



"THE SWEC JOURNAL" OFFICIAL PUBLICATION OF THE

# NORTH AMERICAN SHORTWAVE ASSOCIATION

OCTOBER 1971

VOL. X NO.10

NASWA HEADQUARTERS

POST OFFICE BOX 989

ALTOONA, PA. 16603 USA

## NEWS AND NOTES

Many of you will recall that back in June of this year, when "Radio Nordsea" was still operating (prior to the bombing) and was being QRM'd by the Dutch government, NASWA Hdqs received a letter from one Gerard J.T.H. van Dam of the ISFRA, asking for support of pirate stations and offering financial gain for such support. You will also recall that NASWA Hdqs replied to said letter requesting more specific information without making any commitments. Hereto, last week, the letter of reply sent to Mr. van Dam was returned, marked "Unknown", after a period of four months. We take from this that either Mr. van Dam or the ISFRA have gone underground or are no longer operating..... It is possible that NASWA will be offering the 1972 World Radio-TV Handbook for sale to members at a discount price. If so, it will not be via any individual, but from a most reliable source within the USA. Watch upcoming bulletins for further/definite info. Incidentally, there will be no 1972 Summer Supplement for WRTH.....While we do not intend to give excessive space to certain matters, we think it only fair that we mention the following note received from Todd Graves-SWL Guide, in connection with the recent data received from Gilfer Associates; "I have never stated to any customer that I was sales agent for Gulfer, nor have I knowingly implied this. There was a verbal (telephone) arrangement with Gilfer however, whereby they would drop-ship two items for me at prices which were verified by postcard. I ask anyone who is personally concerned to contact me directly. Thank you. Todd Graves.".....Please be alert to fact that within the next month or so there will be two important bits of business of concern to all members, the election of new Board of Directors for two year term, and nominations for NASWA 'Man of the Year-1971'.....Dan Ferguson informs us that he is presently working on updated frequency surveys and that next may be ready for release next month. Such survey(s) will be included as part of or as supplement to an upcoming Frendx as a bonus to members. Nonmembers will need pay a nominal fee should they desire copies.....Response to last months 'Funtest' was greater than expected. Although there were no prizes offered, to date there have been 74 entries received. It would appear a number of our members enjoy a bit of fun now and then.....Be sure to note new address for Log Report editor Jerry Berg effective this month. Also, when sending reports to QSL Report editor Gregg Calkin, please use airmail (same rate as within USA). See respective sections for current addresses.....Some members will be happy, others will be disappointed to find no Loudenboomer Report this month. Seem's Charlie went on a sojourn due fact his team lost out in the World Series.....Members who have written Hdqs recently, please be patient. Mail load has been heavy and we are trying to keep pace as best we can. Thank you!

NEW MEMBERS, WELCOME!

Robert C. Gill, St. Petersburg, Florida. Via Communications World.  
 Tom Powell, Goldsboro, North Carolina. Via World Radio-TV Handbook.  
 Brook M. Sweeney, Akron, Ohio. Via World Radio-TV Handbook.  
 Jackie D. Vain, Murray, Kentucky. Via Communications World.  
 Robert H. Rice, Bethlehem, Pennsylvania. Via a NASWA friend/member.  
 Joseph L. Ritz, Oil City, Pennsylvania. Via Communications World.  
 Richard A. Fields, Conshohocken, Penna. Via World Radio-TV Handbook.  
 Kevin Murray, Rochester, New York. Via Elementary Electronics.  
 Julius Fazekas Jr., Port Chester, N.Y. Via Boy's Life.  
 Neal Perdue MMI, FPO New York. Via Communications World.  
 Andrew Graham, Leavenworth, Kansas, Via Communications World.  
 Dillard Stone, Jr., Freeport, Texas. Via PE Communications Handbook.  
 Robert D. Barr, Willow Grove, Penna. Via various magazines.  
 Richard D'Angelo, Brooklyn, New York. Via World Radio-TV Handbook.  
 Peter Banach Jr., Livonia, Michigan. Via PE Communications Handbook.  
 Joe M. Dent, Salem, Missouri. Via PE Communications Handbook.  
 Bob Burke, Broken Bow, Oklahoma.. Via PE Communications Handbook.  
 John Fisher, Bloomfield, Ontario. Via Glen Hauser/Radio Nederland.  
 Ted Chernicky, Phoenix, Arizona. Via World Radio-TV Handbook.  
 Robert Farnell III, Cambridge, Maryland. Via a NASWA friend/member.  
 George W. Schafer, Bristol, Penna. Via World Radio-TV Handbook.  
 Marlin Dressler, Jacksonville, Florida. Via Hank Bennett.  
 Bruce Greene, Howell, Michigan. Via Communications World.  
 David Curvin, Houston, Texas. Via Electronics Illustrated.  
 Edward Giniat, Hinsdale, Illinois. Via Communications World.  
 Dave Tubbs, Salt Lake City, Utah. Via World Radio-TV Handbook.

(Note: Members joining after 15th of the month or who renew after that date, will be listed in next months bulletin. All new members must submit application form in order to be listed.)

RENEWALS

Second year: Bill Buell, Harold Sellers, David Burnell, Aime Beaudry, Dave Thorne, Robert Bruce, Chris Brooks, Mike Clyburn, Mark Bernstein.  
 Third year: Milton Kean, Richard Clark, James Ducharme, Ron Bruns.  
 Fourth year: Ed Lewis, W.R. Mitchell, Len Hoskins, Bernard Heckel, Dick Kamba, Irwin Glasberg.  
 Sixth year: Mike Macken, Art Mitchell.

HELPING HAND SERVICE

For sale: Drake SW4A crystals...4500-5000 KHz, 5000-5500KHz, 5500-6000KHz. Write to Corky Webb, 4014 Travis, Apt.4, Dallas, Texas 75204.

For sale: Zenith TransOceanic portable. For details contact Mike Watman, 5 Brian Street, Somersworth, New Hamp. 03878.

For sale: 'GoldLine' antenna tuner in very excellent condition. Write Ed Pyatt, 606 McBain Hall, 562 W. 113th St., NY. 10025.

For sale: Hallicrafters SX-130. Also a Knight crystal calibrator (minus xtal). Contact Ed Shaw, 415 North Shore Road, Norfolk, Virginia 23505.

For Sale; Realistic DX-150, Haethkit Q-multiplier, Lab-I freq marker, Knight stereo headphones. Would like to sell as a package deal. Write Tony Marks, P.O.Box 521, LaGrande, Oregon 97850.

For sale: Hallicrafters S-200. Write to Jerry Stuart, Box 1487, Lawton, OK. 73501.

SPECIAL OFFER

If you are having trouble identifying or recognizing certain interval signals, I may be able to help you snag those countries you failed to ID because of language barriers. I have available a collection of at least 70 good quality IS from various countries..some common, some rare. Just send a 3" reel with at least 300' of tape plus \$1.00 (postage/handling) and I will return tape via first class mail with the IS recorded for you. This is special service offer and for NASWAers only. Sorry but no cassettes yet, just 3" reels and recorded at 3.75 ips. Send to...

Edward C. Shaw  
 415 North Shore Road  
 Norfolk, VA. 23505

Any questions re IS or ID, I will effort to help, but please be sure to enclose a stamps or SASE for reply.

Ed Shaw

FOULED BY THE FICKLE FINGER OF FATE

First late stencils/poor mail service, then a malfunction of mimeo, then vocational QRM plus a sick spell. Result, another late bulletin. Other reasons could be added, but these are the major.

As a number of you have written, late bulletins are useless, especially the DX sections (LR and FS), but you should also understand that late bulletins are not intentional. In over nine years of operation, surely we are entitled to 'rough waters' on occasion. Some of the mail received here was outright nasty and uncalled for. Hereto, if you are one who wrote such, why not ask for refund? It will be sent you expediently. We do our best to operate the club smoothly and effeciently, but there are times when unexpected and unforeseen problems enter in; Members should be able to realize this, accept it. Thank goodness the majority do!

It seems probable that we will need to replace editor of QSL Report (Gregg Calkin) even though we do not wish to do so. But his duties in his new post with the Canadian Embassy in Mexico demand his being in various places at different times, thus QRming his club work. We will have to act to rectify the situation.

The mail load, aside from the 'nasty' letters, has been heavy of late and HDQs will do as best it can to get caught up. Some of the mail will be 'farmed out' in order to do so. Please be patient if you have a reply due you. (Special apologies to Sara Stillman and Werner J. Selby!) All in all, if the fates are kind, we will be back on sked with November bulletin. B.E.

LATEST AWARDS

Awards Chairman Warren Nordgren sends the following list of NASWA members are the award certificates they have earned; Congrats to all!!

WorldWide DXer Award

Jim Zabransky 100 countries  
Richard Anderson 100 countries  
Edward Insinger 75 countries  
Mildred Marshall 75 countries  
Rick Charnes 75 countries  
Bert Adams 50 countries  
Mark Konen 50 countries  
R. Stephn Dildine 50 countries  
Kenneth Schnur 50 countries  
Tom Gavaras 50 countries

Continental DXpert Award

Alvin Sizer 18 North American countries

Continental DXer Award

Jim Zabransky 28 European countries  
Jim Zabransky 13 North American countries  
Charles Mohr 28 European countries  
Richard Anderson 28 European countries  
Rick Charnes 28 European countries  
Alvin Sizer 40 Asian countries  
Hiroatsu Matsuura 40 African countries  
Richard Anderson 13 North American countries

Missionary Award

Jim Zabransky 12 stations  
John Kolb 12 stations

NOTICE

If you recently sent to Hdqs for copy of new/revised NASWA country list, check and make sure you received complete copy. It seems page with countries 171-199 was missing in some (so we have been notified by a few members).

WANT A PEN-PAL IN GHANA?

His age is 22, he is unmarried and works for postal department. Interested in DXing, stamps and photography. His address is: Joseph Appiah Yorke, Mails Office G.P.O., Accra, Ghana. West Africa

OREGON GET-TOGETHER

Members/DXers/SWLs in Oregon who would like to meet others are requested to get in touch with NASWAer Andy Kerr, 555 West D Avenue, Creswell, Oregon 97426. He plans shindig in the near future. Drop him a note.

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IN OUR "TRYING" TIMES, IT IS OUR GOOD FRIENDS AND SINCERE MEMBERS WHO CONTINUE SUPPORT!

## A.N.A.R.C. REPORT

One of the most refreshing results of the recent ANARC convention was the genuine interest shown in revival of the hobby. I even found myself with a renewed verve and desire to get out into the streets to hawk SHORT WAVE LISTENING. The name of the game recently is publicity. Mr. Alvin V. Sizer, journalist from Connecticut, and distinguished DXer to boot, has undertaken one of the most promising ventures yet devised under the auspices of ANARC. The hobby in general could use a bit of publicity and it seems likely we can expand our ranks in NASWA or other clubs with some diplomatic application of publicity, and MR. SIZER is well-suited.

Actually, Mr. Sizer has always nourished the pet notion that publicity for our enlightening hobby left something to be desired. He has sponsored, in recent years, a feature article in the Sunday section of a New England newspaper dealing with Short Wave Listening. As the official chairman for ANARC's Publicity Committee, Mr. Sizer has his job cut out for him - and it has already begun.

The plan is this: Arrangement have been made with a well-known association dealing in SWL equipment to exchange names and addresses of known persons who may be interested in the hobby, or of persons who have written to specifically ask for more information about the hobby. Mr. Sizer would like to farm these leads out to experienced DXers in order that the DXer can take personal interest in the new lead through correspondence, telephone, or eyeball QSO. The purpose is to guide the new lead into the clubs best suited to him. The DXer will advise where to obtain books, equipment, and answers to problems. The concept of the personal sponsor is not new by any means. Many other organizations have used such methods for years. Not only does it help expand the hobby, increase memberships, and save lost time for beginning mistakes - it also creates an atmosphere of camaraderie not realized in other hobby organizations. Many DXers maintain correspondence with SWL/DXers known from years back and have yet to personally meet them. True, monthly postage fees sometimes are out of this world, but I wouldn't trade my personal situation for anything. At least, my KYL says the hobby keeps me off the street and home where I belong. (Some DXers I know manage both hobby and street - hi.)

Be that as it may, there is some assurance we can successfully recruit new SWLs. Especially needed at the moment are some volunteers in the deeper south, midwest, and far-west coast (both north and south) who will consent to receive names of leads in their areas from Mr. Sizer for the purpose of establishing personal contact for the good of the hobby. Please avail yourselves of this opportunity to do some good - it can't be too much trouble to explain to a budding DXer what having a WRTH will mean to him. Remember how you floundered until you stumbled across a copy? At least, that's the way it happened with me. Anyway, I will give an address below to which you should volunteer - or at least send your vote of confidence and well-wishes.

I hope that I will be able to keep you properly informed as to ANARC workings, and next month I plan to bring you up-to-date on what the various ANARC committees hope to achieve. Send your name and address for volunteer service to:

Mr. Alvin V. Sizer  
ANARC Publicity Chairman  
22 Country Way  
North Haven, Conn. 06473

And a sincere 73 from: Edward C. Shaw  
415 North Shore Road  
Norfolk, Va. 23505



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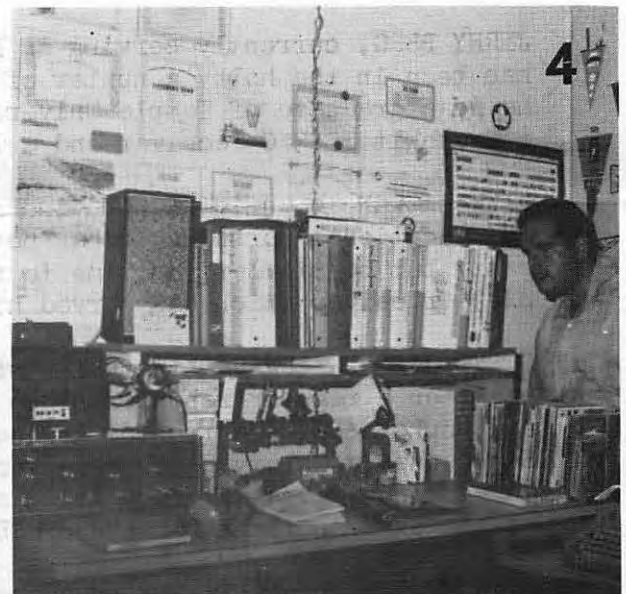


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- 1. Chris Lobdell
- 2. Jerry Berg
- 3. Mike Macken
- 4. Steve d'Adolf
- 5. Evan Berg

(Note: While these are "BADs" of NASWA, it is not the full compliment of them. There are a number of others.)

Our thanks for these pix goes to Steve d'Adolf.

"BADS" = BOSTON AREA DXERS

Several months back we heard of the "BADS" for the first time and were puzzled as to what/who they were. After inquiring around, we learned, contrary to our initial conclusions, they were a group of DXers residing within the Boston, Mass. area. Some are members of just NASWA, some are not NASWA members, some are members of a number of clubs. Anhyow, we asked Steve d'Adolf if, at the next 'get together' of the group, he might take and send us some pix...this he did and the overside is result. Of course theses pix are not of all the BADS, there are a number of others whom we hope to have appear in future Frendx photo pages. It should be pointed out that there are other such groups in various cities/areas of the country, but the BADS seem to be the most active and closely related. Not only do they promote the hobby during their regular 'get togethers', but too, they cooperate in promoting friendship between themselves and the clubs to which they belong.

CHRIS LOBDELL has been with NASWA four years and has been a regular reporter right from the beginning. In addition, he has many times compiled White Lists that have been contained in our QSL Report sections and which have been very useful to those members who actively collect QSLs. Chris is a DXer in his own right, using a Drake SW4A. He is also currently serving as one of the section editors for the recently organized SPEEDX organization.

JERRY BERG, currently serving as NASWA Log Report editor, is an experienced DXer who has been in the hobby a number of years, partalking of both MW and SW. An attorney, he is a graduate of Temple University and Georgetown Law School. Presently he uses a Haethkit SB-310 receiver and a longwire antenna. Married and proud father of a son.

MIKE MACKEN is an 'oldtimer' in NASWA, now with us for six years. Due to educational and vocational pursuits he has not been as active in recent months as he had been in past, but he still finds time to report/support when he can. Mike uses a Hallicrafters SX-99 receiver which has served him well over the years.

STEVE d'ADOLF began DXing while stationed on Kwajalein in the Marshall Islands and has been a regular reporter since coming aboard NASWA some months ago. He is single and works as an electronics engineer. Fast becoming recognized as a reputable DXer, Steve uses a Galaxy R-530 receiver with an SB-310 as standby. Antennas are a dipole and a longwire. Aside from being a most worthy NASWAer, he is currently editing one of the SWBC sections for new SPEEDX group.

EVAN BERG is probably the youngest DXer in NASWA or any other club and has one of the best teachers any novice could want...Jerry Berg (who he?). In years to come, no doubt todays oldtimers will find much competition from such new blood.

\* \* \* \* \*

\*NOTE: We invite/solicit pix from other groups who have meetings or get togethers. To date we have been promised such from certain of our members in the Raleigh, North Carolina area and we plan to feature them in future bulletin. How about you fellows in Brooklyn, and you in Chicago....there are numerous members residing in these as well as other cities/areas. Why not get together and meet one another as friends as well as fellow-DXers/NASWA members? You'd be surprised how it stimulates your club spirit and DXing interests. Just ask any of the BAD's.

\* \* \* \* \*

\*\*NOTE: While we make no promise, it could be possibility that we will have photo's appear in certain other sections of our bulletins in future. Shortwave Center editor-Bill Matthews and HDQs are contemplating and investigating such possibilities.

## SHORTWAVE CENTER

William A. Matthews-Editor, P.O.Box 15306, Columbus, Ohio 43215 · Deadline 15th of Mon.

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RADIODIFUSORA DE LA CASA DE LA CULTURA ECUATORIANA

Richard E. Wood

The House of Ecuadorian Culture is more than a mere cultural center in Quito. It is an important feature of Ecuadorian life in all parts of the country, and a significant educational and cultural agency. It organizes art and music competitions, acts as the representative of Ecuador in international contests in these and other cultural fields, and performs an important service in basic education.

On June 1, 1949, it entered the field of radio, inaugurating the Radiodifusora de la Casa de la Cultura Ecuatoriana. The principal aim was to broadcast the work of Ecuadorian composers and musicians, taking their work beyond the narrow confines of the concert halls and musical salons of Quito, and into the homes of the peasants in the countryside and the workers in the barrios. But the equipment was weak and antiquated, and the station was forced to close in 1964. Meanwhile, however, a new 10 kW shortwave transmitter had been ordered from Philips in Holland. It cost \$34,000 (including an FM studio/transmitter link). But, although it was delivered in 1962, the difficulties in which the station found itself prevented the unpacking of the new equipment. It lay there in its crate, unopened, deteriorating in the wind and weather. Meanwhile, the organizers of the station said the purchase had been an expensive mistake; they should have bought a medium wave transmitter instead, to cover the primary listening audience in Quito.

Eventually, a new President of the House of Culture, Dr. Benjamin Carrión, put an end to the stagnation by forming a committee with the task of getting the station on the air. With interruptions caused by periodic lack of funds, construction resumed in 1968, with Philips del Ecuador S.A. in charge of the installation of the 10 kW short-wave outlet, which came on the air November 15, 1968. With this accomplished, the old 1 kW medium wave transmitter (1430 kHz) was completely rebuilt. It returned to the air in early February, 1969. An FM station at 103 MHz was also installed in 1969. Total cost of the new installation, including labor, was a million sucres.

Even now, the Casa de la Cultura has limited funds at its disposal. It is almost totally dependent for program material on overseas stations; for news, it relies exclusively on off-the-air relays of foreign stations. In keeping with the new nationalistic policy of the Ecuadorian government (similar to those of Chile, Peru and Bolivia), not only the old Western favorites, the BBC and VOA, are relayed, but also Radio Havana, twice a day, at the important listening times of 7 a.m. and 1 p.m., local time, and Radio Moscow, whose transcription service provides Science News from the USSR at 9:15 a.m. and 12:30 p.m. Saturdays, and other transcriptions at 9 a.m. Saturdays. The Voice of America is relayed four times daily; the first daily newscast taken from the VOA is at 7:30 a.m., directly after the Havana relay at 7, so that a sharp contrast is made. They are received on a British-built CR-88 communications receiver.

Likewise, the station is almost incredibly dependent upon overseas transcription services for its musical programs. Dozens of musical transcriptions are carried from every station providing such a service in Spanish: VOA, BBC, ORTF, R. Nederland, BRT, Deutsche Welle, Radio Moscow and Radio Sweden. Nevertheless, the station does produce its own programs also, and indeed, what they lack in quantity they make up in quality: they have won two international prizes in recent years: the Bronze Windmill of Radio Nederland and "Ondas 1969" of Spain. Perhaps the most Ecuadorian in character of all the programs of the Radiodifusora is its first daily offering, at 5:30 a.m.,

RADIODIFUSORA DE LA CASA DE LA CULTURA ECUATORIANA  
(continued)

"Despertar Indígena", presented in Quechua at a time when most Indians are up, preparing for work in the fields and factories, but when most Spanish-speaking city dwellers are still abed. This program includes world and national news in Quechua, hints for farmers, and health and hygiene tips: it attempts to bridge the cultural and linguistic gap and incorporate the Quechua-speaking Indians into the national life. It is presented by Professor Narciso Lema, one of the few Quechuas who has successfully overcome the social and racial barriers and become a leading educator among his own people.

Radiodifusora de la Casa de la Cultura transmits on 4930 kHz with a reserve frequency of 4895 kHz occasionally noted. Schedule is 1030-1530, 1645-2030 and 2245-0415 GMT. Verification is by QSL card, showing four views of the city of Quito, signed by the Director, H. Pérez Estrella, and the station welcomes reports, preferably in Spanish.

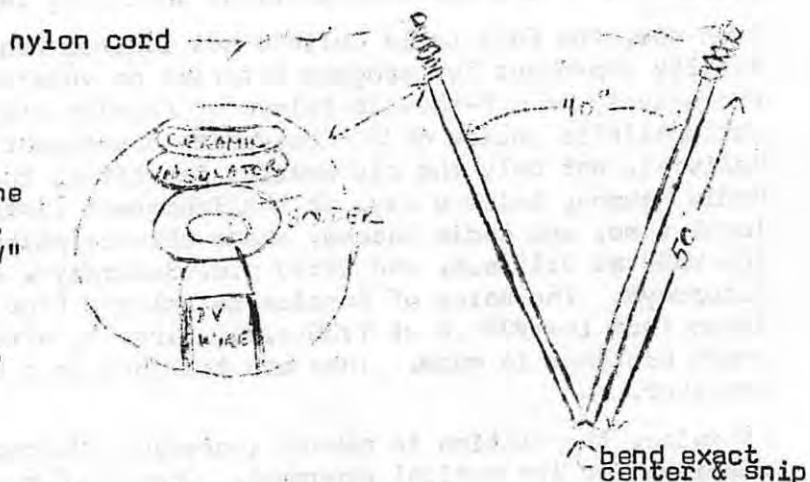
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"EL CHEAPO" - THE POOR MAN'S DIPOLE  
Edward Shaw

To answer a recent request in FRENDX for designs of effective antennas that will not flatten your wallet, the following jewels are offered. All can be constructed for less than \$5.00 - provided you are adept with fingers, and you will have a fairly potent antenna to serve you. Two of these have served me faithfully for many years and I can attest to their effectiveness. Don't ask me the theory behind this antenna --the answer, as is true of antennas, is technical and less important than the results one gets. This design seems to be the equal in performance of other commercially-designed antennas by Moseley and Hy-Gain. Used with my A.T.U.\*, I find this antenna to be superior - especially for the 60 meters band which is my favorite. \*A.T.U.'s are simply constructed, or may be purchased commercially - a near essential for the discriminating DXer and any antenna less than 50 feet long.

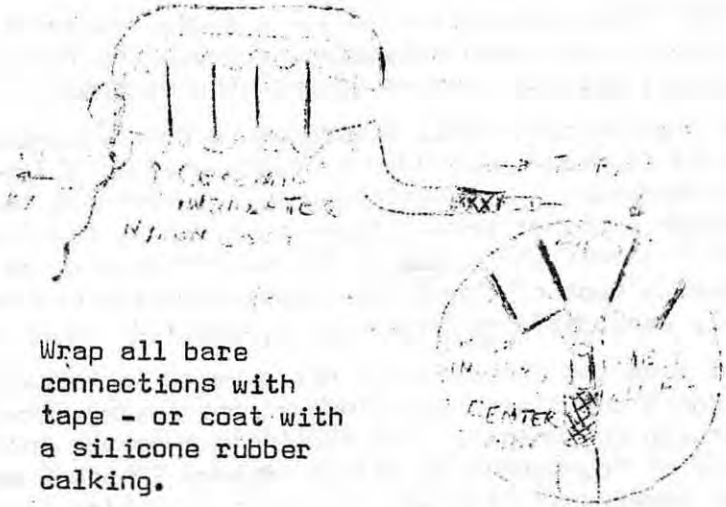
Materials needed: 100' coil of 300 ohm TV lead wire, 3 ceramic insulators, sufficient length of RG-59/U coaxial cable to reach from your receiver to the antenna, 1 male motorola plug, supply of nylon cord or other weather proof cord, and other household or shop hardware.

EXHIBIT A - Roll out the coil of TV lead wire full length. Determine the exact center and mark this location. Bring ends together to form a 40° "V" angle with the marked center at bottom. Attach insulators on ends and affix nylon cord as illustrated.



THE POOR MAN'S DIPOLE  
(continued)

EXHIBIT B - At the angle where you have snipped the TV wire, neatly bare only one lead on each side. Leave the other two close cut and unused. Affix nylon cord to one end of ceramic insulator and then insert RG-59/U cable as illustrated. Connect to the antenna at center angle. Wrap all bare soldered connections with tape. Better yet, coat thoroughly with silastic silicone rubber calking and let cure before wrapping with tape.



Wrap all bare connections with tape - or coat with a silicone rubber calking.

EXHIBIT - B

EXHIBIT C - The ceramic insulator at center angle should be secured at some point near your house and about 20 feet off the ground - such as your TV mast or chimney. Use the nylon cord for this purpose, so RG-59/U cable will dangle freely to receiver.



EXHIBIT - C

It is important to maintain the 40° angle between the arms of your antenna when it is erected - it is also important to erect the arms up at a 25° angle from ground level. This antenna is most sensitive toward the direction of the open angle, so erect to your best advantage. I point one due north, and another due east for the Asians and Africans respectively. The antenna resonates best for 60 and 31 meters. The total unfolded length of wire in the antenna arms is about 60 meters. The male motorola plug may be installed on the receiver end of the RG-59/U for plugging into your A.T.U. I will be interested in hearing from those desiring to try this antenna, or who already have this design, although I believe my measurements and angles are unique.

\* \* \*

Thanks to Ed Shaw for his article ---- and we shall see how the drawings come out.....

Now follows an article dealing with clandestine radio.....to some it may appear somewhat political....yet, DXers just may be able to receive this illusive station! No other information regarding frequencies or times of transmission are available.... so keep an ear tuned for this one - and report that logging either to Log Report or the Flashsheet.

### RADIO BROADCASTS PORTRAY SIHANOUK AS MAO'S PUPPET

PHNOM PENH, Cambodia - (AP) - A radio station that claims to speak for Prince Norodom Sihanouk but which actually undercuts the former chief of state is part of a psychological war being waged against the Communist side in Cambodia.

On several occasions, according to Khmer-speaking broadcast monitors, a man pretending to be Sihanouk has given a nearly perfect imitation of the exiled prince's high-pitched speechmaking. Well-informed sources suspect the station is located in southern Laos inside a secret paramilitary camp run by the Central Intelligence Agency. The station calls itself the voice of Sihanouk's United National Front of Kampuchea, or FUNK. It devotes much of its three-hour-long daily broadcasts to violent attacks on Marshal Lon Nol, Cambodia's prime minister, and members of his Cabinet.

But when the speakers are not engaged in anti-government tongue-lashing they mouth slogans and statements aimed at portraying Sihanouk as a puppet prince manipulated by foreign Communists. The Station's programs ends with the statement that the voice of FUNK is "commanded by Prince Norodom Sihanouk and governed by the thoughts of Chairman Mao Tse-tung." Sihanouk has been in Peking since his ouster from power 16 months ago. On one occasion, the listeners report, the phony Sihanouk went on the air to urge Cambodian girls living in regions controlled by Hanoi to sleep with North Vietnamese and Viet Cong soldiers. Another statement broadcast by the bogus prince accepted responsibility for damage inflicted upon the temple of Angkor Wat in fighting earlier this year. The North Vietnamese soldiers who caused the damage, the statement said, were mere youngsters who did not know how deeply the Khmers venerate the ruined temples and they were unaware of their princeless historic value.

The genuine Sihanouk is heard by a broad cross section of Cambodians who tune in to Radio Peking's Khmer programs. His jibes at Lon Nol and his ministers are items of everyday gossip. There is also a genuine JUNK radio, believed to broadcast from North Vietnam.

DETROIT NEWS

...via Tom Neely

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### IRAQI RADIO

John Banta

The Broadcasting Station which was established in 1936 with a total transmitting time of no more than five hours a day, broadcasts now for more than 20 hours daily in Arabic alone. Aimed for sheer entertainment in its early years, this station has become a significant means of public education, political guidance and the development of objective thought.

There is one main broadcasting station in IRAQ at present, namely the Baghdad Broadcasting Station. There is also another radio station affiliated to it and known as "VOICE OF THE MASSES". Both stations transmit the locally recorded programs in Arabic, local languages (Kurdish & Turkmanian), and in foreign languages which include: English, Russian, German, French, Hebrew, Turkish, Persian and Urdu. Transmitter power runs from 50 to 250 kw, and broadcasts consist of news, cultural items and music. Baghdad Radio can be heard in North America with an Arabic transmission from 0230 to 0400 GMT, on 15400 kHz., with a good signal strength.

Efforts are exerted to provide experts and technical cadre for the broadcasting station so as to raise its standard. These efforts include the sending of students and technicians to foreign institutes to study the art of communicating with the

IRAQI RADIO  
(continued)

masses and the various arts of broadcasting.

Baghdad Radio usually verifies with a full data map QSL card and sometimes sends booklets or magazines to its listeners. Waiting time for a reply is long and reports should be sent by registered airmail to: BAGHDAD RADIO, Ministry of Culture & Information, Baghdad, IRAQ.

\* \* \*

A GOOD ANTENNA

The Best RF-Amplifier

With the increasing number of half-waves on an antenna, the angle of maximum radiation (the main lobe) moves towards the direction of the antenna wire. An antenna of an infinite number of half-waves would have its angle of maximum radiation parallel to its wire. It is obvious, that the power gain of an antenna increases with its length, i.e., the number of half-waves on it. The following is a list showing the relationship between relative antenna length and the power gain.

antenna length in $\lambda/2$	power gain in dbs	horizontal angle of maximum radiation in $^{\circ}$
1	1.0	90
2	1.2	54
3	1.3	42
4	1.4	36
5	1.7	30
8	2.1	26
10	2.5	22.5
12	3.0	20
24	7.0	12

The following table shows antenna lengths for 1 to 5 half-waves for the international broadcasting bands 49 through 11 m.

The frequencies chosen are approximate band center frequencies.

number of half-waves:	bands							
	m 49	42	31	25	19	16	13	11
$\lambda/2$	MHz6	7.2	9.6	11.8	15.3	17.8	21.5	25.8
1	23.7*	19.8	14.8	12.1	9.3	8.0	6.6	5.5
2	48.7	40.6	30.4	24.8	19.1	16.4	13.6	11.4
3	73.6	61.5	46.0	37.5	29.0	24.0	20.3	17.8
4	98.6	82.4	61.7	50.2	38.7	33.3	27.8	23.2
5	124.0	103.0	77.4	63.0	48.5	41.7	34.3	29.0

\*lengths in metres

If we go through our list and try to find an all-band antenna we shall be disappointed. Yet there is one length with equivalents in another ten short-wave bands. Of course, we have to admit slight deviations which will not harm our resonance problem, for due to the width of the broadcasting bands we have to accept compromises. In this connection we should mention a very efficient device for making antennas resonant: the Collins Filter. From our table (antenna lengths) under "42-m-band" we take 61.5 metres. If we take this antenna length as a maximum unit, we find resonance on the following metre-bands:

125m	90m/80m	60m	42m	31m	25m	19m	13m	11m
61.5	20.3	30.4	61.5	30.4	63.0	29.0	20.3	29.0
61.7			61.7					

A GOOD ANTENNA  
(continued)

Only 49 and 16 metres are excluded. By the way, if an antenna length does not correspond to a certain metre-band, and if it is properly built, one can still use it as a good, however, non-tuned antenna putting either the one or the two lead-in plugs together into the antenna socket of the receiver.

RBI Journal ..via NASWA Hq.

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CALIBRATING YOUR RECEIVER  
Gerry Wood

Unless one has a really good receiver there is always difficulty in determining the exact frequency of a broadcaster. The problem is increased with a valve receiver which tends to drift, whereas a transistor set is usually quite stable. Every time one identifies a station on a known frequency, a bandsread reading could be entered in the WRTH against that frequency. The only trouble with this method is that it could take a long, long time to fill in enough readings to make it a usable method of calibration.

There are a number of ways of obtaining "frequency read-out", some expensive, others costing very little. The degree of accuracy varies with the cost. There is on the market a frequency meter called the BC 221. This is a highly-accurate piece of equipment which can give you a frequency reading accurate to 2 or 3 cycles. They are easy to use after a bit of practice but are difficult to obtain in this country. One could be ordered from the UK at a cost of about £15 plus p/p and are well worth the money. They cover MW to 20 MHz and higher on harmonics.

At less cost are the crystal calibrators. You have to zero your receiver every 100 or 500 kHz to the calibrator and then the calibrator will give you fairly accurate frequency readings over the next 100 or 500 kHz. These calibrators are around in SA but usually one orders from the UK at prices ranging from £3 to £12. Often the power pack has to be purchased separately or constructed. They are not as accurate as the BC 221 but give usable results.

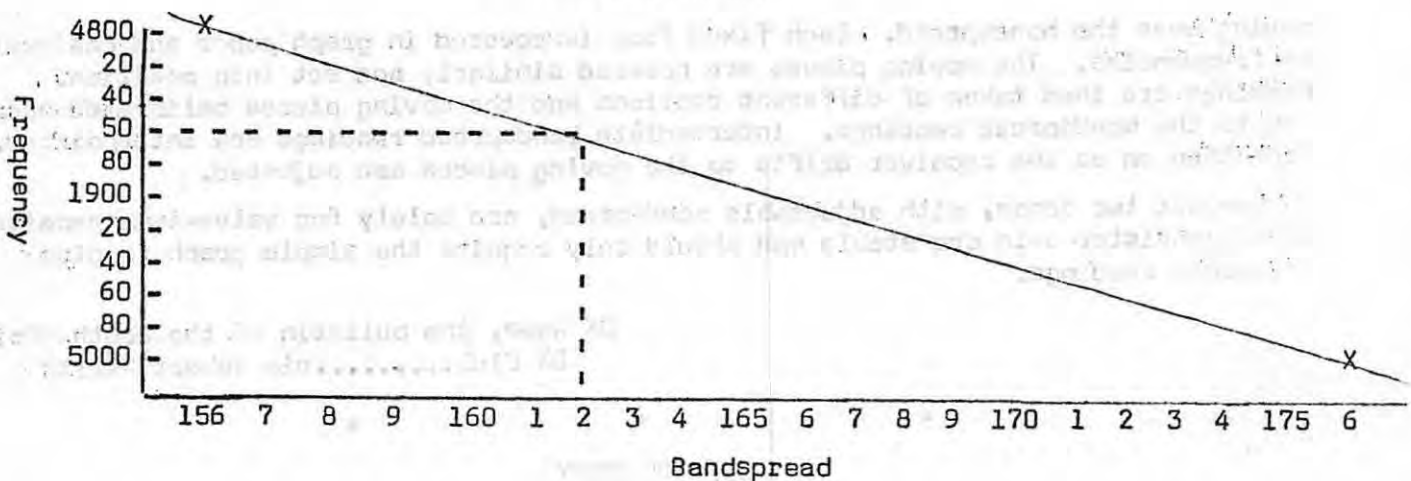
The last method I am going to suggest is that of calibration charts. These take a bit of constructing but give a reasonable degree of accuracy and are fairly easy to use. Assuming your set (receiver) has a bandsread of 0-100 or something similar, one can easily draw a graph to cover a full band or part of a band. I usually draw graphs for each 100 kHz on a broadcast band as the degree of accuracy is thereby increased. Also, as the changes in frequencies on a receiver are not linear, the more range one crams onto one graph the more likely you are to obtain a curved line, thereby reducing the accuracy.

If a chart is required for the 60m band, first a number of bandsread readings must be taken for stations on known frequencies, e.g., Lesotho on 4800, the SABC on 4875 and 4965, ZUO on 5000 and Lome, Togo on 5047 kHz. The more stations one can identify on known frequencies, the more accurate the graph.

Frequency	Bandsread
4800	156
4925	168.5
5000	176
5047	180.75

Draw a graph on 1/10th graph paper with frequencies on the Y axis (left hand side of page) making each 1/10th block count as 5 kHz or 2½ kHz or 2 kHz as you wish. The bandsread is on the X axis (bottom of page). One now makes marks where the readings of the above table coincide in the body of the graph. These marks are then joined by straight lines.

CALIBRATING YOUR RECEIVER  
(continued)



It should now be obvious that if one hears a station on a bandspread of say 162, one should be able to read the frequency off the graph. One follows the vertical graph line running through 162 on the base-line until this line touches the graph-line; at this point one follows a horizontal path to the left and takes the frequency reading at this point - in this example 4860 kHz.

These charts are only as accurate as you draw them. If you have chosen for a marker a station which is off frequency then you are going to build in inaccuracies. Do not use Mozambique stations as markers, as most of them are off frequency by 1-3 kHz. The SABC is quite accurate, as is Rhodesia on 4828 and 5016 kHz. Most of the international broadcasters are bang on frequency and these can be used as markers. One can therefore draw graphs for all broadcast bands. You will find at 15 mcs and above that the graph readings will be accurate to only plus minus 5 kHz. This is due to the fact that these bands have not been given enough bandsread and it is therefore difficult to separate 2.5 kHz on the bandsread reading.

It was mentioned earlier that valve sets tend to drift. This is caused by numerous reasons: valve performance decreasing; component performance likewise - a new valve being inserted can throw calibration off by up to 20 kHz; between cold and warming up a valve set can drift by 1-5 kHz. All this poses a problem. How accurate are the graphs drawn today going to be in six months time? The answer - not known. The solution? - simple! Instead of fixed bandsread readings at the base of the graph, replace with a movable cursor. Cut half-inch strips of thin cardboard and cover each with a strip of graph paper. Calibrate the strips in bandsread readings. In any stamp shop one can buy strips of perspex used for holding mint stamps. These strips have a sticky base. Cut one of the strips shorter than the calibrated strip and stick it at the base of the graph. Insert the calibrated strip behind the perspex and adjust it to read correctly off the graph. Mark the graph with a reading you expect to be correct, e.g. 5000kHz - 176. Check this each time you use the graph. If the set has drifted just adjust the cursor to the new reading by tuning in to 5000 kHz (or any known station on other bands).

These graphs take a bit of time to draw up but are invaluable when completed. If you decide to make some, be sure to take your time and be accurate.

For the person who has time and patience there is another method based on that detailed above. You will all know what a slide rule looks like. One piece of calibrated material which slides between two fixed calibrated pieces. This method can be used to make frequency/bandsread readers. In most timber supplies one can obtain strips of wood which are tongued and grooved along opposite sides. The narrower the strips the better, as the size must be kept to a minimum. Taking as many pieces as are required, a number of "dead" pieces are secured to a baseboard, spaced so as to, take the moving pieces. The fixed pieces carry frequencies and the

CALIBRATING YOUR RECEIVER

(continued)

moving ones the bandsread. Each fixed face is covered in graph paper and calibrated in frequencies. The moving pieces are covered similarly and set into position. Readings are then taken of different stations and the moving pieces calibrated according to the bandsread readings. Intermediate bandsread readings are interpolated. From then on as the receiver drifts so the moving pieces are adjusted.

These last two ideas, with adjustable bandsread, are solely for valve-type receivers. Most transistor sets are stable and should only require the simple graph to give frequency readings.

DX News, the bulletin of the South African  
DX Club.....via Robert Peritz

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ON THE HOBBY

Dan Romanchik

The thing that probably turns more young people away from the hobby of DX'ing is that to really succeed in this hobby there is so much you have to know. A SWL must be familiar with propagation principles, station skeds, reporting techniques and the electronics of his receiver. Being a novice DX'er can be very frustrating if one is not under the guiding hand of an expert. In their book, Better Shortwave Reception, William Orr and Stuart Cowan provide the expertise.

This book contains a myriad of information for the DX'er. Included are chapters on propagation, receiver design and construction, receiver alignment, antenna construction, reception techniques and much more. Explained in simple terms, it adds much to one's understanding of his receiver and the idea of SWL'ing.

But SWL'ing isn't the only thing that this book covers. Sections are devoted to digital transmission, radio science, CB, ham radio reception, VHF, UHF, radio astronomy, and astronaut communication.

A beginner in this hobby encounters many things which he cannot explain. Such things confuse and discourage him. This book does much to untangle this mess for the beginner as well as the veteran.

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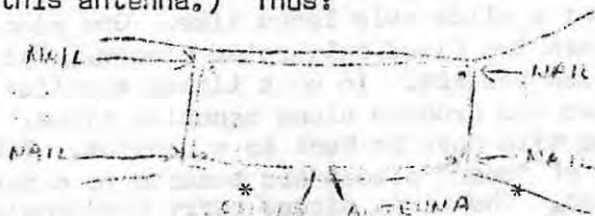
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AN INDOOR ANTENNA

Gordon Gladstone

Many DXers are living in apartment buildings where the problem of setting up a good antenna becomes a maddening dilemma. The BBC has come up with a workable solution which I have tried and am completely sold on as THE home-brew indoor antenna. Materials required: four nails, length of #18 stranded and insulated wire. Procedure: For a directional antenna, choose a wall in whatever room you use as your shack, that runs in the general direction you are interested in, i.e. N/S, E/W, etc. Drive the nails into the four corners of that wall. Stretch the wire around the four nails beginning at the middle of the floor side of the wall connect one end of the wire to your antenna terminal and the other end to your ground terminal. For a less directional antenna use the floor or preferably the ceiling for the loop of wire. (Do not use a ground wire with this antenna.) Thus:



## LISTENERS DIGEST

Dan Ferguson-Editor, 1521 Smith Road, Apt.7, Charleston, W.Va. 25314 Deadline 15th

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CHILE To late to get the info to the membership in time, I found that, according to a note from Arthur Cushen over HCJB's DX Party Line, Radio Presidente Balmaceda will broadcast a special program in ENGLISH for the New Zealand DX League on 26 September, at 0500-0515(DF) And Bill Matthews advises tha the NZ DX Times says the pgn will be at 0450-0515, and that reports should be sent to Sr. Hector Sepulveda, Manager.(Matthews)

SWEDEN R.Sweden is now on 11825 to ENA at 0000-0230. English at 0030-0100 & 0200-0230. Reception is very poor here in W.Va. at both times. RS is now using 9590 to ANZ at 0515-0545, poor in W.Va....The Eng tx to WNA continues on 11705 at 0330-0400. RS is now on 21625 at 1400-1530 to ENA. Eng at 1400-1430 & 1500-1530(Richard Wood, DF)

VATICAN VR is on 5995 to NA w/EE 0050-0100, for the fall quarter.(DF)

DOMINICAN REPUBLIC R.Antilles has been reactivated. Has been inactive since the latter part of 1967. Is on 4962+ kHz, and well heard evenings. (DF)

GAMBIA Radio Gambia, 4820 kHz, is sked 0625-0800 daily except Sunday, and 1655-2300 daily.(Al Sizer) The 0625 transmission is well heard in North America.(DF)

CONGO(DR) From time to time we will include notes on when/where certain stations might be heard. These notes will take into account propagation and scheduling. If such notes are useful, and productive of results, we will include them. I don't want to be accused of sending anyone off chasing wild geese, so please remember that these notes are based on schedule information, and not necessarily on actual loggings. Your comments welcome. The first such feature on the CONGO(DR);

Radiodiffusion-Télévision Nationale Congolaise, Kinshasa. Try 4880 kHz at \*0400 to abt 0600. Try 7115 kHz at 0200-0400. RFE is sked to use the fqy from 0400, but has not been heard there at the most recent checks, so this may be open longer....9770 kHz might be heard around 2200.....Try 15245 around 0200-0600 and 1800-2000.

Radio Lubumbashi might be heard in the 0415-1000 time slot. Best bet seems around 0415-0630 GMT.This on 11862v kHz....9540 may be currently active; if so would be best hrd around 0630-0700.

Radio Mbandaka is currently scheduled 0400-0800, and 1500-2100, but there does not seem to be any chance of hearing this one in NA currently. 5993 kHz.

Radio Bukavu, 4839 kHz, try 0400 s/on till 0530. Will be best at s/on, when audible.

Radio Kasai, Luluabourg, 6125 kHz, scheduled 0400-0700, but VoA-Gv1 covers the channel.

Radio Mbuji-Mayi, 7300 kHz, might be audible around 0400-0500 kHz.

(Comments on this type of information desired. If you find it useful, what other areas or countries would you like covered in this manner. Please remember, the above times are given only as POSSIBILITIES.) (DF)

COSTA RICA Current SW operations from Costa Rica:

4832 kHz Radio Capital, 24 hours

5954 kHz Radio Casino, 1 kw, 1200-0600

6006+ kHz R.Reloj, 1 kw, 24 hours

6037 kHz TIFC, Faro del Caribe, 1 kw, 1130-0400, English 0300-0400.

6150 kHz R. Atenea, 1 kw, 24 hours. Well heard 0600 & later,

9645 kHz TIFC, Faro del Caribe, 2 kw, 1130-0400, English 0300-0400.

(DF)

Your support for this section earnestly desired. NEXT DEADLINE 18 OCTOBER.

ECUADOR HCJB is now using 9615 to NA in EE at 0110 past 0500, //11745/15115 kHz. (DF)

ECUADOR I will be contributing short tapes with DX and SWL information to the HCJB DX Party Line. Exact dates are not yet determined, but there will be an average of two tapes per month, each about 5 min. in length. The DX Party Line is aired at 0030 Monday (GMT) on 11745 kHz, and at 0300-0330 on Tuesday (GMT) on 9615/11745/15115 kHz to NA. (DF)

JAPAN There are several SW outlets relaying Japanese HS transmissions in Japan. The following list is by no means complete, but I have found no further information on the regional Japanese outlets. If any member has additional information on these outlets I would appreciate hearing from that member.

Hiroshima - 6175 kHz, 5 kw, 2030-0900  
Matsuyama - 6005 kHz, 5 kw, 2030-1500  
Nagoya - 9535 kHz, 5 kw, 2330-0830  
Tokyo Kawagu - 9550, 5 kw, 0100-1300

Best chance for NA DXers to hear Hiroshima on 6175 seems to be 0830, from the info I have. Best chance for Matsuyama would be around 1000 & later. WC DXers might have a better chance than those on the ECNA, since it is still a target after R. Reloj has faded... Nagoya on 9535 may be difficult to hear since Kuching, Sarawak, is also on the fcy till 0830 s/off. However, if Nagoya is to be heard in NA, it would most likely be not long before the 0830 s/off... Try for Tokyo Kawagu on 9550 from around 0800 till they s/off at 1300. West Coasters again probably have the best chance of hearing this one. (DF)

QUESTION How do I hear Turk Island?

Answer: Wait 12 years for the next hurricane to hit the island, then tap Al Niblack's phone to find out the correct fcy to tune. And speaking of Turk Island, a note from Don Jensen says, "Not wishing to rub salt in the wound, but Turk Is. just verified by letter for 4788, Aug 25 (GMT)." OK, Don, thanks for the pepper! Hi. (DF)

ANARC AWARDS COMMITTEE This editor is the new chairman of the Awards Committee. Nominations are being accepted for Merit Awards, and for the 1972 Man of the Year Award. Nominations for either award should include a letter giving full details, plus 4 carbon copies of the letter and a self-addressed, stamped envelope. Any member of an ANARC affiliated club may make nominations. (Dan Ferguson)

BAND SURVEYS are being compiled for the following bands: 1605-4000 kHz, 4000-5700 kHz, and 5700-7000 kHz. Hopefully the first survey will be completed in time for the November FRENDEX. (DF)

NEPAL The sked of R. Nepal as of 15 August: 0120-0350 on 4600 & 7105  
0720-0920 on 7105  
1320-1650 on 4600/7105  
Pwr & lang not given. (Jim Zabransky, Jr.)  
7105 was 5kw last I knew. (DF)

Very little material in for this section this month, undoubtedly because of the late arrival of the September FRENDEX, and the fact that most members were not aware of what type of material was desired.... WE WILL BE using schedules of stations, hopefully after they are checked out for accuracy. The sooner the material is here the easier it is to check schedules out on the receiver; so although we have a deadline, you are asked not to wait for mailing until just before the deadline. I will be checking out some of the schedules here, and cooperators will be checking in other parts of the NA. This should enable us to give the SWL a clear picture of what stns he can hear in NA, especially English programs.... We currently plan a quarterly list of English transmissions to NA, and to include other EE transmissions easily heard in NA. For the winter quarter this will appear in DECEMBER, to give time to collect the info after the winter skeds go into effect... Your notes on xmsns hrd after 6 November should be here by 18 Nov, for inclusion in the December issue.....

Other material which might be of general interest to DXers & SWLs is also welcome. We especially are interested in accurate skeds of DX stations, but if you don't know how accurate they are, send them in anyway - we'll get them checked out.... Personal notes about the members are welcome; e.g., comments on equipment and/or techniques, etc. (Just remember that feature articles belong in the SHORTWAVE CENTER, so should be sent to Bill Matthews. .... If you have questions that can be answered here, we will try to do so. I.e., questions about unidentified stations, or even where & when to try for a particular country, we'll even try to get an answer for such questions.... This section can be pretty much what you want it to be, so let me hear from you. 73, Dan Ferguson

## QSL REPORT

Gregg A. Calkin-Editor, Rio Balsas 35-702, Colonia Cuauhtemoc, Mexico 5, D.F. Mexico  
Deadline 12th of the Month

((Note: To clarify...September stencils were mailed by Gregg, but either due to some foul up by postal system, or some unforeseen/unknown delay/censure by customs, they never arrived at Hdqs. This month however, we have tested (successfully) a new mode of mailing and we do not anticipate future problems hereto. It is regretful we cannot repeat the Sept. section which contained a White List and current Scoreboard. B.E.))

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First of all, before getting into our regular reports, your editor would like to apologize for the lack of a September column. The column was typed and mailed by the normal deadline, but appears to have been lost somewhere in the Mexican mail system. If it has not been delivered in Altoona in time for this or the next issue, the highlights (and there were many) will be included in November QSL REPORT.

QSLs RECEIVED

ALBANIA: Radio Tirana, 6200, b/w card w/picture of bldg and 2 p/p/cards. 2 months, no IRCs sent (d'Adolf) 10 weeks for 3 IRCs; air w/full data (Webb)

ALGERIA: RTVA, Algiers, 11715, white-gold card plus sked + rpt form; 3 wks air for 3 IRCs and English rpt (eely) 60 days for 2 IRCs (Lewis) 9510, 57 days seamail for mint stamps and report in French using NASWA French language form (Michalenka)

ANGOLA: Radio Huambo, 3345, multi-lingual African drummer card rcvd in 22 days air for Portuguese report and 2 IRCs. Confirms reception but no details (Hall)

Radio Clube do Cuanza Sul, 4840, card showing view of station bldg; QSL text in 5 languages. Signed by "the Director"; 5 wks air for Portuguese rpt w/3 IRCs (Padula)

Radio Clube Lobito, 4910, card shows drawing of natives washing clothes in river in jungle; QSL text in 6 languages; 8 wks air for English rpt w/2 IRCs (Padula)

ARGENTINA: RAE/11710, light green world globe card in 127 days seamail. (Lewis) 9690, card in 102 days air. No IRCs (Bianco)

ASCENSION IS: BBC Relay sent Thames card w/site typed in in 126 days (Hardester)

AUSTRALIA: VNC Time Signal, 12000, color folder card in 14 days w/full data (Jamison) 11 days air w/folder card; all data (Kaufman) 8 days; no IRCs (Brode)

Radio Australia, 17795, card seamail in 2½ months. (Maslak) 50 days for rpt card (Hailpern) 15240, Darwain Aerial card w/full data in 2 months (Lobdell)

ABC/VLR6, Melbourne, map card in 2 months w/xmtr site given as Lyndhurst. (Sizer)

BELGIUM: ORU, 9550, yellow/blue map and tower card with full details; power marked as 100 kW. 35 days for 1 IRC (Ingram) 40 days air (Kelbher) 1 month (Konen) 5 weeks air; mint stamps not used (Bianco)

BOLIVIA: CP75, La Cruz del Sur, card w/drawing of mountain plus small blue pennant in 35 days air for English report and mint stamps (Zabransky)

BRAZIL: Radio Brasil Central, ZYX2, 4995, letter in English and Portuguese w/full data; also p/card of station in 30 days air for Port report and Mint stamps (Zabransky) 3 wks air for Portuguese rpt; say they do not issue pennants now (Williamson)

Radio Globo, 11805, paper thin QSL, 5 months seamail for Portuguese report w/2 IRCs (Padula) 2½ months for 2 IRCs (Sizer) 3 months for English report w/MS (Brode)

Radio Guaiba, ZYU61, folder shows view of Porto Alegre, confirmation in English; full data. V/S: Enio Berwanger. 15 weeks sea for English report + 4/IRCs (Zabransky)

Radio Jornal do Comercio, 15145, picture card w/full data + personal letter for 4 IRCs. Reported by registered mail; reply by air in 2 weeks (Bruns)

BOUGAINVILLE IS: R. Bougainville, folder in 3 weeks for 2 IRCs (Brode)

BRUNEI: Radio Brunei, 7215, mosque/map card in 20 days air. 4 IRCs sent; full data reply from V/S: A. Frigout, C.E. Also sked (Zabransky)

BULGARIA: Radio Sofia, 9700, Sofia U. card in 50 days; no IRCs (Gehan) card, pennant, rpt form, sked in 1 month; 2 IRCs w/f/up (d'Adolf) 63 days for 1 IRC (Fazekas) 1½ months; no IRCs (Dildine) 22 days air w/full data (Ingram) 9550, 110 days (Kelbher) 1 3/4 months for 1 IRC (Kennedy)

BURMA: BBS, 5040, letter verie from Pe kyaing, Second Secretary, Burmese Embassy, after BBS had confirmed reception to them and asked them to relay to me. Reports should go to: U Than Pe, Deputy Secretary, Ministry of Information, Bo Aung Gyaw Rd., Rangoon. I worked on this one for nearly 15 years and figure the cost at \$25-\$30! (Dexter) similar letter from Embassy Official, w/full verification. BBS says few U.A. rpts received (!) I waited 6 years for this one! (Shaw) Ditto letter saying that QSL-cards are unavailable "due to temporary suspension of the program". My QSL in response to a tape sent to BBS 8 months earlier and a f/up letter (Berg) Excellent, gentlemen!! (Ed)

BYELORUSSIAN SSR: Radio Moscow, cards in for Minsk/9655 and Orsha/9755 from Mrs. Stepanova. Originally rcvd in 5 wks w/out sites, so I returned them and they came back in 1 month (Berg) card from Mrs. S. for Minsk/15150 w/small pennant (d'Adolf) Minsk/15150 in 25 days air (Neely) Minsk/15150 in 22 days air; map card (Flum)

CAMEROON: Yaoundé, 4972.5, map card in 35 days w/full data; no signature; seamail for 1-IRC and French report (Watman)

CANADA: Radio Canada, 15190, special transmission by 250 kw xmtr; stamped; 9 days (Kaufman) 15165, inauguration card for new transmitters plus FDC of CBC Commemorative stamp; 16 days (Banta) 5970, Anik card in 4 months (Magne) 9625, 12 days (Neely) 2 weeks (Banta) 15325, 16 days (Dickey) 8 days (Dildine) 14 days air (Hardester) 15440, 10 days (Burns) 1 month (Padula) 15325 (Banta)

CFRX, Toronto, 6070, color card of Toronto's Old and New City Halls; V/S: Clive Eastwood; seamail (Ingram)

CFVP, Calgary, 6030, card in 6 days surface (Kaufman)

CHU Time Signal, 3330, card in 10 days (Hardester) 27 days for 7335 (Kennedy)

CANAL ZONE: NBA, prepared card returned from Washington in 9 days; no IRCs. V/S: R. Glenn Hall for 17697.5 (Hailpern) ditto in 4 weeks plus mimeo letter from Frank Knutson direct in 3 weeks. Direct Address is: Box 5007, Fort Amador, P.O. New York, N.Y. 09580 (Michalenska) prepared card returned from Washington; 2 weeks (Field)

CANARY IS: RNE/Tenerife, 15365, complete veri statement in Spanish typed on the blank side of a QSL-sized program sked! 11 days air; 2 of the 3 IRCs were returned (Konen) blue folder card showing studio w/full data, pennant and sked in 9 days from Madrid for 2 IRCs and address label (d'Adolf) 17 weeks from V/S Juan de Rojas (Howard) 5 months for 1-IRC (Ricchezza)

CENTRAL AFRICAN REPUBLIC: Bangui, 5035, letter w/all info in 3 months for French rpt; 3 IRCs (Brode)

CEYLON: Radio Ceylon, 15120, old yellow card showing xmtr bldg; Sent to Bombay Ad Agency; 25 days air for Indian mint stamps (Konen) 2 weeks direct for English report on 11800 (Neely) Elephant Bath card; air in 6½ months (Marshall) card for 3 IRCs w/rpt to Bombay (Field)

CHINA (P.R.): Radio Peking, 15060, full data verie and letter explaining RP's purpose. From the "English Section"; one month air for aerogramme rpt (Smallshaw) 2½ months; no IRCs (Neely) QSL w/out verie data, plus magazines, p/cards and sked (Verzosa)

CLANDESTINE: Radio España Independiente, 14483, Picasso card via Prague from Paris. 1-IRC; 10 weeks. Gives frequency at 14480 kHz (Howard)

COLOMBIA: Radio Bucaramanga, 4845, Spanish letter from V/S: Jaime Sorzano B., Sub-Gerente; also small blue pennant; 14 days air for mint stamps and Span rpt (Zabransky)

Radio Nacional, verified w/beautiful color foto QSL card in 3 wks air; Span. rpt and mint stamps sent (Williamson) p/card of Church, sked in French (!) and typed thank-you in Spanish; 2 months, 3 weeks (Berg) 1 month for English rpt and MS (Brode)

Radio Santa Fé, card and pennant in 3 months seamail from Sr. de Bernal. I asked for a sked and the reply was "we work around the clock" hi (d'Adolf)

COLOMBIA: Radio Sutatenza, 5075, folder w/pic of transmitter facilities and station info; full data in 204 days for Spanish rpt and IRC (Watman) 6 months seaimail (Lewis)  
Radio Vision Medellin verified by letter in 4 wks air for Spanish rpt and mint stamps. V/S is unreadable (Williamson)

COMORO ISLANDS: Radio Moroni, 7260, sent fine QSL letter in French w/full details for report in French w/3 IRCs. Received in 15 days air w/sked. V/S: M. Satti, Le Chef d' Etablissement. (Hall) Excellent, Earle (Ed)

CONGO, D.R. RNC/Kinshasa, 15245, letter in French gives date and frequency, saying still out of QSL cards. V/S: V. Nikuna. 27 days air for French report and 3 IRCs for 3rd try (Zabransky)

Radio Bukavu, 4839, form letter w/full data except time. 191 days seaimail after several f/ups in French. ADDR: Le Directeur Provincial-Chef du Service de L' Information, B.P. 2220, Bukavu. Fully stamped and signed. (Hall) Rare! (Ed)

CONGO REP: ORTF/Brazzaville, yellow/brown map card in 20 days for 15190 (Hailpern) 3½ months air for 1-IRC (Insinger)

COSTA RICA: TIFC, card and mimeo letter in 5 weeks for mint stamps; also in 1 week (Smallshaw) 3 weeks w/9 postal cards, stamps and tourist info/pennant (Field)

CUBA: Radio Havana Cuba, 9525, full data card and letter for Voice of Vietnam relay in 1 year for aerogramme report (Smallshaw)

Radio Havana, 11760, card in 10 months (Sawallesh) 11840/15250/11960 in 16-26 weeks (Padula)

CYPRUS: BBC Relay, 7140, Thames card in 13 weeks; site written on back (Howard) 15420, letter sent direct from Limassol stating definite veri statement w/power, but no other details. V/S: G. A. Appleton, Engineer in Charge. No IRCs; 3 weeks (Kaufman) 13 weeks seaimail (Zabransky) 17 weeks; no data (Bruns)

CZECHOSLOVAKIA: Radio Prague, 17840, 98 days seaimail. No IRCs (Kelbher) 7345, new black/white card shows two women in Czech national costumes. 1 month (Banta) 25 days, w/sked and card in 46 days for 9540 ( ) 11990, 51 days seaimail; no IRC (Dildine) 1 month air for 2 IRCs (Kennedy)

DENMARK: Radio Denmark, 9520/11895, cards of radiohouse in 3/2 months w/full data air; no IRCs (Lobdell) 16 days air; 1-IRC (Ricchezza) 5 weeks for 1-IRC (d'Adolf) 15 days by air for IRC and English report (Watman)

DUBAI: Voice of the Coast, 6040, card from Abdul Marum Totad, Adv. Manager. 3 IRCs; reply on 2nd try in 6 weeks; by air (Field) Now issuing a card (Ed)

DOMINICAN REPUBLIC: HIN verified w/red/white/blue card showing island and call letters and two page letter from Sr. Hector Quesada, Gerente also received. Spanish report and mint stamps sent (Williamson)

Radio Cristal, 5071, pleasant letter from Elizardo A. Dickson N., Director General. Gives date and time and verification statement only. Air in 94 days; tnx to César Objio (Wood) letter from same V/S, headed "Prodisca" Division de Radio y Propaganda, Calle 19 de Marzo 62, 2° Piso, Santo Domingo. (Williamson) 5010, letter of acknowledgement w/no data; says will sent QSL and pennant for my next report. (Zabransky)

ECUADOR: HCJB, card of compound at night (Hardester) 3 months air; card plus new pennant and survey. 15115 (Hailpern) 24 weeks seaimail plus a miniature doll, and card showing view of Stereo Control Room, + sked and religious material. Air in 8 weeks also for 9715 kHz (Padula) 11745, 20 days air (Dickey)

Norea Radio sent a multi-colored, large letter plus flag and sked for relay over HCJB. V/S: Sigbjorn Spikkeland, Technician. 4 months air for 2 IRCs (Berg)

La Voz del Triunfo, 5955, letter in far from literate Spanish (typical spellings: "Buestra" for vuestra, "hasimismo" for asimismo, "bera" for vera), gives verie statement only. Included two photos of Colorado Indians and sent attractive gold/blue/red/green pennant showing two performers at mic. V/S: Manuel M. Yanez O., Gerente Propietario; air in 97 days (Wood) Sounds like my maid, who keeps leaving me notes addressed to "joben" (Ed.)

C.R.E. Guayaquil, 4765, letter/pennant in 1 month. V/S: Alicia de Blacio,

ECUADOR (cont'd): Secretaria. Reported in Spanish w/mint stamps (Williamson) 3 months air for Spanish report and mint stamps (Berg)

EL SALVADOR: Radio Nacional, card, no details, and travel brochure and small pennant in 1 month for 2 IRCs and local p/p/card. Reported in Spanish for 9553/5980 (Brode) 6 weeks w/pennant and blue/white card; mint stamps sent (Williamson)

ENGLAND: VOA/Wooferton, 15205, usual card from Washington by seamaile in 7 days. All info but time (Lobdell) 7 days (Mayo) 6 days for 15205 (Flum)

BBC, 11750, Thames card in 15 weeks. No IRC (Howard) 9510, sked and card in 81 days. No data (Gehan) 11780, 105 days (Munger)

ETHIOPIA: ETLF, Addis Ababa, 9680, blue card in 5 weeks after f/up w/2 IRCs (Bruno)

FIJI IS: Suva, 3284, colorful card of native sailboat on the beach sent by air for report w/5 IRCs; 46 days. V/S: P. Lloyd Littin. Country N° 100! (Michalenka)

FINLAND: FBC, 9530, usual card w/full data in 1½ months airmail for 1-IRC (Lobdell) 30 days air w/sked (Lewis) 7 weeks w/sked air (Ricchezza)

FRANCE: ORTF, orange card for 15120 in 14 days air. No IRCs; also folder sked (Konen) 17720/17730 hand written card for reports of English and Arabic transmissions; 2 months; Pennant promised under separate cover (Hailpern)

GABON: RTG, 4777, card w/full data in 5 weeks for English report. 2 IRCs (d'Adolf) card in 3 months for English report and 3 IRCs (Brode)

GAMBIA: Radio Gambia, Bathurst, 4820, form letter w/date and short confirmation stmt. Letter gives technical data on station and country. V/S: Director of Information and Broadcasting. Returned all 3 IRCs. 26 days air (Konen) 20 days air (d'Adolf) 3 IRCs sent (Neely) 4½ months following QSL received in May (Brode)

G.D.R. RBI, 9730, letter in 75 days from R. Friedel. No IRCs (Munger) sports star card seamaile in 12 weeks (Padula) 2 months for 2 IRCs (Howard)

G.F.R. DAN Time Signal, 6475.5, Elmshorn, full veri personal letter in 89 days air. IRCs and English report sent (Dildine)

Bayerischer Rundfunk, 6085, attractive card w/drawing of boy playing horn and towers in background. No data except acknowledgement and frequency. Air w/brochure on Munich in 8½ months. Mint stamps sent (Calkin)

Deutsche Welle, Köln, 9735, card and sked by air in 60 days. No IRCs (Gehan) 6075, map card of Europe, air in 94 days (Munger)

GHANA: Radio Ghana, card and sked for 3326; air in 6 wks (Padula) 11850, card in 33 days; all data (Kennedy) 43 days for 3295; no mention of 3326, so probably spurious (Hall) see above, Earle (Ed.) 11850, seamaile in 1 month (Banta) 5 weeks air (Ricchezza)

GREECE: NHBI, Athens, 15345, plain white card w/all details signed by the Director of Technical Services. 3 weeks air for 2 IRCs (Konen) 7 weeks for 15345 (Neely)

GUATEMALA: Radio Cultural, TGNA/B, 9505, green/red/white Quetzal bird card w/letter about the station and Guatemalan stamps in 1 month for 1-IRC; air (Konen) 20 days from V/S: David Keeler plus religious pamphlet (Hailpern)

La Voz de Guatemala, 6180, blue/white QSL, all details in 5 weeks for Spanish report w/mint stamps (Williamson)

La Voz de Mahuala, 3360, attractive card, all details except the time; reverse shows flame over mountains. Air in 132 days. No signer (Wood) 14 weeks air for Spanish report and 3 IRCs (Zabransky) 3 months + 1 week for English report and 2 IRCs (Brode) beautiful card in 2 months (Field)

GUYANA: Radio Demerara, 3265, card w/date and confirmation statement signed by A. Brewster for E-In-C. 22 days air for 1 IRC (Watman)

Guyana Broadcasting Service (Action Radio), form letter verie from Maurice O. Denny, C.E., which notes transmitters are at Sparendaan, 6 months from Georgetown on the coast; air in 3½ weeks (Dexter) so are Radio Demerara's xmtrs (Ed) 23 days for 1 IRC for 3290 (Zabransky) 9 days for mint stamps; theme mx at s/on is "Puppet On A String" (Hall)

HAITI: 4VEH, Cap Haitien, 11835, blue map card in 2 months air w/sked (Banta)

HAITI (cont'd): folder card in 22 days air from V/S: Mrs. Kent Ragsdale (Plum) 69 days w/1971 calendar, sked and religious enclosures (Marshall)

HAWAII: WWH, Maui, 15000, Blue Beach Scene card, no time. VS: S. Hatahana; 10 days; no IRCs (Dildine)

WVH, Kaul, 15000, Green card w/ocean/canoe/tree "1st Day" QSL; no time. V/S: C. L. Trembath (Dildine) 14 days (Mayo) 1st Day QSL in 14 days (Hailpern)  $3\frac{1}{2}$  weeks for 1st day (Berg) 1 month (d'Adolf) 1st day QSL in 4 weeks; omitted frequencies and serial numbers (Michalenka) 10000, 1st day QSL in 24 days (Konen)

HONDURAS: HRVC, Tegucigalpa, 4820, card in 63 days for mint stamps; no data (Munger) card and leaflet on programmes; 1 IRC and English report (Williamson)

HRQ, Radio Suyapa verified w/letter, pennant and QSL card, w/all details. V/S: Francisco Elortegui, Gerente. Reported in Spanish w/mint stamps (Williamson)

HRMH, La Voz del Junco, 6077, personal letter and 2 pennants in 3 weeks on 3rd try. V/S: Antonio S. Hasbun Y., Director. SASE sent, but not used (Field)

HUNGARY: Radio Budapest, 9833, blue card w/castle; air in 58 days (Ingram) 2 months w/2 newspapers; 1-IRC (Kennedy) 60 days; no IRCs (Gehan) 68 days; no sked (Fazekas)

INDIA: AIR, 11810/15080, two cards of Old Fort, New Delhi; 22 weeks via airmail (Howard) 11960, p/card of "Gate of Victory containing full data in  $3\frac{1}{2}$  months air. (Lobdell)

INTERNATIONAL WATERS: RNI sent photo card of the Mebo II, in 34 days for f/up on 6205 w/3 IRCs (Bruns) 43 days seamail for 3 IRCs (Gavaras)

IRAN: Radio Iran, long white card w/full data on right, station insignia on left. Also sked sked and attractive book on Iranian ruins. Total time was  $14\frac{1}{2}$  months after 3rpts, the last one registered w/5 IRCs. V/S: E. Golesorkhi, Director General (Berg)  $2\frac{1}{2}$  months for 4 IRCs (Brode) 9 months after f/up report. F/up sent registered air w/mint stamps. V/S: E. Golesorkhi; 15084 kHz (Hailpern)

IRAQ: Radio Baghdad, 9635, large envelope received from this station containing 5 magazines and 3 pamphlets, but no QSL! May have dropped out as envelope was torn open and postage stamps take off! 7 months (Banta)

ISRAEL: Card from kol Israël showing painting; for special test on 6180 kHz. Air in 6 weeks; no IRCs (Padula)

JAPAN: NHK, 15105/15300/17745, nice "Modern Hanga" cards for separate reports in 24/21/26/20 days; air. No IRCs (Lobdell) 9505, woodcut print in 19 days w/full data but time; no IRCs (Lobdell) 17 days air; no return postage (Hardester) 17785, sked and 35th Anniversary card in 22 days air ( ) 14 days (Ingram)

JORDAN: Radio Amman, 7155, attractive color card of the Pharaoh's treasure house; 3 IRCs. 20 days (Howard)

KOREA, REP: KBS/Seoul, 15430, sent p/card of Buddhist Pagoda w/full data by air in 1 month. Card was originally received blank, but returned it to have it filled out (Lobdell) 1 month, w/card of "Hall of Joyous Meeting"; reply by air (Hailpern) VOPK, 9640, pagoda and dancers card w/no data. 12 days for 3 IRCs (Blossoms) (Bianco)

KUWAIT: Radio Kuwait, 15545 yellow map and national dress card + sked; 1 month air//

LEBANON: Radio Beirut, card and sked for 17715; registered seamail in 19 weeks (Padula) 11775, color card showing station building in 118 days. Full details (Ingram)

LIBERIA: ELWA, drummer card; air in 4 weeks for 1-IRC; for very rarely heard freq. in eastern Australia of 3227 (Padula) 122 days seamail (Hardester) 11950, 6 months (Rabone) 6 months for 15170 (Lewis) 11975, 5 months seamail; no IRCs (Bianco)

VOA/Monrovia, 7195, card from Washington in 6 days seamail (Lobdell)

LITHUANIAN SSR: Radio Moscow, Kaunas, 11870, card from Mrs. S. specifying site (Berg) card specifying site in 7 weeks (Lobdell) 1 month (Brode)

"Radio Vilnius" programme, card for 9610, all details except site; sea in 17 weeks (Padula)

LUXEMBOURG: Radio Luxembourg, 6090, antenna card w/full data in  $2\frac{1}{2}$  months for 1-IRC (d'Adolf) 6 weeks for 1-IRC (Insinger) 64 days seamail for 2 IRCs (Dildine)

MALAWI: Radio Malawi, 3380, form letter w/full data for English report. 15 days (d'Adol)

MALAYSIA: Radio Malaysia, 6175, flag/map card w/acknowledgement only; no data; only picture of studio and sked. 20 days air for 3 3/4 ips tape and Mint Stamps (Zabransky) 9665, prog. guide and no-data card in 2 1/2 weeks after 2nd f/up. 3 IRCs (Brode)

BBC/FE Relay sent Thames card w/site typed in in 126 days (Hardester) 17 wks air. No IRCs (Konen)

MEXICO: XERMX, 17835, form letter w/no data, + pennant/sked. V/S: Director General, Lic. Victoria E. Perez de Leon; 6 wks registered air (Banta) 6 wks (Blossom) 15 days w/book mark (Ingram) 1 month for 17835 (Hailpern) 2 1/2 months w/sked, pennant air (Insinger)

XEUDS, Radio Universidad de Sonora, 6115, sent card (4x 6) heavily damaged in the mails in 19 days air w/no details (Hardester)

MOROCCO: VOA/Tangier, 15150, card in 11 days from Washington (Sawallesh)

MOZAMBIQUE: RCM sent photo card of station for 6050; 51 days after f/up (Bruns)

NEPAL: Radio Nepal, 11970, plain white card w/full data for tentative report. V/S: K. B. Khatri for registered report and 5 IRCs (Zabransky)

NETHERLANDS: Radio Nederland, 15425, card in 17 days air (Plum) station is offering free station pennant and car sticker. Send request to DX Juke Box (Ingram)

NETHERLANDS ANTILLES: TWR-Bonaire, special souvenir folding card for inaugural satellite relay transmission; 11910; Also standard QSL in 6 months seamail (Padula) 9730, card w/scene of xmtr building in 10 days air for 2 IRCs (Hardester)

Radio Nederland, Bonaire, 17810, b/w photo card showing a broadcasting team recording Radio Nederland's interval signal (Ingram)

NEW CALEDONIA: Nouméa, white card for 7170/9510 in 5 wks air for English report and 3 IRCs (Konen) 11710, card, letter and sked in 6 wks; all in French (Field)

NEW BRITAIN: Radio Rabaul, 3385, folder (no details) for 2 IRCs; sent it back w/request for more details and they complied. Total time 5 weeks (Brode)

NEW ZEALAND: Radio New Zealand, 15280, grey globe card, tiki charm, sked, 4 months seamail. 3 IRCs (Dildine)

NIGERIA: Radio Voice of Nigeria sent plain white card, w/full data and small flag on reverse; also sked. 3 weeks; no return postage; by air (Berg) 7275, green/white card w/sked; air in 3 weeks. No IRCs (Bianco) 15200/7275, b/w card w/sked. Air for 1 IRC (Mayo)

Radio Nigeria, Enugu, 6035, form letter w/date and time in 5 weeks. 4 IRCs (Brode)

NBC/Calabar, green/white card from Lagos for 6144 kHz. All details (Padula)

NORWAY: Radio Norway, 11850, card in 21 days; no IRCs. (Munger) 21730, 9 weeks; 9550/9645/11860/15175, cards of scenic views by air in 21 days (Lobdell) 17825, 3 wks (Banta)

PAPUA: VLT4, 4890, ABC domestic sce card from Boroko w/complete veri statement; 2wks air for 2 IRCs (Konen)

PARAGUAY: Emisoras Paraguay, 6015, card, personal letter and pennant from Carlos Marcial Sanchez N., Director-Gerente; received in 9 days for f/up of rpt in Spanish and 3 IRCs. Registered airmail. Correct address is: Av. Rodriguez de Francia 338-343, Asuncion as La Voz Nativa del Corazon de América. Full data (Hall)

PERU: Radio Santa Rosa, 6045, no-data letter in Spanish in 1 month for Span rpt (Brode)

Radio Tropical, Tarapoto, "4935" (measured as 4936.5). Long two-page letter, only date and confirmation text, from Juan Pablo Mori, Gerente-Proprietario. Air in 95 days. Enclosed magnificent multicolored pennant showing parrot, jungle and drums (Wood)

PHILIPPINES: FEBC/Manila, 11920, card in 37 days (Munger) 3 weeks for 3 IRCs (Blossom) 3 months seamail for 3 IRCs (Insinger) 11920 p/card w/native hut pic (Marks)

Radio Veritas, 15310, card and sked in 3 1/2 months. 2 IRCs (Brode)

POLAND: Warsaw, 15120, 2 cards for 2 rpts in 34 days (Neely) 15275, map card and letter in 12 days air (Konen) 36 days w/personal letter saying IRCs not req'd (Ingram) 10 days (Insinger) 11840, 2 months; no return postage sent (Dildine) 11815, 62 days (Plum) 15275, 2 1/2 months air (Ricchezza) 15275/15120/11890/9525, 6 weeks w/new pennant (Field)

PORTUGAL: Radio Canada, Sines, Satellite card from Montreal w/"Relay Portugal" typed in. 8 weeks seamail for 15265 (Padula)

PORTUGAL: Radio Portugal, 11955, card and sked in 17 days (Kennedy) large card showing exploration map; sked and DX Club info; air for 1-IRC (Ingram)

IBRA Radio; have rcvd second different card from IBRA in Sweden showing upward view of tower in orange; with station name and "QSL" in blue. Full data on reverse. 3 months air for 3 IRCs (Berg)

Radio Free Europe, blue/white card in 8 days from YC (Hailpern) 15170, 2 weeks from New York. No IRCs (Kaufman)

Radio Trans-Europe, card of transmitting tower, w/data on IBRA Radio. (Padula)

PORTUGUESE GUINEA: EO, Bissau, 5041, folder card in 19 days for Portuguese rpt; (Michalenska) 7 weeks for Portuguese rpt w/3 IRCs (Brode) 15 days (Lobdell)

ROMANIA: Bucharest, 6150, b/w card showing 5 scenes in Bucharest; 2½ months (d'Adolf) 6 wks, 5 days for 2 IRCs; air (Kennedy) 82 days for 11940 kHz (Flum)

SAO TOME: Em. Regional sent very attractive photo card of beach w/EM coat of arms on front, plus full data on reverse. Rpted to and rply direct. 5 wks air (Berg)

SARAWAK: Radio Malaysia Sarawak, 4950, card w/all details in 11 days. 4 IRCs (Brode)

SEYCHELLES: FBSA, Victoria, 15260, usual blue/white card in 5 wks air (Lobdell) 15260, (Konen) 15265/15260, card and literature in 4 months seair for 1-IRC (Brode)

SICILY: RAI, 6060, towers map card in 51 days w/full data. (Watman)

SOMALI REPUBLIC: Radio Mogadiscio, 6091, b/w card showing 3 antennae; full data via air for mint stamps, tape, p/c, adr. label; 23 days. V/S: C.L. (d'Adolf) 6093, card of towers surrounded by a wreath; air in 22 days. Full data for taped rpt (Lobdell)

SOUTH AFRICA: Springbok Radio, 3997, card w/S. African scenes; 2 weeks; 3 IRCs (Bianco) 17 days airmail for 1-IRC (Hall)

TANZANIA: Radio Tanzania, 5985, studio and drum card, date and frequency given; 39 days air for 5 IRCs (Zabransky)

THAILAND: Radio Thailand, 6070, sked and Overseas Svce card, w/travel fldr (Brode)

TOGO: Radio Togo, 5047, green/grey globe card in 6 weeks for French rpt w/mint stamps (Magne) 5 weeks air (Magne) 16 days air for 2 IRCs (Konen) (Konen)

TUNISIA: RPT Tunis, 9595, Friendly letter from A. Marzouki, w/sked in 3 weeks air//

! TURKS ISLAND: Cable and Wireless (WI) Ltd sent fine QSL letter for recent hurricane warning broadcasts; V/S: D. R. Mattocks, Manager. Air in 15 days for mint stamps (Hall) VSIS, 4780, letter w/full data, except time, in 16 days air for long letter/taped rpt w/ 5 IRCs and SAE (Magne) 14 days air for 4 IRCs (Michalenska) for 15/2 IRCs (Sizer)

U.S.A. WWV, 15000, Indians card in 12 days from V/S: John J. Stanley (Ingram) 1 week w/booklet on WWV (Magne) 4 weeks; no return postage (Berg) 3 weeks air (Insinger)

KGLI, 11955, yellow globe card in 18 days w/pennant (Ingram) 6 wks (Insinger)

URUGUAY: Radio El Espectador, CXA19, 11835, card in 58 days w/date, freq, time and veri stmt; V/A: Hector Amengual, Presidente; also pennant (Watman) 76 says for Spanish report w/3 IRCs. (Hall)

UZBEK SSR: Radio Tashkent, 11925, Chimes tower card in 2 months air. (Konen)

VATICAN: Vatican Radio, 15420, card in 25 days air (Maslak) 9615/9645/15120 cards by air in 20/11/26 days. No IRCs/ V/S: Michele Lemme (Lobdell)

VENEZUELA: Radio Angostura, Ci. Bolivar, 6119, personal letter from V/S: Sinar Guerra Hadriz (Director) plus magnificent pennant and p/cards. Air in 5 wks (Padula) 6 wks w/pennant and colored p/cards. ADDR: apt. 31, Ci. Bolivar (Williamson) (Ferguson)

Radio Barquisimeto, 9510, card in 2 weeks air for English rpt, 2 IRCs//

Radio Juventud, 4900, card in 15 days of teens dancing (Jamison)

Radio Mara, 3275, letter, 2 decals and a wallet! 10 days air after f/up;

V/S: Amelia Govea de Gainza (Dexter)

Radio Valencia, 3355, letter, registered air in 3½ wks after 4 tries. V/S:

Romulo Martinez, Dir. (Dexter)

Radio Yaracuy, 4940, green/red network card in 2 weeks air. Mint stamps sent. V/S: Luis Ortiz (Lobdell)

QSL OF THE QO TH presents:

Thanks for you report  
it is correct.

**RADIO NORDSEE INTERNATIONAL**

Broadcasting (Comm.)  
Radioship «MS MEBO 2»  
International waters

MW-Transmitter: RCA 105 kW  
F = 1232 kHz—244 m / 1367—220 m  
MW antenna: vertical Marconi

SW-Transmitter I: BBC 10 kW  
F = 6205 kHz = 48.3 m  
SW antenna: Inverted V

SW-Transmitter II: RCA 10 kW  
F = 9935 kHz = 30.18 m  
SW antenna: Inverted V

FM-Transmitter: R & S 1 kW  
F = 100 Mc, canal 44

Generators: 2 x 500 kVA Strüver-Diesel

MEBO 2: Length 60 m, width 9 m  
Displacement 570 BRT Aerial mast 52 m

RNI — Radio Nordsee International  
QSL-Dept.,  
P.O. Box 113, CH 8047 Zurich/Switzer and

To: Gregg A. Calkin  
North Am. Short-Wave Association  
131. Cooper Street Apt. 903.  
O T T A W A, Ontario,  
K2P 0E7.  
C A N A D A.

Our featured QSL this month comes from the offshore station Radio Nordsee International currently operating off the coast of Holland on board the Mebo II. RNI has been heard well in North America since beginning transmissions in early 1970, and can now be logged on 6205 kHz and occasionally on 9935 kHz. The reverse side of the card shows a beautiful color photograph of the boat and masts.

Finally, sincere thanks to the following 54 members who made this column possible:

John Banta, N. Y.	Marlin A. Field, Mich.	Wm. J. Alum, N. J.
Jerry Berg, Mass.	Tom Gavaras, Minn.	Audie Kaufman, N.Y.
Dean Bianco, N. Y.	Walter Gehan, Texas	Ben Lewis, Mass.
Tom Blossom, Ind.	Angelo J. Gero, Ill.	Chris Loddell, Mass.
Bob Brode, Calif.	Brent Hailpern, Col.	Larry Magne, Penna.
Ron Bruns, Mo.	Dr. F.E. Hall, Mass.	Anthony Marks, Ore.
John M. Burns, Fla.	Mike Hardester, Calif	Mrs. M. Marshall, Dak
G. A. Calkin, Mexico	Ron Howard, Md.	Joseph Maslak, Mass.
Steven d'Adolf, Mass.	Robert Ingram, Ohio	Paul Mayo, New York
Gerry Dexter, Wisc.	Edward Insinger, Col	Bob Moser, Ill.
Donald Dickey, Minn.	Danny Jamison, Va.	Doug Manger, New Mex.
Stephen Dildine, Va.	Joey Kennedy, La.	Hank Michalenka, MI
Dan Ferguson, W.Va.	Mark Monen, Wisc.	Tom Peely, Mich.
J. J. Fazekas, N. Y.	Robert Kelbher	Bob Radula, Australia
		Geo. Rabone, N. Y.
		E.M. Ricchezza, Pa.
		Bob Sawallesh, Va.
		Edward Shaw, Va.
		Alvin Sizer, Conn.
		John Smallshaw, Wi.
		T. R. Verzosa, Wash.
		Cornelius Webb, Tex.
		Dr. TB Williamson, Ontario
		Mike Watman, N. H.
		Dr. Richard Wood, La.
		Jim Zabransky, Ill.

Until next month, don't forget to send those report, by airmail, so that they will reach Mexico City by the 15th at the very latest.

Best 73s es DX, GREGG.

LISTENERS DIGEST

Dan Ferguson-Editor, 1521 Smith Road, Apt.7, Charleston, W.Va. 25314 Deadline 15th

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CHILE To late to get the info to the membership in time, I found that, according to a note from Arthur Cushen over HCJB's DX Party Line, Radio Presidente Balmaceda will broadcast a special program in ENGLISH for the New Zealand DX League on 26 September, at 0500-0515(DF) And Bill Matthews advises tha the NZ DX Times says the pgn will be at 0450-0515, and that reports should be sent to Sr. Hector Sepulveda, Manager.(Matthews)

SWEDEN R.Sweden is now on 11825 to ENA at 0000-0230. English at 0030-0100 & 0200-0230. Reception is very poor here in W.Va. at both times. RS is now using 9590 to ANZ at 0515-0545, poor in W.Va....The Eng tx to WNA continues on 11705 at 0330-0400. RS is now on 21625 at 1400-1530 to ENA. Eng at 1400-1430 & 1500-1530(Richard Wood, DF)

VATICAN VR is on 5995 to NA w/EE 0050-0100, for the fall quarter.(DF)

DOMINICAN REPUBLIC R.Antilles has been reactivated. Has been inactive since the latter part of 1967. Is on 4962+ kHz, and well heard evenings. (DF)

GAMBIA Radio Gambia, 4820 kHz, is sked 0625-0800 daily except Sunday, and 1655-2300 daily.(Al Sizer) The 0625 transmission is well heard in North America.(DF)

CONGO(DR) From time to time we will include notes on when/where certain stations might be heard. These notes will take into account propagation and scheduling. If such notes are useful, and productive of results, we will include them. I don't want to be accused of sending anyone off chasing wild geese, so please remember that these notes are based on schedule information, and not necessarily on actual loggings. Your comments welcome. The first such feature on the CONGO(DR);

Radiodiffusion-Télévision Nationale Congolaise, Kinshasa. Try 4880 kHz at \*0400 to abt 0600. Try 7115 kHz at 0200-0400. RFE is sked to use the fqy from 0400, but has not been heard there at the most recent checks, so this may be open longer....9770 kHz might be heard around 2200.....Try 15245 around 0200-0600 and 1800-2000.

Radio Lubumbashi might be heard in the 0415-1000 time slot. Best bet seems around 0415-0630 GMT.This on 11862v kHz....9540 may be currently active; if so would be best hrd around 0630-0700.

Radio Mbandaka is currently scheduled 0400-0800, and 1500-2100, but there does not seem to be any chance of hearing this one in NA currently. 5993 kHz.

Radio Bukavu, 4839 kHz, try 0400 s/on till 0530. Will be best at s/on, when audible.

Radio Kasai, Luluabourg, 6125 kHz, scheduled 0400-0700, but VoA-Gvl covers the channel.

Radio Mbuji-Mayi, 7300 kHz, might be audible around 0400-0500 kHz.

(Comments on this type of information desired. If you find it useful, what other areas or countries would you like covered in this manner. Please remember, the above times are given only as POSSIBILITIES.) (DF)

COSTA RICA Current SW operations from Costa Rica:

832 kHz Radio Capital, 24 hours

5954 kHz Radio Casino, 1 kw, 1200-0600

6006+ kHz R.Reloj, 1 kw, 24 hours

6037 kHz TIFC, Faro del Caribe, 1 kw, 1130-0400, English 0300-0400.

6150 kHz R. Atenea, 1 kw, 24 hours. Well heard 0600 & later,

9645 kHz TIFC, Faro del Caribe, 2 kw, 1130-0400. English 0300-0400.

(DF)

ECUADOR HCJB is now using 9615 to NA in EE at 0110 past 0500, //11745/15115 kHz. (DF)

ECUADOR I will be contributing short tapes with DX and SWL information to the HCJB DX Party Line. Exact dates are not yet determined, but there will be an average of two tapes per month, each about 5 min. in length. The DX Party Line is aired at 0030 Monday(GMT) on 11745 kHz, and at 0300-0330 on Tuesday(GMT) on 9615/11745/15115 kHz to NA. (DF)

JAPAN There are several SW outlets relaying Japanese HS transmissions in Japan. The following list is by no means complete, but I have found no further information on the regional Japanese outlets. If any member has additional information on these outlets I would appreciate hearing from that member.

Hiroshima - 6175 kHz, 5 kw, 2030-0900  
Matsuyama - 6005 kHz, 5 kw, 2030-1500  
Nagoya - 9535 kHz, 5 kw, 2330-0830  
Tokyo Kawagu - 9550, 5 kw, 0100-1300

Best chance for NA DXers to hear Hiroshima on 6175 seems to be 0830, from the info I have. Best chance for Matsuyama would be around 1000 & later. WC DXers might have a better chance than those on the ECNA, since it is still a target after R.Reloj has faded...Nagoya on 9535 may be difficult to hear since Kuching, Sarawak, is also on the freq till 0830 s/off. However, if Nagoya is to be heard in NA, it would most likely be not long before the 0830 s/off....Try for Tokyo Kawagu on 9550 from around 0800 till they s/off at 1300. West Coasters again probably have the best chance of hearing this one. (DF)

QUESTION How do I hear Turk Island?

Answer: Wait 12 years for the next hurricane to hit the island, then tap Al Niblack's phone to find out the correct freq to tune. And speaking of Turk Island, a note from Don Jensen says, "Not wishing to rub salt in the wound, but Turk Is. just verified by letter for 4788, Aug 25 (GMT)." OK, Don, thanks for the pepper!Hi. (DF)

ANARC AWARDS COMMITTEE This editor is the new chairman of the Awards Committee.

Nominations are being accepted for Merit Awards, and for the 1972 Man of the Year Award. Nominations for either award should include a letter giving full details, plus 4 carbon copies of the letter and a self-addressed, stamped envelope. Any member of an ANARC affiliated club may make nominations. (Dan Ferguson)

BAND SURVEYS are being compiled for the following bands: 1605-4000 kHz, 4000-5700 kHz, and 5700-7000 kHz. Hopefully the first survey will be completed in time for the November FRENDX. (DF)

NEPAL The sked of R.Nepal as of 15 August:  
0120-0350 on 4600 & 7105  
0720-0920 on 7105  
1320-1650 on 4600/7105  
Pwr & lang not given. (Jim Zabransky, Jr.)  
7105 was 5kw last I knew. (DF)

Very little material in for this section this month, undoubtedly because of the late arrival of the September FRENDX, and the fact that most members were not aware of what type of material was desired..... WE WILL BE using schedules of stations, hopefully after they are checked out for accuracy. The sooner the material is here the easier it is to check schedules out on the receiver; so although we have a deadline, you are asked not to wait for mailing until just before the deadline. I will be checking out some of the schedules here, and cooperators will be checking in other parts of the NA. This should enable us to give the SWL a clear picture of what stns he can hear in NA, especially English programs....We currently plan a quarterly list of English transmissions to NA, and to include other EE transmissions easily heard in NA. For the winter quarter this will appear in DECEMBER, to give time to collect the info after the winter skeds go into effect....Your notes on xmsns hrd after 6 November should be here by 18 Nov, for inclusion in the December issue.....

Other material which might be of general interest to DXers & SWLs is also welcome. We especially are interested in accurate skeds of DX stations, but if you don't know how accurate they are, send them in anyway - we'll get them checked out..... Personal notes about the members are welcome; e.g., comments on equipment and/or techniques, etc. (Just remember that feature articles belong in the SHORTWAVE CENTER, so should be sent to Bill Matthews. ....If you have questions that can be answered here, we will try to do so. I.e., questions about unidentified stations, or even where & when to try for a particular country, we'll even try to get an answer for such questions.....This section can be pretty much what you want it to be, so let me hear from you. 73, Dan Ferguson

## LOG REPORT

Jerry Berg-Editor, 38 Eastern Avenue, Lexington, MA. 02173 Deadline 12th of Month

Be alert to new address!! Mail before deadline!! Please use NASWA report forms!

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Please note the above change of address for your editor. From now on please send all reports and correspondence to that address, 38 Eastern Avenue, Lexington, Mass. 02173. Another bumper crop of reports this month . . .

- 2326 S.AFR. SAEC, vy good in EE 2030-2100, Afrikaans 2346 (BP).  
 2340 CHINA Foochow(listed), fair 1242-1250, ID 1246 (DW).  
 2475 CHINA Hangchow(listed), clas.mx, singing 1306-1315 (DW).  
 2510 S.KOREA KES-Taegu, drama, EE ID 1300, EE anmt, into Korean(DW).  
 3215 DOM.REP. R.Libertad, SS sports at 0350 (LM).  
 3230 FIJI Suva, EE, ID 1030, same quality as 3284. Gone by 1045(ECS).  
 3245 VENEZ R.Libertador, LA mx, talk, anthem to 0401\* (LM).  
 3260 UNID. Church svc 1045, vy low. No doubt Pacific/Asian (ECS).  
 3265 GUYANA R.Demarara, rel prgm to 0915, ad, into Hindi, //5980(BB). Also EE anmts, Hindi mx to 0952 when had local nx (GH).  
 3275 VENEZ R.Mara, ads, ID 1029 as "su emisora musical" (GH). Also 0315 w/mx, comls (JA), and anthem at 0400\* (TDS). Tentative, 1003-1040 w/Maracaibo ads, TCs (MH), and LA mx at 0235 (LM).  
 3284 FIJI Suva, local mx and drums, 1000. Low but readable (ECS). Anmt in Fijian 1015, then Hindi mx (BB).  
 3285 BRAZIL Emis.Educ.Rural, pop mx, PP anmts to ID at 0200\* (TW).  
 3290 GUYANA GES, 0845 s/on w/chants, but goes down hill quickly (SPD). IDs as "Action R., Sound of the 70's"(BB). EE prgms, local mx, comls hrd 0912-0945 (FWI,CB), N:E 0945 (JA), hrd faintly 1035 w/EE, pops (RWP). "World Tomorrow" 0210 (AAM).  
 3295 UNID. Mx in lang, 0401, vy feeble (LM).  
 3300 GRENADA WBS, N:E 0200, ID 0210, then off (AAM,WBC).  
 3315 BRAZIL R.Gazeta de Alagoas, ID and ads at 0045 (TW).  
 3322 BOUGAINVILLE IS. RB, native mx 1030-1045 (TN), church svc w/choral mx at 1030(ECS). Also pop mx 1220, ID 1222 (TDS).  
 3325 VENEZ R.Monagas, SS mx to 0305, then abrupt s/off (RB).  
 3326 UNID. Pops 0530. Maybe LA, but could be African (BB).  
 3335 N.GUINEA R.Wewak, EE tlk, peaking 1045, weaker than 3385 (BB).  
 3339 ZANZIBAR IS 0327, anmts 0330, into chants (DF).  
 3346 ZAMBIA Lusaka, Afr mx, EE ID 0435, hvy QRN (RWP). Mx and tlks at 0500 (CB).  
 3350 GABON Libreville, grp discussion in FF, 2250-2300 (ECS).  
 3350 GHANA Ejura in EE 0533, stronger than non-//3366 (RWP).  
 3350 GUATEMALA Voc de Nahuala, anmts, IDs 0140 (TW).  
 3365 DOM.REP. R.Exitos, SS folk mx 0152, anmt 0200 (KS).  
 3380 MALAWI Blantyre, native mx, ID and N:E 0400, native mx to 0427 f/out (SPD). N:E 0400, lang nx 0405, nat'l mx 0410, EE "Breakfast Show" 0415 featuring pop and Afr mx (JZ,Ed).  
 3381 UNID. LA, 0423-0503, sounds like "R. Cultural" (LM).  
 3385 BRAZIL R.Cl.Teresina, pops 0210, nx 0250, full ID and 0300\*(TW).  
 3385m N.BRITAIN R.Rabaul, native singing 1045 (BB), request prgm w/pop tunes, native lang at 1220 (TDS).  
 3385 FR.GUIANA Cayenne, FF tlk 0930 (BB).  
 3390 ECUADOR R.Zaracay, LA mx, IDs and anmts 1024 (DJ).  
 3925 PAPUA ABC-Pt.Moresby, drama 1045. //4890 is better (RWP).  
 2045 JAPAN NSR. ending "Let's Learn Japanese" at 1100 (DM).

- 0213 (GD). 4835, strong sigs, pop mx and ID at 0445 (AEM).
- 834 SARAWAK Kuching, peaking at 1045 in lang (BB).
- 4839 INDONESIA ambon, pop mx 1348, anmts 1358 to 1400\* (DW).
- 4840 VENEZ R.Valera, ID, ads, mx 0146 (AAM), ID, part of anthem at 0625 (BB).
- 4845 BOTSWANA Gaberone, \*0400, native mx, ID. N:E 0420, nx in lang 0430, then mx, and BBC WS nx in EE 0500. 0527 f/out (SPD,DF).
- 4845 BRAZIL Rdif.Teresina, futebol, mx 2250, ID 0025 and 0105 (TW).
- 4845 MALAYSIA Kuala Lumpur, Hindi mx 1045 (BE), also Indian style mx at 2315, but hvy LA JRM (AEM).
- 4850 PERU R.Atlantida, ID, Andean mx at 0450 (BB).
- 4850 INDIA Kohima, chants, sitar mx at 2055 (AEM).
- 4860 MAURITANIA Nouakchott, AA nx 2045, then local mx (AEM).
- 4855 INDONESIA Palembang, Indonesian talk at 1045 (BB).
- 4855 MOZAMBIQUE L.Marques, mx, PP anmts 2145, nx 2200 (ER).
- 4860 VENEZ R.Maracaibo, LA mx, ID at 0950 (JDT).
- 4864 BRUNEI Berakas, native songs at 1045. Peking absent (BB).
- 4870 DAHOMEY Cotonou, FF and native mx 2143, anthem, ID and off 2259\* (SPD). Also fair at 0600 during EE lesson for FF lstnrs(RWP)
- 4871 VENEZ R.Tropical, ID, jingles, LA mx at 0200 (LM).
- 4872 W.IRIAN Sorong, mx, cmtry at 1030, nx 1045. Presumed (ECS). Talk 1100 (BB), romantic mx 1258. ID, IS, joined Djakarta for nx at 1300 (GH).
- 4875 BOLIVIA LaCruz del Sur, SS ID 0212, SS anmts, ID, TC 0215 (DW).
- 4875 S.AFR. SABC, Afrikaans svc, clas.mx, 0510, //6075. NF/C (DF).
- 4880 DOM.REP. R.Comercial, IDs, pop and SS mx 0435, 0459\* (JZ).
- 4888 BRAZIL R.Pioneira, nonstop PP ads at 0210 (LM).
- 4890 PAPUA ABC-Pt.Moresby, mx 0755 (DM), play 1044 (PM), EE mx at 1145, but soon faded (JA).
- 4890 SENEGAL Dakar, \*0600 w/drums, pips, some FF, then vernacular (AEM,JA). Also hrd w/IS 0652, FF nx 0700, native mx to 0732 fade (SPD). FF nx, good, at 0717, to 0730 t/out (WBC).
- 4895m UNID. pips at 1130, then drums. Fair. Kurseong? (TDS).
- 4895 MAURITIUS is expected to move here from 4850 to escape JRM (SCDX via RWP).
- 4895 SARAWAK Kuching, talk in lang at 1030, Hanoi JRM (BB).
- 4895.3t N.VIETNAM Hanoi, 1030 (BB).
- 4897 PERU R.Chanchamayo, Andean mx, in SS at 0430 (BB).
- 4904 CHAD Ft.Lamy, 0530 w/FF prgms, some Afr mx, peaking 0545. FF nx 0530, AA nx 0540 (RWP).
- 4907 CAMBODIA Phnom-Penh, talk in Cambodian 1100, not //6092 (BB).
- 4911 ZAMBIA Lusaka, fair in vernacular to 0717 t/out (WBC).
- 4912 DOM.REP. R.HIN, nx 2305-2320, drifting upwards (LM).
- 4915 GHANA Accra, N:E 0600, mx 0613, into lang (DM). Nx 2115 (AEM), into lang 2130 (ER).
- 4915t ECUADOR R.El Trebol, SS, while fog clear, 0215-0222 (LM).
- 4916 COLOMBIA R.Guatapuri, LA mx, ID at 0230 (LM).
- 4920 HONDURAS R.Progreso, relay VOA in SS 1215-1230 (GH). SS ID, ads, mx at 0240 (LM).
- 4920 AUSTRALIA Brisbane, pop mx 0900, JRM from Progreso (FM).
- 4920 VENEZ R.Caracas, frequent IDs and TCs, LA mx, 2250 (AEM).
- 4926 INDONESIA Djambi, ID and gongs 1500, talk in Indon, fading rapidly (DW). 4927t, 1045, RFTY JRM (BB).
- 4930 DOM.REP. R.Mil, on late 9/4 to 0700\* (BP).
- 4940 IVORY COAST Abidjan, hrd in FF 0603, TCs, nx, Afr pops (RWP), and FF discussion 0630 (FB). EE lesson 2155, FF nx 2200 (ER).
- 4945 COLOMBIA R.Colosal, sports 0235 (SK), nx 0620 (RWP), singing and IDs 0630 (RB). Records and TCs 0721-0752 (RH).
- 4965 COLOMBIA R.Santa Fe, records, IDs, TCs, 0649-0715. Fair (MH).

- 4966t ANGOLA R.Cl.de Malange, vy tentative. Extremely weak arnd 2230, believed PP (GD).
- 4970 CLANDESTINE stn, annng as Conakry, pop mx, Afr drums 0615-0645 (LM). Also in FF at 0630 w/Afr mx (BE).
- 4970 SABAH Kota Kinabalu, peaking in Malay at 1100 (BB).
- 4972t CAMEROUN Yaounde, vy tentative, weak Afr mx, ID 0529. Absent QRM resumed 0535 and wiped 'em out (RWP).
- 4974 BRAZIL R.Timbira, PP vocal mx, TC at 0830 (WBC).
- 4975 PERU R.del Pacifico, talks, hymns, clas.mx from 0405, to 0433\*(JZ)
- 4980 BOLIVIA R.Illimani, IDs 0600, flute mx. Strong (DF). Running all night 8/21 w/Andean mx, military mx, pro-Torres anmts. Hrd 0716-0958 (SK).
- 4980 GHANA Ejura, EE birthday greetings and mx, 0530 (JA). Drums 0559, EE 0600. 4915 better (DM). Afr mx and pops till 0600 ID and N:E (RWP).
- 4980 VENEZ Ecos del Torbes, pop mx 0206(JZ), LA mx 0245-0320 (LM). Full ID 1000 (BB).
- 4985 MALAYSIA Penang, lang 1100 (BB), vy weak at 1230 (TDS).
- 4990 NIGERIA Lagos, N:E, cmtry 0445, Afr mx 0500 (EB,DF).
- 4990 VENEZ R.Barquisimeto, EE pops, IDs 0355-0402 (DM).
- 4994 SUDAN Omdurman, hrd 0402 w/chants, vy poor (RWP).
- 4997 PERU R.Andina w/S talk, Andean mx at 0724 on Sun, strong (RWP).
- 5010 DOM.REP. R.Cristal, SS w/US pops, 0500 (JZ).
- 5010 CAMEROUN Garoua, native chants 0515, flutes (EE).
- 5012 RHODESIA Gwelo w/local mx, vernacular nx at 1940. Poor (AEM).
- 5014 ANGOLA R.Cl.do Mocamedes, drum mx 0615, rapid fade (B).
- 5015 GRENADA WBS, N:E 2330 (WBC), BBC nx at 2300 (GD).
- 5015t BOLIVIA Believe weak SS stn at 0945 w/Andean flute mx is R. Universo. Fades out and Vladivostok takes over (EB).
- 5020 COLOMBIA Trans.Caldas, sports 0232 (SK), SS nx, anmts, comls 0330-0345 (KS). 0415 (DF), ID 0630 (AEM).
- 5022 HAITI R.Independence, FF anmts 0115, merengue mx. ID 0215. Hrd for 2 hours on 9/1, but not since (TW).
- 5023t ECUADOR R.Splendit, in SS to 0530\*, no ID hrd (B).
- 5030 SARAWAK Kuching, in lang 1115 (BB), chants 1202 (TDS).
- 5030 VENEZ R.Continente, many IDs 0330 (DM), nx to 0359\* w/anthem (KS). Hrd w/anthem, cock crow at \*0930 (JDT).
- 5038 CENT.AFR.REP. Bangui, FF talk, Afr mx 0430 (TN), pops and IDs 0502 (RWP). Hrd in EE daily 2125-2143 (ER), and EE nx bulletin 2200-2215 (KS). Also pop and local mx 2245 (AEM), anthem to 2304\* (LM). Clas.mx on Sun to 2300\* (ARN).
- 5041v PORT.GUINEA Bissau, US pops to 2341, FF nx to 2357, more mx(HM). ID 0000, then mx (DF). Also good level at \*0700 w/anthem, ID, into Afr choral mx (RWP).
- 5047 TOGO Lome, FF ID at \*0530 (EB), vernacular nx at 0610 (CB). N:E 1955, into FF (AEM). Afr mx to 2200, then FF nx (KS).
- 5047 INDONESIA Jogjakarta, Indonesian talk 1100, low modulation(EB).
- 5050t PERU Hrd strong level one Sun morn, piano and orch mx, also some Peruvian guitar mx. An "OAX" ID 1000, maybe "Tumbes" hrd(RWP).
- 5050 VENEZ R.Murdial, fair w/LA mx, IDs 0050 (RWP), "Musica Popular" 0010-0036 t/out (JDT). Full ID, comls at 1000 (EB).
- 5060 ALBANIA Tirana hrd w/ID at \*0400. HS, mid-east style mx (DF).
- 5070 DOM.REP. R.Cristal, SS nx 0612 (BK). Thought they have settled back on 5010 now . . . (Ed)
- 5085 INDONESIA Medan, fair, with chants at 2315 (AEM).
- 5170 CHINA Fukien Province listed, Mandarin political talk at 1100. Any specific info available on these channels? (BB).
- 5804 YEMEN Sanaa, AA talk, chants, weak at 033- (LM). Hrd at 0300 w/s/on anmt, then antnem and chants. Strong, but deteriorates(Ed).

- 5875 HONDURAS LV Honduras, tlks in SS, mx, gongs arnd 0220 (DJ).  
And LA mx 0325, nx 0330 (ER).
- 5900 CHINA Fukien(presumed), talks and mx around 1100 (DJ).
- 5900 ECUADOR(presumed) LV del Norte, vy weak under CW at 0205 (GD).
- 5931 CHINA(presumed) Chengtu, CC talk presumed frm here at 1105 (DJ).
- 5935 NICARAGUA Rdif.Nac, SS cmtry 0245, LA mx 0250 (ER).
- 5954 COSTA RICA R.Casino, pop mx, EE anmts to 0600v\* (RB,KAE).
- 5955 E.GERMANY RBI, GG to NA 0145-0230, NF/QC, ex-11190.//9730(BB).
- 5955 GUATEMALA TGNA, ID 0320 (RB), running past 0700 (DF). Also hrd w/SS rel prgm under VOA at 1230 (BB).
- 5955 S.AFR. SABC, ID 0430 (JA).
- 5960 ECUADOR HCJB, RR 0505, NF ex-6050 (BP).
- 5960 GREENLAND Godthab, \*1500 w/IS, pop mx, rel prgm in EE after 1710. Many IDs, fair level (DB).
- 5962 BOLIVIA R.Pio XII, nx, IDs, singing comls 1220-1230 (ECS).
- 5965 BRAZIL R.Guaiba, PP nx 2355 (AAM), ID 0015 (JF), mx 0130(ECS).
- 5970 PERU R.El Sol, pop mx, EE/SS anmts 0604-0730 t/out. Covered by Canada at 0832 recheck (RB).
- 5979t PARAGUAY R.Guaira, Indian mx 0945 (BB).
- 5980 COLOMBIA R.El Sol, SS, IDs, TCS 0910 (JZ), mx, ID 1025 (JF).
- 5980 EL SALVADOR R.Nac, SS mx, fair at 0000 (JA).
- 5985v ARGENTINA SS stn hrd at 0945 w/discussion on B.A., not certain if "R.Splendid" or "R.Nacional" ID used at this time (BB).
- 5985 USA WNYW, CBS nx from 0200, NF/QC (BB).
- 5990 ITALY RAI, ending EE at 0440, NF/QC (DF).
- 5990 PHILIPPINES Presumed ABS-CBN B/C Corp, Quezon City, with Tagalog talk at 1015. First time hrd (BP).
- 5995 MALI Bamako, FF sports event at 2218, vy strong (ER).
- 5995 MARTINIQUE ORTF, FF cmtry, Caribbean and pop mx, 0115 (ECS).
- 6000 AUSTRIA Vienna, strong 0445 w/lite mx, //6155. Innsbruck 4 kw listed, but not likely, as stronger than 6155 (DF).
- 6005 CANADA CFCX, pop mx, nx every half-hour (ENR).
- 6005 VATICAN VR back here, ex-15420, 0050 in EE, //9615,11725 (BB).
- 6006 COSTA RICA R.Reloj, 0100 w/mx, anmts, time checks, comls (KS).
- 6007 BOLIVIA R.Progreso (presumed), definitely Bolivia. 1200-1215 f/out (ECS).
- 6010 CANADA CJCX, 1112, sports, talks, ads, gone by 1120 (JF).
- 6010 PORTUGAL Dw-Sines, \*0525, Czech 0530. NF ex-11865 (BP).
- 6015t PARAGUAY R.Paraguay, Latin class 0300, also mx. Muffled (ECS).
- 6020 PERU R.Victoria, clear fgy at 0640 on Sun. LA pops, local IDs (RWP). Also hrd w/mx at 0645, excellent sig (DF).
- 6025 PORTUGAL Lisbon, mx to 0200, then EE "Voice of West" nx (JWC).
- 6030 COLOMBIA R.Nac, SS mx, good level, EE ID at 0230 (JWC).
- 6035 BRAZIL R.Globo, good when left air suddenly at 0334 (DF).
- 6040 COLOMBIA LV del Tolima, nx, frequent IDs 0220 (JDT), mx 0330(GD).
- 6040t TRUCIAL STATES Sharjah maybe the one at 1215, mixing Colombia(BB)
- 6044 INDONESIA Djakarta, lang, not Indonesian, at 1200 (BB).
- 6050 ECUADOR HCJB, good chance to hear Quechua is 1000-1100 (BB).
- 6054 COLOMBIA R.Pacifico, fair 0325 (GD), also 1010 (BB).
- 6055 JAPAN NSB, 1130 in Japanese (BB).
- 6070 VENEZUELA R.San Sebastian, mx, ID 0320 under CFRX (GD). Also mx, SS anmts 0245-0305 (KS).
- 6075 S.AFR. SABC Afrikaans svc, mx 0510, //4875. \*0400. QC (DF).
- 6080 S.AFR. RSA, EE 1130, //9560,9695,11970 (HSt). FF 0220 (BB).
- 6090 AUSTRALIA Sydney, N:E 0800 (BB), poor in EE at 0817 (JF).
- 6090 LUXEMBOURG RL, pops, EE/GG/Dutch anmts, comls 2300 (RWF).  
EE nx summary 0100 (ENR, HS).
- 6093 IRAQ Baghdad, AA cmtry 0305, QRM from Brazil (ECS).
- 6093 SOMALI Mogadishu. AA talk and chanting 0300, to 0325 f/out(JZ).

- 6095 THAILAND Thai TV Co, N:E 1130, good sig at 1145 (DB).  
6100 W.GERMANY DW, N:E to NA at 0130, good (HSt).  
6100 VENEZ Cagigal Observatory, TCs, ID 0620 (JF), good 0755 (RWP).  
6104 BRAZIL Ceara R.Cl, in PR at 0330 w/US pops (BE).  
6105 PERU R.Nacional, Tacna, ID 0428, guitars, many IDs. Good (RWP).  
6115 CONGO RTVC-Brazzaville, 0500 f/in, pops, FF nx arnd 0515 (RWP).  
6120 ARGENTINA R.El Mundo, LA pop mx 0008, nx 0030 (JDT).  
6119 VENEZ R.Angostura, talk, ID 0220 (DF). 6120, \*0950 w/mx (ECS).  
6120 FINLAND Helsinki, Finnish HS prgm 0600, low audio (BB).  
6125 COLOMBIA R.Continental, ID 0313, LA mx. Blocked by VOA 0315(BBr).  
6140 COLOMBIA R.El Sol. LA mx 0440, nx 0500, also IDing as LV de Cali"(JDT). Hrd 0355-0405, also w/the Cali ID (ARN).  
6140 SPAIN RNE, EE to NA at 0110 (HS), also 0200 (HSt).  
6145 BRAZIL R.Nac.Rio, mx, many anmts 2320(JDT), talks, ID 0840(JF).  
6145 W.GERMANY DW, EE features, sports, mx, //9545 (RB). Time? (Ed).  
6150 AUSTRALIA Melbourne, EE talk at 1030 (BB).  
6150 COSTA RICA R.Atenea, SS mx 0515, IDs, talk, more mx (DF).  
6155 AUSTRIA Vienna, FF/EE/GG ID 2258 (JA), EE 0000-0030 (HSt).  
"Rpt from Austria" 0030 (DM). SS cmtry to LA 0050, 0058\*. Also Hrd w/FF nx at 0045 (WBC).  
6160 CANADA CKZN, C&W mx 2230, then CBC and local IDs for AM/SW(JF).  
6165 MEXICO XEWW, brilliant level at 0500 ID (ARN). Tentative, SS nx to 0648\*, no anthem (JZ).  
6170 VENEZ R.Nac, mx, ID at 0900, then more mx (RB).  
6175 MALAYSIA Kuala Lumpur, chimes IS at 1100, into Mandarin 1105 (RWP, AAM, JF).  
6180 GUATEMALA LV de Guatemala, marimba mx and many IDs at 1207 (JDT).  
6190 MOROCCO RTVM, AA chants and anmts 2300, to W.Afr (RWP).  
6195 HAITI R.Haiti, FF, pop and jazz mx, ads 0029 (LM), and easy listening mx at 1031 to 1100 t/out (JDT).  
6195 S.AFR. Springbok R, ads, EE/Afrikaans 0400 (DF). EE coml prgm 0430 (JHP), N:E 0433, with Tunisia QRM same fqy (RWM). Mx 0500, ads, TCs, current affairs talk, concert mx (JA, SK, DM, JF).  
6195 TUNISIA Tunis, AA chants arnd 0445 (TN, JF).  
6205 PERU LV de Huamanga, IS at \*0405, nx, local wx, old pops (DB). S/on at 0400? (Ed). 6202.8, ID 0400, Andean mx (BB).  
6205 INT'L WATERS RNI, pop mx, ltrs, ads, from 2330 to 0206\* (JF, HS, KS, JZ). Also 0600 w/pops (RWP), 0615, 9934 not hrd (KAE).  
6250 Eq. GUINEA R.Santa Isabel, hrd from 2245 to 2257\* after 4 mins. of "Los Voluntarios." Gongs, TCs, "Venus" hrd often (RWP).  
6250 PERU R.Cuzco, SS nx 0250, mx and talk to 0405 t/out (DW). ID 0300, ads, LA mx (DW).  
6251 N.KOREA Pyongyang, talk in HS, 1045, //6400 (LM). 1000 (BB).  
6279 INDONESIA RRI stn, continental melodies 1250, 1259 Indo anmt, RRI IS and ID 1300, and over-the-air nx relay. Where? (GH).  
6340v UNID. Possibly Turkey, mid-east mx 1845, western pops 1857. Ankara mentioned at s/off (AEM).  
7019 CLANDESTINE stn ancng as LV de "Cuba Libre" (I think), noted at 1135\*, ancng for Sunday xmsn, and many "Viva Cuba Libres." Claims to represent La Frente Cubana Revolucionaria," right wing organization (BB).  
7107 INDONESIA Jogjakarta, strong 1120-1405, N:E 1145-1157, local ID, Djakarta nx relay. QRM from Malaysia-7110 (BBr). 7110, local ID 1030, up from usual 7105 (BP).  
7110 MALI Bamako, \*0755 w/anthem, into lang, w/some FF words (ECS).  
7115 CONGO Kinshasa, weak w/Congo rhythms 0215, past 0305 (DF).  
7125 GUINEA Conakry, guitar 0602, opening 0605 w/ID and FF nx (RWP). Also FF nx 0800, one of last Africans on the band (BB).  
7135 VATICAN VR, N:E 2215, ex-15155; CC 2230, ex-7250 (BP).

- 7140t INDONESIA Ambon, EE pop mx 1000, 7 time gongs. Man host, but speech unreadable (ECS).
- 7145 PORTUGAL DW-Sines, in RR \*0358, NF ex-7285 (LM).
- 7155 FRANCE Paris, EE to Afr, mailbag at 0523 (HS).
- 7155 JORDAN Amman, chanting 2250, EE ID 2300, more chants (AAM). Orchestra mx to 2249, chants, nx 2300, 2312\* (LM).
- 7170 N.CALEDONIA Noumea, lite mx, FF anmts 0730-0830 (AK). Discussion 0815 (BB), island mx at 1045 to 1100\* w/anthem (TN).
- 7175 AUSTRALIA RA-Shepparton, EE to Asia 2130, NF ex-7135 (BP).
- 7180 W.GERMANY R.Liberty, RR talk 0215, NF (LM).
- 7180 IRAQ Baghdad, chants at 0240 (DF).
- 7195 JAPAN NHK, mx at 1010 in SEA svc, //9705,11940 (RBO).
- 7200 RSFSR(As) Yakutsk (presumed), RR HS to 1158, open carrier, 6 pips 1200, organ and talks. quite good level (GD).
- 7200 TAIWAN Voice of Righteousness, \*1100 w/anthem, into CC but jammed heavily. Ltr says txs upgraded, and want reports (BP).
- 7215 ANGOLA R.Ecclesia, songs 0140, AROs got em 0150 (DF).
- 7215 IVORY COAST Abidjan, \*0730 w/IS, FF nx, church svc (ECS).
- 7225 MOROCCO RTVM, AA mx 0530-0630. Tatsfield says 10 kw HS xmtr(ECS).
- 7225 PHILIPPINES FEBC, N:E 1157, ID, mx prgm, ancng //11920,15300(GH).
- 7225 PORTUGAL DW-Sines, Czech 2115-2145, NF/C, ex-15300 (BB).
- 7235 AUSTRALIA RA, pop mx, Indonesian, at 1149 (AAM).
- 7235 SOL.IS. SIBS, ID 0814, into rel prgm (DM). BBC nx 1000, then mx prgm (TN,CB).
- 7245 ANGOLA Emis.Oficial, xylophone IS 0458, \*0500 in PP. Afr mx, US and PP pops. ID 0559 after gong, then nx at 0600 (RWP).
- 7245 MAURITANIA Nouakchott, \*0758 w/guitar IS, into AA. Good (ECS).
- 7245 S.VIETNAM VTVN, lang talk and Viet mx 1025-1045 t/out (TN).
- 7265 W.GERMANY Sudwestfunk, modern mx, pips 0000, ID, GG nx (LM).
- 7270 POLAND Warsaw, EE to NA, unnamed fgy, 0202-0227 (LM).
- 7275 NIGERIA Lagos, N:E and cmtry at \*0600, Afr mx, faded 0650 (DB).
- 7290 MONACO TWR, IS to \*0625, then EE rel prgm (RB,DB,RI). 7295 is the NF, replacing 7290, EE at 0630-0700 (LM,AK).
- 7295 SPAIN R.Liberty, in RR w/talk on Czech situation, 0220 (LM).
- 7301 NIGERIA ECSB/CS, drum IS 0459, TC and local ID 0500 (RWP). N:E 0540, mx, hymns, anmts (FWI). Often arnd 0500, also 2100 (DF).
- 7335 CLANDESTINE(Bulgaria) Radio Stathmos I Foni Tis Alithias, Greek, flute IS at \*0430, then talks, nx, gongs, off 0459 (LM).
- 7415 N.VIETNAM Hanoi, weak in HS w/talks, 1017-1025 (LM).
- 7547 N.VIETNAM Hanoi, in Cambodian 1030-1100 (BB).
- 8630 LIBYA Tripoli, AA mx, M&W ancrs 0540 (LM). Chimes 2100, AA ID, world nx (BE). Nice mx 2215-2258\* w/martial mx (AEM).
- 8892t MONGOLIA Ulan Bator may be weak one heard in unid. lang at 1220, when supposed to have EE (BB).
- 9009 ISRAEL IBA, RR nx 0405, no jamming (LM).
- 9429 CLANDESTINE Voice of the Patriotic Militiamen's Front, M&W talking, Viet mx, steady but weak at 1045-1108\* (LM).
- 9470 RSFSR Peace & Progress prgm in EE, 0000 (JHP).
- 9505 SUDAN Omdurman, AA world nx 2050 (BB), mid-east mx 2211 (RWP).
- 9505 GUATEMALA TGNB, LA mx 0030 (JWC). Sermon 0212 (AA), "Back to the Bible" 0320 (ER). SS mx 0600 (JA), organ mx 0718 (DF). Rel prgm in dialect 1100 (BB), and poor w/ID at 2245 (AEM).
- 9510 AUSTRIA Vienna, 1800-2000 GG to M-E, NF/C, ex-9765 (BB).
- 9510 ALGERIA Algiers, AA mx 0620 (CB), 0720 (DF), 2240 (ER).
- 9510 CHILE R.Corporacion, noted 0752-0756 when NHK took over. Orch. mx, nx headlines. 2 clear IDs in only 4 minutes (RWP).
- 9510 SUDAN Omdurman, chanting 2235, QRM from R.Barquisimeto (SPD).
- 9515m JAPAN NHK, ID, nx, anmts at 1100 (GT).
- 0515 MEXICO XFWW. IDs. ads. mx, excellent at 1800 (DM).

- 9515 TURKEY Ankara, poor w/ID 1900, local mx (AEM). EE 2220, NF ex-15160, //15195 (LM).
- 9515 URUGUAY R.Sarandi, SS talk 0005, to 0025\* (JZ).
- 9520 FRANCE Paris, Polish 1615-1700, //9560,11745 (BB).
- 9520 N.ZEALAND RNZ, IS 0849, local nx 0900, prgm summary 0910, to 1420\* (WBC).
- 9520 PAFUA ABC-Pt.Moresby, rock mx 0700, ID 0730 (AK). Play arnd 0720 (DF), EE 0745, then Pidgin to 0800\* (JF).
- 9520 SPAIN RNE, \*0000 w/anthem, ID, to LA (SPD). SS 0230 (BB), nx 0500 and 0550 (LM), 0558\* w/fqys/targets (BP).
- 9521 PERU R.La Cronica, LA mx 0410, hets RNE-9520 (DF).
- 9525 INDIA AIR, nx cmtry 1810, ID 1820 (AEM), N:E 2200 (JDT), // 9912 (BP). Radio Newsreel 2215, over RSA (LM).
- 9525 CUBA Havana, mx, propoganda, EE nx cmtry 0214 (BK).
- 9525 POLAND Warsaw, SS to Europe 2300-0000 (BB).
- 9525 S.AFR. RSA, N:E 2100, ID 2110 (WBC), N:E and ID at 2220 (ARN).
- 9525 N.VIETNAM Hanoi, EE prgm 0740 w/US pops. Fair (AEM).
- 9530 JAPAN NHK, \*0930 in Japanese to LA, //9765,11780 (BB).
- 9530 N.ZEALAND RNV, EE to S.Pacific at 0700 (JHP).
- 9535 INDIA AIR w/N:E at 1230, over SBC (BB).
- 9535 SWITZ SBC, N:E, feature at 0130 (CD), mx and ID at 0430\* (JWC). N:E in "Eurocall" 1100, audible 24 hrs now (BB).
- 9540 N.ZEALAND RNX, EE 0630 (JA), prgm to Pac 0834, 0840\*//6080(WBC).
- 9545 GHANA Tema, Afr jazz 2110, EE ID 2130, good clarity (AEM).
- 9545v MEXICO LV de Veracruz, SS at 1315 under VOA (BB).
- 9545 PORTUGAL DW-Sines, Hungarian 2000-2045, ex-9625, NF/QC (BB).
- 9550 BELGIUM RTB w/EE 2305-2315 (DF). N:E at 0050 (JDT).
- 9550 CUBA Havana, N:E 0100, mailbag, stamp prgm (CD).
- 9550 NORWAY Oslo to Pac, 0545, NF ex-11850, //9610,9645, all NF/QC(BF, BB).
- 9555 EL SALVADOR YSS, SS TCs, mx, anmts from 1346 (KS), many IDs arnd 1400 (JA).
- 9560 JORDAN Amman, N:E 1500-1510 w/YL ancr (KS).
- 9560 S.AFR. RSA, N:E 2236, then mx (RB). EE ID 0315, nx, 0319\* (JWC).
- 9562 PERU R.Nac, excellent w/IDs, LA mx at 0600 (FWI), fair-poor w/ Peruvian mx 0615 (AEM). Easy IDs, great level, 0800 (RWP).
- 9570 AUSTRALIA RA, N:E at \*0900 to Asia/Jap/NWPac, //5995,11765(WBC).
- 9570 QATAR Doha, \*0229 w/IS and ID "in between" Bucharest's IS(SPD). Believed the one w/N:E 2200, 2215\* w/AA ID, anthem, after chants (BB). Or Kaduna. See Sept LR (Ed).
- 9570 CHILE R.Portales, pop mx, ID 0630, still there 0700 (AEM). Mx, ads, ID 0700, beyond listed s/off(LM). Nx at 0800 (RWP).
- 9575 ITALY RAI, IS, then on in E.Eur lang 0511 (JA). Also EE to Aus&NZ, 2200-2225, NF/QC (BB).
- 9577v EL SALVADOR R.Comercial, w/SS singing at 1300 (BB).
- 9580 AUSTRALIA RA, EE nx, mx, cmtry from 1115 (CD).
- 9580 PHILIPPINES PBS back here now, in EE 0940 (BP).
- 9590 SWEDEN Stockholm, \*0515 in EE to Aus&NZ, NF ex-11895 (BP).
- 9592v SOMALI R.Mogadishu, believed the one here 1700-1730, ex listed 9588. Afr drum mx w/AA flavor (BB).
- 9595 JAPAN NSB, Japanese prgm 1030, apparently press rvw (BB).
- 9595 TUNISIA Tunis, AA chanting 1955, AA nx 2000, good sig (ER).
- 9601v PERU Hrd in SS w/Andean mx, 1100. Either R.Huaras (per REW in WRB) or R.Ayacucho, new on SW, rptd by overseas DXers (BB).
- 9615 ECUADOR HCJB, NF/QC, 0110 to past 0500, //11745,15115 (DF). DX prgm 0300-0330 (CD). EE 0305, w/RRM from Sines after 0315 (BP). Also hrd w/rel prgm at 0440 (RBO).
- 9615 MOROCCO RTVM, 0730 w/AA nx and cmtry (BF).
- 9620 E.GERMANY RBI, ending Ss to LA 0300, NF, maybe replaces 9500(BP).
- 9620 YUGOSLAVIA Belgrade. exc in EE lately at 2200-2215.(RWP,JHP).

- 9625 ISRAEL IBA, good in EE at 2100, //9009 at 2115 (JA).  
 9625a UNID. \*2215 w/IS, lang prgm, to 2230\*, again w/IS (RB).  
 9635 SINGAPORE R.Singapore, peaking 1045 in Mandarin (BB).  
 9640 VATICAN VR, EE talk 2045-2058\* (JHF).  
 9645 AUSTRIA Vienna, GG to SA 2300-0000, NF/QC ex-9690 (BB).  
 9645 COSTA RICA TIFC, poor w/EE rel prgm, 0335 (HS).  
 9650 CYPRUS BBC-Limassol, EE to India/Pak, fair at 0320 (HS).  
 9650 GUINEA Conakry, Afr chants 2125, FF 2130, but no positive ID hrd (ER). FF ID 0555, to 0630 f/out (JZ).  
 9650t PHILIPPINES SEA-V, in what seemed like Mandarin, 1300-1400. Rel choral mx 1340, expected 1400 ID covered by VOA (BB).  
 9660y ALGERIA Algiers, hrd w/AA pops 2000, //15410 (BB). Koran rdngs 2045, 2056\*. NF (BF).  
 9660 CONGO Kinshasa, Afr vocals, FF anmts 2345-2356, not hrd on usual 15245. Via Atlantic, and all over Brisbane (BF). TC 0520, FF ad for Nescafe (BBr).  
 9660 VENEZ R.Rumbos, SS ID and cow mooring at 0900 (BF), also hrd 0900 with morning show (JHP).  
 9670 USA KGEI, EE rel prgm 0430-0500\*, NF ex-11955 (RBO).  
 9675 PERU R.del Pacifico, ID 1140, SS talk and hymns, clear but weak(J).  
 9680 S.AFR. SABC EE svc, mx prgm 0540. Listed s/on is 0633 (DF).  
 9684 PERU R.Continental, Andean mx 0410, past 0600, getting RM(DF). TC and ID 0530, nat'l and pop mx to 0557 f/out (JZ).  
 9685 ALGERIA Algiers, hrd w/Kabyl net from 0600 (DF).  
 9685 UNID. EE rel prgm 0505, but faded before could get ID.ETLF?(RB).  
 9690 ARGENTINA RAE, EE cmtry and mx 0335, mx, into SS 0400 (ER). Ss political speech till 0445 ID (RB), N:E 0600, Ss 0700 (DB).  
 9700 BULGARIA Sofia, folk mx 0000 (Hst), EE nx, mx and features from 0000 (JHD), IS, ID, Mx and cmtry from 0400, good sig (RBO).  
 9705t NIGER Niamey, FF pop mx show, in VOA/HCJB squeeze, 0645 (ECS).  
 9705 S.AFR. RSA good nights at 2330 when HCJB/XEREX not too strong(ACM).  
 9710 PERU R.Tropical, drifting down from 9713, Ss ID at \*1055 (BB).  
 9710 ECUADOR HCJB, EE, mx at 0110, wiping out 9705 (ACM).  
 9715 HOLLAND RN, EE at 0500, nx 0520 (JWC). "Happy Stn" prgm on Sun at 0630 (BK).  
 9715 PHILIPPINES FEBC, mx 0925, then RR ID and mx. Excellent (RBO).  
 9725y TAHITI R.Tahiti, man talking 0345, signal up by 0415 (TDS).  
 9735 W.GERMANY DW, propoganda and EE mx to E.Berlin, 0200 (BK). To E.Berlin at that hour? (Ed).  
 9735 JAPAN NHK, EE to Europe 2030-2100, NF/QC ex-15420, //11950(BB).  
 9740 TANGIER VOA, EE to India at 0235, NF/QC (DF).  
 9740 UAR Cairo, EE to NA 2215, cmtry and mx. Vy good (HS).  
 9745 ECUADOR HCJB, new svc in FF at 0700, //5960 (BF).  
 9745 UNID. Guitar mx 0555, orchestra mx 0559, then man in lang. Is an old Ankara fqy, and sounded like might be them (DF).  
 9750t PHILIPPINES SEARV, 1200-1245 in Burmese under the BBC (BB).  
 9755 BYELORUSSIA Orsha, nx and mx, 0145, good rcpn (CB).  
 9765 ENGLAND BBC, Ss to LA at 0100 and 0300 (ERi). (DW).  
 9765 TAIWAN VoFC, 1745, FF anmts 1750, CC mx, ID 1753, into CC 1800/  
 9791 INDONESIA Djakarta, weak at 1226, //11795 (BBr).  
 9792.5 UNID. Maybe quasi-clandestine R.Azad Kashmir or Free Bangia Desh Radio. 5 pips 1200, western and Indian mx, nx 1200 by man, much talk on Pak, Khan, but no R.Pakistan ID hrd. Fair-poor daily 1000-1305 approximately (LM).  
 9805 UAR Cairo, N:E to Europe 2258-2300, into AA svc (ARN).  
 9810 USSR RM, lang cmtry 0110, ID 0130 (RWM). SS at 2135 (LM).  
 9833 HUNGARY Budapest, choir mx, EE at 0114, //11910 (AAW). IS at 0255, EE ID by lady 0300 (JWC). Cmtry, mx 0400. Fair (BK).  
 9833 CLANDESTINE R Liberation. Viet. talk, mx, poor 1110-1153 (LM).

- 9860v CHINA Peking, Amoy to SEA at 1200-1300 (BB).
- 9912 INDIA AIR, EE cmtry 2025, vy strong (ER). EE GOS, instrumental mx, lady ancr, anti-Pakistan talks, 2045 (LM).
- 9935 INT'L WATERS RNI, fair-good but better than 6205, 0115 w/R&R (RWP). N:E 0200, 0205\* (TDS). Pops 2045 (ER), and a DX show on Sun at 2100 (LM).
- 9988 CHINA Peking carrying "Voix du Front Uni National de Campuchea" 1450 w/Pathet Lao talks, choral mx, 1525 (AEM). Positively a Peking relay? (Ed). 9993, 1130-1200, //10079, 11997 (BB).
- 9981 CLANDESTINE "Free Bangla Desh Radio" may be the weak one here at 1415 in lang (BB).
- 10040 N.VIETNAM Hanoi, N:E, cmtry at 1300, weak and RTTY QRM (DB).
- 10078v CLANDESTINE VoFUNK, talk by YL in Viet-style lang, 1130 (DJ). Cambodian political speech 1130-1200 //9993v, and relayed by R.Liberation-11997v (BB). 1131-1148, //12005.5 (LM).
- 10528 KAZAKH Alma Ata, fair w/dance and clas.mx at 2335 (DJ).
- 11485t CLANDESTINE (W.Germany) R/S Svobodnaya Rossiya or R.Omega (using RSR's xmtr) believed the one under diesel jammers, 1541-1653. NF ex-11525 (LM).
- 11505 CLANDESTINE R.Portugal Livre, fair to poor at 2340 in talks, gone 2353. Supposed to be in Rumania (DJ).
- 11620 UNID. Could be Dacca, hrd 1400-1500, SEA talks, no mx (BBr).
- 11647 UNID. In SEA lang and mx, similar to Indonesian, at 1444 (BBr).
- 11651t E.PAKISTAN Perhaps Dacca, 1515 w/EE, mentioning E.Pakistan. Partial utility xmtr QRM (BBr).
- 11661v SOMALI R.Somali believed the weak one here at 1515, recently logged by Indian DXers (BB).
- 11672 W.PAKISTAN Karachi, w/ID, N:E 0014 (AAM), Turkish 1845-1930, also EE, //9462v (EB). N:E 1900. Cmtry 2010, mx 2015, talk in lang 2020, N:E at dictation speed 2030, 2045\* (DB, TN, KAE, JA).
- 11690 USSR RM, ID, mx, N:E at 0358 (JDT).
- 11695v CLANDESTINE (Bulgaria) R.Peyk-e-Iran, ID 1532, also strong 1732 (KAE). Gong 1700, 1708, IDs, nx, harp IS 1759, lady talking, ID 1806, many xmtr failures. Stockholm QTH given. 1809\* (LM).
- 11700 VATICAN VR, EE to E.Afr 1620-1635, NF/QC (BB).
- 11705 JAPAN NHK, Bengali to E.Pakistan 1430-1500 (BB).
- 11710 INDIA AIR, N:E 2300, NF ex-11895 (BF). EE ID in GOS, 0000, then Asian mx. Strong, maybe Aligarh (BB). ITU lists Delhi (Ed).
- 11710 N.CALEDONIA Noumea, bird chirp IS 0558, then FF ID (JA).
- 11715 CLANDESTINE (Algeria) A Voz da Liberdade in PP, \*0016 after 9-note piano IS and anthem. Wants ltrs to 3 Rue Auber, Algiers. Off 0102 after anthem (LM).
- 11715 AUSTRIA Vienna, GG to N.Eur at 2000-2200, NF/QC ex-11790 (BB).
- 11715 INDIA AIR, dictation N:E 0900, NF (BF).
- 11715 SWITZ SBC, bells and ID 0130, then N:E (JWC). Nx and features 0400, exc, //9535 (JHF).
- 11720 CANADA CBC, nx and sports in N.Svc at 1100 (CD), N:E 1300, FF 1317 (ACM). EE to Eur 2100-2155 Sun (from 2115 weekdays), NF/QC ex-21595, //15325, 17820 (BB).
- 11730 NETH.ANT. RN, SS 2300 (ACM), N:E, cmtry, "DX Jukebox" at 0200 (CD), EE mx prgm to 0320\* (JWC).
- 11735 ECUADOR HCJB, EE at \*0530, NF (DF).
- 11735 ETHIOPIA ETLF, Persian 1600-1655, NF/QC (BB).
- 11735 MOROCCO RFVM, FF ID 0700, then orchestra mx (AEM). EE prgm hrd 1700-1800, featuring rock mx (BB).
- 11735 NORWAY Oslo, cmtry in EE to NA 0100, to 0230\* (JWC).
- 11745 FRANCE Paris, IS 1459, then anmts and mx (JDT).
- 11745 GREENLAND Godthab, carrier on 1436, \*1501, clas.mx prgm w/ man, to 1602 (LM). Believed the flutterer in lang at 1745 (BB).

- Tentative, low voice at 1105 t/in. String and bow instr mx, Scandinavian-like lang. Faded by 1130 (ECS).
- 11750 JAPAN FEN, EE ID 0519, then DJ show w/pop mx (RBO).
- 11760 CUBA Havana, quechua to Peru/Bolivia, 1000-1050 (BB). ID and SS talk 1300. Also mx at 2305 (ACM).
- 11765 AUSTRALIA RA, pop mx and EE cmtry at 0648 (JDT).
- 11765 W.GERMANY DW, Hindi to India 1520-1550, //15275 (BE).
- 11770v MEXICO XERMx, ID 1500 in SS, then lite mx. Het (BB).
- 11775 INDIA AIR, maybe a test over Aligarh xmtr, EE to Aus&NZ at 1000-1100, very strong (BB). ITU lists as Aligarh, 100 kw(Ed).
- 11775 SPAIN RNE, SS mailbag in SS 2210, //15145. Good (KAE). Strong w/SS nx at 2200 (BP).
- 11775 SWITZ SBC, IS, ID, N:E at 0658 (JDT).
- 11775 USA KGEI, SS ID 2330, rel prgm followed. NF, believed ex-15280, but still mixes w/RM LA svc (BP).
- 11780 MOZAMBIQUE L.Marques, EE pops 0555, ID 0600, more mx (TN).
- 11785 NETH.ANT. TWR, AA 0445, EE ID 0500, into Armenian. NF/QC, ex-11705 (DF).
- 11795 ETHIOPIA ETLF, EE IDs 0330, believed anncd FF to follow, but differs w/WRTH Summer Supplement sked (D.).
- 11792 INDONESIA Djakarta, 1245, hrd w/nx in lang past 1330, much fading between 1300-1330 (wEC). Mx, IDs, nx arnd 1330, clear IDs mentioning Djakarta and Indonesia. (DM). Nat'l Prgm from as early as 0740 to past 1630 (BBr). Last 2 rptd on 11795 (Ed).
- 11795 LIBYA LBS, AA mx 1455, nx 1500, good lvl (ER). Strong and clear w/AA cmtry, some march mx in between, 2052-2104 (KS).
- 11795 PORTUGAL CBC-Sines, ID in RR/FF/EE 0329, then off, sked for 0300-0330, NF/QC (DF). Ukrainian 1345-1415, //15265 (BB).
- 11799v CEYLON Columbo, 0145 in Hindi, w/mx, anmts till RNE carrier on at 0158 (LM). Hindi talks 1230, much drifting, //6075v (BB).
- 11800 CANARY IS. RNE, SS mx from 0235 to 0315 t/out (RWM).
- 11810 ALGERIA Algiers, strong level in AA at 2205-2210 check (DF).
- 11810 INDIA AIR, IS at \*1327, into EE ID, N:E in SEA svc. Anncd //15235 (ECS,JA,DM).
- 11810 ITALY RAI, 0240 w/mx and Italian cmtry, ID 0300, 0305 t/out(RWM).
- 11815 NETH.ANT. TWR, EE 0030-0130, believed NF/QC (DF).
- 11820 CANADA CBC, EE 0112, into lang 0120 (RWM).
- 11820 NETH.ANT. TWR, N:E 0100 (JA). GG to SA, \*1000, NF ex-11850, //9730 (BP).
- 11825 TAHITI Papeete, mx 0255, //15182 (DF). Mx, Tahitian talks, exc at 0440 (DM).
- 11830t PHILIPPINES R.Veritas, Thai and Viet svc hrd arnd 1300 (ECS).
- 11830 USSR RM, SS cmtry 0230-0258, then ID (RWM).
- 11835 HAITI 4VEH, EE rel prgm 0045, also mx, IDs. Fair (HS).
- 11835 URUGUAY R.El Espectador, SS nx, talk 0200, also ID. In the clear from 4VEH by 0205, to 0235 t/out (TN). Mx 0243, het (CB).
- 11840 PORTUGAL Lisbon, mx and talk 0132-0146 (RWM), N:E 0300 (JA).
- 11845 USA VOA-Gvl, lang tx to Eur 0300-0500, NF/QC (DF).
- 11848 GHANA Ejura, EE cmtry 2028, 2100\* (RBO).
- 11850 NORWAY Oslo, IS 0455, into Norwegian (ACM).
- 11852v ALBANIA Tirana in SS to LA 0200-0230 (EB).
- 11853 IRAQ Baghdad, AA ID 0600 (BB).
- 11854 BRAZIL R.America, hrd closing suddenly 2359, usual PP, mx (ARN).
- 11855 CHINA Peking, native mx 2355, SS anmts, softer sell now (ARN).
- 11855 SAUDI ARABIA Jeddah, in EE w/pop mx to 0530\* (AK), also pop mx 1745, EE cmtry 1800 (ER), still pop mx 1923 (ENR).
- 11859 RSFSR(As) Krasnoyarsk, CC talk at 1450-1458, over jammers (LM).
- 11860 TAIWAN R.Liberty in RR, ID, 1458-1500\* (LM).
- 11860 USSR R.Vilnius prgm. EE. ID and mx at 2235 (HS).

- 11865 CANADA CBC relaying DW in GG, 0200-0415, //15165. Exc (DF). GG 0345, w/ JRM from Sines in Rumanian (PM), GG 0300 (ACM).
- 11870 LITHUANIA RM via Kaunas, nx and mx at 0330 (CB).
- 11875 BELGIUM RTB, FF/Dutch/EE to Americas 2215-0100, NF ex-15230, //9550. QC (BB).
- 11875 NICARAGUA R.Nacional, in the clear 0230 past 0300 (DF). SS talk, pop tunes 0500-0530 (TG,MM), nx and ID before 0554\* w/ anthem (JZ). Also w/SS mx 1300 (ACM), and exc w/LA mx 2000(JWC).
- 11880 AUSTRALIA RA, EE nx focus 1113, to 1130\* (ENR).
- 11880 MEXICO R.Tricolor (ex-XERH), hrd w/SS ID at 2130 (BB).
- 11880 TURKEY Ankara, chants and talk from 0435, no ID hrd.NF/QC(DF).
- 11886v W.PAKISTAN Karachi, Bengali to E.Pakistan hrd 0230 (BB).
- 11890 ETHIOPIA ETLF, EE 0535, weak w/JRM. To 0556\* (RI).
- 11895t URUGUAY SODRE may be the one hetting Denmark, or could be Chile. Fiji also has been testing arnd 0300 (BB).
- 11895 DENMARK RD, Danish to NA 0200-0245 (BB).
- 11900 USSR RM, N:E to NA, 0000-0015 (M).
- 11910 CYPRUS BBC-Limassol, EE mystery drama at 1645 (JDT).
- 11910 HUNGARY Budapest, Italian 2015-2030, wide drift (BB). Supposed to be 15 kw from Szekesfehervar. EE 0125, then IS. Not good(DF).
- 11910 INDIA AIR, dictation N:E 0900, //15185,17840,17780,15333(BP).
- 11910 MALAYSIA FBC-Tebrau, Asian lang, EE ID, 1610-1619 (LM).
- 11915 ECUADOR HCJB, into RR at 0300, on extended RR sked (DF).
- 11920 IVORY COAST Abidjan, ending Afr mx 0650, then nx, IDs (CB). Tentative, Afr mx, nx in FF every half hour, to 2400\* (ACM).
- 11920 PHILIPPINES FEBC, EE anmt 1245, mx, N:E 1250. Fair, JRM (ER).
- 11920 SWEDEN Stockholm, EE to FE 2045-2115, NF ex-11970 (BB).
- 11940 LIBERIA ELWA, EE anmt 0628, rel mx at 0630 (JHP).
- 11945t MALAGASY REP. Tananarive, alternating IDs at 2120, 9/3, all FF. Mentions of Madagascar. Good, but lost at 2130 (ECS). How about more details on this one, Ed (Ed).
- 11950 BRAZIL R.Min.Educ, clas.mx 0235, JRM from Moscow (JDT).
- 11965 PHILIPPINES VOA-Tinang, CC talk, soft mx at 1240 (LM).
- 11970 LEBANON Beirut, \*0230, N:E, mx, JRM from Grenada (DB).
- 11974 GRENADA WIBS, BBC N:E 0205 (LM). 11975, BBC relay, TC, mx, around 0030 (DM).
- 12006 CLANDESTINE VoFUNK, poor with talk at 1150, //10080v.NF(LM). Talk from 1211, choral selection 1228, to 1230\* (GD).
- 12080 CLANDESTINE (Venez) R.Euzkadi, \*2231 w/IDs, talks, Basque mx, SS and Basque languages. Hrd to 2245, //13235v (LM).
- 12107v CLANDESTINE R.Liberation in FF, poor 2000-2022 (LM).
- 12165 IRAN Tehran, moved or drifting, hrd in EE w/western mx and IDs arnd 2020 (LM). 12176, Persian nx 1240(AEM), N:E 2000 (TN).
- 14504v CLANDESTINE(Rumania) REI in SS 1605, w/UTE and jamming (LM). 14480, maybe REI w/mentions of Valencia, Spain, 2030 (ER).
- 14992v CLANDESTINE R.Liberation, in Viet to SEA 1235-1412, and to Eur at 2057\* (LM). 14990a, Asian arnd 1335, sounds like Hanoi-quality xmtr, oriental talk and mx (RWP). In Viet at 2030 (BB), nx in FF 2010 (AEM).
- 15084 IRAN Tehran, chanting and lady tkng at 1930 (ACM). Mx, vy strong at 2000 (TG), also good w/N-E mx 2104, some flutter (SK).
- 15097 W.PAKISTAN Karachi, IS 1730, into AA to N-E (KAE).
- 15105 BRAZIL R.Rural, PF talks and mx, good, at 2300-2330 checks(KAE).
- 15105 JAPAN NHK, good sig in EE during Gen'l Svc at 2100 (KAE).
- 15110 GRENADA WIBS, EE items from the islands, mx, arnd 1620 (JA).
- 15110 N.ZEALAND RNZ, lite mx 0250, N:E 0300 (ER).
- 15120 CEYLON Columbo, N:E 1030, //17830 (anncs only latter)(BP). EE to Asia hrd 1645-1702\*, ancng //9570,6005(LM). EE ID 1100 (TDS), local mx 1615, ID 1630 (JDT). Coml Svc hrd 1415 (BB).

- 15120 FRANCE Paris, IS 1758, into FF (FWI). FF at 1815 (RWP).
- 15125 AUSTRALIA RA-Shepparton, back here in EE 0830, ex-17740 (BP).
- 15145 BRAZIL R.J.do Comercio, good sigs some days, 2200-0000(KAE).
- 15145 SEYCHELLES FEBA, EE anmts, mx, fairly good at 1700 (DB).
- 15145 SPAIN RNE, vy good w/talks 0210 (LM), NF ex-15195 (BP). SS to SA hrd 2200 (JA), pop and LA mx 2244-2255 (DW), mx 0000(JDT).
- 15150 N.KOREA Pyongyang, good in Korean 0000, also in SS at 2300 and 0100 (KAE). IS and ID at \*0800, then EE (DM), and political tirade 1403 in EE (JDT).
- 15155 BRAZIL Rdif.do S.P, good in PP at 2200 (KAE).
- 15155 CUBA Havana w/EE to Eur 2115, NF ex-17815 (LM).
- 15160 AUSTRALIA RA, EE nx and mx at 0400-0530 (MM).
- 15165 TURKEY Ankara, EE at 2200, good, //15195 (JA).
- 15165 CHINA Peking, EE to ECNA, \*0100, NF ex-15520, unlisted (LM). N:E 0100 (MM).
- 15165 DENMARK RD, Danish to SEA 1400-1445 (FE), off w/EE anmt and anthem after prgm to Afr, 1916\* (KAE), Danish to SA 2200-2215(MM).
- 15165 CANADA DW via CBC, anmt 0158, then into GG. Lasts till 0400, when also gives anmt re relay (MT). Hrd w/cmtry 0230 (BP), GG talks 0330 (GH, TDS). //11865 (BB).
- 15165 SYRIA Damascus, N:E 1930 (DM), rock and local mx 2000-2030(AK).
- 15170 TAHITI Papeete, \*0300 w/mx (RWP), parade b/c 9/8 past 0330(WBC).
- 15182 TAHITI Papeete, here now, mx 0255 (DF), mx 2110, also 0300-0800 (BF).
- 15190 BRAZIL R.Inconfidencia, PP talks and sports, ID 0220 (JDT).
- 15195 TURKEY Ankara, N:E 2130, travel prgm, pop mx (DB). N:E also 2200 (FWI). 15160/15165 not hrd // to 15195 at 2200 (KAE).
- 15200 NIGERIA VoN, exc w/N:E 0600 (AEM), mx 1905 (GT).
- 15213 BRAZIL R.Timbira, sports 1801, TC, mx, more sports. Seems a reactivation of nominal 15215 (GH).
- 15230 AUSTRIA Vienna, GG to E.Afr, 1800-2000, NF/QC ex-15335 (BB).
- 15240 SWEDEN Stockholm, EE to SEA 1400-1430, NF, //21625 (BB).
- 15265 AFGHANISTAN Kabul, \*1730 in GG, into EE 1800, giving nx, wx, cmtry. quotes 17775, which would be new fqy (ARN,CD).
- 15270 MALTA DW supposedly operating here 15270 acc to rumors, but nothing hrd yet. Not sked to be in operation till 73 (ARN). 15270 also rptd by a Malta rprr to WRB (Ed).
- 15290 SYRIA Damascus, guitar IS at \*0259, AA chants (RWP).
- 15300 JAPAN NHK, EE 1400-1430 (BB), N:E 1600-1615, then Jap (TN).
- 15335v INDIA AIR, dictation N:E 0900 (BP), Tamil 1130-1230 (BB).
- 15345v GREECE NHBI, all Greek on Sun at \*2200 (RWP). Hrd weekdays 2200-2230 in Greek/EE/FF 2200-2230 (ARN,ER,RB), also N:E at 1150 to 1200\*, no anthem or mx (KS). See 15424 (Ed).
- 15345 JORDAN Amman, AA cmtry 1200-1220, nat'l mx. NF (KS).
- 15345 KUWAIT N:E 0430 (CB). EE at \*1600, nx 1615 (BB). ID 1830 (JSM), pop mx 2000 (RWP). ID 0435, into mx after mx (SK).
- 15380 RWANDA DW-Kigali, IS to 2030, into GG nx, cmtry (DM,RMM).
- 15410 ALGERIA Algiers, \*1755 w/IS, drums, exc sig (ECS). Hrd under VOA in AA, 2000, //9660 (BB).
- 15415 SEYCHELLES FEBA, IS and IDs 1652-1658, mx, anmts (TN).
- 15424v GREECE NHBI, nx 2000, strong but unstable sig. Folk and orch mx, flutes, IDs. Hrd 1928-2102, 2156-2230, 2256-2327 (LM). Also hrd vy well w/IS at \*1728 (Ed).
- 15430 S.KOREA VoFK, exc in EE 0325, gone 0330 (DF). Fair in lang nx at 1000 (FM).
- 15435 MALAYSIA BBC-Tebrau, mx 0040 to 0045\* (ER).
- 15440 PHILIPPINES FEBC, EE gospel mx prgm, letters, 1345. Fair (ECS).
- 15448 BRASIL R.Nac.Brasilia slightly above 15445, PP 2310. Good (ARN)

- 15487v CLANDESTINE(Rumania) R.Fort.Live, hrd at 1233\*, also 1805-1841, in PP w/good strength but sloppy carrier (LM).  
 15520 E.PAKISTAN Dacca, dictation speed N:E till ID at 1800\* (LM).  
 15789 CLANDESTINE Voice of Malayan Revol, CC and lang talking and mx, 1156-1302\*, //11829, tent. 1324-1500, \*2228-0000\* (LM).  
 16320 N.KOREA Pyongyang, SS to LA to 2358\* (LM). SS nx 0103, and earlier w/SS cmtry 2345 (ER).  
 17655 UAR Cairo, AA chants 1705 (RWM). EE to Afr, incl. "AA by R" at 1730-1840 (JHP).  
 17720 TURKEY Ankara, EE "Ltr Box" at 1420. Strong (AEM).  
 17760 W.GERMANY R.Liberty, mx and anmt 1557, nx 1600. Hvy jamming(ER).  
 17780 ECUADOR HCJB, EE 2005, ID 2014, then into FF (R/M).  
 17795 AUSTRALIA RA, N:E to NA hrd at 0230 (JWC).  
 17795 NORWAY Oslo, EE to Caribbean at \*1600 w/nx in EE (HS).  
 17800 RWANDA Dw-Kigali, IS 2258, into GG to SA (RWP,RBO).  
 17830 W.PAKISTAN Karachi, EE ID at \*0930, then into Burmese (BP).  
 17845 BELGIUM RTB, Flemish to Afr 1430, NF ex-17865. QC (BB).  
 17870 GHANA Accra, N:E, cmtry 1448, ID 1458, lang at 1500 (RWM).  
 17920 UAR Cairo, Bengali 1215-1315 (BB), pops, EE ID at 1430 (JDT).  
 17935v W.PAKISTAN Karachi, weak w/N:E 0230 (JWC). Same 1500-1515 (KAE), and w/AA mx and talks at 1750, //15099v (LM).  
 21495 PORTUGAL Lisbon, EE "Voice of West" at 1830 (JHP).  
 21570 JAPAN NHK, exc w/GG to Eur 0715, NF ex-21535(BP). Not hrd(BB).  
 21690 GRENADA WIBS, hrd w/cricket match at 2030, exc sig (WBC).  
 21705 MEXICO XERMEX, Ss talks, EE ID at 1900 (JS:). SS nx 2000(RI), talk at 2015 (KS). Wobbling a bit at 0030 (LM).  
 21740 AUSTRALIA RA, ID 0100 to NA, vy good sig (RBO).

Whew! Hardly enough room to say "thanks" to those who make this possible every month . . .

AAM Albert A.Miller, Jr, Ohio/HRO500	JDT John D.Tuchscherer, Wis/HQ100A
ACM Anthony C.Marks, Oregon/DX150	JF John Fisher, Ont/636X
AEM A.E.Martin, Lancas, Eng/51J2	JHP J.Hoyt Prisock, Ohio/TEM1600
AK Audie Kaufman, N.Y./SPR4	JSM Jos.S.Maslak, Mass/Hq200
BB Bill Berghammer, N.Y./SP600,	JWC John W.Creamer, Colo/SW4A
BBR Bob Brode, Calif/SB310	Hq180C JZ Jim Zabransky, Jr, Ill/SB310
BK Bob King, Minn/Hq205	KAE Kim A.Elliott, Ind/SPR4
BP Bob Padula, Melb, Aus/CR100	KS Ken Schnur, N.Y.
CB Chris Brooks, Colo/R4A	LM Larry Magne, Pa.
CD Connie Damewood, Va/SX133	MH Mike Hardester, Cal/Hq129X
DB Dean Bianco, N.Y./SB310	MM Mildred Marshall, N.D./SX122
DF Dan Ferguson, W.Va/SB310	PM Paul Mayo, N.Y./Hq180AC, SB310
DJ Dannie Jamison, Ky.	RB Ron Bruns, Mo/DX150A
DM Doug McClellan, N.M./GR64	RBO Richd.B.Odlin, Wash/R4B
DW Dave Williams, Ore/75S3C, SPR4	RI Robt.Ingram, Ohio/2C
ECS Edw.C.Shaw, Va/SX130	RWM Robt.W.Moser, Ill/R4B, SX62A
ER Evan Rosen, N.Y./SX133	RWP Ralph W.Perry, Ill/S85
FWI Forester w.Isen, Jr, Md/R648	SK Steve Kamp, Cal/Hq140X
GD Gerry Dexter, Wis/Hq180A, R4B	SPD Steve P.d'Adolf, Mass/R530
GH Glenn Hauser, Texas/Hq160	TDS T.D.Smith, Tex/GR54, BC779A
GT Gary Toncre, Fla/DX150A	TG Tom Gavaras, Minn.
HM Hank Michalenka, R.I.	TN Tom Neely, Mich/DX150A
HS Harold Sellers, Ont/9R59D	TW Tom Williamson, Ont/Hq180
HSt Howard Stevens, Mich.	WBC Wm.B.Conner, Pa/SPR4
JA John Alcock, Fla/SX43	Ed. Jerry Berg, Mass/SB310

Keep your ears open for good afternoon openings to Africa and the Far East. This is about the time . . . See you next month--JB

## FLASHSHEET

Al Niblack-Editor, 420 Shelby St., Vincennes, Ind. 47591 Deadline 23rd of the Month

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SWAZILAND (FLASH) Glenn Hauser, Tex., advises that Mark Wollinger of Intermedia Inc., informs that Swazi Radio will be on 1376 kcs, AM; and 25, 49, 60 MBs with 10kW, 0500-2400. Target date December 1, 1971, all in EE. Look for this one! (FLASH)

ANGOLA 11876.2V (TENT) Emis. Official believed the PP station here 0730, on extended sked. Only other possible would be all night Brazilian. (Bill Berghammer, N.Y.)

AUSTRALIA RA new fgy in EE news 1500 on 7235, and 9590; Darwin Relay 250kW, EE news on 6055 and 7140, a new fgy. (August Balbi, Calif.)

BRUNEI R. Brunei, 7215, logged with M&W annrcs at 1001. (Kris Lemma, Indiana)

BURMA (FLASH) In today's mail a letter saying the BBS has confirmed and acknowledged my reception; including date, times and fgy's! (Ger Dexter, Wisc.) (A break through after 15 yrs of effort, Editor)...QSL de Burma in, 5040 at 1100!! (Ed Shaw, Va.) (Congrats, Edi-

CEYLON RC in Cm Svc in EE on 15120, 1630, nice music, fair sigs (Ed Insinger, N.J.) /tor

CHINA (PR) Peking HS now on 17795, ex-17794, with severe het to ABC NA Svc. Noted directly under ABC 0100-0200. (Dr. R. E. Wood, Ia.)

COLOMBIA ENTEL, Stn HJB, has been relaying Radiodifusora Nacional at many hours, including a heavy concert at 2058; ID as "Ministerio de Comunicaciones", 15500 (Glenn Hauser)

DOMINICAN REP R. Antillas, 4962, 0230 with native music, frequent IDs. Not heard for several years. (Marlin Field, Mich.)...R. Antillas, Santo Domingo, 4960, has reactivated SW, but still amcing only MW 1120. S/off 0506. Not nightly. (Dr. R. E. Wood)

ETHIOPIA ETLF, S/on 0300, 11795, EE ID, FF prgming; on 9725, 0330, Swahili. (August Balbi)

GAMBIA 4820 Bathurst S/on 0630A, BBC news 0700, fair lvl. (August Balbi)...Sked just in from Bathurst is beasting daily to 2300 S/off. (Ralph Perry, Ill.)

GREECE Athens, NBI, 15347V, S/on 2200, into Greek, EE news at 2210. (Kris Lemma)

HUNGARY R. Budapest, 9833, EE at 2137 by M&W annrcs. (John Banta, N.Y.)

INDONESIA (SULAWESI) RRI, Makassar, 1225, singing ads in Indonesian; 1227 RRI-Djakarta ID, mx, 4719, 33443. (Glenn Hauser)...5047 Station YDJI noted 1146 with EE ID, good lvl. (Ralph Perry)...5270 SULAWESI 1157 with hymn-like music; Djakarta news relay 1200; FBIS

lists a station called R. Chusus Pemerintah Kabupaten Poso. (Glenn Hauser)...RRI, Djakarta, powerful signal, all native on 11792//6045, 1300-1600 S/off. (August Balbi)

INTERNATIONAL WATERS RNI heard well enough to tape at 2300 on 6205. (Ed Insinger)...RNI logged on 9935A from 1943 past 2135 in music, ads, EE by M. (John Banta, N. Y.)

IRAQ 15202.4V R. Baghdad on new fgy, 0300 full Arabic ID; possibly ex-15400 (Bill Berg-

ISRAEL Kol Israel, Jerusalem moving around, testing; 2122 on 7225, poor lvl./hammer) in EE, //9685. Bad ARO QRM. (John Banta)

JAPAN NHK Sept fgy changes in NA-IA-HA Svc now will use 15235, 17725, 17825 (same), 21460, 0100-0300; NA Svc still 17825, 15445. I like this one! (Ed Insinger)

KENYA 4915 Nairobi at 0315, Swahili, with time checks. (Ralph Perry)

LEBANON 11955 New fgy, ID as Radio Lebanon at 0230, 9/17. (August Balbi)...11965 Believe this is a 5 kcs move, R. Lebanon at 0230. (Rich Heggs, Canada)...11975 RL in EE

to NA at 0230 with poor signals, QRM & QRN. (Ed Insinger)...Berlut to NA 0130-0400, 11955, ex-11970V. Good but BBC Limassol QRM from 0145. (Dr. R. E. Wood)

LESOTHO (TENT) 4800 Being heard here almost nightly for around 5 minuted from 0403-0408; definitely plays African music, but no definite ID possible. (Kris Lemma)

MALAYSIA BDCFB S/off 1820, 11955, EE news prgm, preview, good signal. (Rich Heggs)

MEXICO 3200 (FLASH) The station here is definitely XERTP, San Martin Texmelucan, Puebla (2x1600). Currently well heard; 14 Sept 1157 carrier on, 1158 music, many IDs, then prgm, "Amanecer en Puebla". (Glenn Hauser) (Thanks for cleaning this one up, Editor)

MONGOLIA (PR) (TENT) 8891.6V Ulan Bator Radio believed the weak station here 1220 in language; EE 1220-1250 according to Ceylon reporter. (Bill Berghammer)

NIGER 9705 R. Niger heard briefly 0703 with FF, this only on a Sunday. (Kris Lemma)

NIGERIA 4900 9/13, NBC, Lagos, with 0436 chants, TCS, EE annrcs, new fgy (TENT) (Ralph

NEW ZEALAND RNZ S/on 0600, BBC news on 11780; 9540 again in use, replacing 9755 /Perry) at 0600; irregularly heard at 0200 on 17770//15110 in news. (August Balbi\*)

PARAGUAY 6015.6V (TENT) Believed R. Paraguay, 0940 SS talk, rapid fade (Bill Berghammer)  
PERU 4815 R. Amazonas 9/15, 0330-0435 T/out. M in SS, music; after 0400 bits of music after each bulletin. Frequent IDs, well heard; (John Tuchscherer, Wisc.)

PHILIPPINES 7225 FEBC at 1220 in all EE, ID at 1229; into Malaysian 1230. (Ralph Perry)  
 ...FEBC, Manila, 11920, IDs, 1200 to 1215 "Shortwave Mailbag"; QRM de R. Tashkent and an unidentified source. (John Banta)

POLAND R. Warsaw now clear at 0200, 9525, in lingo, into short EE prgm - commentary, but not noted on // 15175. (Rich Higgs, Canada)

RHODESIA 5975.8V (TENT) RBC, Salisbury believed the weak language station here, 0545, at 23232 SINPO. (Bill Berghammer)

SAWARAK 4950 R. Malaysia logged at 1200 with an EE ID at 1205. (Ralph Perry)

SEYCHELLES 11935 EBA testing new fgy to ME 1700-1900, EE, fair lvl. (August Balbi)

SOMALI REP 11661V (TENT) R. Somali believed the weak station audible here at 1515, logged by Indian DXers. My logging on 8/15. (Bill Berghammer)

SO AFRICA 2326M SABC 0430 EE news // 3285; 2346M SABC at 0430 with Afrikaans news in parallel with 3320...2376M SABC, 0315 "Springbok Radio", EE and Afrikaans, cms, in parallel with 3250. (Bill Berghammer)...6195 Springbok at 0440 in EE, many cms, Benson & Hedges cigs, "Ban", and pops. (Rich Higgs)

SAHARA (SP) 7230 (TENT) (FLASH) R. Sahara logged 9/12, 0805-0830, with Arabic music, no QRM except QRM static. Very weak strain lvl. (Marlin Field, Mich.)

SWITZERLAND Winter sked to NA 0130-0345, 6120, 9535, 9750, and 11715; 0400-0545 on 6120 and 9535. (Dr. R. E. Wood)

TURKEY R. Ankara 0350 IS, 0356 S/on on new 11880, assume ex-15160. Very good no strain lvl. (Dr. R. E. Wood)

VATICAN VR using 5995 to replace 15420 to NA 0030-0130; watch for other possible changes. (Dr. R. E. Wood)

CLANDESTINE 6199. LAOS LV du Pathet Lao, 9/12, 1230 going from Viet to Lao with characteristic theme music. 23433 (Hauser)

#### AUGUST 1971

#### SUNSPOT COUNT AS FURNISHED BY THE ZURICH OBSERVATORY 9-7-71:

1-70, 2-57, 3-58, 4-43, 5-48, 6-40, 7-48 8-55, 9-59, 10-64, 11-60, 12-58, 14-58,  
 15-53, 16-49, 17-52, 18-60, 19-62, 20-82, 21-107, 22-98, 23-106, 24-93, 25-91, 26-82,  
 27-49, 28-37, 29-29, 30-17, 31-15 MEAN--59.9

PREDICTIONS: SEP-57 OCT-55 NOV-53 DEC-51 JAN-49 FEB-47 (Grady Ferguson, No. Car.)  
 (It looks like a banner low band DX season is approaching, Editor)

ERRATUM: ARGENTINA Time stations LQD9 and LQC20 are not new; have appeared on utility lists as early as 1966 in ASWLC. (Hauser)...CHINA (TIBET) Report would seem extremely doubtful; in the first place its a largely daylight path. (Hauser)...The listing of R. Mexico 0800-2400 on 9705 is an obvious error as this fgy is used by R. RSA with 250kW. Aside from the fgy discrepancy, which xmission would you bet on hearing? (Bob Peritz, N. Y.)...Good audibility of LOL, Argentina is reported on 15000. This is also the same fgy used by WWV in Colo. Once again, I put my money on WWV to overshadow LOL. After listening for several days, the best SINPO rating for LOL is fair to poor. (Bob Peritz)  
 ...Look at the logging for La Voz de la America Latina, 6165, reported as operating at 0620. Its a neat trick to hear them at 0620 when S/off is 0600. (Bob Peritz) (Please see previous FS for reference to the above items) (Editor)

SILENT RECEIVER: IN MEMORIAM - This Flashsheet for October is dedicated to the memory of Ab Saylor, formerly of Quantico, Va. Veteran DXer and long time good friend Ab passed away recently after an illness and complications. Ab, quite active years ago in the DX World, has of recent been inactive at the hobby. We kept in touch. Ab was proud of his crystal sets; he knew his way around in the inside of receivers, and he knew what made them talk. Ab, you will be remembered and the hobby needs more like you.

Anthony Marks (Oregon) and Ed Shaw (Va.) report that they are new and happy owners of the just arrived Allied SX-190 Receivers. (how about some reports fellows, Editor?)

ACKNOWLEDGEMENT: Thanks for the able assistance this month. Due to corrections and other details that it was necessary to run, we had to delete some of the material in the reports. Please keep them coming. Phone Flash items to 882-3976 after 2200. Vy 73, AL