245 SS, Ec mx, IDs, talk (DCJ)  
 3385 BRAZIL RC de Teresina 2253 PP, IDs, guitar mx, F (FH) t 0824 PP, pretty Braz mx, no ID hrd, UTE QRM/QRN, P (CP)
- 3385 FRENCH GUYANA ORTF, Cayenne, to 0925 f/o FF, "Cayenne" hrd(HS)  
 3385 N BRITAIN R Rabaul 1000 Pidgin, nx, oldies, C&W mx (ECS)  
 3385 VENEZ R Barcelona 0300 SS, mx, IDs, TCs, talk (DCJ)  
 3390 ECUADOR R Zaracay 0445-0502\* SS, LA pops, flute mx, ID "Transmite R Zaracay (CC) 0610 SS, LA mx (DCJ) 0945, LA mx (ECS)
- 3394.4 VENEZ R Universidad 0358\* SS, anns, NA (CC)  
 3395 BRAZIL RC do Conquista 2345, PP vocals, weak (FH)  
 3396 RHODESIA (a/k/a ZIMBABWE) RBC 0400 EE, nx, into vern (MD, DH)

3400 - 3899.9 kHz

3406 DOM REP R Santiago 0045, futebol (AEM)  
 3414 SUMATRA RRI-Medan 1320 Indon //5084, P (BBY)  
 3460 UNID 1255-1305 Indon?, talks, ID "Inilah...", UTE QRM, P (BBY)  
 3600 CUBA "LV de Cuba" 0603 (6x600), harmonic distortion, F (GH)  
 3883 CAPE VERDE IS RC de Cabo Verde 2250-2300\* PP, anns by M, back-ground guitar theme, "A Portuguesa", F (FH)

75 Meter Band

3952 S AF SABC 0450 Afr?, nx, thru ARO QRM, F (AR)  
 3952 ENGLAND BBC 2300-2332\* EE, nx, cmty, "fq now closing" (FH)  
 3995 SOLOMON IS SIBS 0745 EE, nx, mx, P (MN)  
 3997 S AF SABC 0248 EE, LM, pops, P (HS) 0400 EE, ads, TC, E (DH)

4000 - 4749.9 kHz

4485 RSFRS(As) Petropavlovsk-Kamchatka (per BBC MS) 0930, RR drama, no ID hrd but sked w/loc px per BBC MS, P (LM)  
 4500t CHINA Urumchi, Sinkaing Province, 2300, M&W ancrs, 5 pips (AEM)  
 4679 ECUADOR R Nac Espejo, Quito, HCGBl, 0200 SS, anns, ID, mx (JDT) 0600-0610, full ID (AEM)  
 4720v CUBA R Rebelde (8x590) 0030 SS, P (FH) Unlist anywhere, so is oft confused w/various b'casters-has harmonic distortion (Ed)

60 Meter Band

4755 COLOMBIA Em Nuevo Mundo 0345 SS (JDT) 0620 SS, G (MD)  
 4755.6 BRAZIL Rdif Maranhao 2337 PP, LM, talks, G (FH)  
 4760 VENEZ R Frontera 0108, "Love is Blue" & other mx, F (FH)  
 4760 KAZAKH SSR Dshambul 0930 RR, W talk, F (SK)  
 4764.4 CONGO RTVC, chorals, M ancr (AEM) Time? (Ed) 2250 FF, nx (FH)  
 4765 COLOMBIA R Catatumbo 0315 SS, mx, ads, P (CC)  
 4765 SUMATRA RRI-Medan 2315-2340 Indon, Koran chants, nx, chimes, western mx, then f/o (AEM) Western meaning C&W? (Ed)  
 4765.6 ECUADOR C.R.E. 0310-0350 SS, ancs "R Cadena Nac" for the benefit of Gran Colombia 4910, altho not in // but have same ancr (taped?), may be new Ec nx net, G (LM) 0402\*, IDs, mx (WJP)  
 4770 VENEZ R Bolivar 2326, IDs, F (AAM) 0306 SS, ID "R Bolivar - La Fabulosa", nx, mx, usual (EL)  
 4774.4 DOM REP Onda Musical 0230 SS, soft LA mx, ads, IDs (DCJ) 0400 SS, LA mx, talk, IDs (NAP)  
 4777 GABON LV de Renovation 1931 FF, pops (RFB) 2245 FF, talk on Independence Day (Aug 17), E (FH) 2255 FF, jazz, ID (AEM) 0600 FF, nx, chants (CC)  
 4777.7vNF ECUADOR R Progreso 0700-0733 SS, ID "R Progreso" not list "El Progreso", ex-4775, seems sked 24h now, Andean mx, P (LM)  
 4780 HONDURAS R Juticalpa 2120, ranchera mx, ID (GAC)  
 4780 VENEZ LV de Carabobo 0935-1000, rapid-fire nx, spots (SK)  
 4784.8 PERU R Atlantida 0445 SS, talk, echo IDs, overmod (CC)  
 4787.7t TURKS & CAIGOS IS Turks Island Radio VS18 0750-1130 f/o, believed the open carrier here, same fq, strength, fade pattern as last August, likely stn on for possible storm warning as storms abounded that day, F, watch this fq during tropical storms (LM)  
 4790 VENEZ Ondas Portenas 0020-0050 SS, ads, ID "Onda Feliz - Ondas Portenas!", LA mx, G (AAM,EL,WJP,JDT) 0325 SS, ditto (CC)  
 4794 ECUADOR LV de los Caras 0350-0403\* SS, Cuban-style pops, ID, off w/no anthem, F (LM)  
 4794.8v BRAZIL R Congonhas 0900-0930 PP, Braz rhythms, overmod, F(LM)  
 4795 COLOMBIA R Reloj 0310 SS, nx, sad mx (FH)  
 4797 BOLIVIA R Nuevo America 0459\*, mx, W&W ancrs (GLD)  
 4800 VENEZ R Lara 0034 SS, ID, LA mx (RFB)  
 4805.2 BRAZIL Rdif do Amazonas 0200 PP, mx, "Manaos" hrd, G (ELY)  
 4807.2 ECUADOR R Popular 0735 SS, ID, lively Andean mx, note time, F (LM) 1030, Andean mx, M ancr, nice level (BCS)

- 4810 VENEZ R Popular 0030-0200 SS, nx, chimes, IDs, ads, LA mx, G (NAP,WJP,PH,DCJ) 0357\* SS, IDs (NAP) 0455\* SS, NA?, F (HS)
- 4814 UPPER VOLTA RTVV 1940-2000 FF, loc mx, nx, P (HMA) 0610-0635 f/o Vern, sing-song talk, FF ID (DGJ)
- 4814.7 ECUADOR Canal Manabita 0440-0515 SS, Andean mx, ID (GLD,CC)
- 4820 HONDURAS HRVC LV Evangelica 0410-0426a\* EE, rel px (LVJ,NAP, GAC) 1115 SS, rel mx, P (RZ)
- 4820 ANGOLA Em Oficial 2245 PP, talk re Angola, FG (AEM)
- 4820 GAMBIA RG, Bathurst, 0630-0730 vern/EE, ME chants, ID, pips, BBC nx 0700 & 0730, loc nx 0710, FG (DCJ,SK)
- 4831 GABON LV de la Renovation, Franceville, since 8/29, to 2000\* some days, to 2200\* others, not //4777, FF, ID "Ici Franceville, station Nationale, La Voix de la Renovation", Western & Af vocals, requests, apparently a new stn, G (BP)
- 4832 COSTA RICA R Capital 0015-0448 SS, G (EL,AAM,DCJ,WJP,GB,BLY, LVJ,HS)
- 4837at COLOMBIA R Buenaventura 1230 SS, mentions "Colombia" oft, but no ID hrd (CC)
- 4839 ZAIRE R Bukavu 1932 FF, loc mx (RFB)
- 4839.7vNF BRAZIL R Roraima, list Boa Vista but ancs Carajari, 2315-0314\* PP ex-4835, many IDs "R Roraima presenta Brazil", live mx px "Studio Five", off w/3 gongs only, FP (LM)
- 4840 VENEZ R Valera 0740-0806\* SS, mx, NA, ID "La nueva R Valera", F (EL) This stn known to run late at times (Ed)
- 4840 USSR RM 2300 EE, nx (RFB)
- 4843 CONGO Point Noire 2000\*, loc rhythms, NA, strong but CW QRM(AEM)
- 4845 COLOMBIA R Bucaramanga 0030 SS, mx, TC, F (EL)
- 4845t MALAYA RM-Penang 1150 lang, As mx, W wailing (CC)
- 4845 BOTSWANA RB 1845-2100\*, pops, talk, ID, NA, P (HMA)
- 4860 VENEZ R Maracaibo 0012-0430 SS, LA mx, IDs, ads, F-G (NAP, BLY) \*0959 (SK)
- 4865-74v BRAZIL RC do Para 0825-0855 PP/dial, ID, vy unstable 8/31 (LM)
- 4874-5v BRAZIL R Jornal do Brasil 0812-0830 abrupt off, IDs, LA mx (JDT) 0837 tx failure, Braz mx (SK)
- 4875 BOLIVIA R La Cruz del Sur 0230-0305\* SS, rel drama, pops, nx flash, off in both SS & EE (BLY)
- 4880 VENEZ R Universo 0330-0400\* SS, mx, TCs (MAF) 0430 SS, G (BLY)
- 4880 ZAIRE Kinshasa 2239 FF, cmt, G (FH)
- 4881 DOM REP R Comercial 0500-0540 SS, LA mx, IDs (LVJ,NAP,BLY)
- 4885v BRAZIL R Pioneira de Teresina 0815-0840 PP, mx, TC, ads, G (EL)
- 4890 HONDURAS R Lux 2302, LM, YV QRM (GAC)
- 4890 VENEZ Rdif Venez 0006-0400\* SS, pops, G (NAP,DCJ,BLY,WJP) \*0955 (SK) Is R Nueva Difusora (DCJ)
- 4890 PAPUA ABC-Port Moresby 1100 EE, nx, F (RZ)
- 4890 SENEGAL Dakar 2015 FF, nx, F (AEM)
- 4894.4 BRAZIL R Bare, Manaus, 0900-1000 f/o PP, LA/rock mx (EL,JDT)
- 4900 VENEZ R Juventud 0315-0325 SS, LA/US pops, G (DCJ,MD)
- 4905.7 BRAZIL R Religio 2235 PP, nx, G (FH) 0005, TCs, nx (AEM)
- 4905.7 COLOMBIA Em Atlantico 0205 SS, ID, Cuban mx (CC)
- 4910 ECUADOR Em Gran Colombia 0530 SS, IDs, slogans, mx (CC)
- 4910 GUINEA R Conakry 0655-0705 FF //7125, ID "Ici Conakry", F (BBY)
- 4915v BRAZIL Rdif Macapa 0200-0300\* PP, mx, ads, ID (MAF)
- 4915 GHANA RG 2248 EE, E (FH) \*0530-0600+ lang/EE //3350,4980, EE nx 0600, cmt, loc mx, ID, FG (NAP,DCJ)
- 4915 KENYA VoK 1836 lang, mx, not as clear as usual (RFB)
- 4916 COLOMBIA R Guatapuri 0230-0442 SS, ID "R Continental", TOLE-DAR ID, "R Guatapuri" ID, LA mx, SS QRM 4914a (MAF,CC,HS)
- 4920 HONDURAS R Progreso 0300-0400 SS, pops, ads, IDs (BLY,LVJ) 0400\* daily (GAC) 0505-0515\*? SS, ID, G (CC) 1045, G (AR)
- 4920 AUSTRALIA ABC-Brisbane 1100 EE, nx, P (RZ)
- 4924 UNID LA 0405-0435 SS, "Quito" thot hrd, slow/swing/std mx (NAP) This s/b easy to ID, OM (Ed)
- 4926 EQ GUINEA R Bata \*0430 SS, ID "R Bata", nx, F (DH)
- 4930v DOM REP R Mil 0100-0550 SS, LA pops, IDs (DCJ,LVJ,CG)

- 4930 ECUADOR Rdif Casa de la Cultura 0215-0340 SS, clas mx, talk, nx, ID, P (Bly,NAP)
- 4936 PERU R Tropical 0357, ID after "Love Story Theme", F (GLD)
- 4940 VENEZ R Yaracuy 0030, IDs (AEM) \*0955 SS, pips, NA, G (AR)
- 4940 IVORY COAST RTVI 2305 FF, loc mx, FF/EE pops, G (RFB,AR)
- 4945 COLOMBIA R Colosal 0045 (FH) 0450-0520 SS (LVJ,NAP,CG) Some days 24h, others not 24h, apparently a new sked (Ed) Bly)
- 4945 S AF SABC 2352-0200 EE/Afr ANS, oldies, nx, F-E (AAM,JDT,DCJ)
- 4950 SARAWAK R Malaysia Sarawak, Kuching, 1445-1500 EE, opera (Bly)
- 4955 COLOMBIA R Nacional de Colombia 0335-0430 SS, clas mx (LVJ,Bly)
- 4960 VENEZ R Sucre 0330-0405\*, nx, very weak (MAF)
- 4965 COLOMBIA R Santa Fe 0400-0600+ SS (DCJ,HS,LVJ,CG,MD,NAP)
- 4969.8 CLANDESTINE (PORTUGUESE GUINEA?) R of the NLF of the Republic of Guinea \*0620-0705 f/o FF/Vern, usual IS/ID, US jazz, P (LM)
- 4970 VENEZ R Rumbos 0020-0430 SS, ads, IDs "R Rumbos, Cadena Nacional", LA mx, F-G (NAP,FH,Bly,DCJ,LVJ)
- 4975 PERU R del Pacifico 0200 EE, nx, mx, ads (Bly) EE? ID? How well was this heard? (Ed) 0320 (tent), bits and pieces when the UTE lets up (GLD) Did you log the language, Gerry? (Ed)
- 4980 VENEZ Ecos del Torbes 0130 SS, LA/EE mx (DCJ)
- 4980 GHANA RG 2010 EE, talk, F (AEM) 2300 EE, rel px, E (RFB)
- 4990 VENEZ R Barquisimeto 0025-0310 SS, pops (NAP,DCJ,RD,Bly,LVJ)
- 4990 NIGERIA NBC-Lagos 2302 EE, nx (RFB)
- 4994.8 BRAZIL R Brasil Central 2303 PP, sports (RFB) 0130 PP, LA LM, IDs, talk (DCJ) Used to vary fq, but has been steady lately(Ed)
- 5005 PERU R Jaen 0105 SS, orch mx, nx, F (FH) 0240-0300 f/o or s/off, mx (MAF)
- 5010t SINGAPORE R Singapore 2302 CC?, "Buttons & Bows", W ancr (AEM) Certainly not Kwangsi, hi. Still no rpts of this being hrd in NA mornings; anybody know the full sked? (Ed)
- 5015t BRAZIL Rdif Pocos de Caldas 0905-0920, neo-Mex folk mx, calm M ancr, almost seemed rel, P (LM)
- 5015v ESPIONAGE (E GERMANY) 0005-0035 GG, 5# groups, "Achtung" (FH)
- 5023 UNID 0112-0147+ SS, nonstop AA chants, marching light opera, anns, QRN (NAP) Chants? (Ed)
- 5027 UNID LA 0320, P (GLD) Brazilian noted here (Ed)
- 5030 VENEZ R Reloj Continente 0030-0509 SS, pops, soft LA mx, IDs, rundown of net stns (NAP,WJF,DCJ,HS,RD) 0905 (JDT) \*0930 (CG)
- 5039.3v ECUADOR R Nacional Espejo, HCGB?, El Puyo, 0215-0501\* SS, Andean mx, ID "...Radiodifusora Ecuatoriana, Radio Nacional Espejo...Puyo...855 kHz Onda Larga...", mix chants de Omdurman 0300, s/off anns, Ecuadorian NA, P, new stn on SW (ex-MW only), don't confuse with unrelated Espejo HCGB1 on 4679 (LM) 0435-0500\* SS, ID, not //4679, Andean mx (CG) Nom 5040 (Ed)
- 5040 BURMA BBS 1430-1500 f/o EE, mx, nx 1445 (DCJ)
- 5041 UNID LA 0315a f/o or s/off, between Altiplano & Maturin, Centinela del Sur? (GLD)
- 5045 BOLIVIA LV del Altiplano 0200 SS, nx, P (FH) 0800 SS, ID (CC)
- 5047 TOGO RT, Lome, 2300\*, NA, E (FH) \*0530 FF, native IS, NA (Bly)
- 5050.3 VENEZ R Mundial 0450 EE, experimental px, LA mx, requests rpts, P (NAP) \*0945av SS, NA, IDs, F (CG,LM) S/on noted here varying lately from between \*0900-\*1000 (Ed)
- 5054 JAVA RRI-Bandung 0910-1005, loc ID 0958, Bandung & Java hrd oft between tunes, G (BBy) 1100-1200+ Indon, nx, mx (CG) Unid 1150-1210 AA, chants, "Arabiyah" hrd (JDT) Suspect RRI (Ed)
- 5060 - 5949.9 kHz
- 5060 ANGOLA RC do Huambo 2230-2300\* PP, LM, anns, NA, F (FH)
- 5061 ECUADOR R Catolica 0259; Andean organ/piano mx, NA (GLD) t 0415 SS, LA vocals, feeble (CC)
- 5062a ESPIONAGE 0123-0128 SS, 5# groups (NAP) M or W ancr? (Ed)
- 5063v ALBANIA R Tirana 0345-0440 f/o Alb, loc folk mx, ID "Ju flet Tirana", nx 0430 (DH,MAF) \*0430 from 1 October (Ed, BBC MS)
- 5067a UNID LA 0310 SS, nx, not Catolica, FP (DH)

- 5075v COLOMBIA R Sutatenza 0230-0402 SS, nx, mx, IDs, G (DCJ,HS)  
 5095v COLOMBIA R Sutatenza 0058 SS, ads, mx, ID (WT)  
 5170 CHINA Fukien Front Stn 1000 CC, martial mx, W ancr, G (ECS)  
 5560 INDONESIA Unid 1045-1200, seemingly non-RRI ID, but then RRI  
 IS & Jakarta nx relay 1200, P (BBy) We all will owe Bob, Vic-  
 tor G & Lars Ryden a debt of gratitude, as they are doing a  
 study for WRTH-73 on Indonesians, RRI & non-RRI alike! (Ed)  
 5804.5 YEMEN San'aa 0315 AA, "Quran", AA mx, weak, better on SX190  
 than on Hq180A (DH,ECS) Ed's 190? Because of SSB provisions?(Ed)  
 5875 HONDURAS LV de Honduras 0400, talk show, mx, E (GAC) 1105,  
 many ads/promos, then "Informativa de la mañana", promoting net  
 w/other CA stns (SK) Which net? (Ed)  
 5900 CHINA Fukien Front Stn 1100 CC, mx fanfare, M&W IDs, G (ECS)
- 49 Meter Band
- 5950t ECUADOR LV de los Cuatro Rios 0945-1035 SS, M ancr, LA mx,  
 het until 1000, deep in crackle, weak (ECS)  
 5950 NICARAGUA R Zelaya 0200\*, mx, is 0200\* daily (GAC)  
 5950NF EGYPT R Cairo \*0300 AA, chimes, clock strikes 6 am, AA px (ARN)  
 5950.6 UNID AS 0945 CC?, hets HC, W ancr (ECS) Ha-erh-pin in KK here  
 0900-1000 //4914, why not check for ??? (Ed)  
 5954 COSTA RICA R Casino \*1000, s/on in the clear (GAC)  
 5955 GUATEMALA TGNA R Cultural 0300-0400 EE, rel px //9505, mx,  
 ID 0400, F (DGJ,MN,GAC)  
 5955.3 BRAZIL R Gazeta 0920-0935 PP, lively Braz mx, ads, F (LM)  
 5960 CHINA RP 1045 CC, cmty by W, opera 1100, G (ECS) Must be new.  
 Any ///'s or IDs? Also, cf. 7520v (Ed)  
 5960NF BELGIUM RTB 2130 DD/FF, pops, mix USSR (BP)  
 5962 COLOMBIA LV de Bogota 0710 SS, ID, anns, LA mx, weak (HS)  
 5962 HONDURAS LV de Occidente 2135, pops, ID (GAC)  
 5970 PERU R El Sol 0508-0536, LA mx, G (GLD) 1045 SS, Andean mx (RZ)  
 5980 EL SALVADOR R Nacional YSS 0300 SS, ID, LA mx, F (WWS)  
 5980NF CANADA RCI 0720 EE/Af ex-11725, E (BP)  
 5985 ARGENTINA R Splendid 0915 SS, talk by M on Argentina, F (LM)  
 5987 CELEBES (a/k/a SULAWESI) t RRI-Menado 1100 lang, flute & string  
 mx (ECS) 1245 Indon, EE LL to 1256, loc mx/oldies, ID 1300 (CC)  
 5995 AUSTRALIA RA 1050-1100 EE/Pac, ID, mx, F (KR) 1057 EE, G (GB)  
 1140 EE, folk songs spot, G (FH)  
 5995 MALI Bamako 2350-0003\* FF, Af mx, long NA (JDT) Actually, that  
 is 2 anths, one militaristic, one more hymn-like (Ed)  
 5995 MALI Lakeland R via MBC (100 kw) 1900-2100 EE, rel px prepared  
 by a number of evangelical organizations, new"stn" (BBC MS)  
 5998NF ALGERIA RTVA 0730 & 2215 AA, //7268,15410 2215, don't confuse  
 S Arabia also here (BP) All these fqs drifting wildly as of  
 late, likely are new 120 kw tx (Ed, BBC MS)  
 5998.6 BRAZIL R Inconfidencia 0040, futbol, rapid cmty by 2 ancrs(AEM)  
 6000.2 UNID 2245 AA, chants, songs, anns (DH) See 5998 (Ed)  
 6005 CANADA CFCX-Montreal 2119 EE, F (JPR) 1030-1100, F (RZ,KR)  
 6007 COSTA RICA R Reloj 1410, mx, TGs (GAC)  
 6010 CANADA CJCX-Sydney 0000 EE, G (JA) 0355 EE, FP, QRM (DH) 1010  
 EE, PF (KR) All w/usual US-type px (Ed)  
 6030 PHILIPPINES FEBC \*2000 loc langs, new earlier s/on time, ID  
 for DXAS-MW, TC (BP)  
 6035 BRAZIL R Globo 2340, many IDs, powerhouse (AEM)  
 6037 COSTA RICA Faro del Caribe 0300 SS into EE (GAC)  
 6050 MOZAMBIQUE RCM 1400 Afr/EE, mx, ads, IDs (DCJ)  
 6052v HONDURAS R America 0430-0500 SS, px for listeners abroad, EE/  
 FF IDs recorded by GAC during recent visit! (GAC,ARN)  
 6055 BRAZIL R Panamericana 0130, mx, P (MAF) Add to 49 MB survey(Wd)  
 6060 SICILY RAI-Caltanissetta 0100 various langs, EE nx 0102-0105,  
 G (RFB)  
 6065 SPAIN RNE 2130\* SS, nx, spl Su xmission, mix Sweden (BP)  
 6065.6 COLOMBIA R Super 0630-0715 SS, ID, TCs, LA mx (CG,HS,WJF)  
 6070 CANADA CFRX 0302-0500 EE (KR,BLy) 1225-1325 EE (GB,JPR)

- 6075 COLOMBIA R Sutatenza 0019 SS, LA mx, FG (AAM) 0920-0935 SS, nx, "Good Morning", mx (JDT)
- 6075 NIGERIA NBC-Enugu 2210 EE, pops, ID "NBC", FG (DH) Add to surv.
- 6076v HONDURAS LV del Junco 2210, pops, LA LM (GAC) 0105 SS (WT)
- 6085 BRAZIL R Jornal de Comercio, Recife, 2300-0100, when CBC on, PP mx, few ads, F (MAF,AAM)
- 6085NF CANADA RCI 0115, DX px, GE (WWS) Time? (Ed)
- 6090 ARGENTINA R Belgrano, variety of mx, IDs, nx, sports (GLD)/
- 6090 AUSTRALIA ABC-Sydney 0825-0835 EE, ID 0830, early, P (LM) 1125 EE, talk, P (FH) 1130 EE, mx, F (RZ)
- 6090 LUX RL 0030 EE, discs, E until 0100 RCI (JA)
- 6100 NICARAGUA R Hernandez de Cordoba \*1600-1900\* & \*2200-0000\* daily (GAC)
- 6100 VENEZ Senales Horarios 0650 SS, pips, anns, het, G (GH) Measures 6099.4 still, likely a 600 Hz het (Ed)
- 6115 COLOMBIA LV del Llano 1000 SS, anns, ID, LA mx (JDT)
- 6115 MEXICO XEUDS 0000 SS, mx, IDs, G (Bly)
- 6115 CONGO RTVC 0530 FF, talk, loc mx, G (GLD)
- 6120 HAITI 4VE de 4VEH 0100 EE, F w/much QRM (JA) 1120 EE, rel px, G (FH)
- 6120 NICARAGUA R Atlantico 2210, dedications for listeners in remote eastern Nic (GAC) Add to 49 MB survey (Ed)
- 6125 HONDURAS R Suyapa 0245-0255 SS, IDs, ads, speech, mx, ancs in mx ID before TC "La Carinosa de la hora...", FG (JPR,MAF,GAC)
- 6130NF NORWAY RN 0600 Norwegian/EGNA ex-11735, also 2025 Norwegian/Eu ex-11850 (BF) Puts out strong 2nd harmonic on 12260 (Ed)
- 6130 CANADA CHNX-Halifax 2238-2305 EE, F (JPR) 1238 EE, F (HS)
- 6135t BRAZIL RTV Gaucha (presumed) 0850-0915 PP, ads, Bz mx of neo-ranchera type, no ID noted, P (LM) Add to 49 MB survey (Ed)
- 6135 TAHITI R Tahiti 1000-1135+ Tahitian //9750v,11825,15170 Mon only, apparently new sked, F (LM) Cf 3355 (Ed) Cf 49 MB survey.
- 6140 COLOMBIA R El Sol 0420-0600 SS, LA pops, IDs, chimes, TCs, F (Bly,MD,DCJ) 0930-1030 SS, TOLEDAR ID, SS mx, F-G (JPR,RZ)
- 6145a NIGERIA NBC-Calabar 2145-2200 EE, Af mx, ID/nx 2200 (DH,JPR)
- 6150 COSTA RICA R Atena 0500\* most nites, many ads, little mx, abrupt off-sometimes in mid-song (GAC)
- 6150 AUSTRALIA ABC-Melbourne 1155 EE, mx, F (RZ)
- 6160 COLOMBIA Em Nueva Grenada 0100 SS, RCN IDs, nx, mx, P (Bly) 1045 SS, talk, F (RZ)
- 6176.3 BRAZIL R Guarani 0800 PP, slow PP mx, F after 0800 (MD)
- 6180 GUATEMALA LV de Guatemala 0218-0315 SS, sports, cmty, marimbass, F (MAF,WT,RZ)
- 6185 ETHIOPIA VoEthiopia \*0330 lang, heavy QRM (ARN)
- 6195 MALAYA BBC 1115 EE, sports, F (RZ)
- 6200 - 7099.9 kHz
- 6202v INT WATERS RNI 2350-0548+ EE/DD, pops, G, still drifting up with the new tx (NAP,HS,WJP,JH,DS,LM,MD)
- 6210v GUATEMALA LV de Guatemala (cf 6180, Ed) 0015 SS, clear ID, LA mx, one nite only (NAP)
- 6225 PIRATE World Music Radio 1235, pops, splash RNI, Su (ARM)
- 6250 N KOREA KCBS 1100, vocals, G (ECS) KK/S Korea list (BBC MS)
- 6250 EQ GUINEA R Santa Isabel 0535 & 2255\*, Af mx, NA?, G (MAF)
- 6300 PIRATE Blossom R 1228-1249 Sun, verie by QSL cd in 5 wks fm Dept. B1, 91 Park St, Horsham, Sussex, England, 5 watts (ARM)
- 6560 CHINA RP 1005-1044\* new KK HS, RR-style chorals, Int, then full KK ID by basso M, F, don't confuse RR FS from \*1100 (LM) New KK HS for Korean minority population now \*0400-0445\* on 8260,6560; 1000-1045 on 6560,4620; 2130-2215 on 6550,4620(BBCMS)
- 6840 CHINA Hu-ho-hao-t'e, Inner Mongolia, 1030 CC HS, F (LM)
- 6973.8 CHINA Hu-ho-hao-t'e, Inner Mongolia, 1020 Mongolian HS, re-laying new RP Mongolian HS (cf 7201.7) //7201.7, P (LM) Survey.
- 7006vt CAMBODIA Vo the NUFK 1105, M talk, P (LM)
- 7050.2 CHINA Urumchi, Sinkiang Province, 1115 Uighur, M talk, F (LM)

1145-1205 Uighur, pips under mx, 1202 ID "Sinkiang Khalk Radyo Stanski", F (BBy)

41 Meter Band

- 7110 MALAYA RM-KL 1115-1130, ID/pips "Inilah Malaysia", nx (ECS)  
 7125 GUINEA R Conakry 0100-0125, Af mx, no ID, QRM (JPR)  
 7140NF AUSTRALIA RA 0900 EE/As, E (BF) 1130 EE, lbx, F (RZ)  
 7145 AUSTRALIA RA-Darwin 1643 EE, test match (RFB)  
 7165.6vt INDONESIA RRI 1105-1120, modern As mx, QRM Okinawa, P (LM)  
 Cf Sept LR-10. Is definitely Kapung, an authoritative individual confirms for me, is listed 5 kw (ARN) But is Djajapura per Anker Petersen (WRTH-73) 1 kw, also IDs in Truk often as Djajapura, WRTH-73 no longer lists Kapung (BBy)  
 7170RF N CALEDONIA ORTF-Noumea \*0600-1105\* FF //11710 (MN,RZ,MD)  
 7180 POLAND RP HS 0550 Polish, talks, Eu mx, heavy fading (BP) \*0530-1445\* (BBC MS)  
 7183.4 SRI LANKA R Ceylon 1255-1302 EE/India //9718.3, requests, BBC nx, P (BBy)  
 7195 JAPAN NHK 0945 CC/SEA, F (RZ)  
 7200 SUDAN Omdurman 0340 AA, nx, G (ARN)  
 7201.7 CHINA RP 1025 reactivated (since 1966) Mongolian HS //6973.8 relay (likely fed by here), no //s emanating from Peking per BBC MS, P (LM) Thus RP HS is 2 CC nets & Mongolian, Uighur, Kazakh and Korean, maybe more to follow (Ed)  
 7214.7 BRUNEI R Brunei 1200-1430 AF, mx, talks, BBC nx (DCJ)  
 7215 S AF RSA 1635-1650\* EE, lbx (RFB)  
 7216 BLACK CLANDESTINE (S VIETNAM) Vo the Patriotic Militiamen's Front 1040-1105 VV, usual accordion IS 1100, not //9430v (per new sked), hets Brunei & maybe AFNT, P (LM)  
 7225 MORROCO MRT 2235 AA //9615 (BP)  
 7235NF NIGERIA ECSBS-Enugu \*0500 EE, lengthy IS, rel px (ARN)  
 7268NF ALGERIA RTVA 0630 //15410v & 2215 //7280NF AA (BP) 15420 drifting to 15388, 15410 to 15420, 11965 to 11905... (BBC MS)  
 7275 NIGERIA VoNigeria 0552 EE, bells, drum IS, NA, px (BLY) 0600-0700 EE, G (AS) Pse, only give times hrd, tnx (Ed)  
 7280NF ALGERIA RTVA 2205 AA //5993 (BP) Earlier given as 5998, is that drift, Bob? Would hardly be surprising, cf 7268! (Ed)  
 7290v MONACO TWR 0700-0715 EE, "This is Monte Carlo", F (AS)  
7300 - 9499.9 kHz  
 7335 CANADA CHU "quite often" FF/EE, G (HF) Must have times, OM (Ed)  
 7440 USSR RM 0900 RR, "Govorit Mockba", strong, must be on Pac coast (SK) First Px (BBC MS)  
 7462v UNID AS 1000-1157\* neo-Vietnamese dialect, not Meo, As mx, talks, no ID, Haiphong, Quang-Tri, Giai-Phong and other clue names hrd, oft followed by dramatic gong, no ads, no //s, seems 15-20 kw, likely pro-Western propaganda stn, possibly clandestine, first noted 8/27, P ECNA-F Truk (LM,BBy)  
 7520vNF CHINA RP HS-1. Cf July LR-7. \*1100 CC //7504 etc, ID "Chung-yang JKT", apparently mx px were tests, not jammers (LM)  
 7520 BLACK CLANDESTINE (USSR) Fighters 1048-1057½\*, anthem, re-activated (SK) Not noted here several checks, but BBy notes R Red Flag reactivated on 995 MW 1200,1230,1300,1330,1400 (Ed)  
 7545v N VIETNAM VoV 1125, W cmt, G (ECS) Laotian //10150,7080, 4683v, complete sked available from Ferguson at HQ (BBC MS)  
 8195 CHINA Fukien Front Stn 1030 CC, ID by M&W, martial mx, F (LM)  
 8240 CHINA RP 1021 Cantonese (list), W talk, CC rev mx, P (LM)  
 8418 ESPIONAGE 2306-2341\* SS, Ravel's Bolero by orch, ticks 8 per 5 secs, 1-10 & 10-1, few 3# grps, then many 4# grps, E (LM)  
 8425 CHINA RP 1027\* Malay, ID "Inilah R Peking", Int, P (LM)

And so ends another "lower half"! Many warm thanks to you all for your excellent contributions and regular support. Now, if you will pass on to the next page, Dan Henderson will present you the "upper half"...

9000-9495 KHz

- 9009 ISRAEL IBA, 0410-0446\* RR Yiddish ID, P, //9625, 11855 (LM)  
 9020t CHINA RP, tentative here with 2nd Network, 1245 CC talk by OM, F(HS)  
 9029X ESPIONAGE Station 0513-0551\* Polish/Czech YL talk, mx G(LM)  
 9064 CHINA RP, tentative 1st Network, 1240 CC talks YL/OM, F, //11290 (HS)  
 9250 WGERMANY RFE, 0410-0510 Rumanian USB, ID, Ute QRM P(LM)  
 9360 SPAIN RNE, 0240 SS talk, mx, G(RD)  
 9350v CHINA RP, 1725\* RR (BBY) out of order--ED  
 9422X CLANDESTINE(CHINA) V. of Thai People, \*1000 Thai, \*1100 White Meo, chimes, IS, nx, P(LM)  
 9430 ELACK CLANDESTINE (S.VIETNAM) V. of Patroitic Militiamen's Front, \*0857-0915-0955\* varies to 1005\*, \*1400-1600\* Drumbeat IS, P(LM, BBy)  
 9455 UNID 0410 AA ME and pop music, jammed(NAP)  
 9475 EGYPT RT, \*0200-0330\* nx in EE, mx, E(DS, MWi, RZ, MM, Bly, DCJ, PP, KR)  
 9480 ALBANIA RC, \*2200-2230\* EE pgm(WJF)  
 9480 CHINA RP, \*1300 RR (BBY) Program details?--ED.  
 9490 TIBET Lhasa 1035-1102 CC talk, QRM de RP RR Scvc P(LM, DH)  
9500-10,000 KHz
- 9500 ALBANIA RT 2200 Lingo, IS, talk, jammer at 2210, P(RZ)  
 9505 BRAZIL R. Record, Sao Paulo, 0935 PP nx after NHK s/off, rare (BP)  
 9505 JAPAN NHK 0900 EE nx, cmtry, G(JPR), 1000 EE nx (RZ)  
 9505a DOM REP RTVD, 0135 SS soccer G(FH), 1500 SS ID, talk P(JPR), 2300 SS reg. scvc (MAF, AS)  
 9505 GUATEMALA TGNA 0301 EE ID F(PP)  
 9510 WGERMANY DW 2200 EE nx P(RZ)  
 9510 VENEZUELA R.Barquisimeto 1200 SS nx G(RZ)  
 9510 ALGERIA RTVA 2000 FF ID F(AEW)  
 9510 ASCENSION IS. BBC relay, 0200 EE nx (AS)  
 9515 N KOREA RPyongyang, 1200 EE nx, cmtry (RZ)  
 9520 PAPAUA ABC 0700 EE pop mx, P(MD)  
 9520 N ZEALAND RNZ 1025 EE nx, ID, F(MD), 1145\* to Australia F(RZ)  
 9520 USA UN Radio 0700 EE nx, ID, F(WWS)  
 9520 PERU R. LaCronica, OAX4J, 1120 SS ads, nx, F(RZ)  
 9520 SPAIN RNE, Madrid, 0405 SS nx, mx, 0414 ID G(NAP)  
 9520 FRANCE ORTF \*0600 FF, F(CG)  
 9525 JAPAN NHK 1200 FF/SEAsia, P(RZ)  
 9525 INDIA AIR, Aligarh, 2200 EE nx//11620 P(RZ)  
 9525 CUBA RHC 0630 EE/WCNA, nx, cmtry, G(MW1)  
 9525 POLAND RW 2325 SS G(ARN)  
 9530 USSR RM 0000 EE nx G(RZ)  
 9530 KIRGHIZ SSR RM(Frunze list) 0120 EE nx, G(AF), F over jammer (FH)  
 9535 INDIA AIR Delhi, 1215 EE wx, nx F(RZ), 1234 into language F(NAP)  
 9535 SWITZERLAND SBC 0145 EE "Dateline" G(PP, GB)  
 9535 ANGOLA EO, Luanda, 0545 PP ID, G, blocked 0548 SBC s/on (BP)  
 9540 N ZEALAND RNZ 0555 IS, P(WWS), 0700 EE/Pacific, mx, ID//6080 F(Mwi), 0800 EE talk, G(MW)  
 9545 CZECH RP 0135 EE talk, G(KR)  
 9545 W GERMANY DX 0130-0250 EE nx, mx, G(PP, FH, RZ), 0435 EE nx F(CG)  
 9545 GHANA RG, 2045-2215\* EE mx, nx to Europe F(JA, RZ)  
 9550NF LEBANON RB, 0230 EE nx F(BE, RZ), \*0305 SS ex-11955 (BP)  
 9550 BELGIUM RTB 0050 EE nx, mx, G(HF, RHX, MM, LVJ) 2305 EE talk F-G(RZ)  
 9560 JAPAN NHK 1300 EE nx, P-F(RZ)  
 9570 QATAR QBS \*0228 IS, AA chants P under RBucharest (ARN, ECS, DH)  
 9570 NIGERIA RTV Kaduna, 0530 EE nx, mx, G(JA)  
 9570 ITALY RAI 0100 EE nx (DCJ), 0135 FF nx (FH)  
 9570 ROMANIA RB 0220 EE sports, mx F(RZ)  
 9570v CHILE R Portales, CE957, 2330 SS talk, P(RZ)  
 9576 EL SALVADOR La Voz de Comercio \*1630 Relig. pgm (GAC)  
 9578NF ETHIOPIA VOethiopia, 1415 Somali mx (ARN)  
 9581X NICARAGUA R Mar, YNTP, \*1000x1600, SS ads, P-F(GAC), 1320 G during Solar activity(NAP, ARN) 1505 SS ID, het QRM F(CC)  
 9580 AUSTRALIA RA 1115-1215 EE nx G(RM)

9583a PHILLIPINES VOP, Malolos, 1100 EE mx, F before RA s/on (RZ)  
 9590 NETH. ANTILLES RB, Bonaire, \*0030-0150\* DD, \*0200-0320\* SS E(HF)  
 9585NF FINLAND RF 0215-0230 EE DX Pgm, ex-15185 F(BP) Out of Order--ED  
 9593v CHILE R. Presidente Balmaceda 0005 SS ID, F(AEM), 1020 SS singing, ID  
 F(EL)  
 9595 JAPAN NSB 0950 EE lesson ID, TC, G(JLK), 1045 EE lesson G(AR)  
 9600 MEXICO XEYU, 1400 SS Class mx TC IS(CG)  
 9600 JAPAN NHK \*1000 PP "R Nippon" G(AR)  
 9600 BLACK CLANDESTINE(USSR) R. Sparks 0906\*(SK)  
 9605 ECUADOR HCJB 0542 EE Reg. Pgm VG(HS)  
 9610 AUSTRALIA ABC, Perth 1300 EE mx, nx, G(FH, MWI)  
 9615 MORROCCO RTM, Tangiers, 0245 AA chants, G(RZ, ARN)  
 9620 YUGOSLAVIA RB, \*2158-2230\*, EE nx, FF 2215 E(JA, AEL, RZ, FH), 0011 SS  
 talk P-F(AAM)  
 9620 BRAZIL R. 9 de Julho, 0302\* PP mx, ads, 0935 JJ F(BP)  
 9620NF E GERMANY RBI 0235 SS/SA, //9645 (BP)  
 9620 FRANCE ORTF 2038 EE "Paris Calling Africa" P(MN)  
 9620 VENEZUELA R. San Rafael, 2230 SS nx, ID, covered by DW 2243, P(FH)  
 9623v PERU R. Atlantida, 0245-0305 SS ads, IDs, E during solar activity (ARN, BP)  
 9625 ISRAEL IBA 2035-2115\* EE ID IS, talk, F-G (CC, PP, JDT, AAM, RZ) P\*F(KR)  
 9625 MORROCCO VOA, Tangier 0545 EE ID, G(KR)  
 9625 CANADA RCI 0000-0056 SS/LA, 0100-0158 EE/NA G(HF, MM), 2316 EE, RCSWG,  
 E(HS)  
 9630 CZECH RP 0330 EE talk F (GB)  
 9635 COLOMBIA RN, HJCQ, 0300 SS ID, 1140 SS mx, F(RZ, EL, ARN), 2345 SS ID(AEM)  
 9635 CANADA RCI 0100 EE nx, E (RHX)  
 9635 BRAZIL R. Aparecida 0950 PP ID, F(JPR)  
 9640 S KOREA VOFK 1200 EE nx, F-P(AEL, RZ, JPR)  
 9640 INDIA AIR, 1345 EE mx, ID, cmtry, P(KR)  
 9645NF NORWAY RN 0505 NN nx/Pac, WCNA, ex-11850, G(BP)  
 9645 CHINA RP, \*1600 RR ID(BBy)  
 9650 EGYPT RC, 0355 AA chants, QRM RBI (ECS)  
 9650 GUINEA LVoice de la Rev, 0330 FF Afro mx, F(RZ), 2120 FF Af mx, F(EL)  
 9650 E. GERMANY RBI 0330 EE nx to 0410\* (DCJ, CG, PP)  
 9650 USSR RM 2146 FF talk (FH)  
 9655t SYRIA RD, 2100 EE ID, YL under DW P(DH)  
 9660 VENEZUELA R. Rumbos 0948 SS ID, mx F(HS), 1129 SS nx ID, F(EL), 2130 SS  
 nx F(FH)  
 9660 AUSTRALIA ABC VLQ9, 1045 EE mx F(RZ)  
 9660 ENGLAND BBC 2143 EE IS, ID G(FH)  
 9665 USSR RM 2338 EE talk F(HS)  
 9665 PERU R. Eco, 1745 SS mx, ads ID G(GAC)  
 9670 JAPAN NHK 1640 EE nx, P\*F(NAP)  
 9670 PORTUGAL IBRA 1945 EE Rel. pgm, mx, interview, (AEM)  
 9675 POLAND RW, \*2030 EE nx, F(RD), 0300 EE nx/NA, F(RZ)  
 9675 BRAZIL R. Diario da Manha, ZYT29, 0915, 1015 PP talk, TC, Braz. mxP(SK,  
 EL, RZ)  
 9675 PERU R. Del Pacifico OAZ4L, 1145 SS mx, talk, P(RZ)  
 9680 AUSTRALIA ABC, VLH9, 0945, 1200, 1330 EE nx, mx G-P(FH, HS, MM)  
 9680 AUSTRALIA RA-Shepparton, 1531 EE nxreel, G(BBy)  
 9685 USSR RM, 0003 EE nx, talk, F(HS)  
 9690 ARGENTINA RAE 0545 SS mx, talk, G(ECS)  
 9695 BRAZIL R. Rio Mar, ZTB22, 2230 PP talk P(RZ)  
 9695 S. AFRICA RSA 0015 EE mx, talk, F(HS)  
 9700 BULGARIA RS, 0000 EE nx, mx, G(RM, HS, PP), \*0400-0430 EE mx (WJP), 2145  
 EE mx G(RZ)  
 9700 AUSTRALIA RA-Darwin, 2200 Indonesian IS, P(RZ)  
 9700 CANADA RCI, 0100 EE sports P(RZ)  
 9705 INDIA AIR, 1230-1315\* Tibetan Pgm, mx, G(ESB)  
 9705 MEXICO XERMX, 1400 SS/EE ID, mx G(KR)  
 9710 MAURITIUS MBC, Forest Side, 1123-1150 Indian type language, songs, ID  
 1130, tip from Henderson (LM), 1247-1254 Indian type mx, P(NAP), 1300\*  
 with ID, anthem (DH, FH)  
 9710 ITALY RAI \*2230-0100\* II, \*0100-0120\* EE G(HF)

9710 PERU R. Tropical 1545 SS mx, ID, ads, (GAC)  
 9715 CONGO REP. La Voix Rev, 1845 FF mx, drums, nx (AEM)  
 9718½ SRI LANKA R Ceylon 1245 EE mx, requests// 7183½ P(BBy, RZ)  
 9720 IRAQ RB, 1950 EE talk (AEM)  
 9730 E. GERMANY RBI 0300 EE talk, P(HF), 2245 EE nx F(HS)  
 9730 ETHIOPIA ETLF 0400 -0420 EE scvc, nx (DS)  
 9735 W. GERMANY DW 0440 EE nx, cmtry F(CG)  
 9738V TAHITI RT 0400-0420 Tahitian pgm, mx(ESB), 0820-0900\* FF//11825 F(LM)  
 9740 MALAYSIA BBC relay, 1300 EE nx P(RZ)  
 9745 IRAQ RB 1930 EE nx, mx, F(WWS)  
 9745 MEXICO XERMX, 1600 SS mx, F(CC)  
 9755 VENEZUELA R. Occidente 1930 SS Bullfight up from 9750 list F(GAC)  
 9765 W GERMANY DW, 0435 EE Olympics E (DCJ)  
 9770 AUSTRIA ORF, 0043 EE\*/SS F(GB)  
 9776 CHINA RP, 0335 EE mx, talk, F (DS)  
 9776 CLANDESTINE(BULGARIA) V of Truth, \*0510-0545\* ID, P(SK)  
 9778v ALBANIA RT, 0000 EE nx, cmtry, E (PP, HS), 0300 RP relay, EE nx/NA (PP)  
 9805 EGYPT RC, 2230-2300 EE/Europe, mx, nx, G(WJP, AEM, HS)  
 9820t CHINA RP HS, 1130-1230\*, CC mx (BBy)  
 9820NF CHINA RP HS 1300-1345\* IS, CC ID E(BBy), Uighur HS(BBC-MS)  
 9833 HUNGARY RB 0100-0130 EE, 0200-0300 HH, 0400-0430\* EE nx(HF, DCJ, NAP)  
 9912 INDIA AIR, Delhi, 2200 EE nx, cmtry, P(RZ)  
 9920 CHINA RP, 1230 CC nx, mx(WT)  
 9930 CHINA RP, 1159\* FF, EIR, \*1200 JJ F(FH)  
 9935 PORTUGAL RP, 0200 EE 2 Sept, transmitter problems (AS)  
 9965 CHINA RP, 1158\* lingo, not//9930 (FH)  
 9990 CHINA RP, Kunming, 1145 CC talk, YL singing, F(FH)  
 10000 HAWAII WWVH, 0430-0500 TC, F-(RD, AS)

10004-11700 KHz

10004 USSR RKM, Irkutsk, TC CWID 2220 (FH)  
 10010V CAMBODIA Liberation Radio 1430-1500 EE to GI's G(BBy), not there 1600(BBy)  
 10043 N VIETNAM VOV 1530 EE nx, cmtry F(DCJ)  
 10060 CHINA RP (2 X 5030) 1615 EE, F with A-20(BBy)  
 10110 CLANDESTINE(RUMANIA) REI, \*1601 SS ID, SS mx, talk, P(BBy)  
 10650V PAKISTAN RP 1700 EE ID, mx F(BBy)--Shouldn't this be 11650V, Bob?  
 10660 CHINA CPA, 0040-0200 CC dictation nx, // 11120, 14416, 16105, 16342, 16373, 16435, 17221, 17504 (BBy)  
 10194VNF N.VIETNAM RHa noi, JJ scvc 1230-1500 F, //12017, 15008.5(BBy), ex-10176 (ED.)  
 11290 CHINA RP HS 1st Network 1235 CC YL talk F (AS)  
 11347 TAIWAN ESPIONAGE "KOS" \*1116 ID/anthem YL/vocals, jammed (SK)  
 11506.2 CLANDESTINE R. Portuguese Livre, 1951 PP talk by YL, E, //15484 (DH)  
 11576 W. GERMANY RFE 0015 GG/RR talks, G(PP)  
 11620 INDIA AIR, 2050, 2133, 2200 EE nx, mx, cmtry(DH, RZ, JDT), 1230 language ID, mx VP(RZ)  
 11630 EGYPT RC 0105 FF ID, 0145 AA, E(EL, HS)  
 11650 CHINA RP, 1330 EE talk, P, QRM (NAP)  
 11650v BANGLADESH RB, \*1715-1800\* EE nx, cmtry, F(BBy, DCJ)  
 11672 PAKISTAN RP 2000 EE, 2100 GG nx, talk, F(JA, AEM)  
 11685 CHINA RP, 1253\* EE/NA F(HS)  
 11697 ECUADOR HCJB, 0332 EE talk, transmitter problems (NAP)

11700-12000 KHz

11705 SWEDEN RS \*0330-0400\* EE/WCNA nx, mx F-G(MW1, GB, RHX), \*2144 IS under R Moscow(FH)  
 11705 USSR RM 2141 EE talk, F(FH)  
 11705 N ZEALAND RNZ 1000 E<sup>2</sup> nx F(RZ)  
 11705 JAPAN NHK 1230 RR ID to Asia, F(RZ)  
 11710 N CALEDONIA ORTF 0930 FF talk, F(RZ)  
 11710 AUSTRALIA RA 1130 EE ID, nx G(GB, PP, RHX)  
 11710 ARGENTINA RAE 2310 EE nx (WJP)

- 11710 INDIA AIR 2328 EE ID, F(PP)  
 11715NF ISRAEL IBA RR 2210-2251 test G(LM)  
 11715 SWITZERLAND SBC \*0145-0215\* EE/NA, nx, mx, P(MWI)  
 11719 INDONESIA RRI, 1330 Indonesian mx, F(ESB)  
 11720 ISRAEL IBA, 2035 EE 2115 FF, 2200 RR, G(FH)  
 11720 CANADA RCI 0340 Eskimo talk F(HS)  
 11720.2 BRAZIL RN, 0800 PP HS F(LM)  
 11725 AUSTRIA ORF, 0330 EE mx/SA F(RZ)  
 11725 VATICAN VR 0050 EE E(RHX, RM, AF)  
 11730 FRANCE ORTF 0135-0200\* FF/SS lesson VG(RZ)  
 11730 HOLLAND RN \*2130-2250\* EE nx, mx, talk, G(MM, PP, MWI)  
 11735 UNID 0135 AA chants, weak(HS)  
 11735 INDIA AIR, Delhi, 1225 EE nx, preview, P-F(RZ)  
 11740 ETHIOPIA ETLF, 1320 EE/Hindi test, G(BBy)  
 11740 VATICAN VR 2050 EE/Europe, Rel. program, E(JDT, MN)  
 11740 INDIA AIR, 2200 EE nx//9912, P(RZ)  
 11740 AUSTRALIA RA 1045 Indonesian nx, G(RZ)  
 11745 ECUADOR HCJB, 0000 EE pgm E(RM, WJP, KR)  
 11750 ENGLAND BBC 2300 EE WS, nx, G(PP)  
 11750 MALAYSIA BBC relay, 1030 EE, E(RHX), 1500 EE/WCNA P-F(MWI, MN)  
 11760NF ISRAEL IBA 2035 EE/Europe, G(LM)  
 11760 GREECE VOA Relay, 2200 EE nx, P(MN)  
 11760 CUBA RHC, 1705 SS mx (WJP), 2330 SS pgm (PP)  
 11765 BULGARIA RS 2100 EE nx, cmtry, P(RZ)  
 11765 AUSTRALIA RA 0715-0907 EE talk, mx, G(MN, NAP)  
 11770 MEXICO XERMX 1432-1600 SS,EE, FF ID, G(AS, FH, KR)  
 11775 INDIA AIR 1055 EE nx, pgm, preview, F(RZ)  
 11775V RUMANIA RB, \*1930-2030\* EE talk, mx, G(NAP, KR, WT), VP(WJP)  
 11775 SPAIN RNE, 0023, 0145 SS mx, ID, P(WT, MWI)  
 11780 JAPAN NHK 0944 IS, Oriental Lingo, ID, nx (NAP)  
 11780 ENGLAND BBC EE nx E(FH) time--ED  
 11780NF ECUADOR HCJB 0800 EE rel. pgm ex-11745 (BP)  
 11785 NETH ANTILLES TWR 2200 SS mx pgm (FH)  
 11790NF AUSTRALIA RA-Shepparton, 1100 EE ex7140 (BP, RZ)  
 11793 INDONESIA RRI, Djakarta, 1145 IS/chimes P-F(RZ)  
 11800 CANARY IS. RNE 0200 SS nx, mx, talk F-G(MWI, HF)  
 11805NF PHILLIPINES RVeritas, 2330 Lithuanian to USSR, ex15310, RGlobo QRM(BP)  
 11810 INDIA AIR, \*1328-1500\* EE to SEAsia, talk, nx G-E(MN, NAP, MAF, DCJ, JDT, RZ)  
 11810 JORDAN RA, 2120 AA chanting, nx (CC)  
 11810 ITALY RAI, \*0100 EE/NA nx, E(PP, WJP), 2230 II nx F(CG)  
 11815 POLAND RW, 0300 EE/NA F(RZ)  
 11815 JAPAN NHK 1300 EE nx to Asia (RZ), 1400 EE F(MN)  
 11815 PORTUGAL RFE, 1930 HH talk, F(HS)  
 11815 NETH ANTILLES TWR, 1207 EE DX pgm, F(DCJ)  
 11820 MEXICO XEBR, 2000 SS mx, LA talk, EE ID F-P(RZ, DCJ)  
 11820 ASCENSION IS. BBC relay, 0404 SS nx, P(CG), 1925 EE/Africa talk, F(HS)  
 11825 TAHITI RT, FF mx, /15170, F(WWS), time? ED.  
 11825 JAPAN NHK 1400 EE nx, cmtry, P-F(MN)  
 11830 OKINAWA VOA relay, 2255\* EE, P(MN)  
 11830V CLANDESTINE(CHINA) V of Malayan Rev, \*1030-1200\* on various days, EIR, G(ESB, ECS, SK)  
 11835 HAITI 4VER 0000, 1100, 1530 EE rel. pgm(GB, PP, RFB, FH), 0950 SS mx (NAP)  
 11835 URUGUAY CXA19, R. El Espectador, 0030 SS mx, talk, P(FH)  
 11835 SUDAN RO, 0405 AA chants, chimes IS, F(PP)  
 11835T PHILLIPINES RVeritas, 1230-1300\* VV mx, jammed F(ESB)  
 11837V UNID 1230-1300\* CC pgm, Taiwan? (ESB)  
 11840 PORTUGAL RP 0215 FF nx, cmtry G(CG), 0300 EE nx, G(PP)  
 11845 CANADA RCI 1831 EE/Africa G(HF), 1923 FF/Africa E(HS)  
 11850 INDIA AIR, 1225 EE nx, program preview, P(RZ)  
 11850 LITHUANIAN SSR Rvilius, 0032 EE/NA, IS, nx(PP)  
 11850 GHANA RG, 2000-2100\* EE nx, E(NAP, PP)

- 11850 MALAYSIA BBC relay, 1915 EE talk (WWS)  
 11855NF ISRAEL IBA, 0405-0445\* RR, 1940-2250 Hebrew/RR/EE/FF/RR, G(LM, ARN, BP, NAP, ED)  
 11855NF PHILIPPINES FEBC, 0900 EE nx, testing (BP)  
 11860 FRANCE ORTF, 0540 EE nx, sports, F/G(WWS)  
 11865 SWITZERLAND SBC 2100 EE talk, P-F(RZ)  
 11865 CANADA DW relay, 0350 GG talk, F(CG)  
 11875 JAPAN NHK, 0945 EE cmtry F(RZ), 1325 JJ/EE ID, F(JDT)  
 11875 NICARAGUA RN, 0430 SS mx, nx(CG), 1200-0600 SS pgm, G(GAC), 1313 SS mx (FH, CC)  
 11875V ANGOLA EO, 0725 PP, US music, G(CC, ECS)  
 11880 TURKEY VOT, 0353 EE nx/wx, VG(JDT, ECS, RHX, MWI), 1920 TT chants, E(HS)  
 11890 PHILIPPINES FEBC 0830, 0930 EE rel. pgm, F(RZ, MD), 1648 EE hymns, talk, P(JDT)  
 11890 ETHIOPIA ETLF, 0530 EE nx, ID F(WWS)  
 11890NF MALAGASY REP. RN relay, ex 7295 F(BP)  
 11900 MALAYSIA RM, 0720 EE YL talk, F(MN)  
 11900 USSR RM, \*0100 EE/NA VG (MWI)  
 11900 UKRAINE SSR RK, 0030 EE nx, E(DCJ, AS, PF)  
 11900 TUNISIA RTVT 1925 AA ID, chants P(HS)  
 11905 TAIWAN BCC 1100-1355 CC, 1400-1550 Asian lingo, 1600-1800 CC, //7150 (ESB, NAP)  
 11905 UNID AA chants, F(LM) time? ED.  
 11910NF CUBA RHC, 0430 EE/ECNA G(LM)  
 11910 HUNGARY RB, 0420 EE, DX pgm G(GB)  
 11910 MALAYSIA BBC relay, 1345 lingo to 1630 F(ESB)  
 11915 USSR RM, 1300/1400 CC//15170 (ESB)  
 11915 ENGLAND VOA, Wofferton, 1800 Greek talk (MM)  
 11920 PHILIPPINES FEBC 1230-1400\* EE/Asia, Rel. mx, wx(HS, NAP, AAM, JDT, MM, RZ)  
 11920 SPAIN RNE 2025 SS nx(BP), \*0100-0130\* EE nx, mx, ID, //6140 G(MWI)  
 11920 IVORY COAST RTI 0748 FF, Afr. mx, F(NAP, MWI), 1915 EE nx P(CC), 1947 FF mx, P(WJP)  
 11920NF USA KGEI 0420 SS mx, ex-15280 (BP)  
 11925 UZBEK SSR RT, 1200 EE nx, mx, cmtry, F(LVJ, HS)  
 11925 SPAIN RNE, \*0200-0300, EE, nx, cmtry, //6140 (DCJ, WJP)  
 11930 CUBA RHC, 0517 EE/Africa, nx, mailbag, E(MN)  
 11935 AUSTRALIA RA, 1330 EE talk, nx(ESB)  
 11935 PORTUGAL RP, 0200 EE nx, mx, G(HF)  
 11935 S. AFRICA RSA, Springbok Radio, 0630-0715 EE pops, ads, F-G(NAP, DCJ) 1315 EE mx, F(RZ)  
 11940 SINGAPORE RS, 1402, 1502 EE pop mx, F(JLK, NAP)  
 11940 ROMANIA RB, 1320 EE pgm, P(CC), 2100 EE nx, F(MN, DCJ, RZ)  
 11940 AUSTRALIA RA, \*0930 EE, IS/pop mx, W(MD, RZ), 1330 CC to 1500\*//9590, (ESB)  
 11948 PARAGUAY R. Encarnacion, 2323 SS, ID under RCI splatter P(DH)  
 11950 LIBERIA ELWA, 0230 EE rel. pgm, mx, G(MWI)  
 11950 S.VIETNAM VTVN 1300 VV pgm, mx, F(ESB)  
 11950 USSR RM, Majak pgm, 1920 RR talk, G(HS)  
 11955 MALAYSIA BBC relay, 1300 EE nx, G(RZ, FH)  
 11955 LEBANON RB, 0230 EE nx, mx(MN, DCJ, WJP)  
 11955 SEYCHELLES FEBA 1732 EE rel. pgm, P(AAM)  
 11965 FRANCE ORTF, 0100 SS/LA G(HF), 2200-2330\* FF/NA test E(LA)  
 11965 RWANDA DW relay, \*2030 GG nx, talk, E(WJP)  
 11965 USSR RM, 1912 Hausa nx, ID, songs, F(HS)  
 11970 S. AFRICA RSA, 1910 EE nx, F(HS)  
 11973vNF PAKISTAN, RP 2115 Sylheti to Europe//11672v F(LM)  
 11975 WINDWARD IS. WIBS, 0130 EE nx, pgm F(RZ)  
 11980 USSR RM, RP & P, 0020 EE nx "US Spies in India" (WT), 0400 SS/LA (AS)  
 11990 CZECH RP 0107, 0300 EE nx, talks, G(GB, PP, KR)  
 11995 ECUADOR HCJB 1155 Korean rel. pgm, F(ECS)  
 12000 AUSTRALIA VNG 0820 EE t/e G(MD)

12008 N. VIETNAM VOV, 1300 EE, 1330 FF(ESB)  
 12012V COSTA RICA R Relog(2 X 6006) 0230, 0605 SS LA mx, G(JDT, NAP)  
 12040 USSR RM, 1527-1600 RR, piano mx, IS talk, (JDT)  
 12095 ENGLAND BBC, 0525 EE "letterbox" P(HS)  
 13200V CANADASTINE R.Euskadi, 2240 SS propaganda, E(AEM)  
 13930 UNID VV type pgming, 0845 P(BBy)  
 14776 ESPIONAGE "Espanimeros" 0625 SS cipher group G(GH)

15000-15525 KHz

15006 N. VIETNAM VOV 1306-1328\* EE talk, mx, G(JDT)  
 15055 EGYPT RC 1540-1600\* ME lingo, mx, P(JDT)  
 15070 ENGLAND BBC 1818-1930 EE pgm, mx E(FH, MM)  
 15080 INDIA AIR, Bombay 1800, 1900 EE nx, cmtry, F-P(DCJ, NAP)  
 15084 IRAN RI 1302 Persian ID, mx, G(JPR), 1700 Farsi G(AEL), 2045 talk, mx, E(MN), 0106 Farsi Iranian mx, G(WT)  
 15095 CHINA RP, 1207 EE nx, //15240, G(NAP)  
 15105 JAPAN NHK, 0300, 0400, 0500, 0600 EE nx, 15 min into JJ G(JA, CG), 1600 EE nx, F(RZ)  
 15105 BRAZIL R. Rural Brasileira, 2140 PP pop mx, ads, P(AEM)  
 15105 WINDWARD IS WBS 2105 EE ads, TC, P(AEM)  
 15105 SWEDEN RS, 1230 EE nx, cmtry, P(RZ)  
 15105 ASCENSION IS BBC relay, \*1914 EE IS, ID language nx (RD)  
 15110 N. ZEALAND RNZ 0330-0400 EE nx, tc, wx, mx, G(MN, JA)  
 15115 ECUADOR HCJB, 0100-0200 EE nx, mx, rel. pgm //11745 E(HF, Mwi)  
 15118V SRI LANKA RC, 0030 EE ID, mx//9720, 6175 P(Mwi), 1630-1700 EE ID, "World Tomorrow" G(ESB, DCJ, JLK)  
 15119~~NF~~ CHINA RP, \*0930 Tagalog //12110 G(LM)  
 15120 VATICAN VR \*1400 EE rel. nx, pgm, P(JPR, JDT)  
 15120 FRANCE ORTF, 2100 FF ID, E(GB)  
 15125 MEXICO RM, XERMX, 0030. 0300-0400 EE/SS ID, SS mx, F-G(JA, DCJ, CG)  
 15125 UNID 0755\* SEAsia mx, P(NAP)  
 15125 PORTUGAL RP, 1543 PP mx, nx (JDT)  
 15140 USSR RM, \*1100 EE IS, nx, F(MN)  
 15140 AUSTRALIA RA, 1200 EE nx, F(RZ)  
 15140 SPAIN RNE, 0357-0400 SS F(CG)  
 15144V E GERMANY RBI 0415-0530\* GG (ESB)  
 15150 W GERMANY DW, Wertachtal \*2315 PP/SA, test (BP)  
 15155 BRAZIL R TUPI, 0100 PP Sports (WJP, CG), 0330 PP ID, E(JA), 2230 PP nx, talk, mx (DCJ, AEM)  
 15160 AUSTRALIA RA, 0400-0600 EE nx, mx, ID, F(CG, Mwi, MN)  
 15160 MEXICO LA Voz de Americana Latina 1500 SS mx, talk, P(RZ)  
 15165 DENMARK RD, 1130-1330 EE ID, DD/Greenland F(PP, ARN, WT), 1828 EE ID, DD/Africa (NAP)  
 15170 TAHITI RT \*0300 Tahitian, EE mx, G(PP, DCJ), 0530 FF mx, talk, E(MN)  
 15175 NORWAY RN 2200 EE ID, pgm, EE on Sundays only F(PP)  
 15180 S AFRICA RSA 1905 EE/Europe, nx, mailbag (RD)  
 15185 FINLAND FBC 1800-1830, 2300-2330 EE/Europe, NA, F-G(DCJ, MN, RZ, GB, PP)  
 15185 NIGERIA VON \*0530-0735\* EE nx, talk, mx E(NAP, DCJ)  
 15185 USA WINB 2130 EE rel. pgm. (MM)  
 15190 CONGO ORTF, R.Brazzaville, \*0500-0515\* FF, \*0515 EE nx, mx F(Mwi, MN, DCJ)  
 15190 POLAND RW 1400\* IS(ESB)  
 15195 TURKEY VOT \*2200 EE nx, cmtry, (WJP, AS, RZ, GB, PP, DCJ)  
 15195 JAPAN NHK \*0758 IS, EE nx, Gen Scvc, //9505, 17855 G(NAP)  
 15200 VATICAN VR 2200-2240 EE rel. nx, F(ARN, RZ)  
 15205 USA VOA 0200 EE Breakfast Show (HF)  
 15205 INDIA AIR 1055-1100\* EE nx summary F(RZ)  
 15205 BRAZIL UNID 2300 ances as "Agencia Nacional Brazilla" (AEM)  
 15210 AUSTRIA ORF 1932 GG, Bavarian mx, //15335 (JDT)  
 15210 VATICAN VR, 1615 EE rel. pgm, F (RZ)  
 15210 USSR RP & P, 1058\* EE ID, IS, F(MN)  
 15225~~NF~~ PHILLIPINES FEBC 2345 CC scvc (BP)  
 15230 AUSTRALIA ABC, VLH15, 0600 EE nx, mx, TC, E(MN)  
 15235 INDIA AIR 0100-0115\* EE nx, cmtry, mx, F(RZ)

15235 BELGIUM RTB 0050 EE nx/NA, pgm F(PP), 2300 EE mx, talk G(DCJ, MWI)  
 15235T THAILAND RT, 1140, Language not Hindi, mx typically Thai, no ID hrd,  
 nothing on 11910 (ECS)  
 15240 SWEDEN RS \*1500 FF/SA, G(FH), 1830 EE nx/Africa, F(RZ)  
 15240 AUSTRALIA RA 0510 EE nx, G(CG)  
 15250NF AUSTRIA ORF, 0155\* GG/Camerica, ex15145 E(BP)  
 15250 ROMANIA RB, 0658 EE/Australia, NZ, talk, F, 1300 EE nx cmtry (MM, BP)  
 15250 ETHIOPIA ETLF 0430 EE ID into lingo talk, F(GG)  
 15255 NETH ANTILLES TWR 1410-1424\* EE rel. mx, nx(JDT)  
 15260NF BELGIUM RTB 0720-0735\* DD, talk, mx, ID (BP)  
 15260 ASCENSTON IS BBC relay, 2000 EE nx, cmtry, G(JPR), 2324 EE WService  
 relay (RD)  
 15265 AFGHANISTAN RA 1800-1830 EE nx, cmtry, mx P(NAP, DCJ, MN)  
 15265 SEYCHELLES FEBA 1236-1300, 1530 rel pgm, nx F(NAP, DCJ)  
 15270NF CUBA RHC 0440 EE/ECNA, //11760 G(IM)  
 15270 USA KGEI 0145 SS classical mx, G(CG)  
 15274 URUGUAY SODRE 2256 F/I SS classical mx P(DH)  
 15275 PHILLIPINES FEBC 2340 Thai scvc noted testing (BP)  
 15290 SYRIA RD, 2002 AA, me mx, ID, talk, P(JDT)  
 15295 SWEDEN RS, 0030-0100\* EE nx, mx/NA (FP, NAP), 0105 Swedish mx, nx(WT)  
 15305 SWITZERLAND SBC 0145 EE pgm(PP), 2100 EE nx, cmtry G(MM, NAP)  
 15310 GUINEA RDN, Conakry, 0200 FF nx, talk, past 0500 one day only, 0705  
 African lingo, mx, P(ESB, NAF)  
 15310 BULGARIA RS, \*2100 EE nx, cmtry, nx, F(NAP, RZ)  
 15310 MALAYSIA BBC relay, 1200 EE Radio newsreel F(RZ)  
 15310 INDIA AIR 1710 language mx, talk, G(MN)  
 15315 CANADA RCI 1035-1045\* EE test to Oceania (BP), 1645 EE/FF nx, E(H#)  
 15320 AUSTRALIA RA, 0100 EE talk, pgm, F(RZ)  
 15325 CANADA RCI 1510-1700 Czech nx, \*1515 EE/FF pgm, E(FH, HF)  
 15325NF BELGIUM RTB, \*2230 DD pgm (BP)  
 15330 MALAGASY REP. RN relay, \*1230 Indonesian Pop mx G(NAP, RZ)  
 15335 S KOREA VOFK \*0300-0330 EE nx, mx, talk, P(DCJ, MN)  
 15335 LUXEMBOURG RL 2345 EE mx//6090 P(RZ)  
 15335 INDIA AIR Delhi, 1330 EE nx, cmtry, P(RZ)  
 15335 FRANCE ORTF 1600-1830 European languages. ID, mx, talk, F(RZ)  
 15335 AUSTRIA ORF 1830 EE report from Austria P(RZ)  
 15337V BANGLADESH RB, 1500-1544\* Bengali pgm, ID, G(ESB)  
 15344 GREECE HNBI, 1927-2020 Greek nx, mx P(NAP), 2215 EE nx, into FF 2220(ARN)  
 15345 KUWAIT RK 0545 Pop mx, P(WWS)--Language?--ED  
 15345NF NORWAY RN, \*0000 EE nx, F(MN), 1500 NN mx, P(RZ)  
 15345 TAIWAN BCC, 0200 EE nx, cmtry, //17720, 17890 (DCJ)  
 15350V ROMANIA RB, 1315 EE mx, requests, G(RZ)  
 15360 MORROCCO RTVM, 1235 AA chants, P(JPR)  
 15360NF RP, 0145\* SS/LA, ex15355 (BP)  
 15365 CANARY IS RNE, 0200 SS pop SS mx, //11800 (DCJ), 0415 SS ID (AS), \*2000  
 SS ID G(JPR)  
 15365 PHILLIPINES VOA relay, \*2129 EE ID into Korean G(JA)  
 15385NF ITALY RAI 0145 II/SA, ex15315 (BP)  
 15388T CHINA RP list, 0035 EE, P, could be RTirana relay (NAP)  
 15388NF ALGERIA RTVA 0800 FF scvc //15405 (BP)  
 15400 IRAQ RB, 0300-0355 AA talk, nx, G(MN, PP)  
 15405 ALGERIA RTVA 0730 FF nx, F, blocked by RA-Shepparton 0745 (BP)  
 15410NF ALGERIA RTVA 0830 AA scvc (BP), 2300 AA talk, mx, F(MN)  
 15410 ALGERIA V of Palestine, 1900 AA chants, propaganda (AEM, MD), 0630 AA  
 chants, G(GH)  
 15410 LIBERIA VOA relay, 1700 EE nx, cmtry, G(MWI)  
 15415 BRAZIL R Clube Riberao Preto, 2105-0315 PP Brazilian pops, nx, G(BP),  
 2315 PP mx, talk, F(RZ)  
 15415 KUWAIT RK, 1700 AA ID, \*1715 EE(ARN), 1700 EE nx, mx, G(WWS, AAM, JDT,  
 RD).  
 15415 UZBEK SSR RT, 1300 Hindi, 1330 Urdu, //11925 (ESB)  
 15420 VATICAN VR \*0000 SS/SA G(RZ), 0056 EE rel mx (WJP)

15420 CYPRUS BBC relay, 0359 EE ID, BBC nx, G(JA), 0520 EE morning show, (WWS)  
 15425 AUSTRALIA ABC, VLW15 0700 EE mx (DGJ), 2340 EE interview, P(RZ)  
 15425NF E GERMANY RBI 0730\* EE, \*0730 Hindi (BP)  
 15430 PAKISTAN RP 1230-1255\* EE nx, ID into lingo 1234 (NAP)  
 15430 INDIA AIR, Delhi, 1225 EE pgm preview, wx, nx (RZ)  
 15435 MALAYSIA BBC relay 1200 EE nxreel, P(RZ)  
 15435 TANZANIA RT, 1655-1730 EE, mx, nx, F(MD, JPR)  
 15440 PHILLIPINES FEBC 1200-1345 EE rel pgm, nx, ID F(RZ, MD, NAP, JPR)  
 15445 LIBERIA VOA relay, 0000\* EE, ID G(RD, WWS), 1730 EE nx, (AS)  
 15445 USSR RM, 1830 EE/Africa news, G(FH)  
 15448V BRAZIL RN de Brasilia, 0000, 0346, 0400, 2105 EE/PP announcements, mx G(BP, MN, AEL, JA) QSL without 5 IRC's (AEM, DH)  
 15455 USSR R MAJAK 1825 RR mx, IS, nx(FH)  
 15455 USSR Radiostanzia Atlantica, 1630 RR ID opera mx, F(WWS)  
 15475 EGYPT RC 1620-1630\* AA mx, F(WWS)  
 15499A CHINA "CJKT", Chunguang Khalk Radyo Stanski, new Home Service \*0030-0115\* CC ID (BBy), \*0130-0218\* 2nd transmission Kazakh, ID sounds "Guberit Khalk Programanun Hochimeo Baina"(LM)--Whew!!-ED  
 15500 COLOMBIA RN 2345-0245 SS LSB feeder to Atlantic coast stations in Colombia, ID, E(LM, NAP)  
 15505 USSR RM, 0237 RR FF songs 0257 IS, ID, VG(PP, JDT), 1130 RR organ mx-Majak Program F(ECS)  
 15510 CHINA RP 1235-1330 EE talk, F-P (MD, NAP)  
 15523V PAKISTAN RP 1745 EE nx (DGJ), 2000 EE nx, cmtry, F(MM, JA, RZ)  
 15520V BANGLADESH RB 0230 EE nx P(RZ)

17600-18000 KHz

17655 EGYPT RC 1600 mx, cmtry, P(RZ), 1844\* EE E(JDT)  
 17670 EGYPT RC 1850-1900\* AA talk by M ME mx E (JDT)  
 17710A USSR RM 2110 EE/Africa, P(KR)  
 17715 CHINA RP, 0100 EE nx, cmtry, to NA, CC mx//17855,(PP), 2140 EE, CC mx F(NAP)  
 17720 USA WINB 1600-1800\* EE ID, frequencies, F(KR)  
 17720 TAIWAN BCC, 0210-0247 EE nx, 2100 EE, QRM de HNK, F(MN), 0250 EE items features, CC mx, //17780, 17890 (NAP)  
 17730 FRANCE ORTF 1100 EE/Africa mx, sports, P(RZ)  
 17755 ITALY, RAI 1400-1410 II, IS, ID, latin mx, cmtry, (WT, KR)  
 17770 AUSTRALIA RA 0100-0300\* nx, mx, commtry, //15320, 21740 G(MWI)  
 17770 N ZEALAND RNZ 0340 EE, soccer game, nx, P(PP)--transmitter 7.5kw ED.  
 17780 AUSTRIA ORF \*1357 Language IS, QRM de 17775, VOA s/on (NAP)  
 17800NF FRANCE ORTF 2225 FF, variety pgm, //17765, relay HS (BP)  
 17800NF NORWAY RN to EAfrica, ex21730,\*0500 P, 0600 E, daylight path (BP)  
 17805NF SPAIN RNE \*1300-1425 SS mx, all SS G(MR, ARN, RZ)  
 17810 MALAGASY REP. RN relay, \*1357 IS, ID, EE nx, mx, Happy station to SEAsia, Sweden, //11740 (WWS, JDT, RZ)  
 17815 SWEDEN RS, 1230 EE, F(JPR), 1520 FF pop mx ID, (WWS, JDT)  
 17820 W GERMANY DW \*1240 Indonesian/Asia (RZ)  
 17825 NORWAY RN 1400 EE, Norway this Week, P (RZ)  
 17825 E GERMANY RBI 1825 EE nx, cmtry/Africa, F(RZ)  
 17845 INDIA AIR, 1225-1235 EE pgm preview, nx, P(RZ)  
 17865 USSR R Erevan, 0323-0328 EE nx/Europe, Tues, Wed, Fri, Sat, followed by RM Pacific Service (PP)  
 17875 LIBERIA VOA relay, \*1600 EE nx, mx, E (KR)  
 17880 JAPAN NHK 0200 EE nx/NA cmtry, F(JJ)  
 17880 ECUADOR HCJB 1230 ee/NA E(HS)  
 17895 VATICAN VR 1615-1635\* EE rel pgm F(RZ)  
 17920 EGYPT RC 1315-1430\* EE mx, AA/radio F(RZ, KR, NAP)  
 17935V BANGLADESH RB, 1230 EE nx, cmtry, F-E(RZ, KR, AEM, PP, NAP, MN)

21460-26100 KHz

21460 ECUADOR HCJB 2145 GG rel pgm, ID(GB)  
 21480 HOLLAND RN, Lopik, 1400 EE, Happy Station F(RZ)

21480NF MALAGASY REP RN relay, \*0800 Indonesian ID, \*0930 DD/SEAsia (BP)  
 21490 S AFRICA RSA \*0700 Afrikkans/Europe (BP)  
 21495 PORTUGAL RP 1405-1430\* EE pgm (WJP), 1725 FF, IS, pgm, E(KR)  
 21505 NORWAY RN, \*1900 NN testing, //21655, 21730, religious pgm (AVS)  
 21515 USA VOA, Greenville, 2130 SS/LA, rare (AVS)  
 21520 E GERMANY RBI 1315 EE nx/Africa F(RZ)  
 21520 SWITZERLAND SBC 1320 EE pgm, F (RZ)  
 21540 E GERMANY RBI 1400 EE nx/SEAsia, F(RZ)  
 21545 GHANA RG 1520 EE economic nx, G(AAM)  
 21580 W GERMANY DW 1320-1420 EE F(AVS)  
 21590 PAKISTAN RP 1330 EE dictation speed nx, G(RZ)  
 21595 CANADA RCI 2125 EE cmtry, G(JPR)  
 21600 ENGLAND BBC \*0715 FF relaying RCI (BP)  
 21605NF ALGERIA RTVA 0745 AA scvc//15\*10, G(BP)  
 21640 JAPAN NHK 0215 EE mx, P(RZ)  
 21645 FRANCE ORTF 1440-1715 FF/EE nx, wx "France Inter", G(KR, ECS, WT, AVS)  
 21645 USSR RM, Armavir(list), 1230/1700 RR IS under Paris P(AVS)  
 21680 FRANCE ORTF 1440 FF/EE pop mx, G(KR)  
 21680 CYPRUS BBC relaying RCI 1035-1100\* JJ/EE/FF, asking for reports E(AVS)  
 21680T USSR R BAKU believed QTH, 1010 and 1110 relay RM Majak RR, P(AVS)  
 21685NF KUWAIT RK 0850 AA mx, E (BP), 1345 AA mx, F(RZ)  
 21705 MEXICO RM 0005, SS mx, G(KR), 1438 SS mx G(AAM)  
 21730NF NORWAY RN \*1100 NN ME mx, ex 15345 F(BP)  
 21745 USSR RM 1130 RR IS P under RFE (AVS)  
 25620 HOLLAND RN, Lopik, \*1100 DD/SEAsia P(BP)  
 25790 S AFRICA RSA 1300 EE sports pgm F(RZ)  
 26045 USA VOA 1610 EE mx, nx, African Scvc E(NAP)

Thanks to the following DXers who made this possible:

AAM	A.A. Miller, OH/HRO500	HS	Harold Sellers, CT/Trio 9R-59D
AEL	A. Linsmeyer, IL/SW-4A	JA	John Alcock, FL/SX-43
AEM	A.E. Martin, England/AR-88	JDT	John Tuchscherer, WI/HQ-100A
AR	Al Reynolds, TN/SPR4, SX130	JH	Joe Helm, IN/SW-4A
ARN	Al Niblack, IN/SX100II	JLK	John Kolb, CA/SW-4A
AS	Arthur Smith, AL/StarRoamer	JPR	Jim Ronda, OH/SW-4A
AVS	Al Sizer, CT/HQ-180, SPR-4	KR	Kieth Russel, IL/SX-100II
BBy	Bob Bundy, CT/SPR-4, R530	LM	Larry Magne, PA/R-4B, A-20
BE	Bob Estand, TX/	LWJ	Leon Jeter, IL/HQ-200, A-20
Bly	Brian Lynn, CA/DX-120	MAF	Marlin Field, MI/SX100II
BF	Bob Padula, Australia/CR100	MD	Mark Duba, VT/SX-190
CC	Charles Conner, LA/SW-4A, DX-150	MN	Mike Nikolich, IL/SX-190
CG	Ciro Guarducci, BC/HA-600A	MW1	Mike Wiseburg, OT/SX-190
CP	Carroll Patterson, GA/	NAP	Neal A. Purdue, TN/SW-4A
DCJ	Don Johnson, CA/	PP	Paul Palmer, LA/SX-190
DH	Dan Henderson, MD/HQ-180A, SX190	RD	Rich D'Angelo, NY/
DS	Don Schied, PA/HQ-145A	RFB	Robert Bruce, Scotland/Eddystone 830/7
ECS	Ed Shaw, VA/SX-190	RHX	Rob Harrington, CO/SW-4A
EL	Ernst Lohe, VA/GR-78	RM	Randy Malko, QB/SI-7
ESB	Ernie Behr, OT/	RZ	Robert Zilmer, WI/SPR-4
FH	Fred Heuette, DC/HQ-129X	SK	Steve Kamp, CA/HQ-140X
GAC	Gregg Calkin, MX/SW4A	WFB	William Higham, OH/Mic 32866A
GB	Gordon Brill, WI/S-120A	WJP	William Plum, NJ/WR-600
GH	Glenn Hauser, TX/	WT	W. Trkula, PA/SPR-4
GLD	Gerry Dexter, WI/HQ-180	WWS	Woody Seymour, NC/SX-190
HF	????????????????????		
HMa	Hiro Matsuura, JA/A-2515		

Thanks to 51 reporters this month. My apologies to HF--whoever you are!! I would also like to thank local DXer Scott Reeves for aiding me this month. In between vacation QRM for trips, he surely helped me greatly! Remember, list the items in descending frequency order and please, put your names on each sheet!! Until next time----

Dan Henderson

## FLASHSHEET

FREQ: KCS

TIME:GMT

AL NIBLACK, EDITOR; 420 SHELBY STREET, VINCENNES, INDIANA.... DEADLINE 20-TH MONTH

SILENT RECEIVER: This month's FlashSheet is dedicated to the memory of Executive President Bill Hiddings. His policy of Unity and Friendship will be remembered by all those in our hobby, and cast an influence down through the coming years.

To the loggings-

- AFGHANISTAN Kabul with EE news, cmtry, music, on 15265, admidst QRM, at 1800, poor to fair lvl. (Ed Insinger, N.J.)
- ALGERIA 11965 VoPalestine S/on 1830, ex 15410V, AA, nx de Olympics. (Larry Magne, Pa.)
- ...11910.7V RTVA now here, ex 11920.5V, in Arabic sports, 1500. (Bill Berghammer, N.Y.)
- ...15225V RTVA, AA, ex 15368V, sports 1600, before VOA skip covers. (Bill Berghammer)
- ANGOLA Emisora Oficial, 3375, good lvl 2330-2354 with music in PP, S/off at 2355. (Fred Heutte, temporarily Quebec, Canada)...11875 ED, Luanda, logged with EE prgmg and pops at 1530, into FF at 1545. (Ralph Richards, Calif.)
- AUSTRALIA 11790 RA with folk music from 1330 //11765. (John Tuchscherer, Wisc.)... Sept. sked confirmed 11845 being Darwin Relay S/on 0930 EE, strong lvl. (August Balbi, Bangla)
- BANGLADESH 11650 QSLed! I am very happy with this one. (Ralph Richards) / Calif.)
- BOLIVIA 5015 R. Universo from 0440 tune 9/14, ID by YL, S/off 0501, SS. (John Tuchscherer)
- ...4845 Radio Fides all night, full ID 0745, all Spanish. (Bill Berghammer)
- BRAZIL 17815 R. Cultura reactivated here after long absence, 9/5. (Bill Berghammer)...
- 11785 R. Guaiba S/on 0800 in PP. IS of lite music, S/on by OM, then dance music // 5965.2. (Larry Magne)...11865 PRAS good at 2215 with PP news...15145 R. Jornal do Comercio, good with music, Mecad ad 2332, all PP. (Both credits to Fred Heutte Jr., D.C.)
- CANADA 5980 RCI with NFOQ 0715-0745 EE to Europe //9625, 9/4. (Bill Berghammer)
- CAPE VERDE IS R. Clube do Cabo Verde, 3883, now running past 2345, light music, PP, after years of S/off at 2300. (Fred Heutte Jr.) (NOTE: Fred's items reported from two QTHs)
- CHILE 9570A R. Portales from 0000 with musical prgm, SS, weak lvl. (Marlin Field, Mich.)
- CHINA RP HS-2, CC to 1125 sudden off, under Moscow, 15450; is listed by "official Chinese sources", sked "0000-1125\*." (Larry Magne)...I hear Peking HS-1, 7520 from abrupt S/on 1100. No regional ID at 1100, so presume is new Peking fqy. (Robert Bundy)
- COLOMBIA 6105 R. Vision with ID SS 1030, news and music. (Marlin Field)... / Truk
- 5017 Trans Caldas logged with SS pops, 0545, good though QRM. (Ralph Richards)
- CYPHUS 6005 BBC East Med Relay with WS in EE 0000, QRM de R. Reloj. (Ed Insinger)
- DAHOMY 4870M 2148-2158 uninterrupted instrumental music, ID 2200; religious talk in vernacular till 2206 anthem and S/off. This on a Sats, and are supposed to run through till 2300. Schedule change?? (Steve d'Adolf, Mass.)
- ECUADOR 4899 Seldom logged La Voz de Sasquisli (WRTH lists 450 watts flea power), typical prgmg, SS, 0002-0038, an ID, when R. Juvented absent. (John Tuchscherer)... La Voz de los Caras surprisingly good for low power 500 watts with music, TCs, ads at 0145, said, "9 de la noche". (Fred Heutte Jr.) (What fqy, Editor)...3325.4 Ondas Quevedanos 0630 with full SS ID. (Bill Berghammer)
- ETHIOPIA RVQG, EE at 0400 on 9730, news, religious prgmg, S/off 0425. (Ed Insinger)
- FRANCE 7175 ORTF 0515-0545, EE, "Paris Calling Africa", ex 7160, 7255. (Bill Berghammer)
- GHANA Presently 3325//3366//4915 and 3295//3350//4980 S/off, in EE. (Fred Heutte Jr, D.C.)
- GUINEA (Eq) 6250 R. Santa Isabel fair sigs at 2120 with music and ID. (Frank Orcutt, N.Y.)
- INDIA AIR, EE on 11805, news, cmtry, 1330, good to excellent lvl. (Ed Insinger)
- INDONESIA RRI (tent), Menado, 5987, at 1240 in language, poor lvl. (Jon Williams, Ind.)
- 6070 RRI DjaJapura, heard at fair lvl 0929; ID as "Milah RRI, DjaJapura". (Ralph Richards)
- ...7165.6 0850A S/on, I hear this one IDing as, "RRI DjaJapura", not Kupang (unless its relaying). (Robert Bundy)...RRI Ambon, 7139.2, 1100, reportedly is // new 4840V. (Bill Berghammer)...11795 RRI Strong lvl in native at 1500 with an ID. (August Balbi)
- IRAQ 9722.6 R. Baghdad 1930-2015 EE to Europe 9/17, new fqy, ex 9745V. (Bill Berghammer)
- ISRAEL 11855 Jerusalem heard some days at 2035 in English, recent new fqy. (August Balbi)
- JAPAN NHK 21540, replaced 17645 to NA, 0100-0300 //17825//15235. (August Balbi)...JKH5, 9655, fair lvl in HS, noted at 0800. (August Balbi)
- JORDAN 7145.2V R. Amman S/on at 0330, on this NFOQ, ex 7155, 9/17, AA ID (Bill Berghammer)

Please Turn Over for More Listings

JORDAN (cont'd) 9560.4V R. Amman EE news at 1700 over Paris! (Bill Berghammer)  
KUWAIT 15415 New fgy replacing 15345, EE news at 1630, ID at 1745, fair (August Balbi)  
LEBANON 9550 Beirut to NA, 0130-0400, move from 11955, EE news 0230. (August Balbi)  
LIBERIA 11940 ELWA S/on 1700 in FF; on 15095 AA (August Balbi) / Bill Berghammer  
MADAGASCAR 11740 RN M Relay good 1400-1520//17810, EE; 11730 only fair lvl, 0030 S/on  
 in EE, lost in QRM by 0100. (August Balbi)...11890 M Relay, Talata, 2130-2250 EE to  
 Australia, ex 7295M, ex 9740M. (Bill Berghammer)...9555 likewise, 1700-1820, EE to  
 E. Africa, ex 9765M. Excellent sigs for time of day 9/17. (Bill Berghammer)  
MALAYSIA 4870 Radio Sabah again using fgy, EE news 1700, fair lvl. (August Balbi)...  
 9660 HS of RM, in EE at robust lvl, an ID, news, talk, at 1200. (Frank Orcutt)...  
 7201.5V RM, Penang, 1130 Malay; definitely noted //4790 and 5965. (Bill Berghammer)  
MARTINIQUE 3515 ORIF S/on 2300 in FF, generally fair to good lvl. (Fred Heutte Jr, D.C.)  
MAURITIUS Forest Side, MBS, 9710, istentatively being heard here in So. Indiana, as  
 we go to press, from tuning at 1220, with Indian-like music, annots, and an ID by M  
 in Indian language at 1230. Now's the time. (Al Niblack, Ind.)  
MONACO TWR, 9550.4V, S/off with possibly Zulu(!) for SW Africa, 0445 (Bill Berghammer)  
MOZAMBIQUE 4055 R. Clube noted from 0414 tune with variety of pops. (John Tuchscherer)  
 ...11820 RCM heard with PP at 0645, fair lvl. (Ralph Richards)...QSL received from my  
 report to the Regional Beira, 6090, with 25kW, in 1 1/2 months. (Frank Orcutt)  
NEPAL (tent) 5000 Possibly R. Nepal with Asian mx, through WWH, JY, 1315 (Ralph Richards)  
NEW CALEDONIA (tent) 11710 Believed to be Noumea in FF from 0845. Many types of pops,  
 fair at tuning, but gave up at 1050 as signal running downhill. (Joe Helm, Ind.)  
NIGERIA VON (old 7255) QSLed with Flag Card. Very happy to have. (Ralph Richards)  
PAPUA/NG 3322.5 Excellent lvl, local music, Pidgin ID at 1130, for R. Bougainville...  
 3335 (tent) R. Wewak, 1210, local music and Pidgin...3360 (tent) 1220, poor in language  
 and music, R. Milne Bay...3385 (tent) R. Rabaul, 1225, fair on 9/3, Melanesian music (All  
 foregoing credits to Jon Williams...4890 ABC, Port Moresby, no strain at 0900 (Ralph  
PHILIPPINES 11920 FEBC with Mailbag, EE, asking for reports. (Joe Helm) / Richards)  
PORTUGAL LIBRA Radio via RTE, 9660, 1940-2030, some EE requesting reports (Ed Insinger)  
RHODESIA RBC finally materialized on 3396, at 0400-0430, gone by 0440, EE news, review  
 of headlines, regional news, "This is the RBC", at 0410. 3 or 4 years I have been look-  
 ing for this one. A great shock to log! (Al Reynolds, Tenn.) (They ain't easy, Bitor)  
RWANDA Kigali Relay, 11950, replacing 11965 in GG, 2030-2240//15380 best (August Balbi)  
SRI LANKA 15120V 1630 EE, amcd as, "R. Ceylon, Rep of Sri Lanka" (L. Magne)/Heutte Jr, Quebec)  
TAIWAN 9575 BOC, 1030 Indonesian, recent new fgy. (Bill Berghammer)  
TUNISIA 6195 Tunis powerful and bodacious lvl at 0515 with chants, IDs, and news (Frank  
VATICAN 5995 VR back here with EE to ECNA 0050-0105; 17900, new fgy, 1620 EE (Bill/ Orcutt)  
VENEZUELA 3325 R. Occidente, Tovar, 0250, musical prgm...3245 R. Libex- / Berghammer)  
 tador, 9/10, music, 0200...3255 La Voz del Tigre, 0245, music and SS (All the foregoing  
 credits to Marlin Field)...3245 R. Libertador, 0340, SS, native music. (Jon Williams)  
 ...9620 R. San Rafael, fair after Becgrad S/off at 2230, ID 2238 SS. (Fred Heutte Jr,  
VIETNAM (N) Hanoi with EE weak lvl, does not bomb in at 2000, "Voice of Viet- / Quebec)  
 nam" prgm and other news on 15010A (listed 15018). (Ed Insinger)  
CLANDESTINE Radio Ruzkadi heard in EE/SS/Basque, on 13250A and 13300A, with two  
 missions daily--at 2030A and 2230A. EE is short and irregular, fair sigs. (Ed Insinger)  
ERRATUM (Please see last month's FS) GERMANY (W) 7265 Suedwestfunk Baden-Baden item  
 should have been credited to Ernst Lohe, Va., not to Bitor Larry Magne, says Larry.

AUGUST 1972

SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY, 9-6-1972: 1-93, 2-81, 3-85, 4-80,  
 5-93, 6-5, 7-65, 8-56, 9-59, 10-44, 11-25, 12-50, 13-55, 14-37, 15-39, 16-57, 17-62,  
 18-52, 19-54, 20-48, 21-60, 22-85, 23-71, 24-82, 25-64, 26-79, 27-89, 28-113, 29-147,  
 30-141, 31-137 MEAN--73.8

PREDICTED: Sep-60 Oct-57 Dec-51 Jan-48 Feb-45 (Grady Ferguson, So. Car.)

ACKNOWLEDGEMENT: To all those, both newcomers and oldtimers, who so ably supplied the  
 material for this month's effort. To veterans Grady Ferguson and August Balbi, a sincere  
 "thanks" for these two have supplied material for each and every issue of the FlashSheet,  
 since I, Al Niblack, took over the editing of this department.

RANDOM REMARKS: It appears that the demise of the Hammarlund HQ-180A Series Receivers  
 was a little premature. It is now understood that the receiver will be custom crafted on  
 special order through Perry Ferrell's Gilfer Associates...See Glenn Hauser's excellent  
 article, "It Is Better To Receive", in CQ Magazine for September, 1972. We suggest it  
 is required reading...In closing, we wish to offer a warm and sincere welcome to Al Sizer  
 who takes over as Editor of the Shortwave Center Department in coming December.....  
 Last minute items may be phoned to 882-3976 for the FS, after 2200 GMT...See you and,

# F R E N D X

fotos fotos fotos fotos fotos

Deadline: 20th of the Month

Edward C. Shaw  
621 Burleigh Avenue  
Norfolk, Virginia 23505



Lee Miller



Joseph  
Helm



Mark Welsh



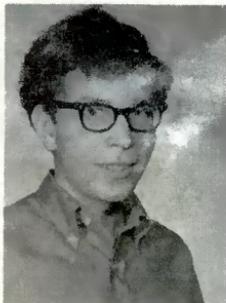
Charles Self III



Pauline Brock



Gerald Donnelly



Bob Riter



John Clements



Les Gier

IF THE BLANK is stamped with a date, your membership in NASWA will expire with the

issue. It is the hope of the bulletin staff that you have four useful and enjoyable forward to having year. It will help early, so we can be receiving FRIENDX w/ rptions. Dues for America are still U Class delivery of t (US\$11 for airmail) OVERSEAS MEMBERS - of seemail, we recon delivery. Cost for a QTH is

if you wish the love; delivery is available All members outside t should remit via Inte Order, or via a check drawn in US funds....( MONEY ORDERS SHOULD BE NORTH AMERICAN SHORTWA or simply, NASWA....Wh when not, for that mat take advantage of the c comment on FRIENDX and/o us know what you like a the bulletin.

RAMADANALIBRT - The Islamic month of Ramadan is Oct 9 to Nov 7 this year. Watch for stns in Middle East & W. Africa to be on late during Ramadan; ONLY useful next 2-4 years!

Return to:

NASWA

P.O. Box 8452

So. Charleston,

West Virginia, 25303

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